

Design • Function • Efficiency  
**The Compendium**





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BOS Best Of Steel has been manufacturing steel frames for doors and windows for over 45 years.

Consistent customer orientation, reliability and punctuality as well as a high level of flexibility are the foundations of our company.

BOS is the market leader in Germany and leading in many other European countries.



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 information.

### Foundation

In 1967 BOS was founded by the locksmith Bernhard Ohmen. Right from the beginning steel frames, stairs, banisters, balcony railings, gates and doors were manufactured. Later came the specialization in steel frames.

In 1980 material containers and associated products formed a new segment of BOS, with the addition of Quick-Build-Warehouses in 1995.

In 2002 the Austrian DOMOFERM Group/Vienna became the main owners of BOS GmbH.

In 2012 the DOMOFERM Group was bought by Austro Holding in Vienna/Austria.

BOS Best Of Steel has over 45 years of experience in the processing and refinement of steel and stainless steel.

### DOMOFERM Group

DOMOFERM is the market leader in Austria in the sector steel frames and steel and fire protection doors. Furthermore, they are successfully operative with distribution companies in many other countries.

With four production plants in Austria, Germany and the Czech Republic, the DOMOFERM Group is market leader in Europe in the steel frame sector.

### Corporate Culture and Business Guidelines

With our Business Guidelines

we have clearly defined our corporate culture and act accordingly.

The focal point for us is the enthusiastic customer. We achieve this through our enthusiastic employees. In order to motivate our members of staff target-oriented, we have defined our managerial behaviour strictly according to our Business Guidelines. This process has been and continues to be accompanied by intensive training for both employees and managers. The result: highly motivated members of staff work together enthusiastically with our customers. Both parties benefit from the mutual success.

### Organisation

The organisation at BOS is consistently geared to the requirements of our customers. In small sales teams the employees responsible ensure an optimal customer support. The daily contact via telephone, fax or e-mail is rounded up with visits to the customer by a member of the team. Good availability, fast and reliable answers and mutual trust are the basis of successful cooperation.

Our members of staff work with the highest level of autonomy in their field. The personal commitment of each and every person keeps decision routes short and supports the consistent customer orientation: **This is exactly what you will**

### experience everyday through our actions!

### Absolute Customer Orientation

Consistent orientation towards the success of our customers has made us the preferred supplier and thus the market leader in the steel frame sector.

Our employees are particularly dedicated to our customers and those thereof. We take the whole value chain into account with the aim of inspiring our customers.

We strive towards a relationship of mutual trust. This plays a major role for our trading partners when deciding to co-operate with BOS.

We see our achieved leading position in the market as a challenge to continuously develop and further improve our performance for our customers.

### Reliable and Fast

Fast quotes and order confirmations, reliable information and good availability, prompt return calls as well as punctual deliveries are demands which we are glad to fulfill.

Our direct, reliable and punctual deliveries offer a maximum level of security for our customers and theirs.



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## Architect Consulting Service

Architects determine to a large part the building construction. With our architect consulting service we help as early as in the planning phase to find the best solution for the respective application.

We have many solutions on hand or we are happy to work out specific solutions individually. We provide the architects with information relating to design and technical solutions. The close cooperation and specification at an early stage makes the later implementation much easier for all concerned.

Together with our partners, we offer comprehensive training for both architects and customers relating to particular subjects such as barrier-free living.

## Integrated Management

The Integrated Management System at our disposal is continually being optimised according to DIN EN ISO 9001:2008 (Quality), DIN EN ISO 14001:2009 (Environment), DIN EN ISO 50001 (Energy) and BS OHSAS 18001:2007 (Industrial Safety). The guarantee of quality is a quintessential element for us. Good quality is the requisite for permanently enthusiastic

customers and helps to save time and costs within the whole process.

The required quality levels for fire protection frames for our industrial partners are additionally monitored and confirmed at regular intervals by external institutions (MPA Dortmund, BAM, ift).

Ongoing workshops, instruction courses and TVP (daily improvement process) ensure the well-known BOS Best Of Steel quality standards.

Our employees are highly qualified and regularly trained. We believe in the employee self-control principle.

## Logistics and Service

With our own fleet of lorries and specially trained forwarding agents, we are able to deliver regularly and frequently to any building site or location within Germany.

Should there be any unforeseen problems on the building site, our customer service is readily available. It is regarded as imperative to eliminate any delay in construction and to avoid any unnecessary costs for our customers and theirs.

## Strategy and Innovation

As market leader we are

continually optimising the steel frame. Our aim is to be able to join any door with any wall perfectly, taking the specific door technology into account. This means customized coordination of design, function and efficiency.

## Sustainable building

BOS Best Of Steel combines frame design with sustainable building. BOS steel frames in various designs can be found in the product databank of [greenbuildingproducts.eu](http://greenbuildingproducts.eu), which have been evaluated according to LEED and DGNB criteria.

## A Learning Organisation

To live means to change. We are constantly facing new challenges and regard ourselves as a "Learning Organisation".

At BOS Best Of Steel we have successfully introduced the "Kaizen" method in our production and administration departments and have further advanced to the daily improvement process (TVP). We continually scrutinize what we have achieved and search for even better solutions for ourselves and for our customers.



reddot design award  
winner 2012



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information.



As market leader we are continually striving towards further **improvements of the steel frame**. Our goal is to be able to perfectly join any door with any wall, which means individual co-ordination of **design, function and efficiency**.

Our **employees** are our strength. They are characterised by absolute customer orientation, competent advice, professional manufacturing, comprehensive service, good relationships, a willingness to learn and fast implementation.

Our customers are our partners. We want to become even more successful together, as the success of our customers is our success.

Therefore, closeness to our customers is our aim, with the target "enthusiastic customers" as the focus. The basis for this is the perfect command of our daily business and good quality of relationships.

Our objectives are:

- to offer competent and friendly technical advice relating to "problem-solving" for both our customers and theirs. This includes architects and other market participants.
- to give quick and reliable information about deliveries, conditions and technical details.

- to deliver quality products quickly and punctually at realistic prices. This includes the service after sales.
- to systematically develop the co-operation with our customers and to consistently use new service offers.

We aim for a **relationship based on mutual trust** – both within the company at all hierarchical levels and throughout all departments, as well as with our external partners (customers, suppliers, advisors, authorities etc.). This is the basis for all successful and goal orientated co-operation. We pay careful attention to the protection of both health and environment at all times.

We expect **personal commitment** to our customers from all our employees. We want to optimize the whole business through improvements ("Daily Process of Improvement", quality circles, brainstorming, project work etc.). We achieve this through our professionally experienced employees,

- whose contribution to our business goals and success is clear.
- who take responsibility for their actions and are characterised through the use of good communication skills in form and content.

- who actively take part in the "Daily Process of Improvement" and are willing to constantly learn.
- who contribute to a good working climate and take pleasure in their work and the results.

As well as these points we also have special demands on our supervisors relating to **leadership behaviour**. We commit ourselves personally and expect all our supervisors at BOS to feel obliged to:

- have an "ear" for problems, ideas and solutions from the employees.
- have an "eye" for strengths and weaknesses and a "hand" for delegation in the sense of demand, support and assistance for the employees.
- actively include employees when making decisions.
- be a good example to the employees.

**Our vision:** We will develop the brand name "Best Of Steel" even further as a quality standard for products and services. We act as a specialist system supplier, sometimes with partners, in selected areas of use. With our extended programme we offer our customers a constantly growing benefit.



Michael Patzelt  
Managing Director



Thomas Bockholt  
Sales and Marketing



Oliver Eller  
Production Manager



Anja Aupke  
Finance



Helmut Linnenbaum  
Development and Architects



Martin Völlering  
Quality Management

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BOS Best Of Steel supports its partners with a comprehensive range of services. This starts with the consultation to find project solutions, continues through the individual processing of enquiries and orders, right up to the flawless delivery, even including the occasional elimination of unforeseeable problems arising on site.

## Training

Together with our partners, we offer comprehensive training for both architects and customers relating to particular subjects such as barrier-free living.

## Architect Consulting Service

Having the right information in the planning phase is not only helpful to determine the optimal solution, but also avoids costly mistakes. Our consultation service is at the architects' disposal right from the initial planning stage. We can provide information relating to both design and technical solutions with appropriate CAD drawings.

## Technical Advice

For successful work in the project sector, we offer our partners competent technical advice. We have many solutions on hand or we are happy to work out specific solutions individually.

## Offers

Offers are submitted as detailed drafts or as fast quotes on schedule – also at short notice. We help you to choose the right solution for your project.

## Just-in-Time Programme

This service can speed up the processing of certain orders (with surcharge).

## Order Confirmations

Orders are confirmed within 24 and 48 hours respectively (> 95%). In this way our customers can be sure that their order has arrived and have fast and reliable information on hand.

## Flexibility

Daily changing demands relating to technical details, dates, deliveries etc. require a high level of flexibility. Our employees are prepared for these situations.

## Availability

Everybody wants a partner who is available at short notice when questions arise. The BOS employees are readily available and can immediately give you the required information.

## Reliability

Absolutely reliable action in all areas of our company is our definite aim. We are punctual and keep our word.

## Quality Management - Utmost Quality

Ongoing workshops, audits and directed measures for permanent improvement ensure the well-known BOS quality. Manufacturing according to RAL and certification according to DIN EN ISO and

EMAS guarantee this high standard. Naturally the modern environmental requirements are consistently followed. Quality pays off.

## Reliable Deliveries

With our own fleet of lorries and specially trained forwarding agents, we are able to deliver regularly and frequently to any building site or location within Germany.

## Customer Service

Suddenly arising problems on the building site call for quick, co-ordinated action. The construction process should not be delayed and therefore our customer service with qualified personnel is readily available.

## After-Sales Service

We are also available as a partner to our customers after sales, to deal with any arising questions or issues. This is all part of our customer orientated trading.

## Specialist Trade Partner

Partnership is the key to success. We have worked faithfully together with specialist traders for years and are a reliable industrial partner for our customers.



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### Quality – A Pre-Requisite for Enthusiastic Customers

BOS has an integrated quality management system at its disposal according to DIN EN ISO 9001:2008 (Quality), ISO 14001:2009 (Environment), ISO 50001 (Energy) and BS OHSAS

18001:2007 (Industrial Safety). The processes are accurately described in the QM handbook. Continuous internal audits as well as regular external audits ensure the continuance of

the BOS level of quality. The inclusion of the employees for improving the processes and working procedures is an inherent part of the company philosophy.



#### Quality Management System DIN EN ISO 9001:2008

Our quality management system is process orientated. All processes which have an input and an output are designated as main processes. These processes are supported by management processes, resource-management and measurements, analysis and improvements.

The result is a qualitative high grade product.



#### Energy Management System DIN EN ISO 50001

The introduction of energy management according to DIN EN ISO 50001 means that unused energy efficiency potential can be accessed, leading to reduced energy costs and decreased greenhouse gas emissions (e.g. CO<sub>2</sub> emissions) as well as reducing other environmental impacts arising from energy consumption.



#### Industrial Safety Management System BS OHSAS 18001:2007

Through this system the health and personal protection of our employees is warranted.



#### Environmental Management System DIN EN ISO 14001

We use recyclable materials and are continually lowering our energy consumption to protect the environment.



#### Eco-Profit

Eco-Profit is a project within Agenda 21 for the economic empowerment of businesses. Environmental protection and improvement of the environmental situation in this region of Germany are hereby of particular importance.



#### EMAS: The EC Eco-Audit Regulations

The EC Eco-audit regulations represent a new type of political instrument which strengthens the responsibility of the company for its actions and environmental impact. The registration of BOS in the EMAS register underlies a validated environmental statement. We have pledged to continually improve our environmental performance and to publish the results.

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## Quality – A Pre-Requisite for Enthusiastic Customers

1



### Certified and Monitored Construction Products

The fire protection frames, for example for T30 doors, underlie a systematic external monitoring by the MPA NRW / BAM Berlin and IFT Rosenheim.

The technical demands and specifications are tested according to the fire protection certification of our customers.



Award for the Eco-Profit Company of the District of Steinfurt 2013 – Peter Knitsch, State Secretary for the NRW Ministry of Environment and District Director Dr. Martin Sommer presented the certificate.



### Stainless Steel Trademark Association

This association provides impartial information concerning the characteristics and areas of application for stainless steel.

Thus the trademark “stainless steel” is used as a sign of quality in supporting public relations by the trademark owner. BOS is bound as a member to statutory use.



### Environmentally Friendly Disposal

Our transport packaging can be registered at our partner Zentek for free collection, thus becoming part of an environmentally sound recovery. In this way we offer you an optimal service for the return of our packaging and furthermore, via the recycling, a valuable contribution to the reduction of CO<sub>2</sub> emissions. We also comply hereby with the packaging regulations.

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BOS Best Of Steel has been producing steel frames since 1967 in countless varieties for the most diverse types of requirements in buildings, from "A" for administration right through to "Z" for zoos. Our frames can be found everywhere, from cellars to penthouses, suitable for the respective area of use.

We are continually optimising the steel frame. Our aim is to be able to join any door with any wall perfectly, taking the specific door technology into account. This means customized co-ordination of design, function and efficiency.

Our consultants know the specific demands of the construction industry and are therefore able to plan on a par with you. Over the years we have gathered expert knowledge in many special areas of use in addition to those of administration and residential buildings.

Here are a few examples:

- **Barrier-free building**  
with extra wide designs and many other specific requirements
- **Clinics and hospitals**  
with special demands for hygiene and many other specific requirements
- **Schools and universities**  
with demands for heavy use and many other specific requirements
- **Kindergartens**  
with anti-trap protection for little fingers and many other specific requirements
- **Renovation**  
with irregular wall thicknesses and many other specific requirements
- **Hotels**  
with the wish for a feeling of spaciousness and many other specific requirements

We can offer ideas for solutions relating to all these areas - in internet, on paper or verbally. Due to our long-standing operation as specialists, we also have a wide range of further experience in many different fields. We are acquainted with the particular demands in areas such as banks, department stores, elevators, laboratories, multistorey buildings, prisons, sports halls, swimming pools etc.

We have many solutions on hand or we are happy to work out individual specific solutions with you together. We look forward to hearing from you.

### Sustainable building

BOS Best Of Steel combines frame design with sustainable building. BOS steel frames in various designs can be found in the product databank of [greenbuildingproducts.eu](http://greenbuildingproducts.eu), which have been evaluated according to LEED and DGNB criteria.



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## GGT German Society for Gerontechnology

Max-Planck-Straße 5, D-58638 Iserlohn

[www.gerontotechnik.de](http://www.gerontotechnik.de)

The show homes feature numerous solutions for barrier-free building with different frames for sliding and active leaf doors as well as bi-fold doors (automatic operator, integrated electronic modules, sealed closing, slanting soffit frame etc.). Visitors can receive advice about the special products free of charge in the exhibition centre.



## Fraunhofer-inHaus-Center

Forsthausweg 1, D-47057 Duisburg

[www.inhaus.fraunhofer.de](http://www.inhaus.fraunhofer.de)

The exhibition shows individual solutions for the fields healthcare, hospitals and hotels. E.g. CasePlus Design and CasePlus LED for the integration of electronic components, the Sino frame without an architrave, an ArtDeco shadow groove frame as well as integrated door closers and cable loops.



## Fraunhofer IAO

Nobelstraße 12, D-70569 Stuttgart

[www.iao.fraunhofer.de](http://www.iao.fraunhofer.de), [www.futurehotel.de](http://www.futurehotel.de)

The research project "Future Hotel" is a trend setting hotel room, which is used as a test field and demonstration platform for the hotel of the future. CasePlus Design with LED panel for integrating electronic components such as RGB technology, RFID readers, electric openers etc. is on show.



## Hotel-Kompetenz-Zentrum GmbH

Sonnenstraße 19, D-85764 Oberschleißheim

[www.hotelkompetenzzentrum.de](http://www.hotelkompetenzzentrum.de)

With a completely furnished, fully functional hotel floor, the HKZ offers a basis for decisions in the form of a solution platform for investors, operators and hoteliers. In eleven 3 star to 5 star luxury suite showrooms, the following products among others have been installed: CasePlus Design and Sino frames without architraves



## Barrierefrei Leben e.V.

Richardstraße 45, D-22081 Hamburg

[www.barrierefrei-leben.de](http://www.barrierefrei-leben.de)

The exhibition shows various solutions for barrier-free building. The sliding door frame LineaCompact-E with automatic operator as well as the special frame for Brandt bi-fold doors can be seen.



## HotelDesign Werkstatt GmbH

Gusswerk Objekt 6c, Söllheimerstraße 16

A-5020 Salzburg

[www.hoteldesignwerkstatt.at](http://www.hoteldesignwerkstatt.at)

The hotel for trying things out as a product showcase with 80 companies. A meeting place for architects, hoteliers and restaurateurs. Innovative solutions are on display, the Sino frame without an architrave, CasePlus Design for integrating electronic components, a block frame with integrated LED lighting in the headpiece as well as the soffit frame Planar.

If you would like to see the exhibition "live", please make an appointment with our Architect Consulting Service at [architekten@BestOfSteel.de](mailto:architekten@BestOfSteel.de) or by telephone, +49 (0) 2572 203-204.

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#### DOMOFERM OPENS UP SPACE – PROTECTS LIVES

BBE DOMOFERM is the expert for fire protection, with competent counselling, innovative products and skilled employees offering high quality building elements in the field of doors and glazing systems. Particular requirements for fire, burglar, sound and heat protection are met. BBE DOMOFERM follows new paths relating to design, function and efficiency.

The wide range of application areas of the products, combined with the appealing designs give you the chance to conquer new market segments.

#### STEEL DOORS

The 40mm thick **UNIVERSAL** is universally usable, from cellar rooms to executive floors. It fits perfectly into the atmosphere and sets individual accents at the same time. **PRISMA** surface, various light openings, fire protection.



Many trends come and go, **TREND** remains. Flush closing elegance in perfect form, which can also be used in private housing.



**PRESTIGE** is not only at home in shopping centres. **PRESTIGE** fire protection elements with a door leaf thickness of 64mm offer countless fitting options and through the installation of complex monitoring systems meet the increased requirements in public buildings.



The impressive bridge between tradition and avant garde is called **PREMIUM**. The amalgamation of design and function.



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### LIMITLESS TRANSPARENCY WITH BBE DOMOFERM GLAZING SYSTEMS

1

Glazing elements decisively define the character of a building.

With light transparency they create new perspectives in interior rooms - they provide a pleasant atmosphere and allow visual contact with the surroundings.

Interior rooms are put into the best light with BBE DOMOFERM: light and friendly, functional and innovative.

Combine function and design to your liking!

#### GLAZING SYSTEMS



##### GlasTec® - The module system

GlasTec® glazing frames are especially manufactured according to the needs of our customers. The frame types are matched to the structural conditions in size, material and profiling.



##### SoundTec® - Sound protection glazing

BBE DOMOFERM sound protection glazing is specifically for interiors. It sets standards in sound protection and convinces through design diversity.



##### ProTec® - Safety glazing

From impact-resistant glazing through to bullet-resistant elements, ProTec meets many requirements. These glazing elements offer safety with a sense of proportion.



##### RadioTec® - Radiation protection glazing

Radiation protection glazing offers reliable protection in special areas. Whether in radiology centres, hospitals or research - with RadioTec® elements you are always on the safe side.



##### FlamTec® - Fire protection glazing

Fire protection glazing offers safety, when every minute counts in the rescue of people. Through a wide range of different designs FlamTec® is also a hot tip for use in normal operation.



## I. Terms and Conditions for Supply

### § 1 General

1. Our Terms and Conditions of Supply apply exclusively. General Terms and Conditions which conflict with or diverge from or supplement our Terms and Conditions of Supply are not recognized by us even if these are known and not opposed and/or the delivery is carried out without reservation.

2. These Terms and Conditions of Supply apply to all present and future business relations. Previous contrary conditions hereby lose their validity.

3. For the purposes of these Terms and Conditions of Supply a consumer is any natural person who concludes a legal transaction the purpose of which cannot be ascribed to his commercial or selfemployed activities (§ 13 BGB German Civil Code).

For the purposes of these Terms and Conditions of Supply a business owner is a natural or juristic person or a legal partnership who carries out his commercial or self-employed activity when he concludes a legal transaction (§ 14 BGB German Civil Code).

Where the term "Purchaser" is used in the following Terms and Conditions of Supply this refers to both consumers and business owners.

### § 2 Quotation and conclusion of contract

1. Our quotations are without engagement. We reserve the right to make technical changes and reasonable changes of form, colour and/or weight.
2. By placing an order the Purchaser makes a binding declaration that he intends to buy the item ordered.

The quotation is only considered as accepted through issue of a confirmation of order or through supply of the goods. Subsidiary agreements and assurances shall be in the written form.

3. BOS reserves all rights to title and copyright of cost estimates, drawings and similar documents. This also applies to all documents that are designated as "confidential". Such documents must not be revealed to third parties without our prior express permission.

### § 3 Prices and terms of payment

1. Prices are "ex works" prices excluding packing, to which the statutory value added tax must be added. This tax is shown separately on the invoice at the statutory value prevailing on the day of issue of the invoice.

If the Purchaser requests delivery of the goods the transport costs are charged additionally.

2. Expenses incurred as a result of changes requested by the Purchaser to the type or quantity of the goods supplied subsequent to the issue of our confirmation of order and/or which arise through fulfilment of subsequent or unforeseeable official requirements and demands are similarly invoiced as a separate addition to the quoted purchase price.
3. Installation costs are invoiced separately.
4. Prompt payment discounts must be covered by a separate written agreement.
5. In the absence of a special agreement the purchase price is due and payable within 30 days of the date of invoice. Otherwise the statutory rules of Germany for default or delay in payment apply.
6. The Purchaser is only entitled to offset debits against credits if his counterclaims have legal force, are undisputed or recognized by us.
7. The Purchaser is only entitled to right of retention in so far as his counterclaim is based on the same contractual relationship.

### § 4 Passing of risk

1. Delivery is "ex works".
2. The risk of accidental loss and accidental deterioration of the purchased goods passes to the Purchaser on delivery of the goods. In case of sale to destination according to Purchaser's instructions, if the Purchaser is a business owner, the risk passes to the Purchaser when the purchased goods are delivered to the transport person.

3. The risk of accidental loss and accidental deterioration of the purchased goods only passes to the Purchaser on delivery of the goods including the case of sale to destination according to Purchaser's instructions when the Purchaser is the consumer.

4. If the Purchaser is in default of acceptance, risk of accidental loss and accidental deterioration of the purchased goods passes to the Purchaser from the day of readiness for shipment onwards. Any storage costs are on Purchaser's account.

5. The above items 1 – 4 also apply to part deliveries.

### § 5 Delivery times

1. Quoted delivery dates and delivery periods apply only approximately unless a delivery time is expressly promised by BOS in written form.

2. The period of delivery only begins after all technical questions have been mutually clarified with the Purchaser.

3. The period of delivery shall be extended appropriately in the event of unforeseen hindrances for which BOS is not responsible such as force majeure, strikes or operating breakdowns. The Purchaser must be promptly informed of the reason for and the expected duration of the delay.

If it is expected that the hindrance cannot be overcome within a reasonable period of time both the Purchaser and BOS can withdraw from the contract completely or in part.

### § 6 Retention of title

1. BOS reserves all rights to title of the purchased goods until the full amount of the purchase price has been paid. If the Purchaser is in violation of the contract, in particular by default in payment, BOS is entitled after setting a reasonable time-limit to withdraw from the contract and demand return of the purchased goods. BOS is entitled to utilize the purchased goods following their return. The proceeds from the utilization less reasonable utilization costs shall be set off against the debts of the Purchaser. If the supplier's right to withdraw cannot be put into practice, the supplier is entitled to a claim for damages for the cases provided for in law.

2. The purchaser is entitled to process and sell the delivered goods as an orderly course of business, he assigns at this point, however, all claims for the amounts of the final invoice sums of our claim, that arise from reselling to buyers or third parties, independent of whether the delivered goods (purchase item) are resold with or without further processing. The purchaser is entitled to collect such claims even after the assignment. Our authorization to collect such claims ourselves remains untouched. We commit ourselves, however, not to take any collective measures as long as the purchaser pays his liabilities arising from the agreed proceeds.

3. The processing or modification of the delivered goods (purchase item) via the purchaser is always to take place in our interest. Should the purchase item be processed with other articles not belonging to us, then we acquire the joint ownership of the new item in proportion to the value of the purchase item in relation to the other processed articles at the time of processing. The conditions remain the same for the items resulting from the processing as for those of the purchase item delivered under retention.

### § 7 Warranty claims

1. A Purchaser who is a business owner is only entitled to make warranty claims if he carries out his obligations to examine ex officio and gives notice of defects properly in accordance with §377 HGB (German Commercial Code).
2. If the Purchaser is a business owner, BOS is entitled to choose between having the faults remedied or receiving replacements as fulfilment of the warranty obligations.

If the Purchaser is a consumer, the Purchaser is entitled to choose between having the faults remedied or receiving replacements as fulfilment of the warranty obligations. BOS is however entitled to refuse the kind of warranty fulfilment chosen if this is only possible at disproportionate expense and the other kind of warranty fulfilment does not involve substantial disadvantages for the Purchaser.

3. If the Purchaser is a business owner, the product description of the manufacturer is deemed to have been agreed as the state of the purchased goods. Public announcements, sales and advertising statements of the manufacturer do not constitute a contractual specification of the state of the purchased goods.

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4. If the Purchaser makes a claim for damages based on intention or gross negligence or on the intention or gross negligence of his agent or person employed in fulfilling an obligation, BOS is liable in accordance with statutory provisions. If BOS is not accused of intended or grossly negligent breach of duty, liability for damages is limited to losses which occur typically. This does not apply to liability for culpable violation of life, body or health nor for compulsory liability under the German Product Liability Law.
5. If the Purchaser is a business owner and provided that he carries out his obligations to give notice of defects properly in accordance with item 1, the statutory period of limitation for warranty claims of the Purchaser which are not governed by the time-limit of § 438 Paragraph 1 No. 2 BGB (German Civil Code) is 1 year from delivery of the goods. If the Purchaser is a consumer, the statutory period of limitation for warranty claims of the Purchaser which are not governed by the time-limit of § 438 Paragraph 1 No. 2 BGB (German Civil Code) is 2 years from delivery of the goods.
6. BOS does not provide the Purchaser with a guarantee in the legal sense. Manufacturers' guarantees are unaffected by this.

## § 8 Limitation of liability

1. In the case of other claims for damages involving ordinary negligent breach of duty, BOS is only liable for losses that occur typically with the type of purchased goods. This applies equally in the case of ordinary negligent breach of duty by the legal agent of BOS or by a person employed by BOS to fulfil an obligation.  
  
The liability of BOS in case of ordinary negligent breach of nonessential contract obligations is precluded when the Purchaser is a business owner.
2. Liability for culpable violation of life, body or health and compulsory liability under the German Product Liability Law are unaffected by the above provisions.

## § 9 Final provisions

1. This contract is governed by the Law of the Federal Republic of Germany. The provisions of the UN Purchase Law do not apply.
2. Place of fulfilment for deliveries is the plant.
3. Place of fulfilment for payments is the place of business of the vendor.
4. When the Purchaser is a businessman, the place of jurisdiction for all disputes arising from this contract is exclusively the place of business of BOS. The same applies when the Purchaser is a consumer and does not have a general place of jurisdiction in Germany or if his whereabouts are not known at the time of commencement of an action.
5. If individual provisions of this contract including these Terms and Conditions of Supply are or become partly or completely inoperative, the remaining provisions remain unaffected. The partly or completely inoperative regulation shall be replaced by a regulation whose economic effect is as close as possible to that of the inoperative regulation.

## II. Installation Conditions

If BOS performs installation or similar services either separately or in addition to supplying the purchased goods, the following Installation Conditions apply:

### § 1 Preconditions

1. If parts of the delivery are clearly damaged or if the delivery is incomplete the Purchaser must inform BOS at the latest one day after delivery so that remedial action can be taken as far as possible before the installation team arrives. If the Purchaser culpably fails to inform BOS (including ordinary negligence), any additional installation costs thus caused will be separately charged.
2. The delivered parts must be stored in a dry place and protected from the influence of weather and from damage by third parties.
3. One or more specialist installers are provided by BOS to suit the scope of supply.  
  
Following consultation with BOS, the Purchaser must make sufficient unskilled workers available without mutual invoicing.
4. The following items are not part of our obligations to be performed: the setting up and dismantling of scaffolding; pit,

mortice, brick and flooring work as well as electric installation. Furthermore, the unloading of freight cars or lorries, the transport of all parts to where they are to be installed and all glazing work which is not covered in the scope of delivery.

5. Tools normally used in the trade are provided by BOS. In addition to these, the Purchaser must have ready the following materials for the installation: assistants and auxiliary material as well as lifting tools etc. and if necessary lighting. All preparations for the installation must be finished before the fitters arrive, so that the aforesaid can begin work immediately on arrival on site. Any delay not resulting from the supplier will be charged separately. The Purchaser is obliged to provide one or more metre marks per floor. The given metre marks must remain present until the final inspection.
6. To ensure proper installation, the following requirements must be fulfilled by the Purchaser on site: electric and water supply as well as free access and a clear working area.
7. The Purchaser must ensure that the installation work can be carried out at the agreed time. In particular the Purchaser must ensure that all necessary preparatory work such as masonry work, plastering, caulking and floor preparation have been completed. The floor must be passable and sufficiently capable of bearing loads.

The Purchaser must inform BOS in writing at latest 5 days before the agreed date whether the installation work can be performed on the agreed date.

8. The Purchaser must inform the installation team about safety regulations including in particular those covering welding work, no smoking zones, protective clothing etc...

If the Purchaser culpably fails to carry out these obligations (including ordinary negligence) and if this results in loss or damage, the Purchaser shall release BOS from his liability for damages.

9. The Purchaser must provide electric power for tools and if necessary for lighting on site. If a lockable room is required for the installers where tools and small parts can be stored, the Purchaser must be informed in advance about this and must provide this on site.
10. If the equipment to be installed is provided with an electric drive, the electrical installation and the connection and adjustment of the equipment is to be performed on site.
11. Following installation, the Purchaser must observe the following points/take the following precautions: at the earliest, the installed doors, frames and windows can be cleared for use 2 days after the anchor holes have been closed with mortar.

### § 2 Hourly rate work

1. If the installation work is not carried out for a lump sum but on a time basis, the price for the installation work is to be calculated using the hourly rate plus any travel costs, freight costs, cost for keeping equipment available etc. The current standard price list of BOS for installation work applies.
2. Invoicing and payment following receipt of invoice is to be in accordance with item 3 of the Supply Conditions. Installation bills are due without cash discount.

### § 3 Acceptance

1. On completion of the installation work, the Purchaser is entitled and obliged to check this and provide a written acceptance report.
2. The acceptance is granted equality of status if the Purchaser does not perform the acceptance test within a reasonable time period granted by BOS although he is obligated to do this.
3. As from acceptance, warranty claims concerning known defects based on § 634 No. 1 – No. 3 BGB (German Civil Code) cannot be brought against BOS if the Purchaser has not reserved his rights on account of this defect at the acceptance procedure.

### § 4 Limitation of actions

Warranty claims of the Purchaser arising from the installation work become statute-barred after one year following acceptance. The statutory period of limitation of § 634 Paragraph 1 No. 2 BGB (German Civil Code) remains unaffected.

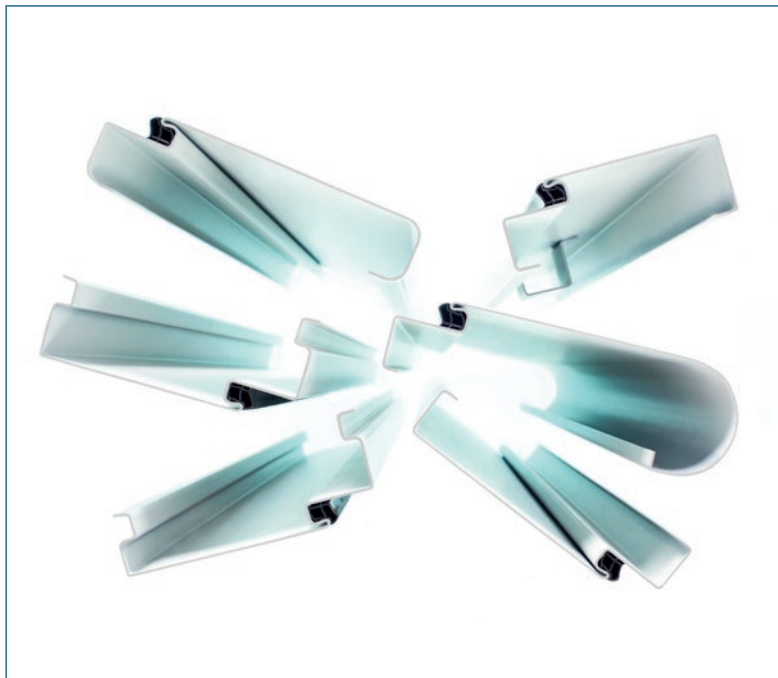


This chapter explains the basic technical terms applying to steel frames.

This includes a measurement table, an explanation of the German measurement abbreviations and detailed drawings.

All measurements given are in mm.

So that we can all speak the "same" language.



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Today the steel frame with its vast number of application uses and designs is a recognized product in the building branch and is characterized through its stability, robustness and durability.

In the early twenties of the last century August Schanz wanted to replace the common wooden frame with its many disadvantages with a more robust and cost-effective building element. He found the solution in the use of steel sheeting. The main challenge was how to reshape the steel sheet so that it could be used as a door frame. August Schanz founded a building and art metalwork in 1886 and originally manufactured entry gates, fences and grave borders out of steel. For the housing estates constructed under Frankfurt's town planner Ernst May, the company Schanz provided around 1920 the first standardized window and door frames in steel and is thus deemed the inventor of steel frames. The company location moved from Frankfurt-Sachsenhausen to Mühlheim (Main) in 1937, where the production of steel frames was concentrated upon. At this point Schanz employed approx. 350 workers. After the Second World War the production was continued at the old Schanz locksmiths' in Sachsenhausen under the company name Schanz Metal Construction. This company was also moved to Mühlheim in the sixties. During the reconstruction phase in Germany, the cost-effective steel frame increasingly asserted itself through its robustness, especially in administration buildings, offices and social accommodation. At the end of the twenties the steel frame was only folded. In 1963 the "Olympiaband" was introduced, this elastic band served as sound protection when closing the door. During the sixties, the Buffer frame then became available on the market, which was produced without a seal housing groove. The customer now had the choice between

the cost-effective buffer version or a higher quality frame with sound protection or seal band, depending on the requirements.

Up to the beginning of the seventies, the steel frame was produced exclusively from black sheet, this was gradually replaced by galvanized steel sheet. At this time the first frames in stainless steel were produced and installed. By the middle of the seventies, the first steel frame designs that were usable left/right and those for flush doors emerged.

During the eighties about 20 companies produced steel frames in Germany. The market leader was the company Ohmen Metalworks which was founded in 1967 by Bernhard Ohmen in Emsdetten. In 1999 the renaming to BOS GmbH followed.

The first steel frames were produced and developed there for the up and coming dry wall installation (plasterboard walls). The change in construction form for interior walls required a totally new product design and processing. It was the beginning of, amongst others, the two part split steel frame, which could be painted and then installed in a finished wall opening. As market leader BOS played a very important role in the development and marketing of this type of frame. Because

of the high variability in the processing of steel sheeting, it was possible right from the beginning to produce a wide range of profile forms such as blind rebate, shadow groove and round architrave frames as well as non-standard elements such as top-light/side part frames and sliding door frames.

Due to the fact that in each case a door and the necessary fittings had to fit for the many design possibilities, a standardization of the steel frames was absolutely essential.

The steel frame standardization began with a manufacturing standard from the company STAHL-SCHANZ, compiled by their development manager Karl Stumpp. He then established the first DIN standards at the beginning of the sixties. This DIN standard was revised in 1974 and 1985 and remained valid until 2004. In August 2004, the DIN 18111, Part 1-4 was released. The increased demands of customers on the steel frame were taken into account in this version. The so far considered as non-standard frames for dry wall installation, for flush doors and the installation of steel frames were also integrated into the standards. BOS GmbH was and still is a member of the DIN Commission.

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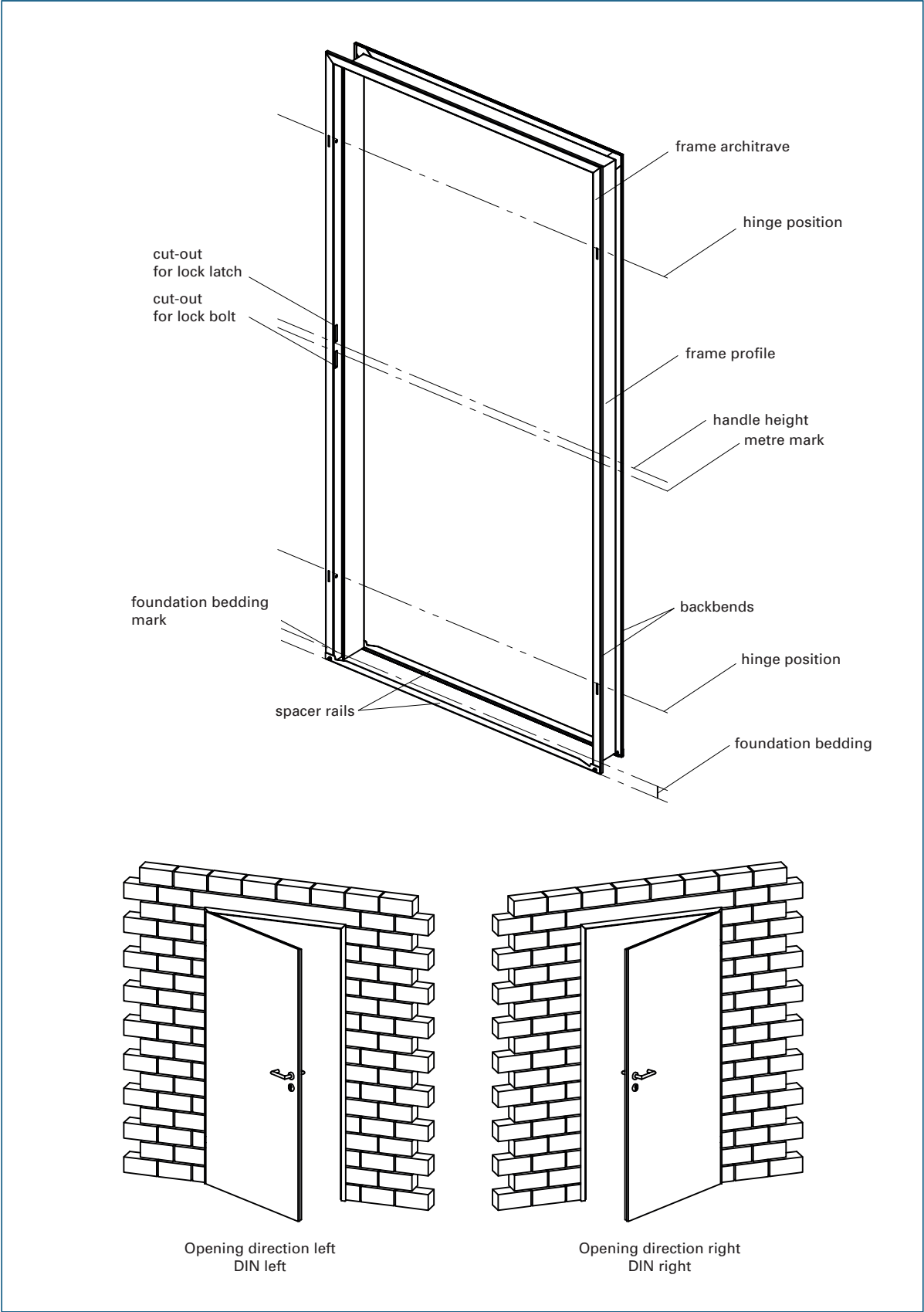
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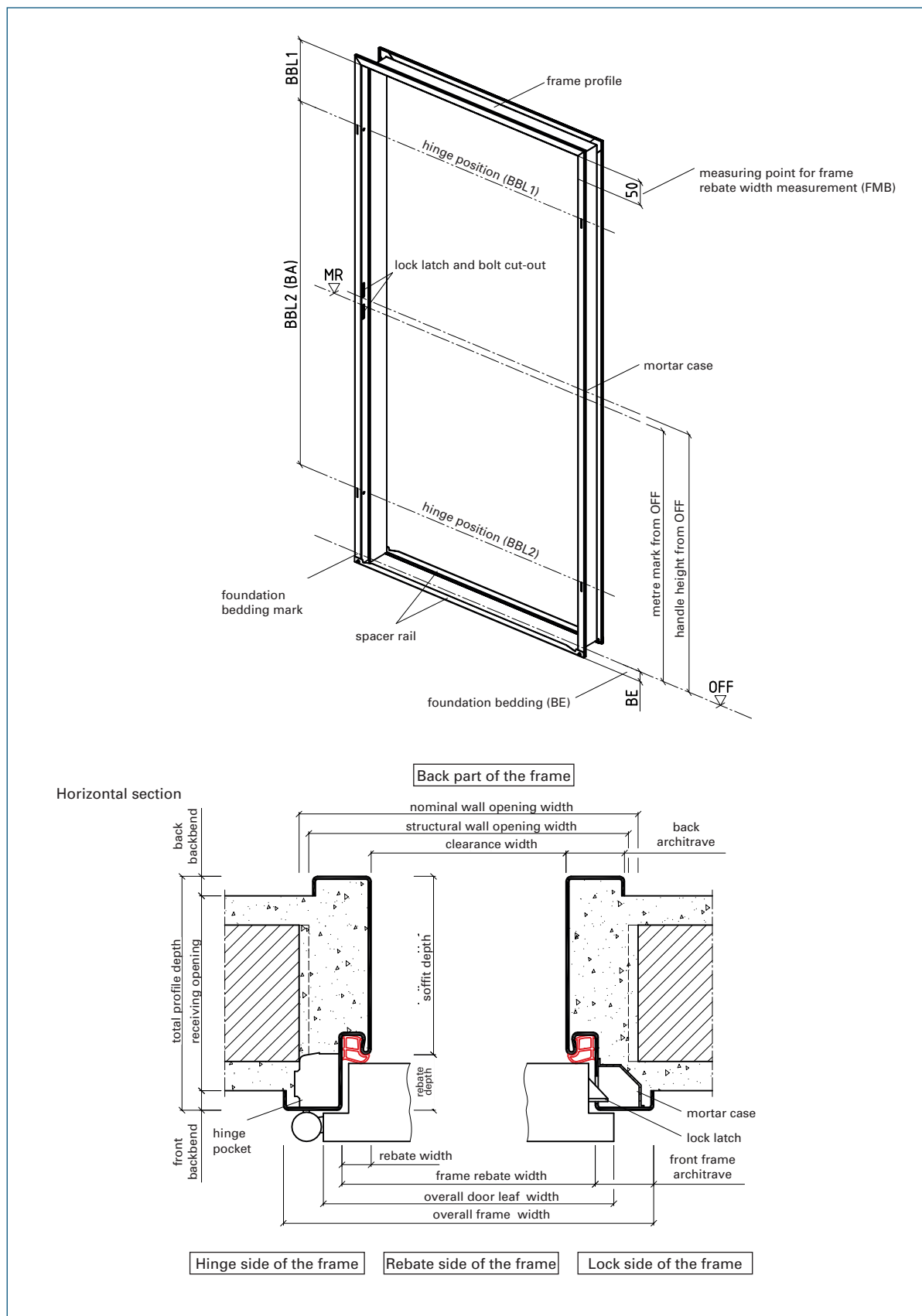


Designation code

Product description

- Detailed terms for steel frames / opening directions

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Designation code

Product description

- Details of a steel frame
- The context of the structural wall measurement up to the door leaf measurement
- Rebated design

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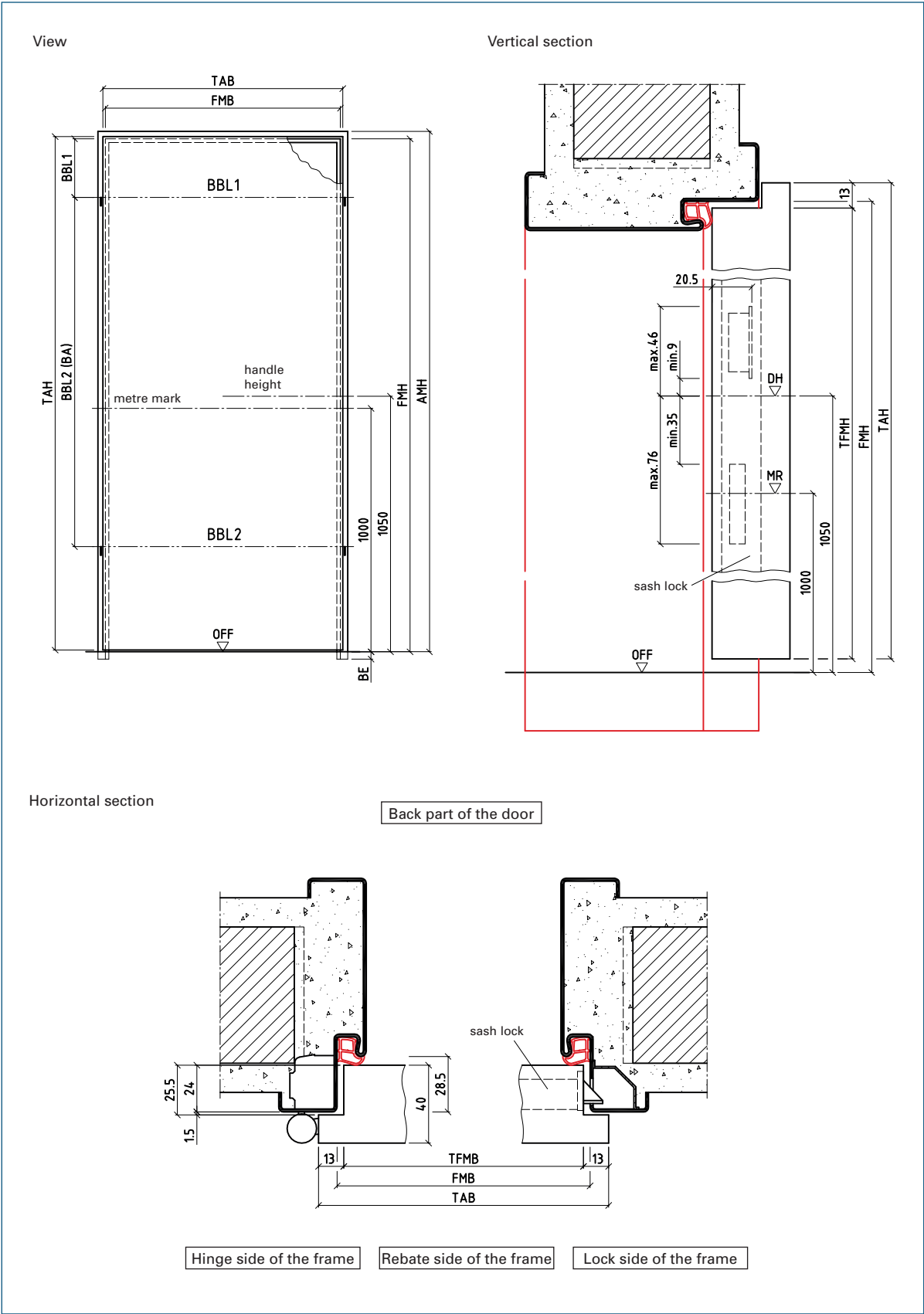
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# The Basics for Steel Frames

## Outline of a Door Leaf



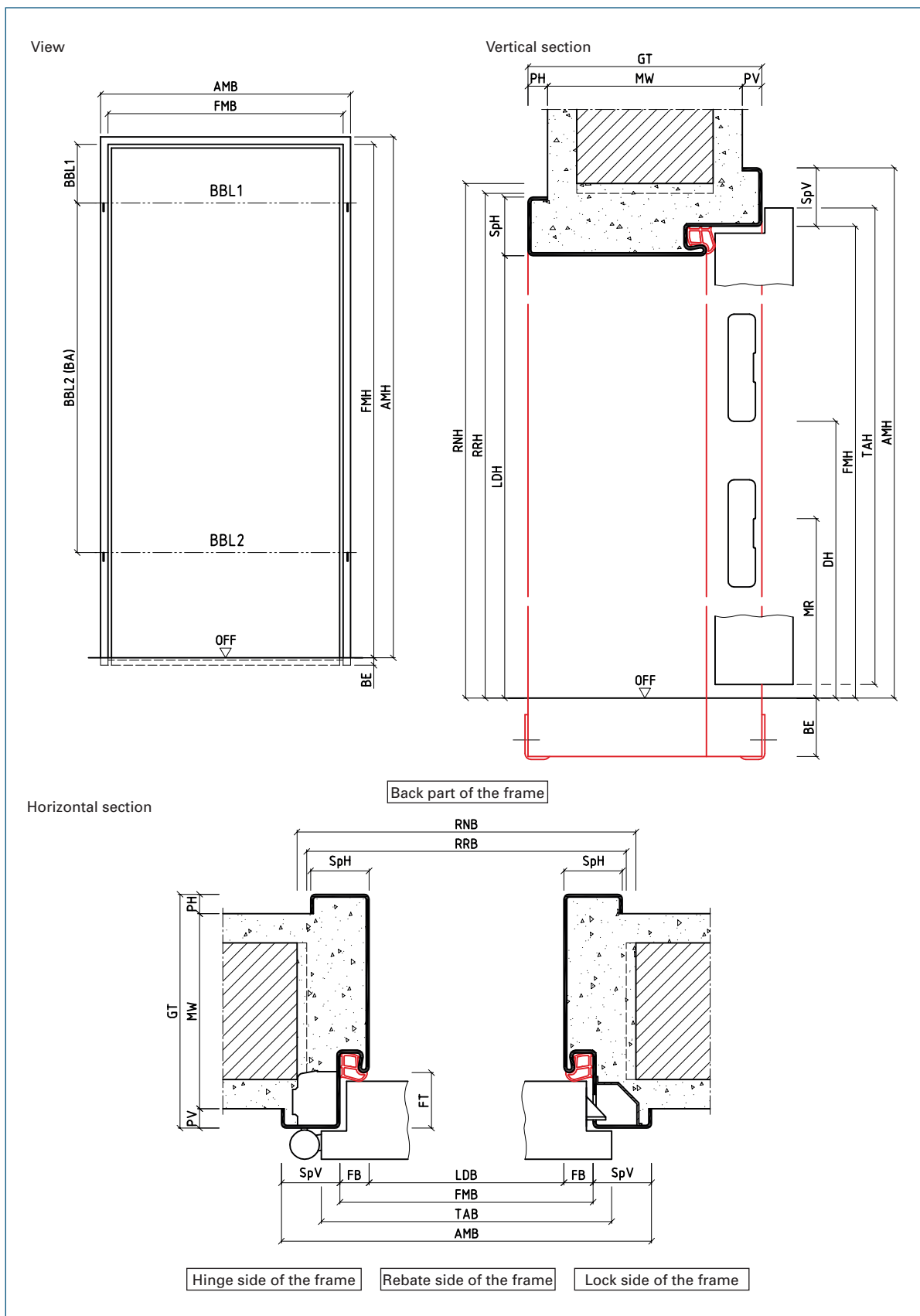
Designation code

Product description

- The context of the rebate measurement up to the door leaf measurement
- Rebated design

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Designation code

Product description

- Illustration of the German measurement abbreviations
- Rebated design

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# The Basics for Steel Frames

## German Measurement Abbreviations

27

2

AMB	=	Overall width
AMH	=	Overall height
BA	=	Distance between hinges
BBL	=	Hinge position
BE	=	Foundation bedding
DH	=	Handle height
DIN L	=	Opening direction left (left handed)
DIN R	=	Opening direction right (right handed)
FB	=	Rebate width
FMB	=	Rebate width measurement
FMH	=	Rebate height measurement
FT	=	Rebate depth
GT	=	Total profile depth
LDB	=	Clearance width
LDH	=	Clearance height
LK	=	Track case
MR	=	Metre mark
MW	=	Receiving opening
OFF	=	Top level of finished floor
PH	=	Back backbend
PLDB	=	Double acting door clearance width
PLDH	=	Double acting door clearance height
PV	=	Front backbend
RNB	=	Nominal wall opening width
RNH	=	Nominal wall opening height
RRB	=	Structural wall opening width
RRH	=	Structural wall opening height
SLDB	=	Sliding door clearance width
SLDH	=	Sliding door clearance height
SpH	=	Back architrave
SpV	=	Front architrave
TAB	=	Overall door leaf width
TAH	=	Overall door leaf height
TFMB	=	Door leaf rebate width
TFMH	=	Door leaf rebate height

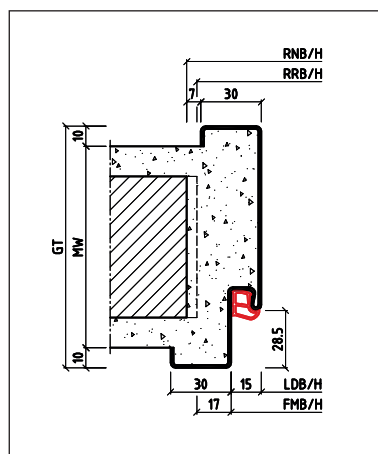
(all measurements  
in mm)

Overall door leaf  
measurements  
Rebated doors  
DIN 18101

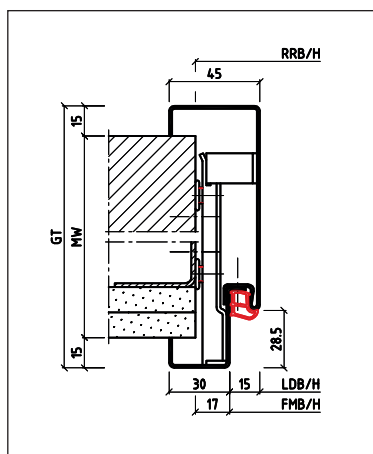
Overall door leaf  
measurements  
Flush doors  
DIN 18101

RRB	RRH	RNB	RNH	FMB	FMH	LDB	LDH	rebated		flush	
625	2000	635	2005	591	1983	561	1968	610	1985	584	1972
750	2000	760	2005	716	1983	686	1968	735	1985	709	1972
875	2000	885	2005	841	1983	811	1968	860	1985	834	1972
1000	2000	1010	2005	966	1983	936	1968	985	1985	959	1972
1125	2000	1135	2005	1091	1983	1061	1968	1110	1985	1084	1972
1250	2000	1260	2005	1216	1983	1186	1968	1235	1985	1209	1972
625	2125	635	2130	591	2108	561	2093	610	2110	584	2097
750	2125	760	2130	716	2108	686	2093	735	2110	709	2097
875	2125	885	2130	841	2108	811	2093	860	2110	834	2097
1000	2125	1010	2130	966	2108	936	2093	985	2110	959	2097
1125	2125	1135	2130	1091	2108	1061	2093	1110	2110	1084	2097
1250	2125	1260	2130	1216	2108	1186	2093	1235	2110	1209	2097
625	2250	635	2255	591	2233	561	2218	610	2235	584	2222
750	2250	760	2255	716	2233	686	2218	735	2235	709	2222
875	2250	885	2255	841	2233	811	2218	860	2235	834	2222
1000	2250	1010	2255	966	2233	936	2218	985	2235	959	2222
1125	2250	1135	2255	1091	2233	1061	2218	1110	2235	1084	2222
1250	2250	1260	2255	1216	2233	1186	2218	1235	2235	1209	2222

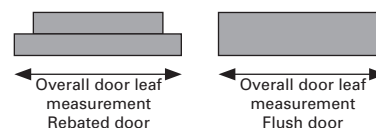
**Standard frame according  
to DIN 18111**



### Duo15Z, 2 part split



The structural wall opening measurement is the ideal measurement for the installation of Duo15Z. In standard openings, standard door leaves can be used with the steel frame.

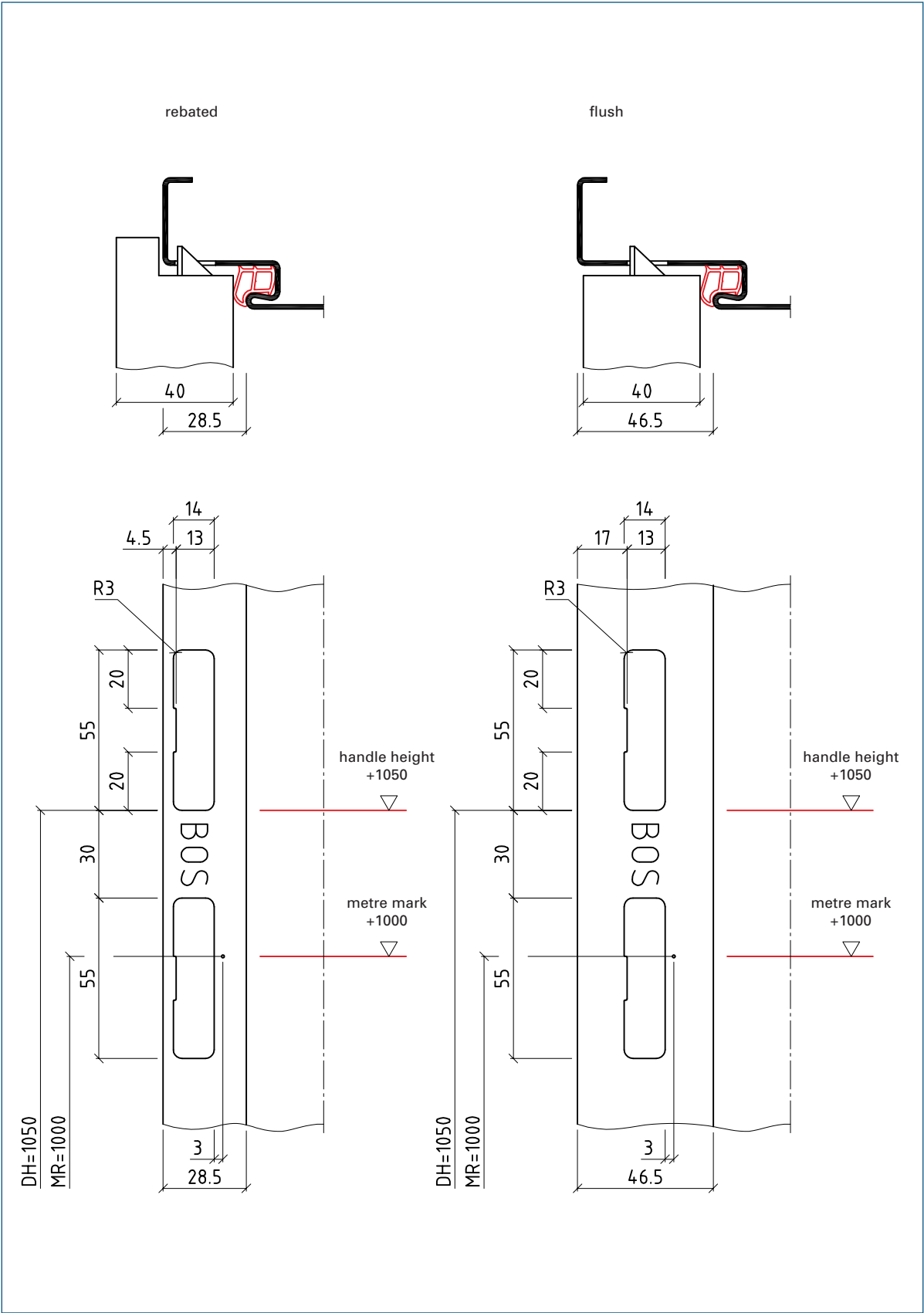


**Key:**

RRB/H:	structural wall opening width/height
RNB/H:	nominal wall opening width/height
FMB/H:	rebate width/height measurement
LDB/H:	clearance width/height
GT:	total profile depth
MW:	receiving opening

# The Basics for Steel Frames

## Bolt and Latch Hole Arrangement



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**Article**

BOS can supply every profile with a variety of different rebate designs. A choice can be made between single or double rebates for rebated or flush doors as well as rebate designs for non-standard doors.

**Your advantages**

- All rebate designs are available as a two part split version

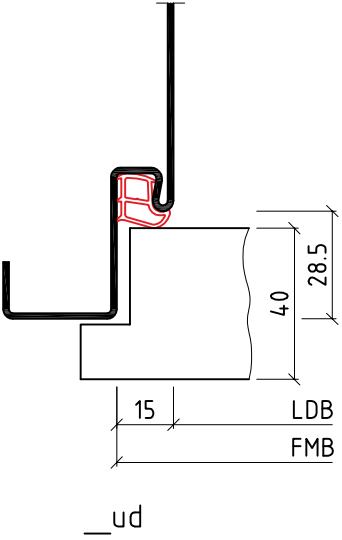
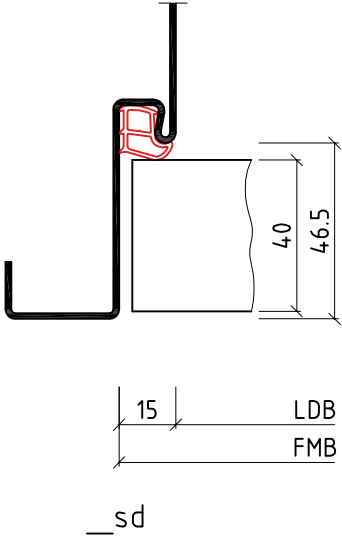
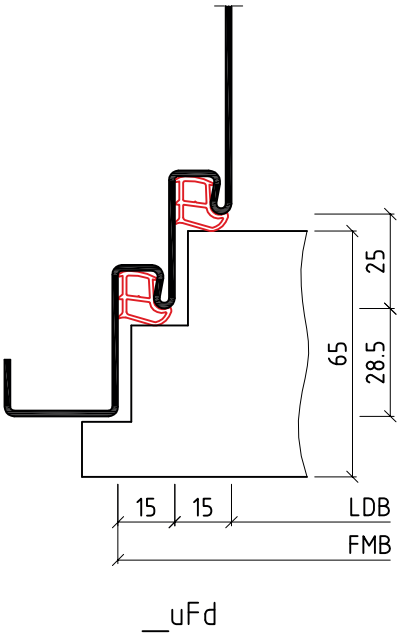
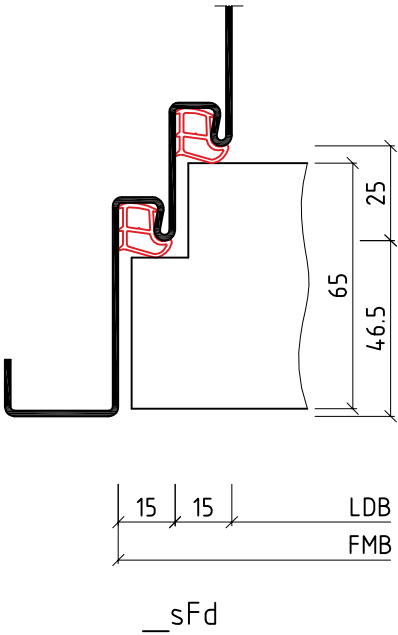
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<p>① 15mm single rebate</p> 	<p>② 15mm single rebate</p> 
<p>③ 15mm double rebate</p> 	<p>④ 15mm double rebate</p> 

Designation code

Product description

<p><b>Examples</b></p>	<ul style="list-style-type: none"><li>- Rebate designs</li><li>- Other measurements and versions possible</li></ul>
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information.

A = Blind rebate profile	a = double back fold in the soffit
B = Block profile	b = door leaf side
C = Shadow groove / V-Form	c = slanting
D = Passage profile	d = seal
E = Corner profile	e = one sided
F = Double rebate	g = opposite door leaf side
G = Counter profile	h = back fold 180°
H = Expansion joint	i = adjustable, without a fold
I = Negative backbend / bent outwards	j = adjustable, folded
J = Venetian blind casing	k = adjustable, folded back
K = Transom bar	m = central
L = Soffit	n = special rebate form
M = Shadow groove / Z-Form	o = without architrave
N = Shadow groove / U-Form	p = buffer
O = Interconnecting door profile	q = elliptical
P = Double acting door profile	r = radius quarter circle
Q = Non-standard profile	s = flush
R = Radius semicircle	u = rebated
T = Planar/sports hall profile	v = offset
U = Wrap around profile	w = 2 part (split)
V = Total profile (in total depth)	x = 3 part
X = Negative shadow groove	z = two sided or both sides
Y = Backbend with a double fold	
Z = 2 part screwed in the rebate	

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### Established terms:

SidW	= sliding door running in the wall – LineaInside
SvdW	= sliding door running in front of the wall – LineaOutside
SidN	= sliding door running in the recess – LineaLevel
SvdW OP	= OP sliding door running in front of the wall – LineaOutside OP
SidN OP	= OP sliding door running in the recess – LineaLevel OP
SvdW-D	= sealed closing sliding door running in front of the wall – LineaOutside-D
ISidW	= sliding door running in the wall – LineaCompact
ISidW-D	= sealed closing sliding door running in the wall – LineaCompact-D
ISidW-S	= sliding door running in the wall with a reinforced entry case profile – LineaCompact-S
ISidW-DS	= sealed closing sliding door running in the wall with reinforced entry case profile - LineaCompact-DS
ISidW-E	= sliding door running in the wall with automatic operator - LineaCompact-E
LineaBox	= sliding door running in the wall without frame - LineaBox
xSidW ECON <sup>®</sup>	= cover frame for existing sliding door case - LineaSplit

### CasePlus Solutions:

15Nz15ZBsFd-CPD	= CasePlus Design
15Nz15ZBsFd-CPL	= CasePlus LED
15Nz15ZBsFd-CPF	= CasePlus Front

## Galvanized Steel Sheeting

Material:	Steel
Material number:	1.0242
Symbol:	S250GD Z – MAC (C=Chrome3)
Surface:	Hot-dip galvanized, film thickness at least 10 µm
Sheet thickness:	1.5 and 2.0mm

### Primer

Aqua Air primer based on bonding agent epoxyalkyd/acrylic emulsion is environmentally friendly and has good adhesion qualities (bonding agent for the first coat and finishing coat) as well as offering corrosion protection.

Film thickness:	Average value: 25 µm incl. zinc layer
Adhesion:	According to ISO 2409, cross-cut parameter min. GT1
Further colour processing:	According to VOB Part C / DIN 18363

### Powder coating

As an option, all frames can receive a powder coated finish in all RAL colours, non-standard colours or with an anti-bacterial powder coating.

A summary of the care instructions can be found here.



### Stainless Steel

All BOS steel frames can be produced in stainless steel/inox 304 and inox 316ti.

#### Material Inox 304 (AISI 304)

Material:	Stainless steel
Material number:	1.4301
Symbol:	X5CrNi18-10 (18/10)
Surfaces:	<ul style="list-style-type: none"> <li>• Polished (grain 240)</li> <li>• 3C-Surface (stained)</li> </ul>
Sheet thickness	1.5 and 2.0 mm

Inox 304 steels are durable in a normal atmosphere and when maintained correctly. Therefore they are used in most cases.

#### Material Inox 316ti (AISI 316Ti)

Material:	Stainless steel
Material number:	1.4571
Symbol:	X6CrNiMoTi17-12-2
Surfaces:	<ul style="list-style-type: none"> <li>• Polished (grain 240)</li> <li>• 3C-Surface (stained)</li> </ul>
Sheet thickness:	1.5 and 2.0 mm

Inox 316ti steels are, up to a certain level and when maintained correctly, also extensively resistant against chloride, sulphur dioxide and briny atmospheres at room temperature.

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### **Professional labelling** for easy handling:

- All **standard frames** are provided with an easy to remove adhesive label which gives clear details regarding the type and size of frame. Information relating to correct installation and painting is also given.
- All **non-standard frames** have an integrated type label on the wall side, with details relevant to the order. They can be complemented with position numbers as an option.
- **Transports by forwarding agents** are given an easy to remove adhesive label which gives the driver and unloading personnel professional information concerning the handling of steel frames.

**Professional storage** of steel frames protects from undesired damage, maintains the corrosion protection and upholds the value of the product. Storage in

sheltered areas or in enclosed rooms is always preferential to outdoor storage. Stock should be depleted by using the oldest stock first. Due to higher mechanical durability, frames should always be stored standing on the headpieces.

### **Professional packaging**

prevents transportation damage. For piece goods, we recommend secure cardboard packaging.

- **Primed steel frames** are packed on pallets and secured with tension bands. To avoid chafe marks, the frames are issued with protection pads on the architrave and mitres. Frames which lie within each other are also protected with padding.
- **Powder coated frames** are packed with particular care so that they arrive in the finished rooms without transportation or weather damage. Not only is special padding required, but also complete plastic packaging.

On request the frames can additionally be supplied with a removable protective film (with surcharge).

- **Stainless steel frames** undergo considerable work in our factory in order to achieve the perfect visual appearance. Therefore they are completely covered with a removable protective film which remains in place until the object is finished in order to ensure the greatest possible protection. Warning: the protective films should not remain on the frames for more than three months.

### **Professional transport**

requires trained and reliable personnel both from the BOS transport fleet and the forwarding agents. Only then is the correct loading, unloading and securing of the products provided. For this reason BOS offers special training and regularly monitors the personnel.

**BOS**  
Best Of Steel

## Steel Frames

**Environment**  
The BOS primer is water based and thus environmentally friendly.

**Painting Information**  
The primer is examined using the cross-cut method according to DIN EN ISO 2409. Mechanical damage or impurities of the primer should be sanded and corrected using zinc undercoating. (VOB, Part C). Recommendation: Painting e.g. with alkyd resin varnish.

**Note:**  
Aggressive solvents (e.g. nitro) or caustic paints can lead to damage of the primer / seal. A test coating should be carried out first!



**Products**  
Standard frames, non-standard frames, stainless steel frames. According to type either one or three parts or two part split, primed or powder coated.

**Installation Instructions**  
Installation according to DIN 18111-4 and the TTZ guidelines. See [www.BestOfSteel.de](http://www.BestOfSteel.de)

BOS GmbH Best Of Steel  
Lütkenfelde 4  
D-48282 Emsdetten

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Internet: [www.BestOfSteel.de](http://www.BestOfSteel.de)

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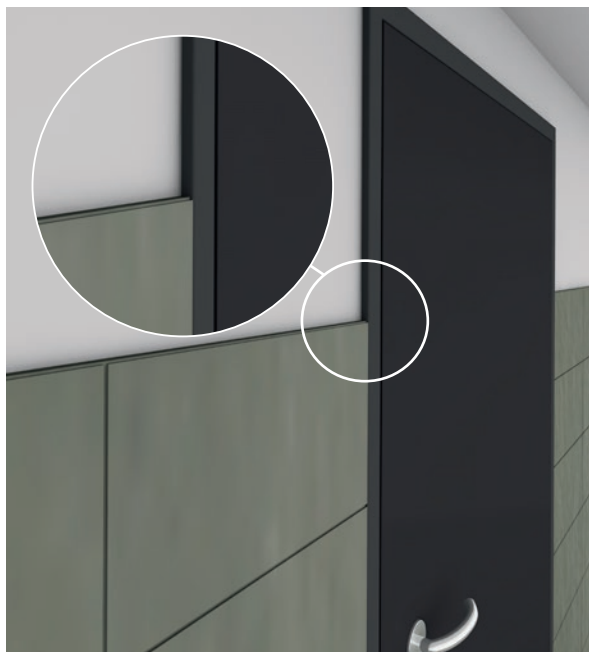
Non-Standard Frames  
Information



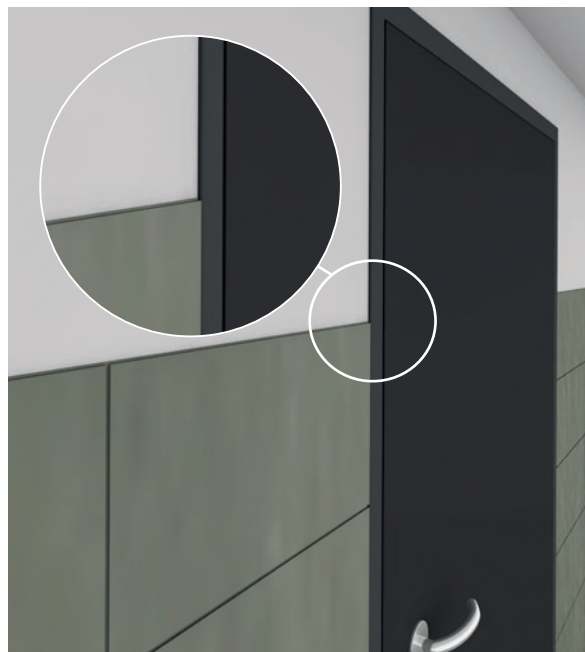
### **Environmentally friendly disposal**

Our transport packaging can be registered at our partner Zentek for free collection, thus becoming part of an environmentally sound recovery. In this way we offer you an optimal service for the return of our packaging and furthermore, via the recycling, a valuable contribution to the reduction of CO<sub>2</sub> emissions. We also comply hereby with the packaging regulations.

In order to achieve an attractive appearance at the transition between frame, wall and floor, it is important to take a closer look at the wall connection around the door frame.



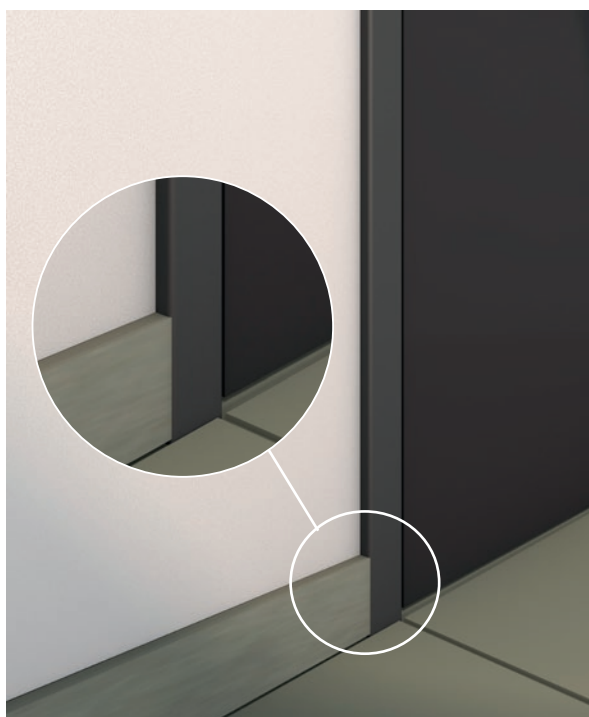
**1. Wrap around frame with backbend**



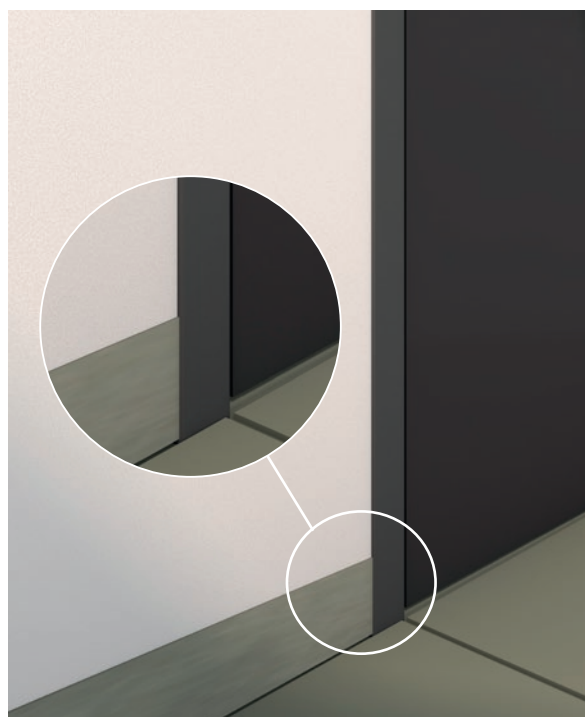
**2. Flush frame**

There is more than one solution for the choice of wall tiles:

1. If the wall tiles are laid on the wall, we can deliver the frames with a wider backbend, so that the tiles end flush with the frame. Please contact us.
2. If flush frames are used, the wall tiles can be set into the wall to achieve a completely flush appearance.



**1. Wrap around frame with backbend**



**2. Flush frame**

There is more than one solution for the choice of skirting boards:

1. If the skirting is placed on the wall, we can deliver the frames with a wider backbend, so that the skirting ends flush with the frame. Please contact us.
2. If flush frames are used, the skirting can be set into the wall to achieve a completely flush appearance.

The room appearance is enhanced and leaves a matching, harmonious impression.

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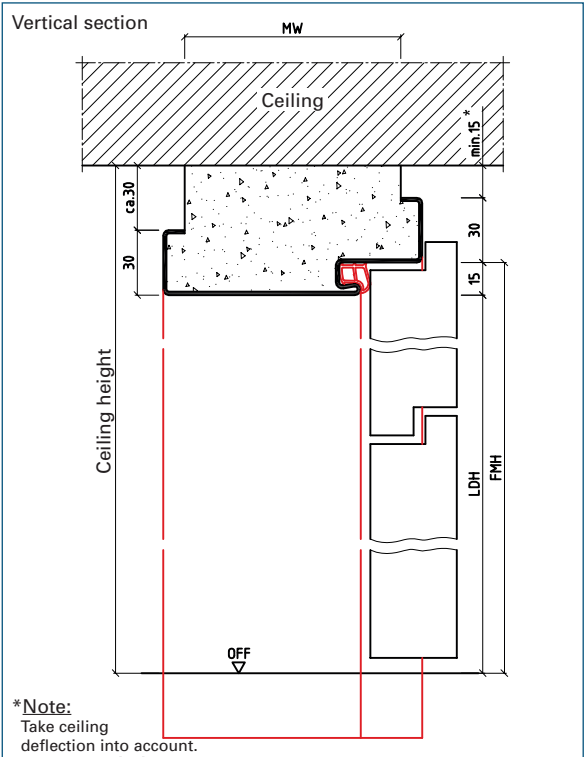
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# The Basics for Steel Frames

## Ceiling connections

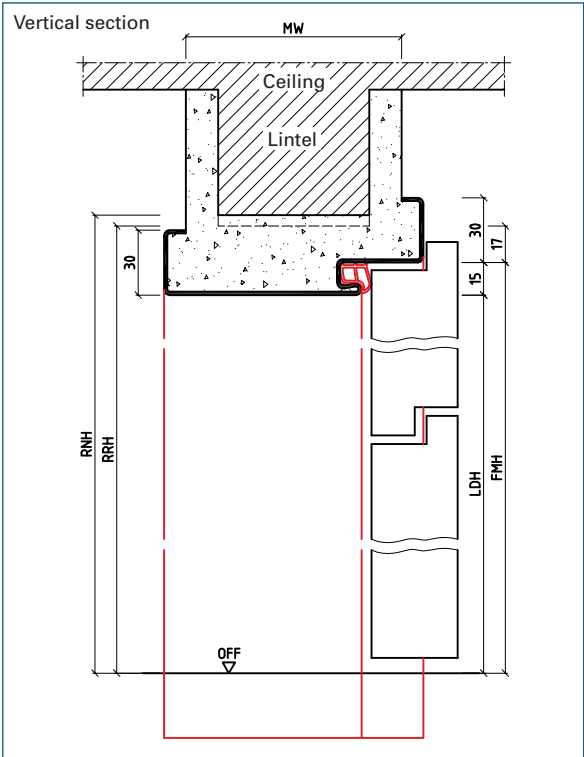


Designation code

**Uud**

Product description

- Ceiling connection, without lintel
- For brick walls
- Wrap around frame (1 part)

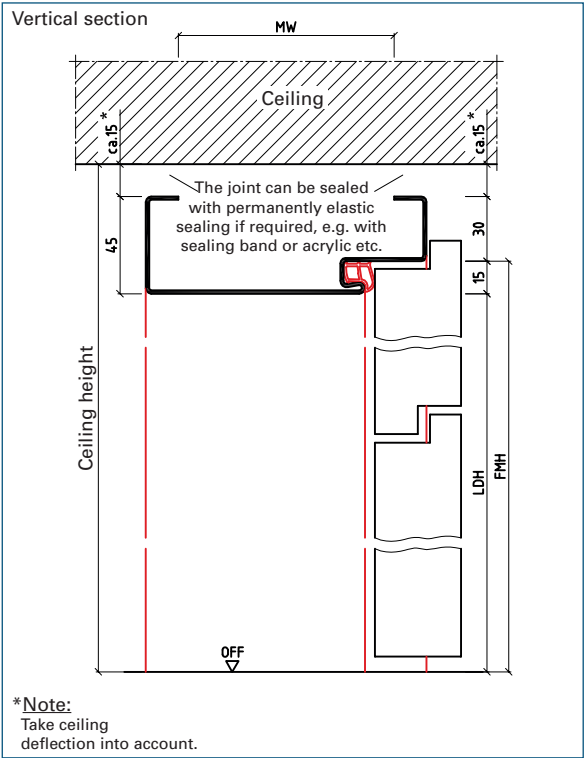


Designation code

**Uud**

Product description

- Ceiling connection, with lintel
- For brick walls
- Wrap around frame (1 part)

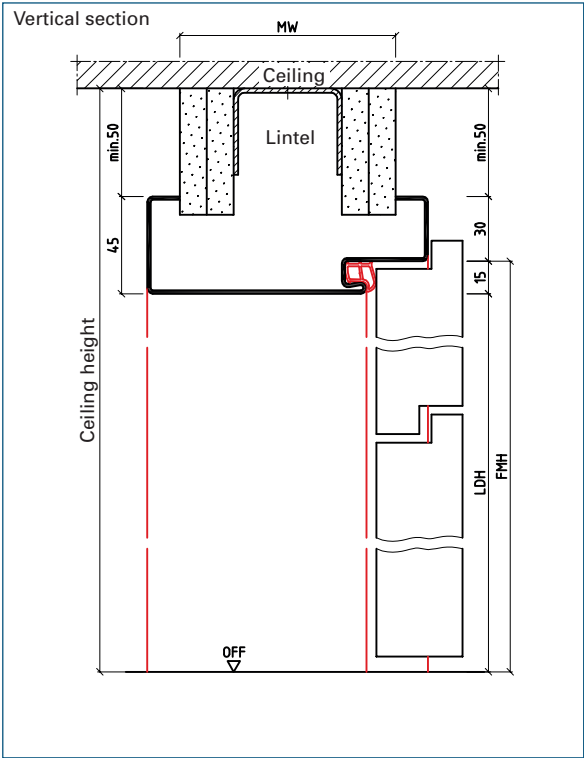


Designation code

**Bud**

Product description

- Ceiling connection, without lintel
- For stud walls
- Block frame (1 part)



Designation code

**Bud**

Product description

- Ceiling connection, with lintel
- For stud walls
- Block frame (1 part)

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The term standard frame describes steel frames with given profile forms and widths as well as standardized features.

BOS standard frames are manufactured according to DIN 18111 from 1.5mm hot-dip galvanized steel sheeting.



3

Contents	Page
Standard frames for brick walls	40
Standard frames for stud walls	41
Standard frames for gypsum block walls	42
Standard frames for stud walls, 3 parts	43

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### Article

BOS standard frames are in one piece, for rebated doors and are produced according to DIN 18111 Part 1 **for brick walls**.

### Your advantages

- Standard sizes available from stock at short notice
- Usable left/right
- Water-based primer (light grey) for easy workability with optimal compound adhesion for finishing coat
- Mortar impervious hinge pockets
- Sturdy mitre joint
- Screwed spacer rails

Structural wall opening measurement (RRM)

625 x 2000/2125
750 x 2000/2125
875 x 2000/2125
1000 x 2000/2125

Frame rebate measurement (FM)

591 x 1983/2108
716 x 1983/2108
841 x 1983/2108
966 x 1983/2108

Clearance measurement (LDM)

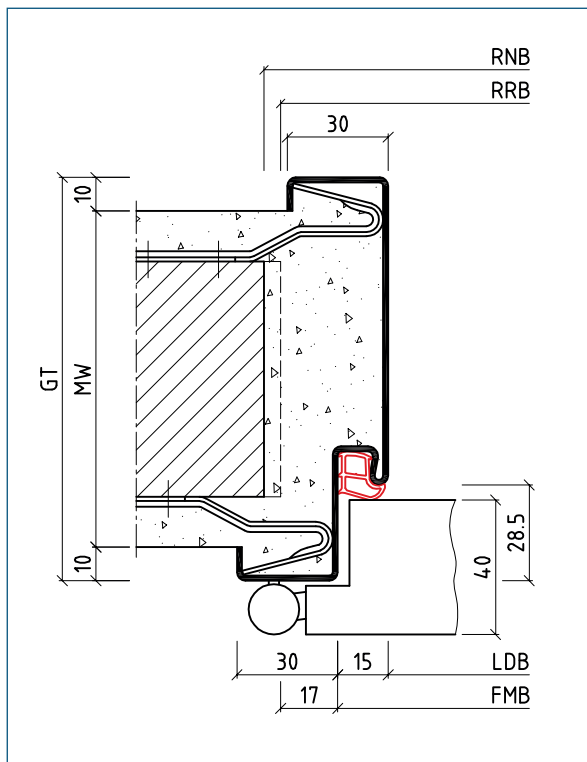
561 x 1968/2093
686 x 1968/2093
811 x 1968/2093
936 x 1968/2093

Overall door leaf measurement (TAM)

610 x 1985/2110
735 x 1985/2110
860 x 1985/2110
985 x 1985/2110

Receiving opening (MW): Corner 80 100 130 145 160 175 205 270 290 330

Foundation bedding (BE): 30

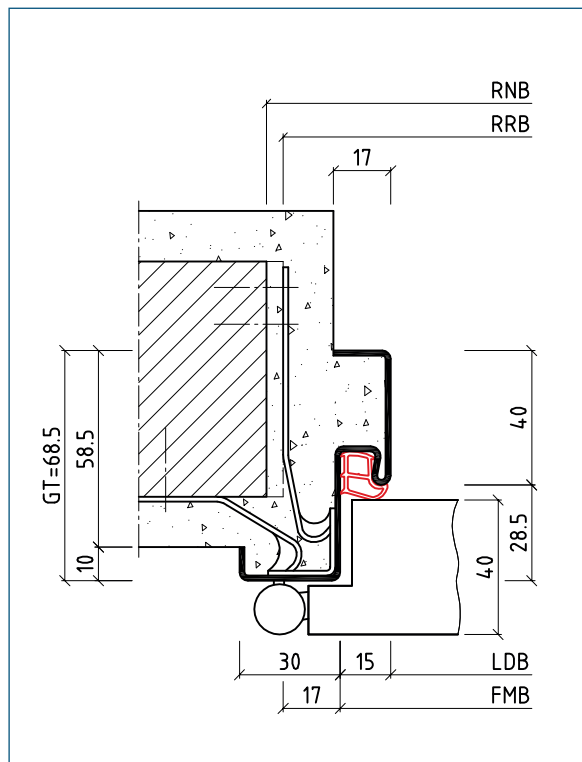


Designation code

**Uud**

Product description

- Standard wrap around frame (1 part)
- For brick walls
- With nail anchor



Designation code

**Eud**

Product description

- Standard corner frame (1 part)
- For brick walls
- With corner frame nail anchor

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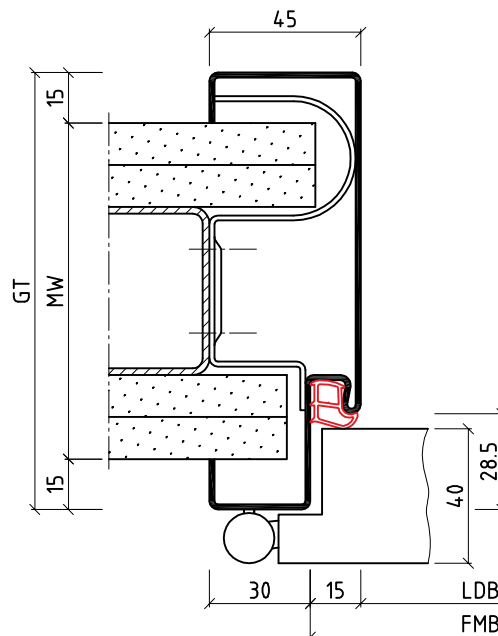
BOS standard frames are in one piece, for rebated doors and are produced according to DIN 18111 Part 2 for **installation together with the wall in stud walls.**

- Standard sizes available from stock at short notice
- Usable left/right
- User-friendly Aqua-Air primer (light grey) with ideal composite adhesion for top coats
- Hinge pockets V8618: no cut outs in the plasterboards necessary
- Sturdy mitre joint
- Screwed spacer rails

Theoretical structural wall opening measurement (RRM)	Frame rebate measurement (FM)	Clearance measurement (LDM)	Overall door leaf measurement (TAM)
625 x 2000/2125	591 x 1983/2108	561 x 1968/2093	610 x 1985/2110
750 x 2000/2125	716 x 1983/2108	686 x 1968/2093	735 x 1985/2110
875 x 2000/2125	841 x 1983/2108	811 x 1968/2093	860 x 1985/2110
1000 x 2000/2125	966 x 1983/2108	936 x 1968/2093	985 x 1985/2110

Receiving opening (MW): 75 100 125 150

Foundation bedding (BE): 0



Designation code

**Bud**

## Product description

- Standard block frame (1 part)
- For stud walls
- With bracket anchor

Subject to technical change.  
The illustrations are not for static  
information.

### Article

BOS standard frames are in one piece, for rebated doors and are produced according to DIN 18111 for **installation together with the wall in gypsum block walls.**

### Your advantages

- Standard sizes available from stock at short notice
- Usable left/right
- User-friendly Aqua-Air primer (light grey) with ideal composite adhesion for top coats
- Mortar impervious hinge pockets
- Sturdy mitre joint
- Screwed spacer rails

Theoretical structural wall opening measurement (RRM)

625 x 2000/2125
750 x 2000/2125
875 x 2000/2125
1000 x 2000/2125

Frame rebate measurement (FM)

591 x 1983/2108
716 x 1983/2108
841 x 1983/2108
966 x 1983/2108

Clearance measurement (LDM)

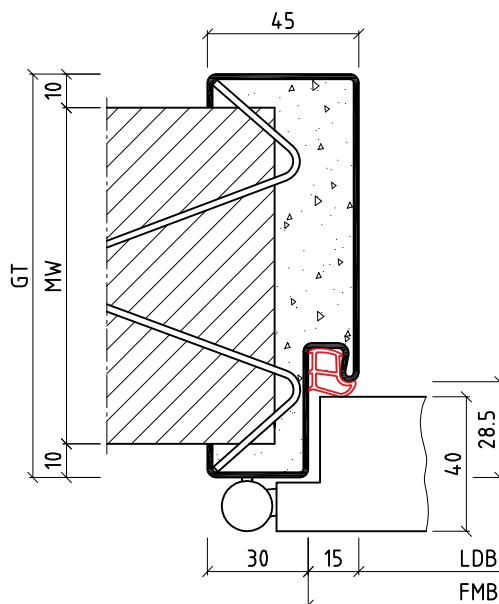
561 x 1968/2093
686 x 1968/2093
811 x 1968/2093
936 x 1968/2093

Overall door leaf measurement (TAM)

610 x 1985/2110
735 x 1985/2110
860 x 1985/2110
985 x 1985/2110

Receiving opening (MW): 80 100

Foundation bedding (BE): 30



Designation code

**Bud**

Product description

- Standard block frame (1 part)
- For gypsum block walls
- With wire anchor

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Standard Frames

Standard Frames for Stud Walls, 3 parts

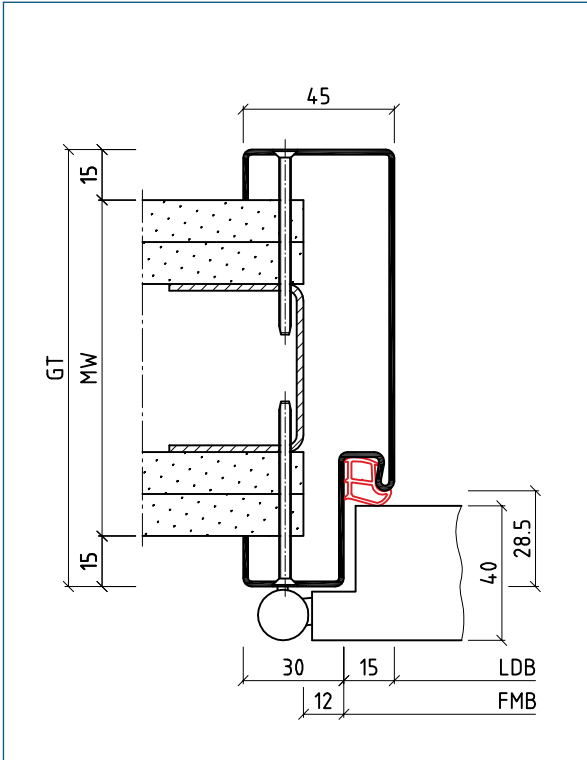
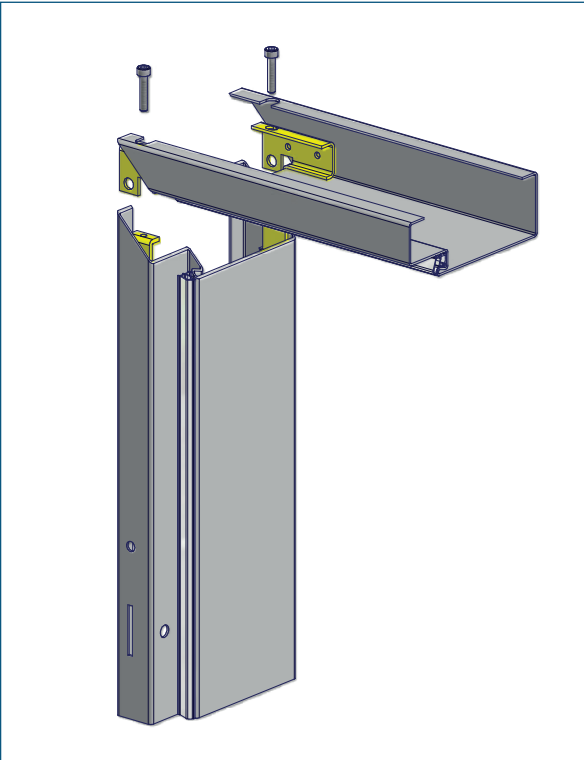
**Article** BOS Quick-Set standard frames are in 3 parts, for rebated doors and are produced based on DIN 18111 for **subsequent installation in stud walls**.

- Your advantages**
- Standard sizes available from stock at short notice
  - Usable left/right
  - User-friendly Aqua-Air primer (light grey) with ideal composite adhesion for top coats
  - Hinge pockets V8618: no cut outs in the plasterboards necessary
  - The dismantled construction is ideal for cost-effective transportation, e.g. via parcel service

- Our recommendations**
- Please take the necessary wall opening measurement into account (rebate width measurement +24mm = wall opening measurement)

Wall opening measurement (BÖM)	Frame rebate measurement (FM)	Clearance measurement (LDM)	Overall door leaf measurement (TAM)
615 x 2000/2125	591 x 1983/2108	561 x 1968/2093	610 x 1985/2110
740 x 2000/2125	716 x 1983/2108	686 x 1968/2093	735 x 1985/2110
865 x 2000/2125	841 x 1983/2108	811 x 1968/2093	860 x 1985/2110
990 x 2000/2125	966 x 1983/2108	936 x 1968/2093	985 x 1985/2110

Receiving opening (MW): 75 100 125 150  
Foundation bedding (BE): 0



Designation code

**Bud Quick-Set** (FT=28,5)

Product description

- Standard block frame (3 part)
- For stud walls
- For subsequent installation

Designation code

**Bud Quick-Set**

Product description

- Standard block frame (3 part)
- For stud walls
- Fixed through the architrave

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The basic profiles are suitable for almost every type of wall connection.

In addition to corner and wrap around frames, BOS also offers frames for interconnecting doors or with blind rebates as basic profiles.



4

Contents	Page
Corner frames	48 - 51
Wrap around frames	52 - 53
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Blind rebate frames	56 - 57
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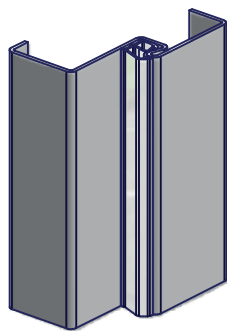


**Article**

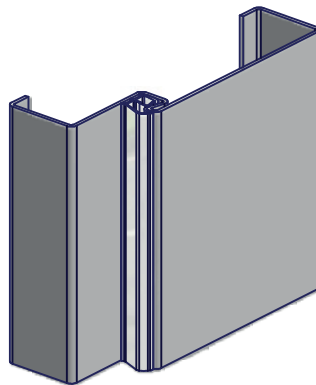
BOS basic profiles are suitable for almost all wall types.

**Your advantages**

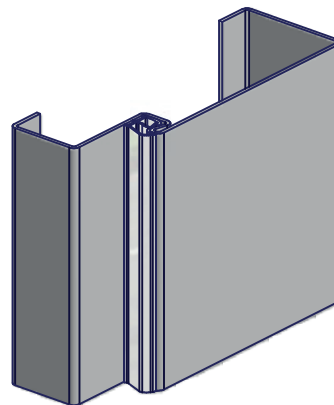
- The profiles can be tailor made to fit the specific installation situation
- A virtually unlimited choice of architraves, rebate depths, backbends and so on

**4**

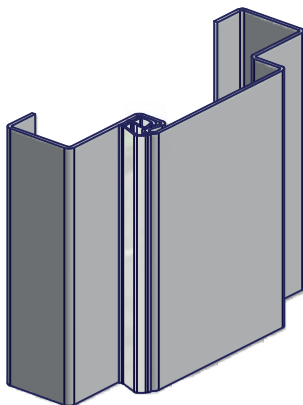
Eud



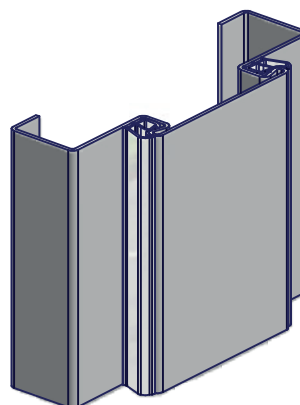
Uud



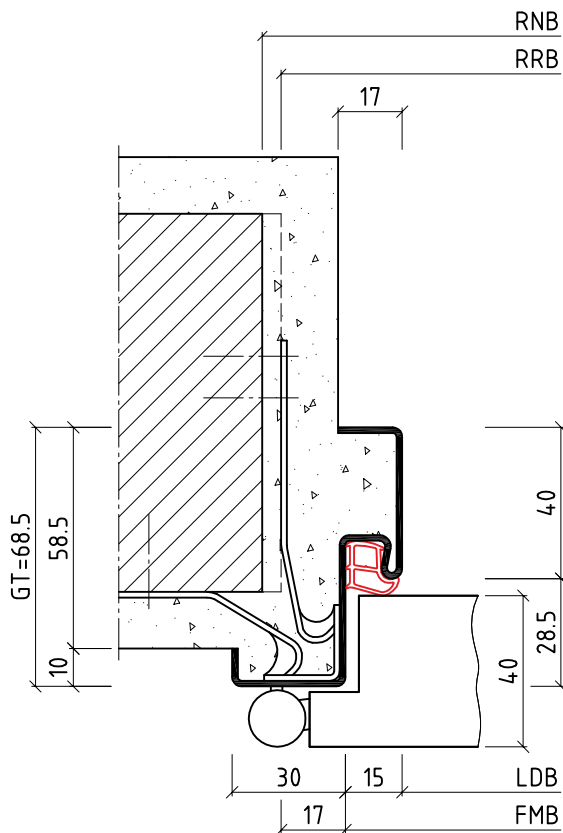
Bud



Aud



Oud

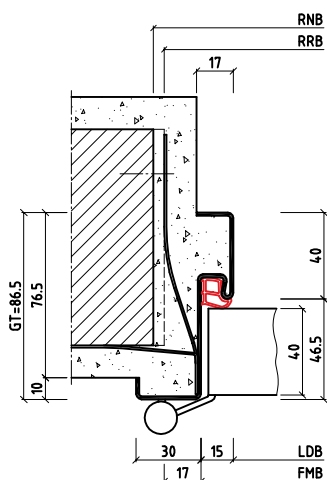


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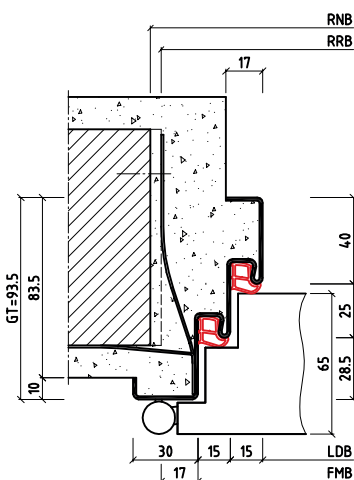
**Eud**

### Product description

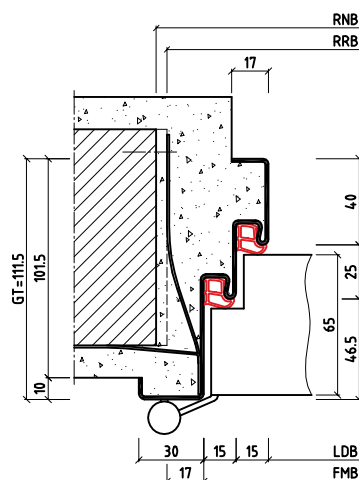
- Corner frame (1 part)
- For brick walls
- Illustration with corner frame nail anchor



**Esd**



**EuFd**



**EsFd**

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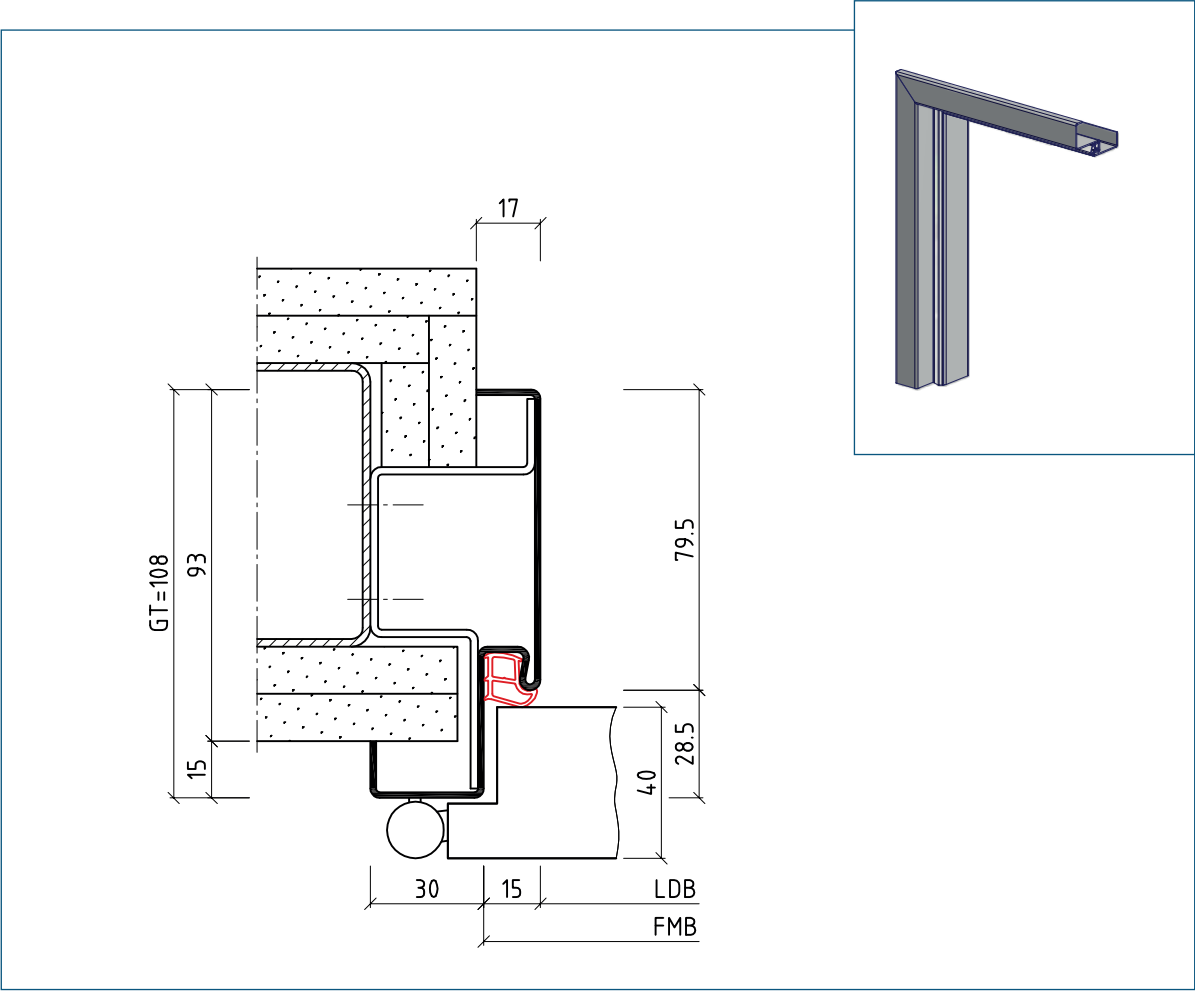
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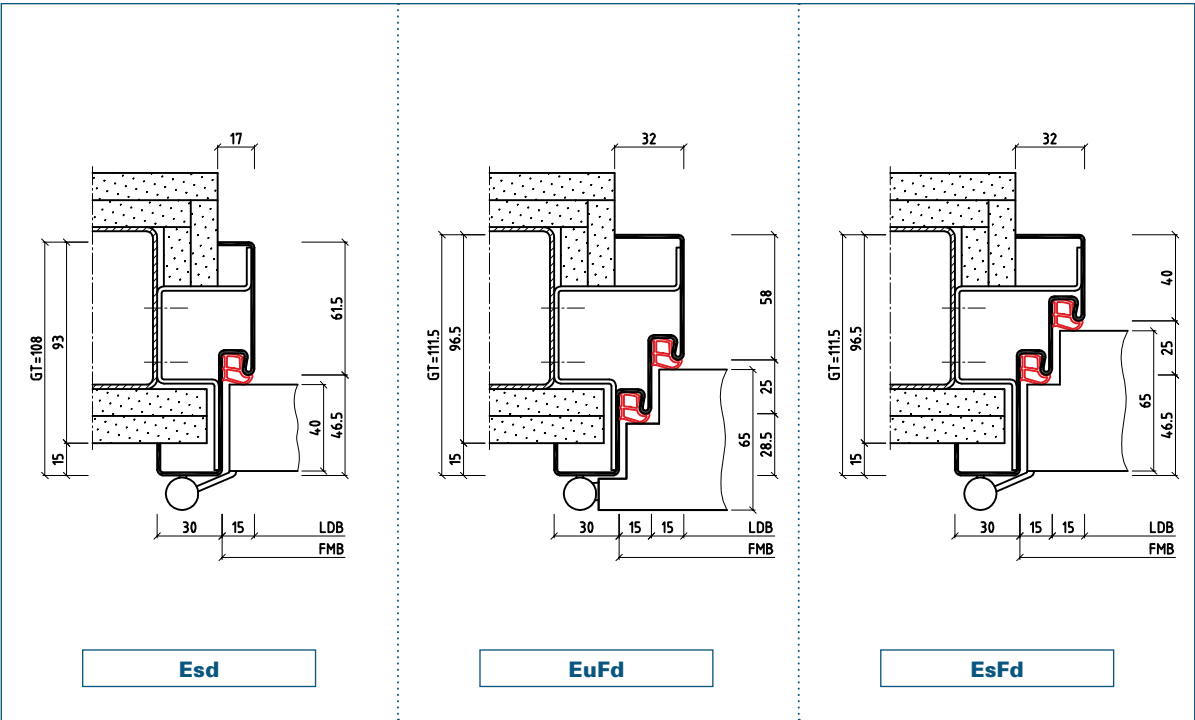
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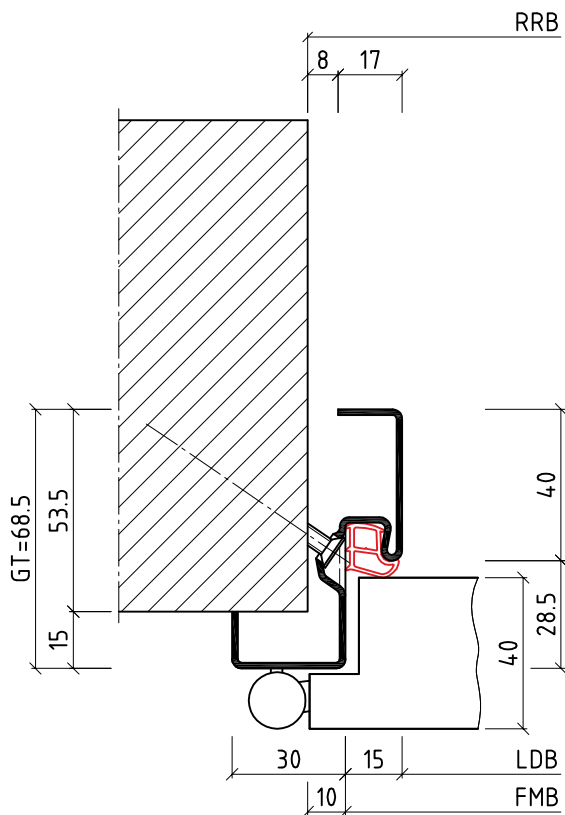
Designation code

Product description

<b>Eud</b>	<ul style="list-style-type: none"><li>- Corner frame (1 part)</li><li>- For stud walls</li><li>- Illustration with bracket anchor</li></ul>
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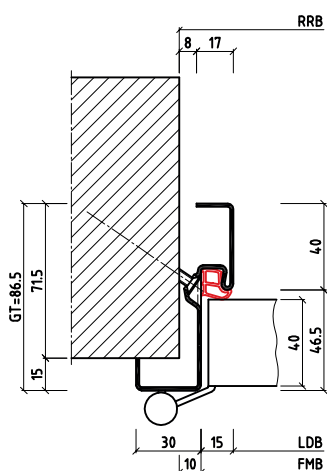


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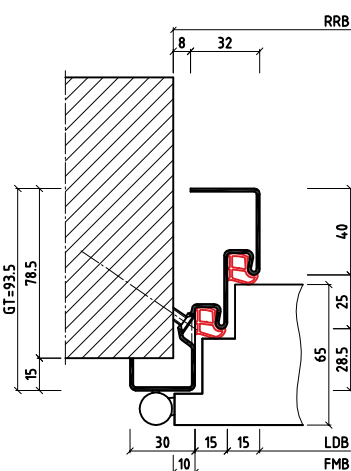
**Eud**

### Product description

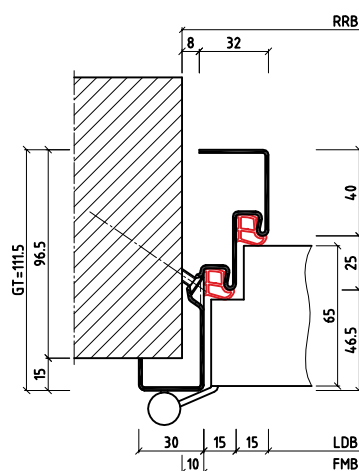
- Corner frame for subsequent installation (1 part)
- For brick walls
- Illustration with deep draw hole slanting in the rebate



**Esd**



**EuFd**



**EsFd**

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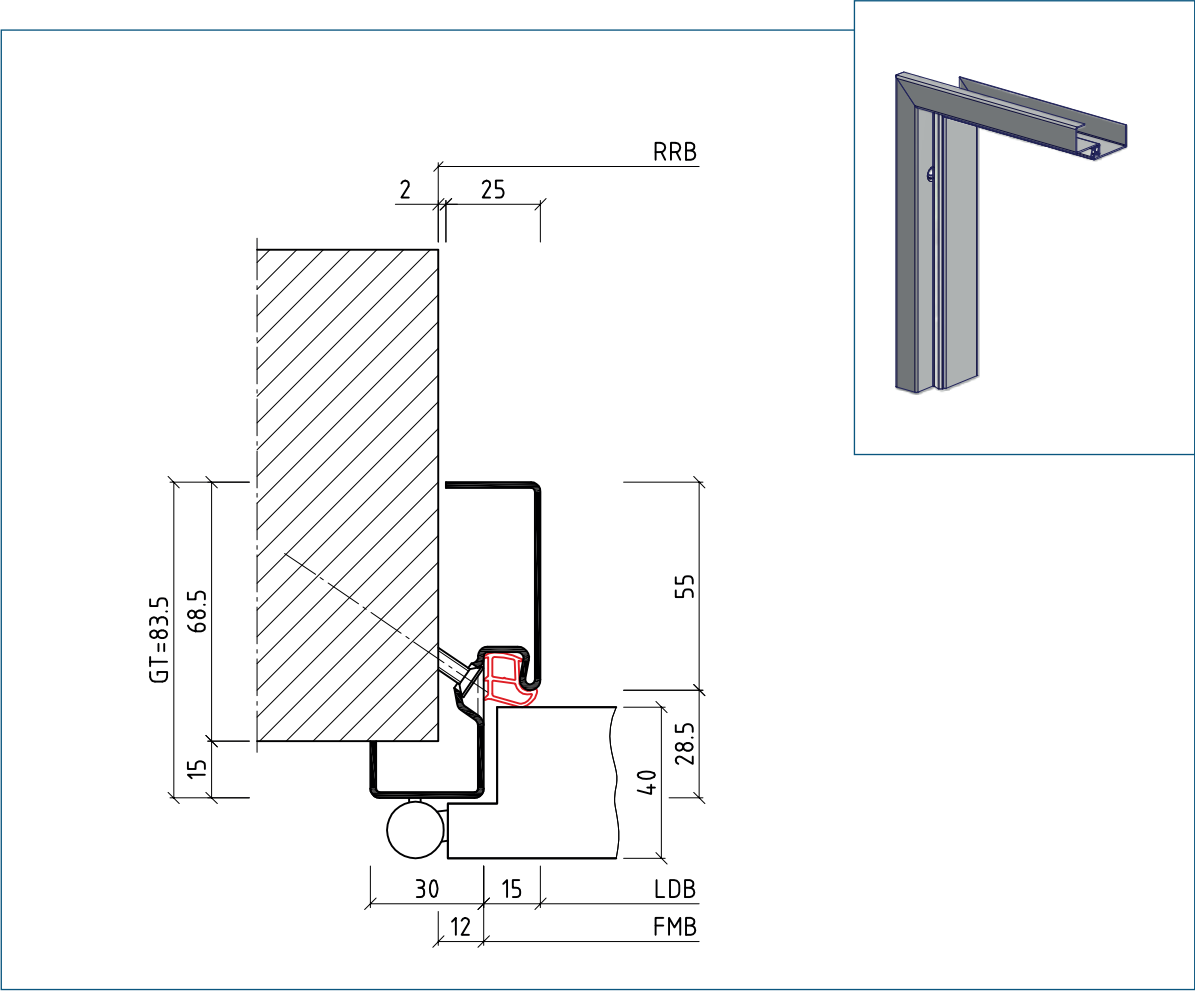
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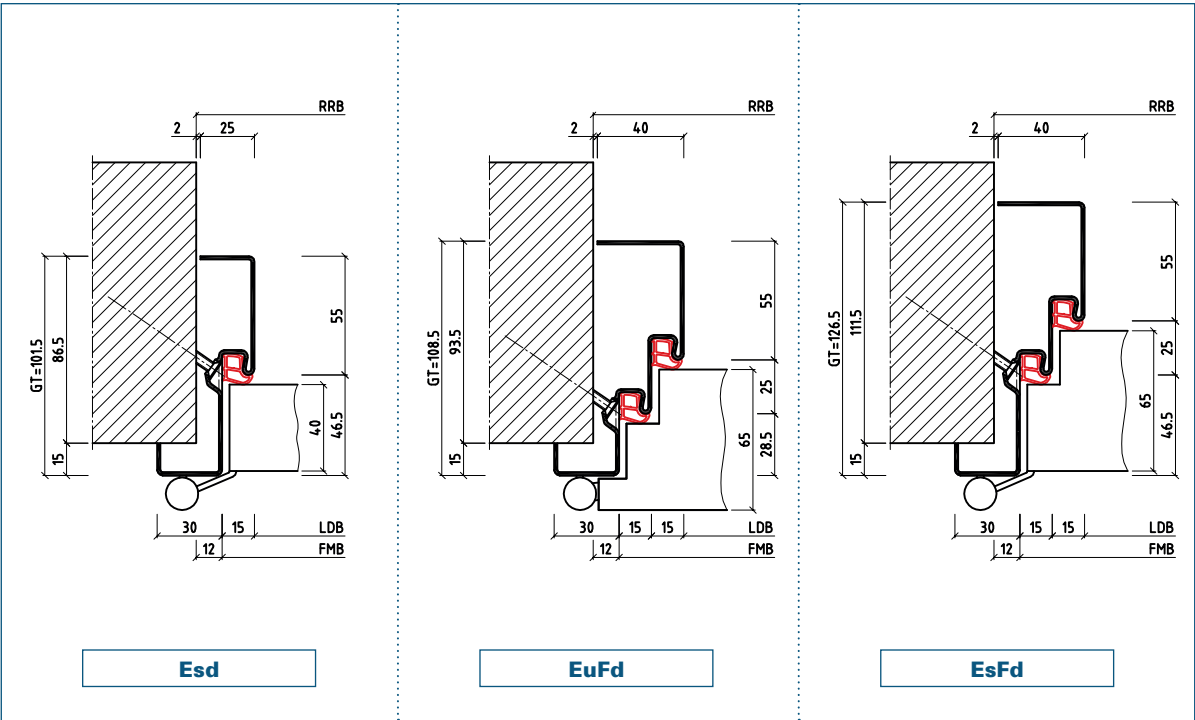




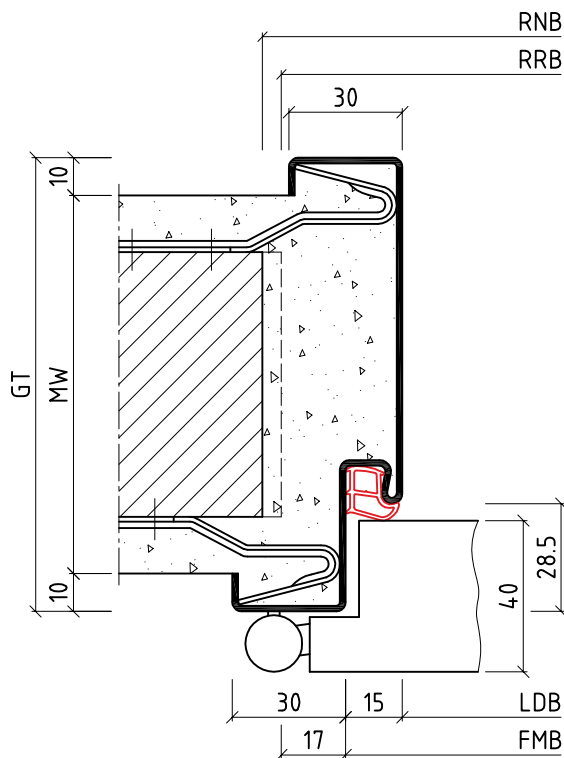
Designation code

Product description

<b>Eud</b>	<ul style="list-style-type: none"><li>- Corner frame for subsequent installation (1 part)</li><li>- For brick walls</li><li>- Illustration with deep draw hole slanting in the rebate</li></ul>
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Subject to technical change.  
The illustrations are not for static  
information.

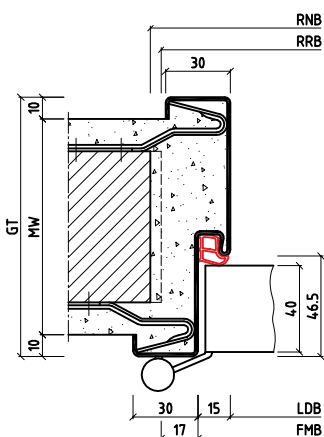


### Designation code

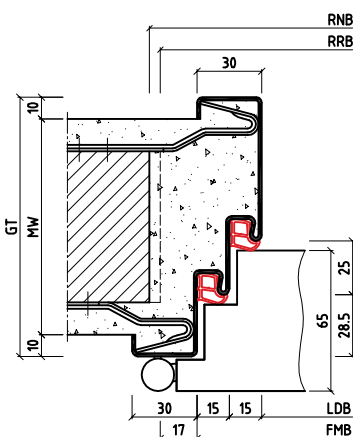
**Uud**

### Product description

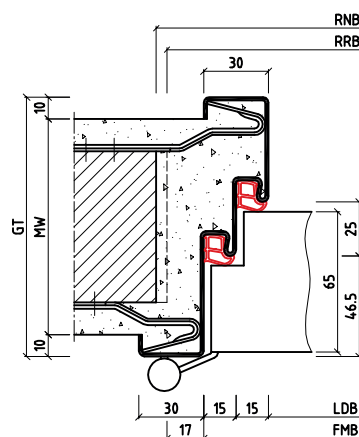
- Wrap around frame (1 part)
- For brick walls
- Illustration with nail anchor



**Usd**



**UuFd**



**UsFd**

### BOS Sales Department:

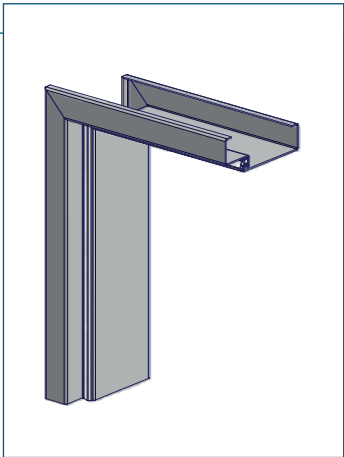
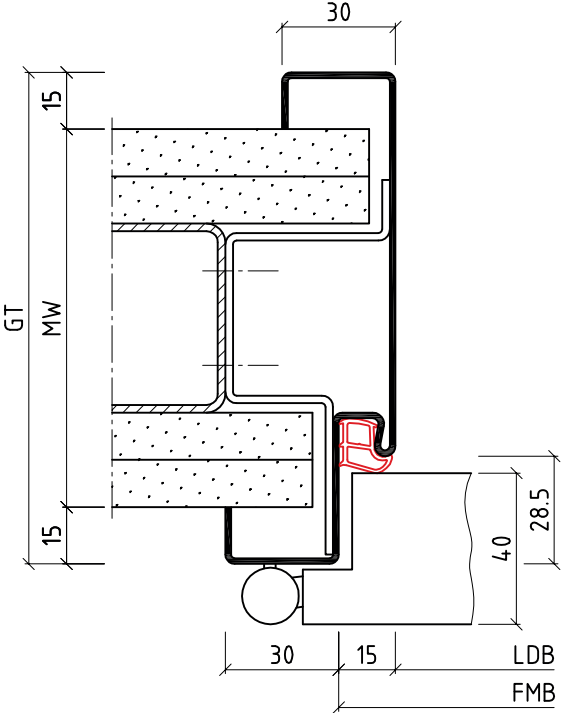
Tel: +49 2572 203-0  
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Designation code

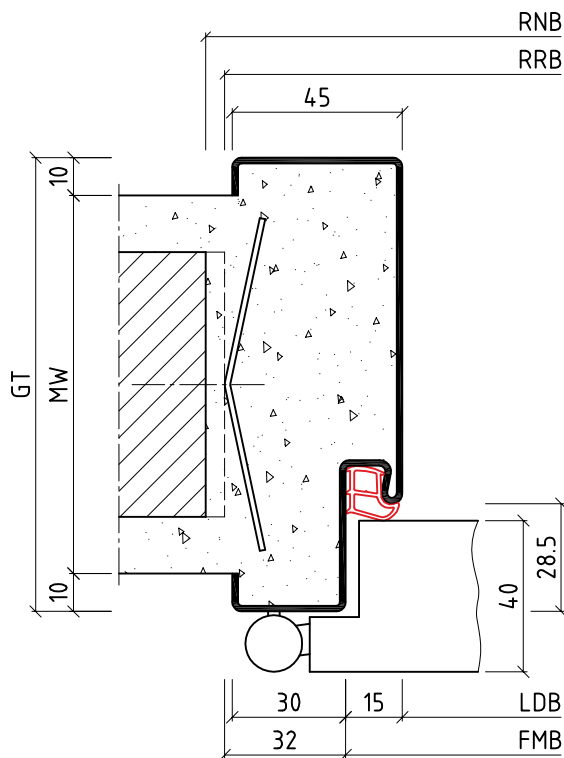
Product description

<b>Uud</b>	<ul style="list-style-type: none"><li>- Wrap around frame (1 part)</li><li>- For stud walls</li><li>- Illustration with bracket anchor</li></ul>
------------	--

<b>Usd</b>	<b>UuFd</b>	<b>UsFd</b>

Subject to technical change.  
The illustrations are not for static  
information.

Attention:  
For DIN door leaf  
increase RRM.

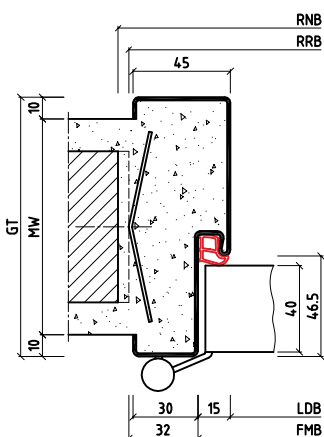


Designation code

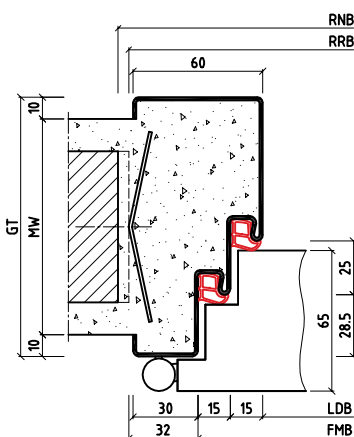
**Bud**

Product description

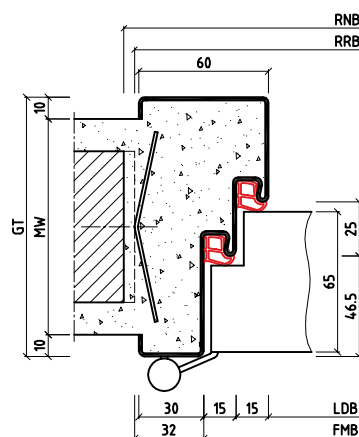
- Block frame (1 part)
- For brick walls
- Illustration with propeller anchor



**Bsd**



**BuFd**



**BsFd**

**BOS Sales Department:**

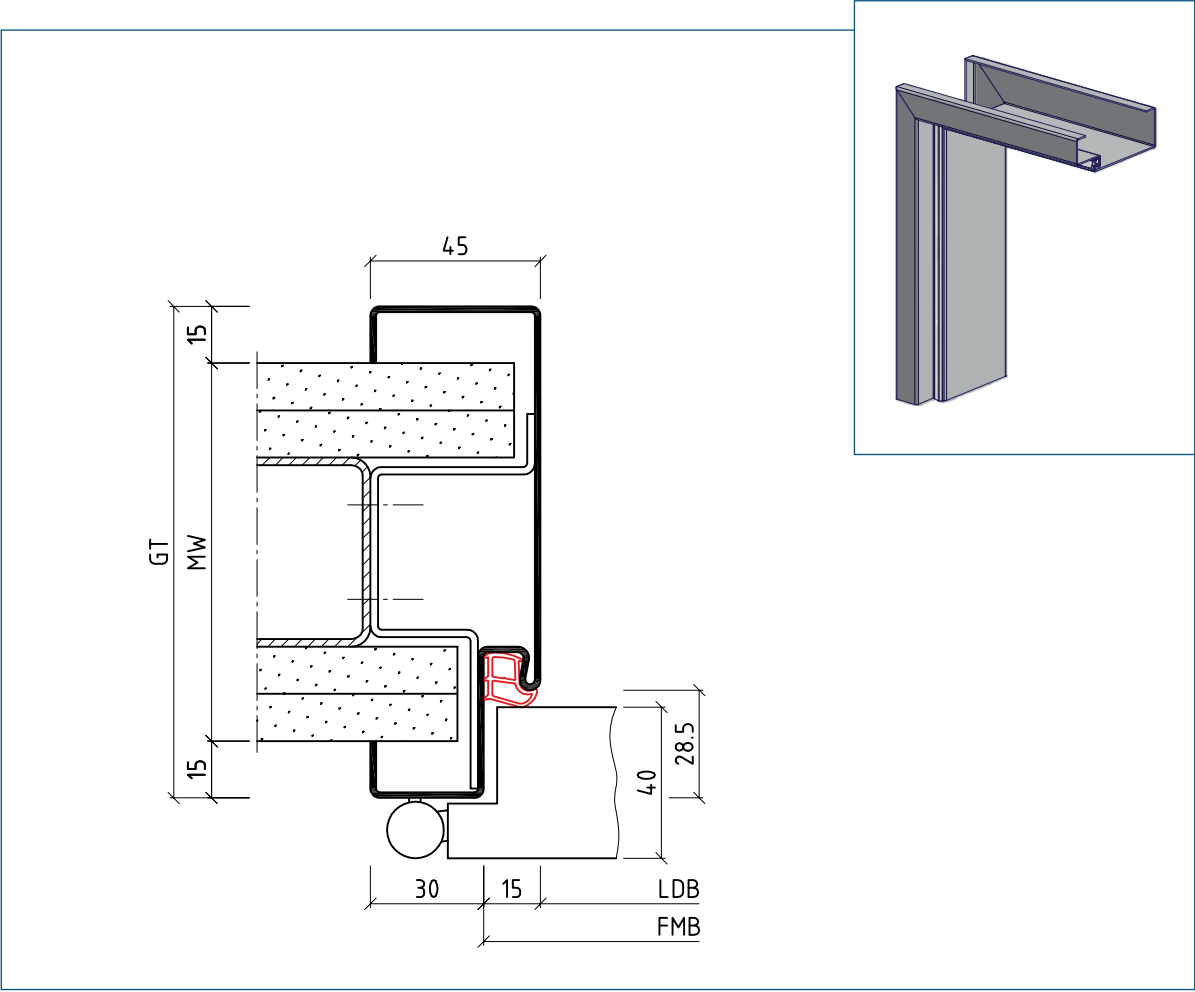
Tel.: +49 2572 203-0  
Fax: +49 2572 203-109  
E-Mail: info@BestOfSteel.de

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Fax: +49 2572 203-209  
E-Mail: architekten@BestOfSteel.de

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information.

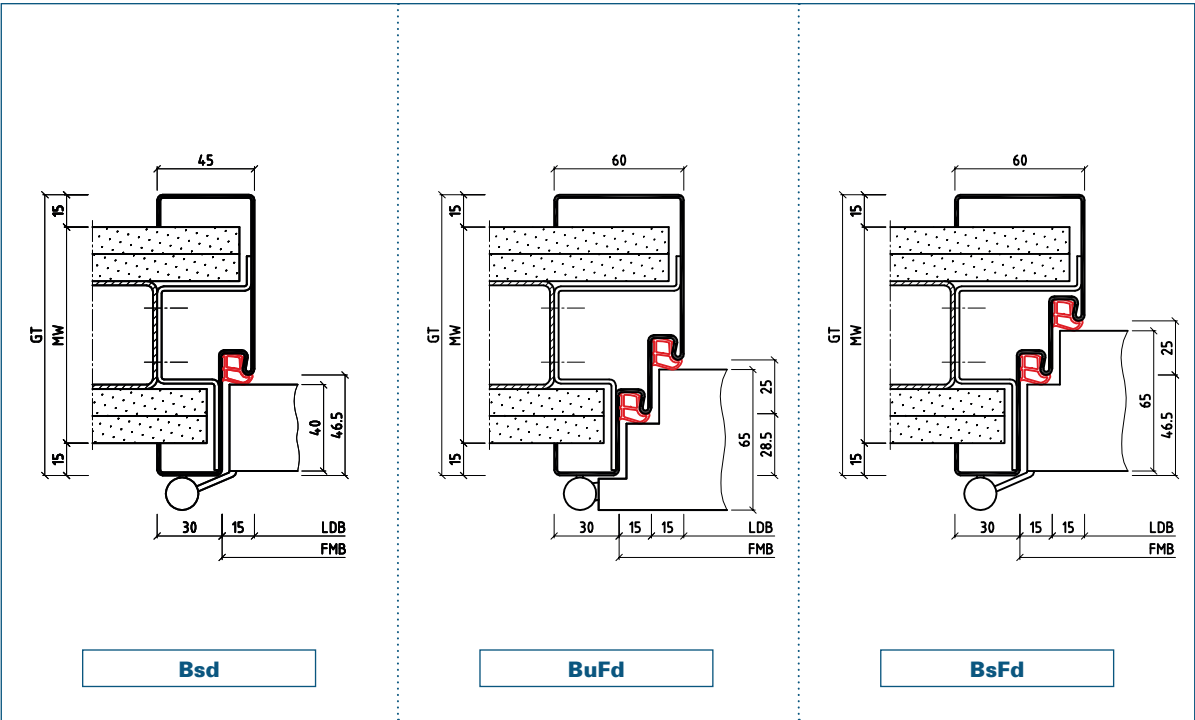
Version 6.0



Designation code

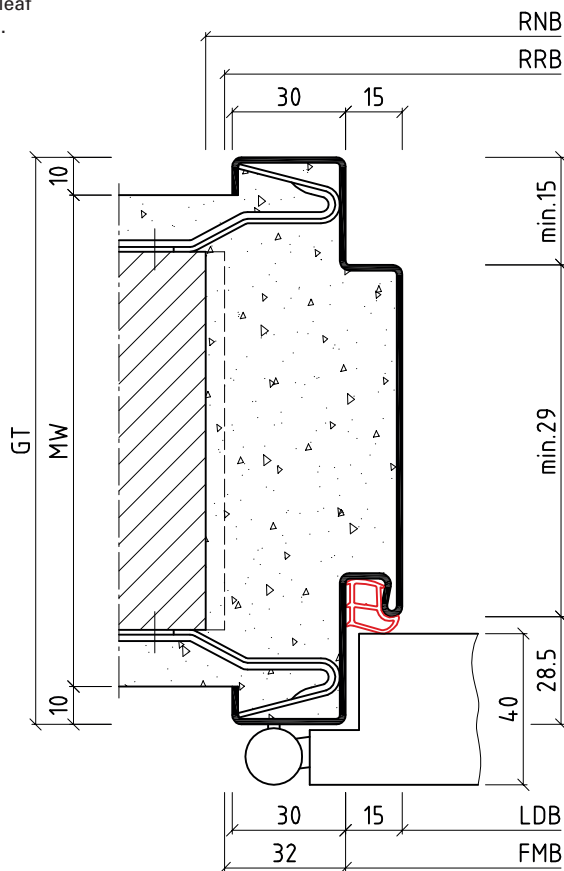
Product description

<b>Bud</b>	<ul style="list-style-type: none"><li>- Block frame (1 part)</li><li>- For stud walls</li><li>- Illustration with bracket anchor</li></ul>
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Subject to technical change.  
The illustrations are not for static  
information.

Attention:  
For DIN door leaf  
increase RRM.



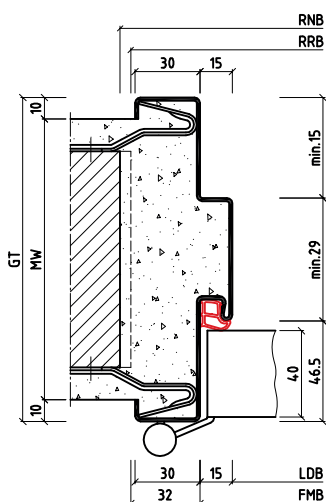
Note:  
The depth of the blind  
rebate is made the  
same as the rebate  
depth unless otherwise  
stated.

### Designation code

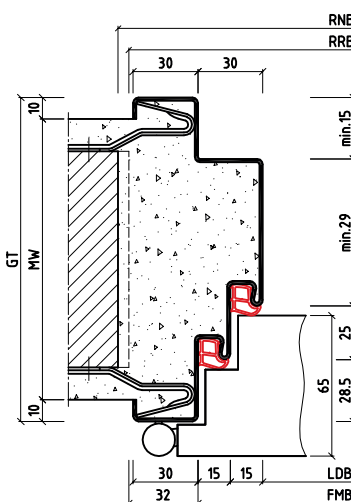
**Aud**

### Product description

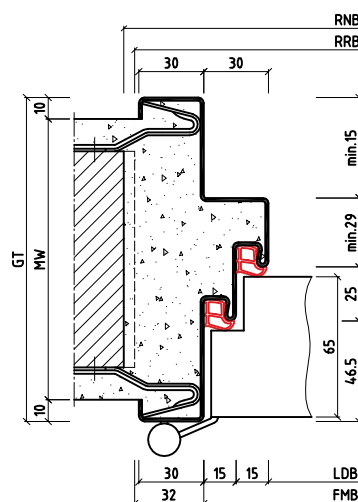
- Blind rebate frame (1 part)
- For brick walls
- Illustration with nail anchor



**Asd**



**AuFd**



**AsFd**

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The illustrations are not for static  
information.

Version 6.0



Note:  
The depth of the blind rebate is made the same as the rebate depth unless otherwise stated.

Designation code	Product description
<b>Aud</b>	<ul style="list-style-type: none"><li>- Blind rebate frame (1 part)</li><li>- For stud walls</li><li>- Illustration with bracket anchor</li></ul>

**Asd**

**AuFd**

**AsFd**



# Basic Profiles

## Interconnecting Door Frames

Attention:  
\*Minimum measurement = 54mm  
Take door handle depth into account.

Closing arrangements

Type 1

Type 2

Type 3

Designation code	Product description
<b>Oud</b>	<ul style="list-style-type: none"><li>- Interconnecting door frame (1 part)</li><li>- For stud walls</li><li>- Illustration with bracket anchor</li></ul>

**Osd**

**OuFd**

**OsFd**

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The illustrations are not for static information.



2 part split frames for subsequent installation are the best solution for renovation sites.

They can either be installed into a finished wall opening during the building phase or into a completed room or on request even on top of the old frames.

A wide range of designs and fittings are available.

For the 2 part split frames we highly recommend our well-tried and tested BOS powder coating in all RAL colours.



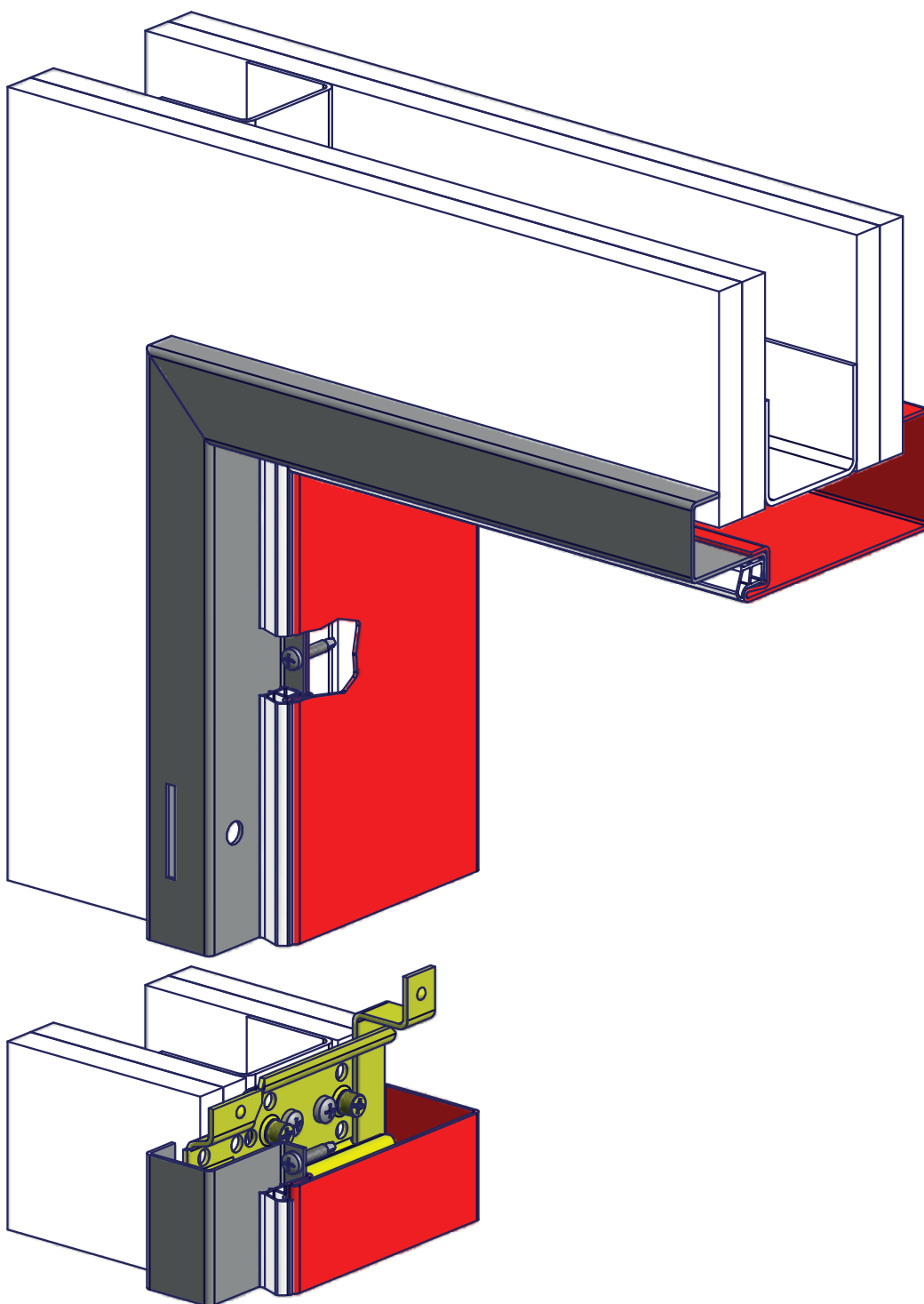
5

Contents	Page
Duo 15Z frames	64 - 71
2 part split steel frames with adjustment area	73 - 77



<b>Article</b>	The Duo 15Z is a 2 part split frame which is suitable for almost all wall types.
<b>Your advantages</b>	<ul style="list-style-type: none"><li>• The connection is not visible, visual effect of a 1 part frame</li><li>• Suitable for standard openings = standard door leaves (see DIN measurement table)</li><li>• With patented levelling anchor (DE 19900095.6-25)</li><li>• Can be installed together with the door in finished rooms</li><li>• Many standard sizes available from stock at short notice</li></ul>
<b>Our recommendations</b>	<ul style="list-style-type: none"><li>• Powder coating in proved BOS quality for application in rooms with surface finished walls</li><li>• For solid walls choose a 3-5mm larger receiving opening measurement to accommodate tolerance adjustment. Seal any gaps which should occur between the wall and the frame with acrylic.</li><li>• For on-site foaming, choose slot hole cut-outs in the seal retainer and mortar impervious hinge pockets</li><li>• Please ask for our detailed information sheet regarding the Duo 15Z with shadow groove</li></ul>





Designation code

**15ZBud** (FT=28,5)  
**15ZBsd** (FT=46,5)

Product description

- Block frame (2 part split)
- For almost all wall types
- For subsequent installation

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**BOS Architect Consulting Service:**

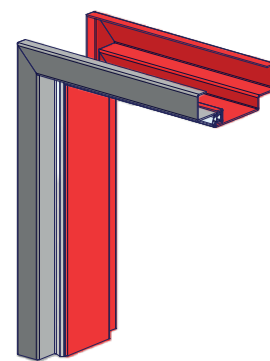
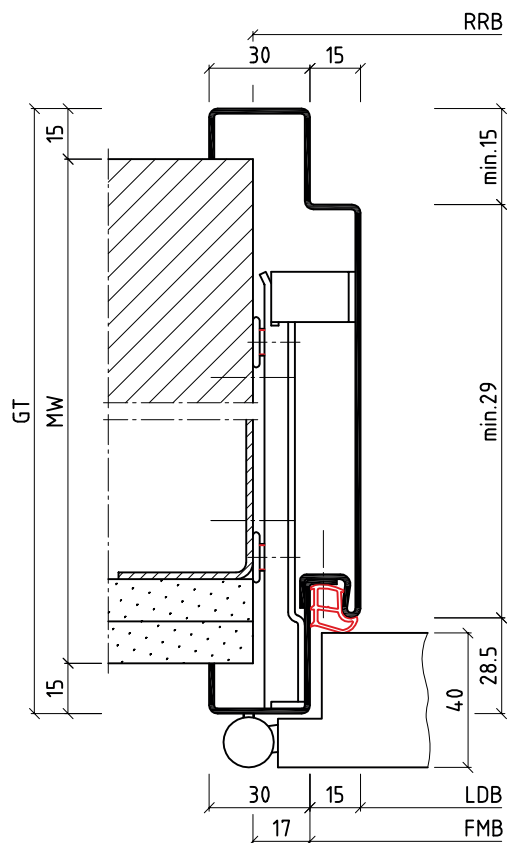
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Fax: +49 2572 203-209  
E-Mail: [architekten@BestOfSteel.de](mailto:architekten@BestOfSteel.de)

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information.

**Version 6.0**

## 65





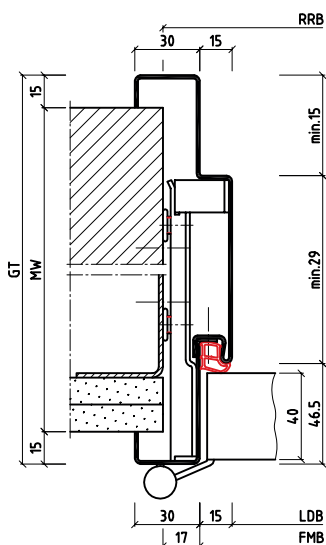
Note:  
The depth of the blind  
rebate is made the  
same as the rebate  
depth unless otherwise  
stated.

### Designation code

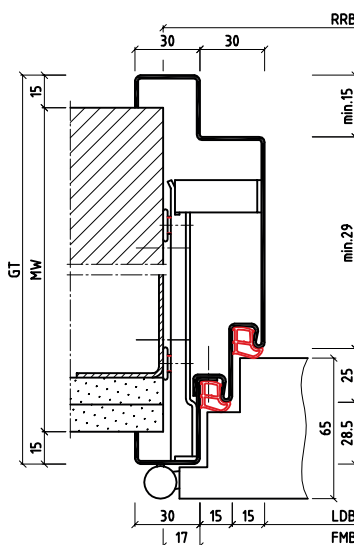
**15ZAud**

### Product description

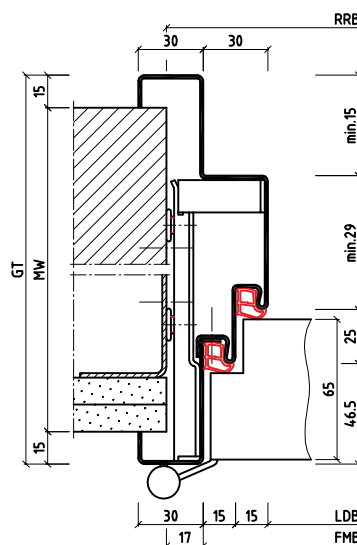
- Blind rebate frame (2 part split)
- For almost all wall types
- Illustration with levelling anchor



**15ZAud**



**15ZAuFd**



**15ZAsFd**

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# 2 Part Split Steel Frames

## Duo 15Z

Attention:  
\*Minimum measurement = 54mm  
Take handle depth into account.

Closing arrangements

Type 1

Type 2

Type 3

5

Designation code	Product description
15Z0ud	<ul style="list-style-type: none"> <li>- Interconnecting door frame (2 part split)</li> <li>- For almost all wall types</li> <li>- Illustration with flat steel anchor</li> </ul>

15Z0sd

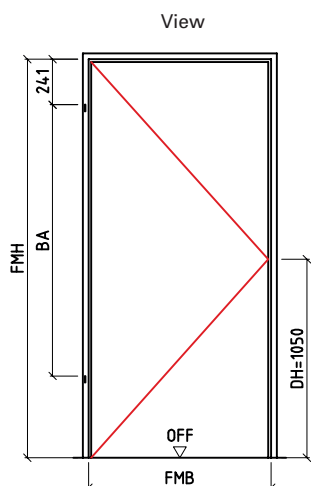
15Z0uFd

15Z0sFd

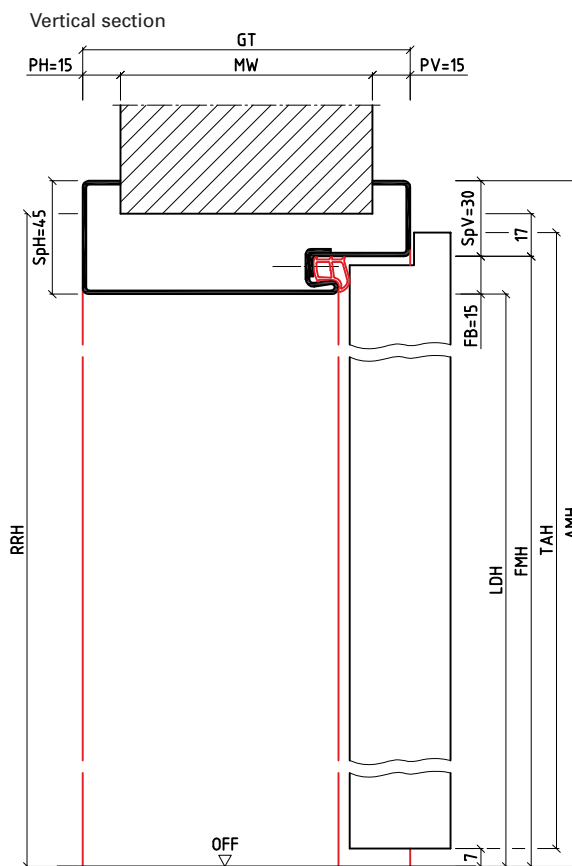
Subject to technical change.  
The illustrations are not for static information.

RRB	=	FMB + 34 mm	=	TAB + 15 mm
RRH	=	FMH + 17 mm	=	TAH + 15 mm
FMB	=	TAB - 19 mm	=	RRB - 34 mm
FMH	=	TAH - 2 mm	=	RRH - 17 mm
LDB	=	FMB - 30 mm	=	RRB - 64 mm
LDH	=	FMH - 15 mm	=	RRH - 32 mm
AMB	=	FMB + 60 mm	=	RRB + 26 mm
AMH	=	FMH + 30 mm	=	RRH + 13 mm
TAB	=	FMB + 19 mm	=	RRB - 15 mm
TAH	=	FMH + 2 mm	=	RRH - 15 mm

The calculation basis given here is valid for rebated door leaves only.

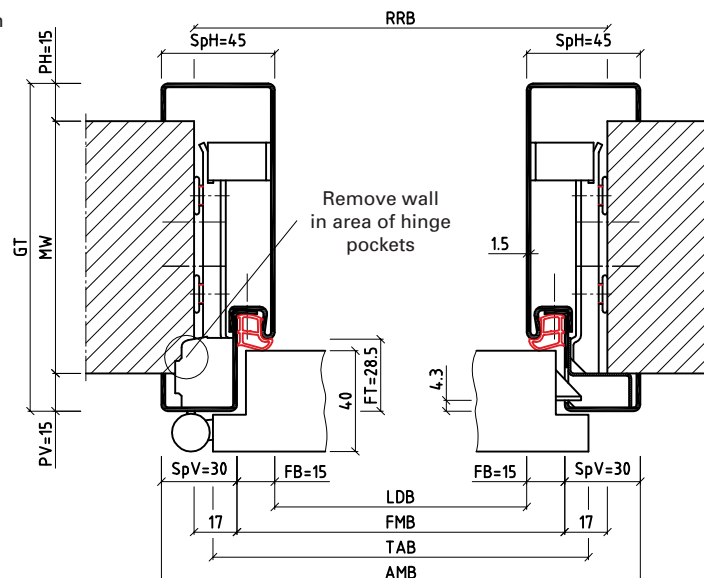


View = DIN left  
Mirror image = DIN right



Back part of the frame

Horizontal section



Hinge side of the frame

Rebate side of the frame

Lock side of the frame

Designation code

15ZBud

Product description

- Calculation basis
- For brick walls

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Subject to technical change.  
The illustrations are not for static information.

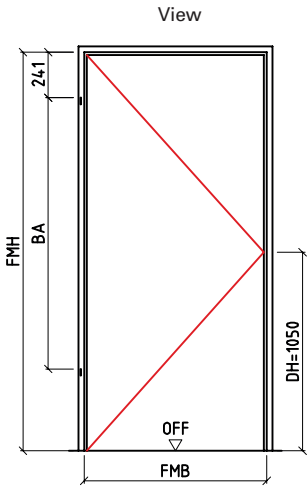
Version 6.0

# 2 Part Split Steel Frames

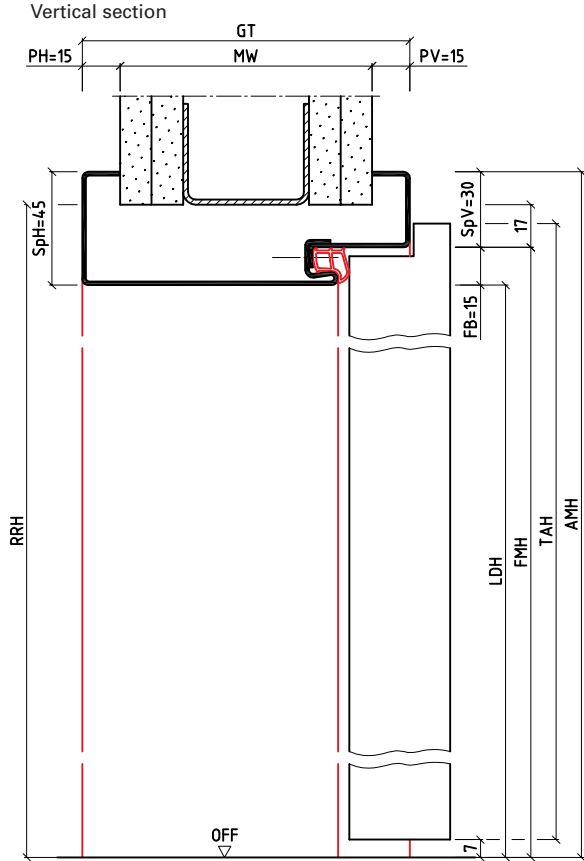
## Duo 15Z

RRB	=	FMB + 34 mm	=	TAB + 15 mm
RRH	=	FMH + 17 mm	=	TAH + 15 mm
FMB	=	TAB - 19 mm	=	RRB - 34 mm
FMH	=	TAH - 2 mm	=	RRH - 17 mm
LDB	=	FMB - 30 mm	=	RRB - 64 mm
LDH	=	FMH - 15 mm	=	RRH - 32 mm
AMB	=	FMB + 60 mm	=	RRB + 26 mm
AMH	=	FMH + 30 mm	=	RRH + 13 mm
TAB	=	FMB + 19 mm	=	RRB - 15 mm
TAH	=	FMH + 2 mm	=	RRH - 15 mm

The calculation basis given here is valid for rebated door leaves only.

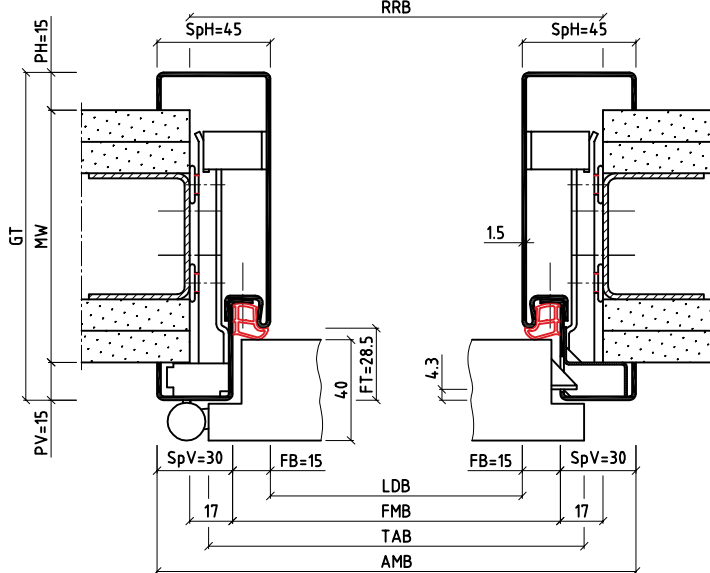


View = DIN left  
Mirror image = DIN right



Back part of the frame

Horizontal section



Hinge side of the frame

Rebate side of the frame

Lock side of the frame

Designation code

15ZBud

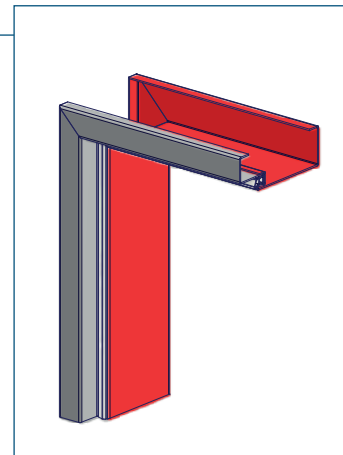
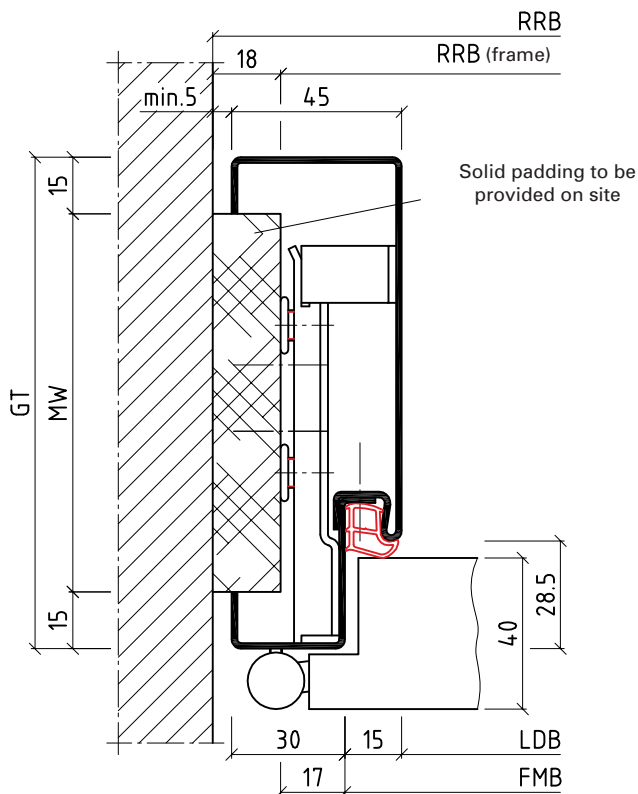
Product description

- Calculation basis
- For stud walls

Subject to technical change.  
The illustrations are not for static information.

**Attention:**

The door can not be opened to 90°.



**Our recommendations:**

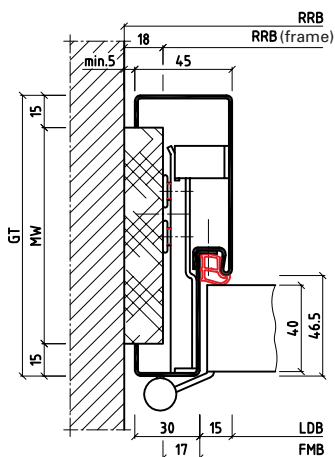
- Use a door stop to avoid damage to the wall through the door handle and overhead door closer.
- If using a door closer, an ITS is preferable

**Designation code**

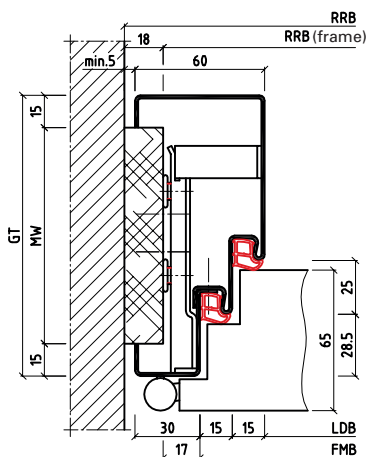
**15ZBud**

**Product description**

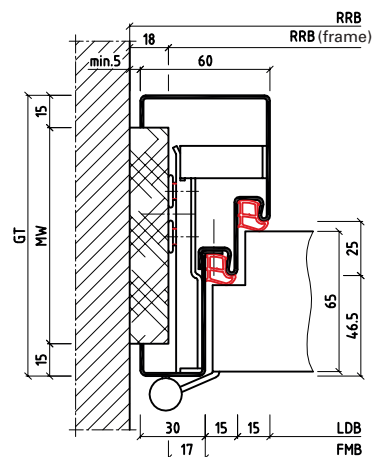
- Block frame (2 part split)
- Between two walls
- Illustration with levelling anchor



**15ZBsd**



**15ZBuFd**



**15ZBsFd**

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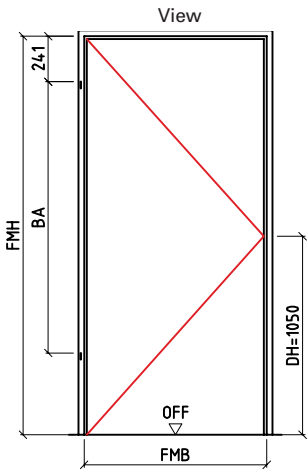


# 2 Part Split Steel Frames

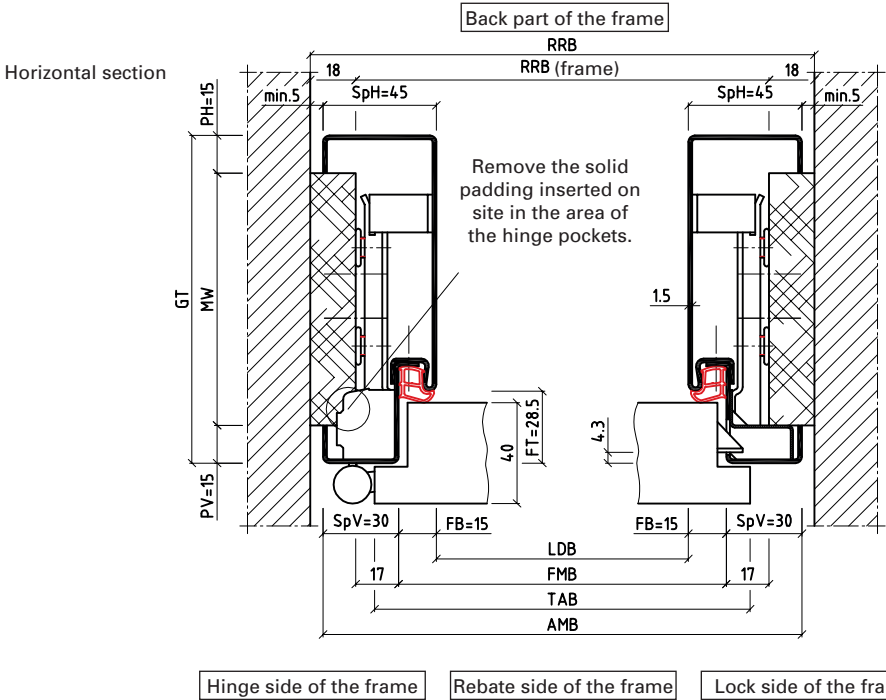
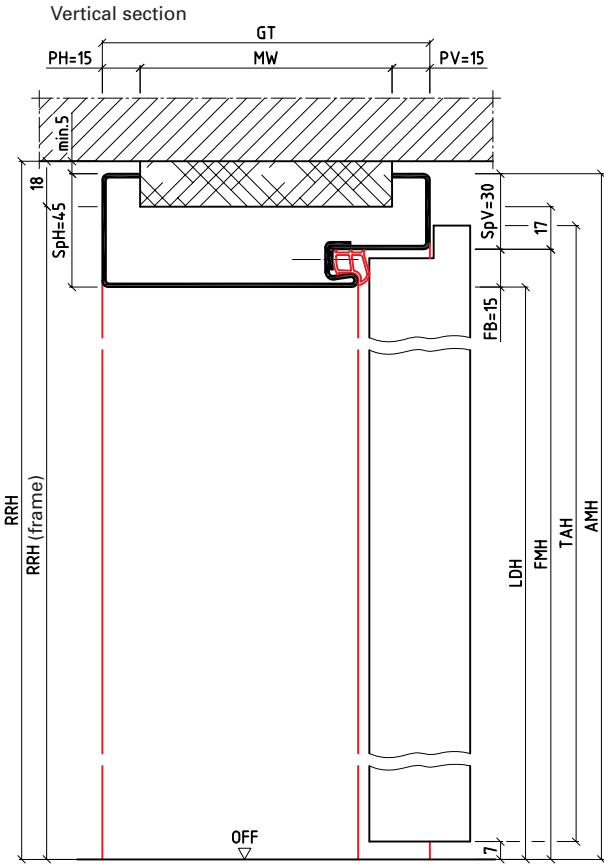
## Duo 15Z

RRB	=	FMB + 70 mm	=	TAB + 51 mm
RRH	=	FMH + 35 mm	=	TAH + 33 mm
RRB(frame)	=	FMB + 34 mm	=	TAB + 15 mm
RRH(frame)	=	FMH + 17 mm	=	TAH + 15 mm
FMB	=	TAB - 19 mm	=	RRB - 70 mm
FMH	=	TAH - 2 mm	=	RRH - 35 mm
LDB	=	FMB - 30 mm	=	RRB - 100 mm
LDH	=	FMH - 15 mm	=	RRH - 50 mm
AMB	=	FMB + 60 mm	=	RRB - 10 mm
AMH	=	FMH + 30 mm	=	RRH - 5 mm
TAB	=	FMB + 19 mm	=	RRB - 51 mm
TAH	=	FMH + 2 mm	=	RRH - 33 mm

The calculation basis given here is valid for rebated door leaves only.



View = DIN left  
Mirror image = DIN right



Hinge side of the frame    Rebate side of the frame    Lock side of the frame

15ZBud

- Calculation basis
- Between two walls

Subject to technical change.  
The illustrations are not for static information.



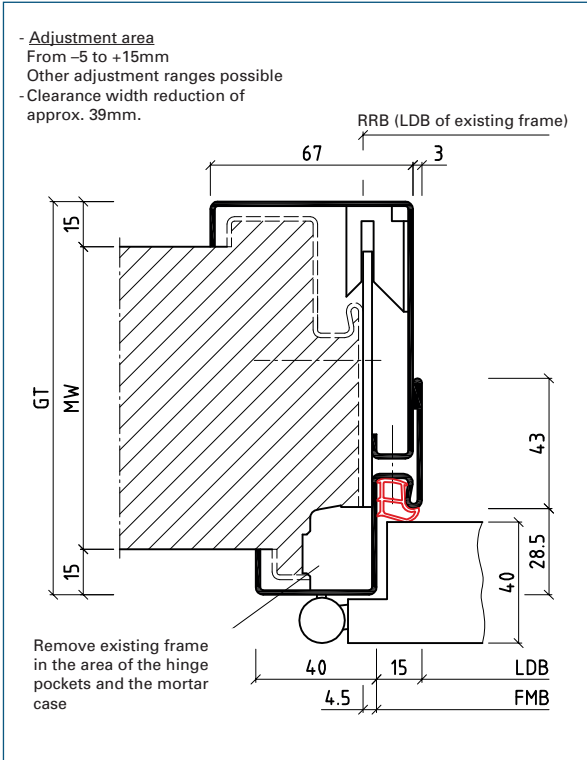
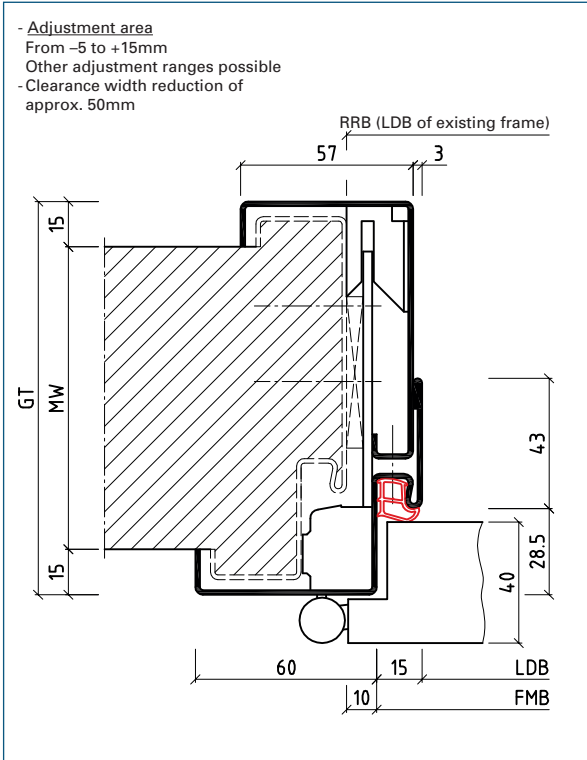
# 2 Part Split Steel Frames with Adjustment Area

- Article

The 2 part split frames with adjustment area can be installed in almost all wall types.
- Your advantages

- 2 part split frames can be installed in finished rooms together with the door
  - Available with various adjustment areas (receiving opening tolerances) to compensate for varying wall thicknesses
- Our recommendations

- Powder coated surfaces in proved BOS quality for application in rooms with surface finished walls
  - If the receiving opening is less than 125mm we recommend additional screws in the rebate for flush versions and designs with a double rebate



Designation code	wkUud
Product description	<ul style="list-style-type: none"><li>- Wrap around frame (2 part split)</li><li>- Over existing frame</li><li>- Illustration with flat steel anchor</li></ul>

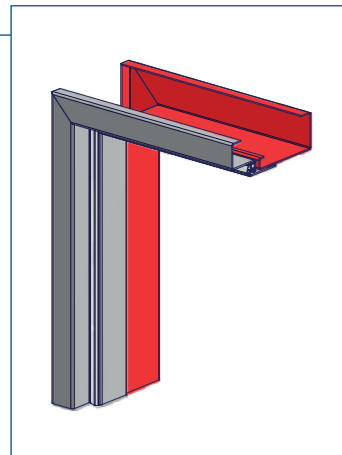
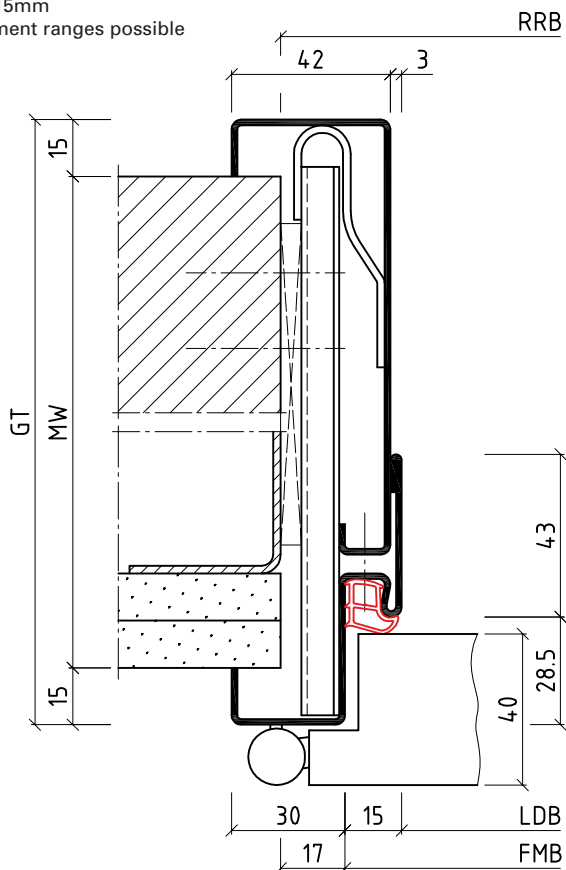
Designation code	wkUud
Product description	<ul style="list-style-type: none"><li>- Wrap around frame (2 part split)</li><li>- Over existing frame</li><li>- Illustration with flat steel anchor</li></ul>

Subject to technical change.  
The illustrations are not for static information.

### Adjustment area

From -5 to +15mm

Other adjustment ranges possible

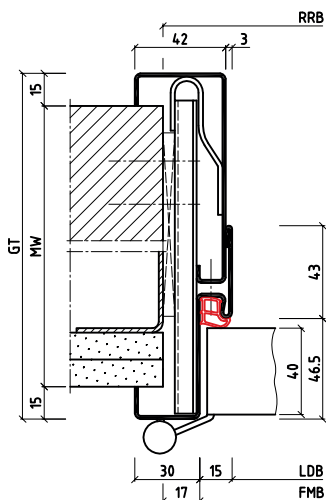


### Designation code

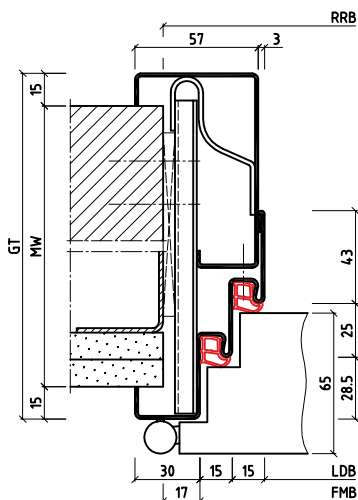
**wkBud**

### Product description

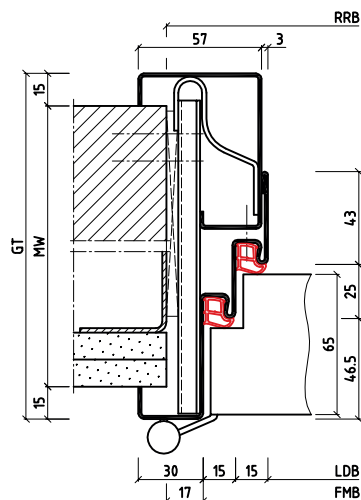
- Block frame (2 part split)
- For almost all wall types
- Illustration with trapeze anchor



**wkBsd**



**wkBuFd**



**wkBsFd**

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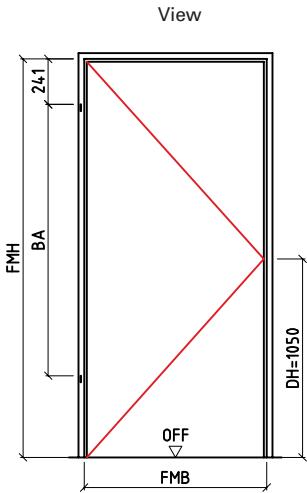
Subject to technical change.  
The illustrations are not for static  
information.

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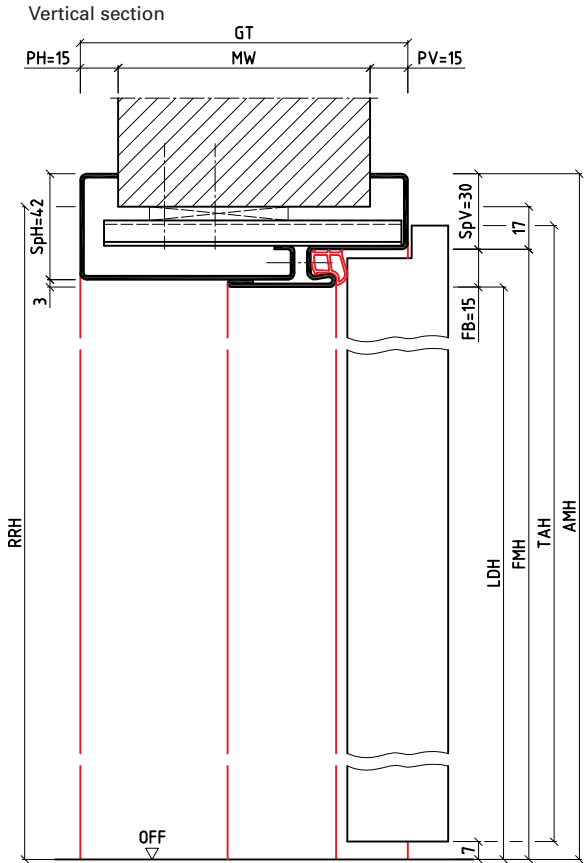
# 2 Part Split Steel Frames with Adjustment Area

RRB	=	FMB + 34 mm	=	TAB + 15 mm
RRH	=	FMH + 17 mm	=	TAH + 15 mm
FMB	=	TAB - 19 mm	=	RRB - 34 mm
FMH	=	TAH - 2 mm	=	RRH - 17 mm
LDB	=	FMB - 30 mm	=	RRB - 64 mm
LDH	=	FMH - 15 mm	=	RRH - 32 mm
AMB	=	FMB + 60 mm	=	RRB + 26 mm
AMH	=	FMH + 30 mm	=	RRH + 13 mm
TAB	=	FMB + 19 mm	=	RRB - 15 mm
TAH	=	FMH + 2 mm	=	RRH - 15 mm

The calculation basis given here is valid for rebated door leaves only.

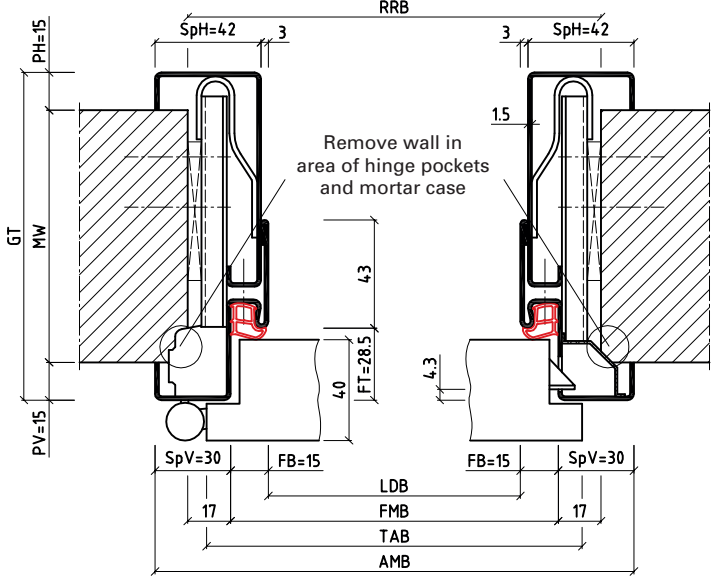


View = DIN left  
Mirror image = DIN right



Back part of the frame

Horizontal section



Remove wall in  
area of hinge pockets  
and mortar case

Hinge side of the frame

Rebate side of the frame

Lock side of the frame

## Designation code

wkBud

## Product description

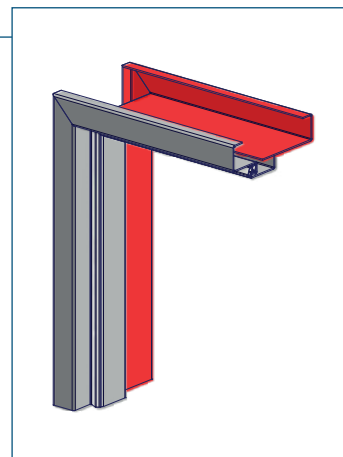
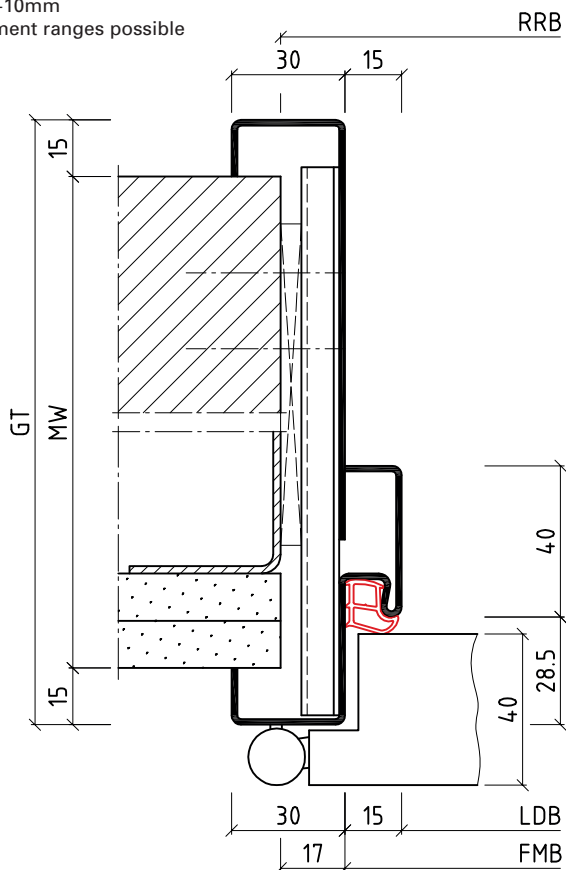
- Calculation basis
- For brick walls

Subject to technical change.  
The illustrations are not for static  
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### Adjustment area

From -10 to +10mm

Other adjustment ranges possible

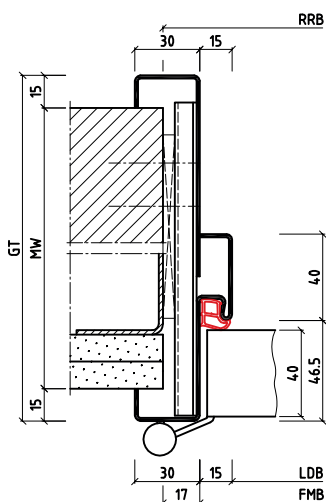


### Designation code

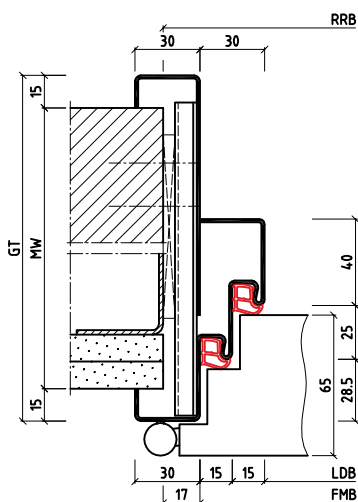
**wjAud**

### Product description

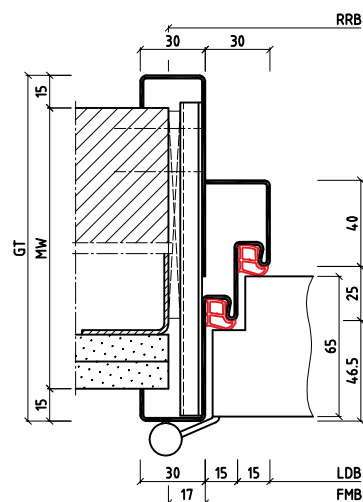
- Block frame with blind rebate (2 part split)
- For almost all wall types
- Illustration with trapeze anchor



**wjAsd**



**wjAuFd**



**wjAsFd**

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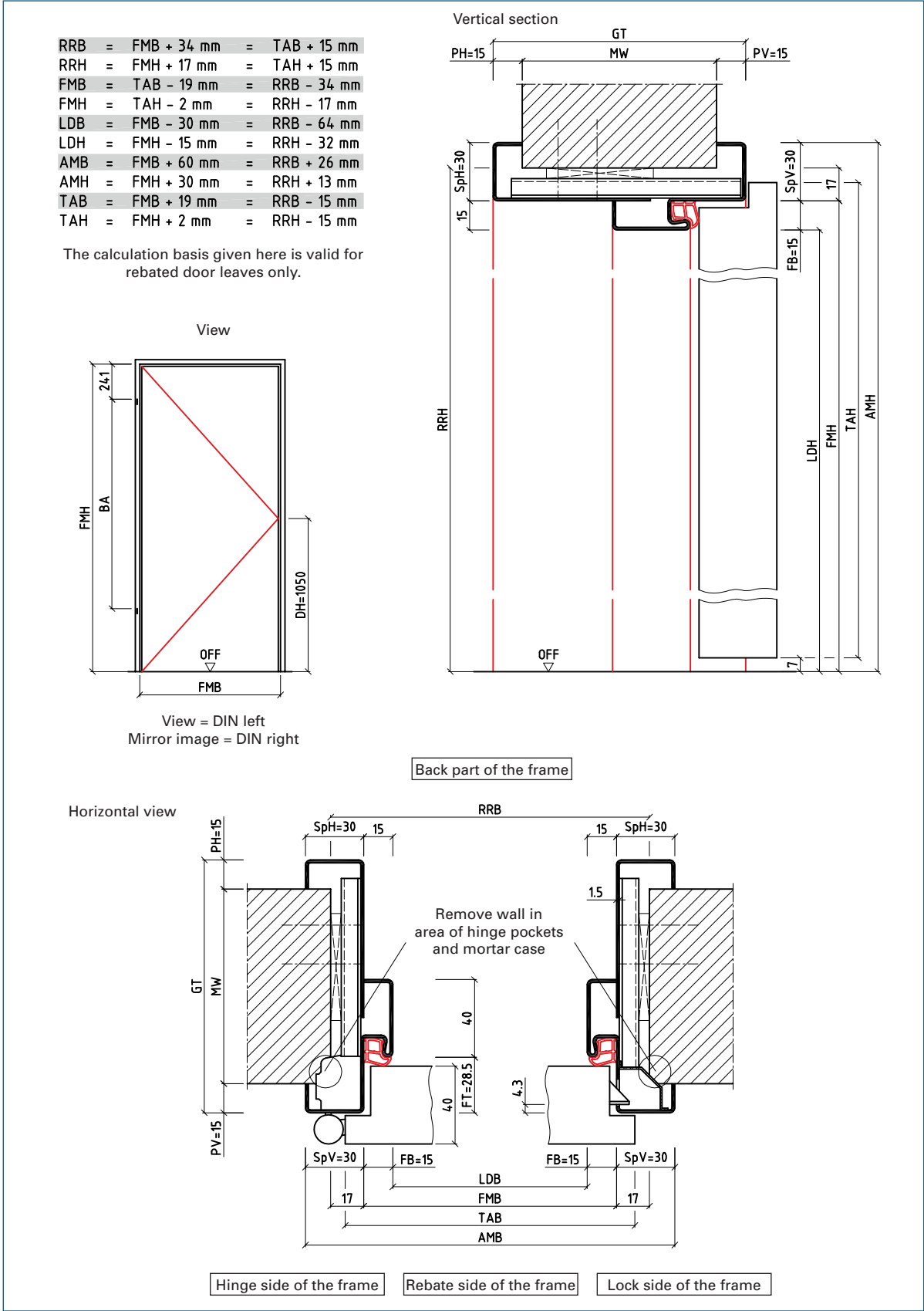
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Version 6.0

# 2 Part Split Steel Frames with Adjustment Area







Due to being in 3 or 6 parts, these ready-to-assemble frames lower the costs of transportation and storage.

Depending on the profile, installation can take place either subsequently or simultaneously with the door in finished rooms.

For use in renovation there is also a 2 part split design, where the front and back parts of the frame each have three separate parts, which are then simply joined together in the mitre before installation (thus 6 parts).

An efficient solution for every type of wall connection.



6

Contents	Page
<b>ECON®</b> Frames	80 - 82
<b>ECON®plus</b> Frames	83

#### BOS Sales Department:

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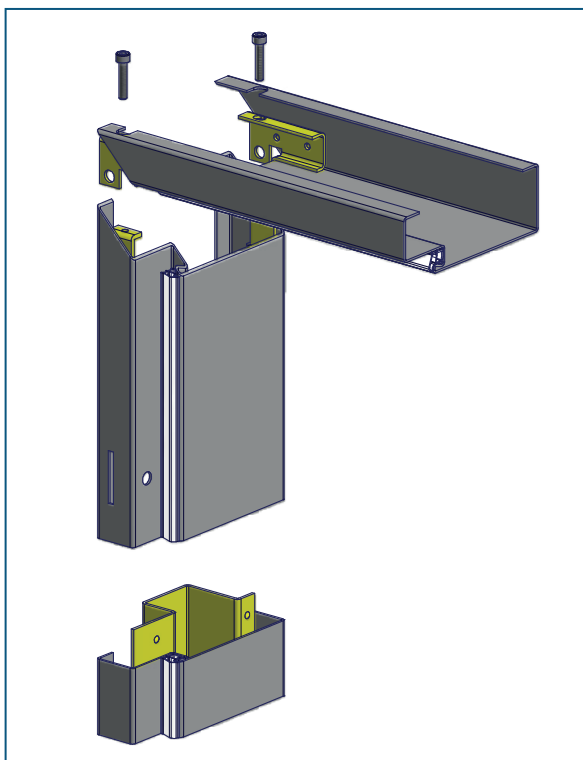
Version 6.0

#### Article

The **ECON<sup>®</sup>** is a 3 or 6 part frame with a special mitre joint, available in all current profile versions.

#### Your advantages

- The **ECON<sup>®</sup>** frame offers an optimal fitting accuracy for 3 or 6 part designs due to the connecting technique
- Anchor design according to profile version
- The non-assembled construction form is ideal for cost-effective delivery, e.g. per parcel service
- Economic storage

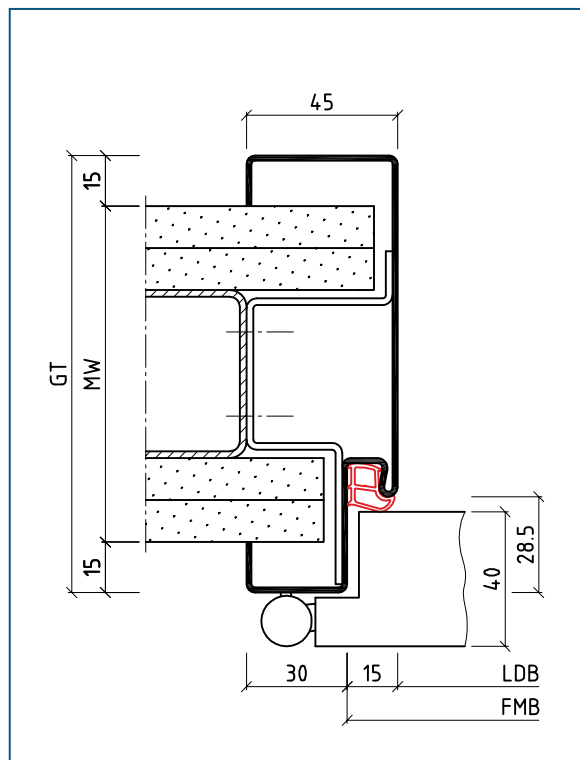


Designation  
code

**xBud / xBsd ECON<sup>®</sup>** (FT= 28,5 / 46,5)

Product  
description

- Block frame (3 part)
- For stud walls
- For installation together with the wall



Designation  
code

**xBud ECON<sup>®</sup>**

Product  
description

- Block frame (3 part)
- For stud walls
- Illustration with bracket anchor

#### BOS Sales Department:

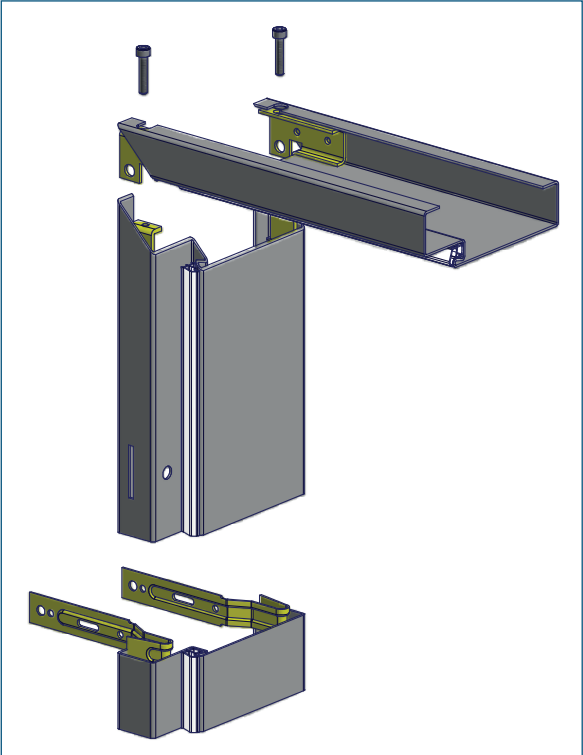
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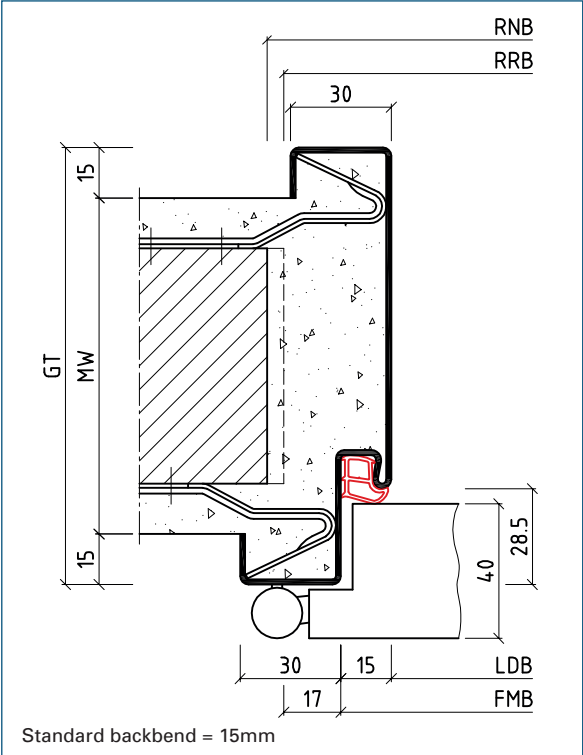
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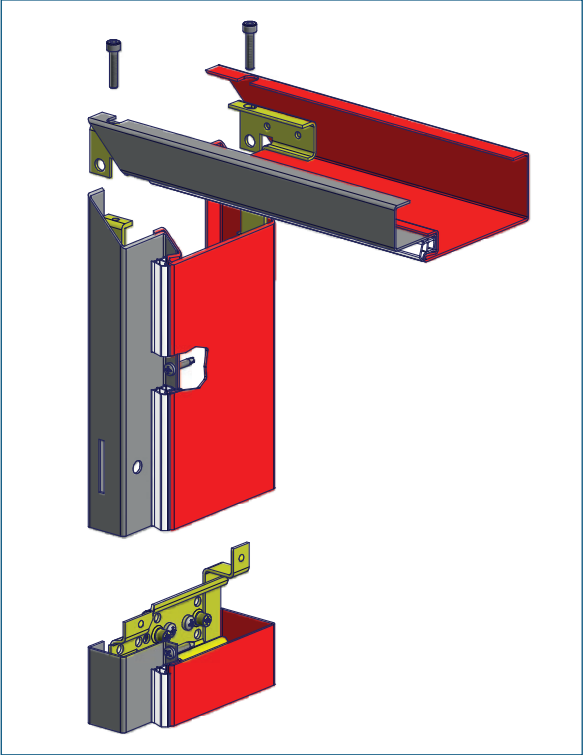
Version 6.0



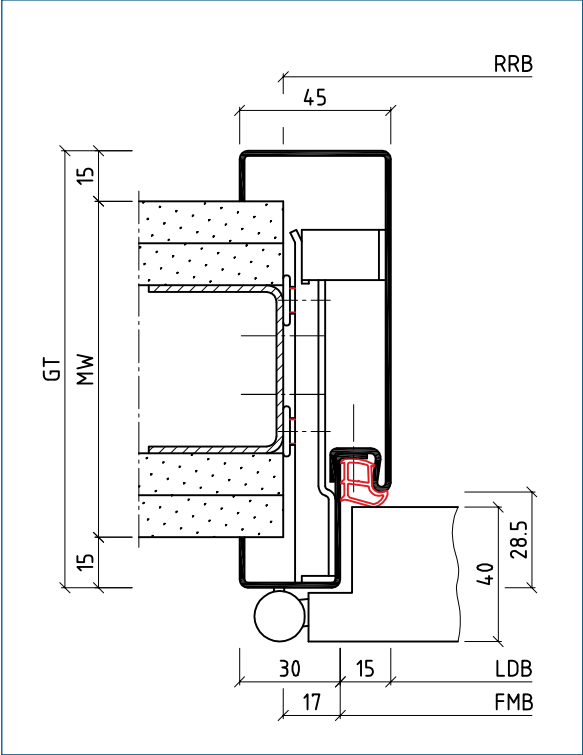
Designation code	<b>xUud / xUsd ECON<sup>3</sup></b> (FT= 28,5 / 46,5)
Product description	<ul style="list-style-type: none"><li>- Wrap around frame (3 part)</li><li>- For brick walls</li><li>- For subsequent back filling</li></ul>



Designation code	<b>xUud ECON<sup>3</sup></b>
Product description	<ul style="list-style-type: none"><li>- Wrap around frame (3 part)</li><li>- For brick walls</li><li>- Illustration with nail anchor</li></ul>



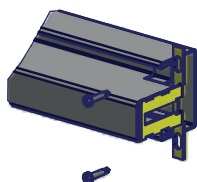
Designation code	<b>x15ZBud / x15ZBsd ECON<sup>3</sup></b> (FT= 28,5 / 46,5)
Product description	<ul style="list-style-type: none"><li>- Block frame (6 part)</li><li>- For almost all wall types</li><li>- For subsequent installation</li></ul>



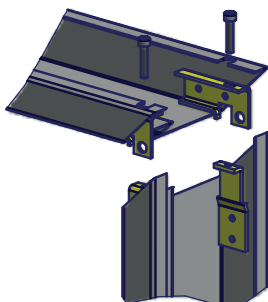
Designation code	<b>x15ZBud ECON<sup>3</sup></b>
Product description	<ul style="list-style-type: none"><li>- Block frame (6 part)</li><li>- For almost all wall types</li><li>- Illustration with levelling anchor</li></ul>

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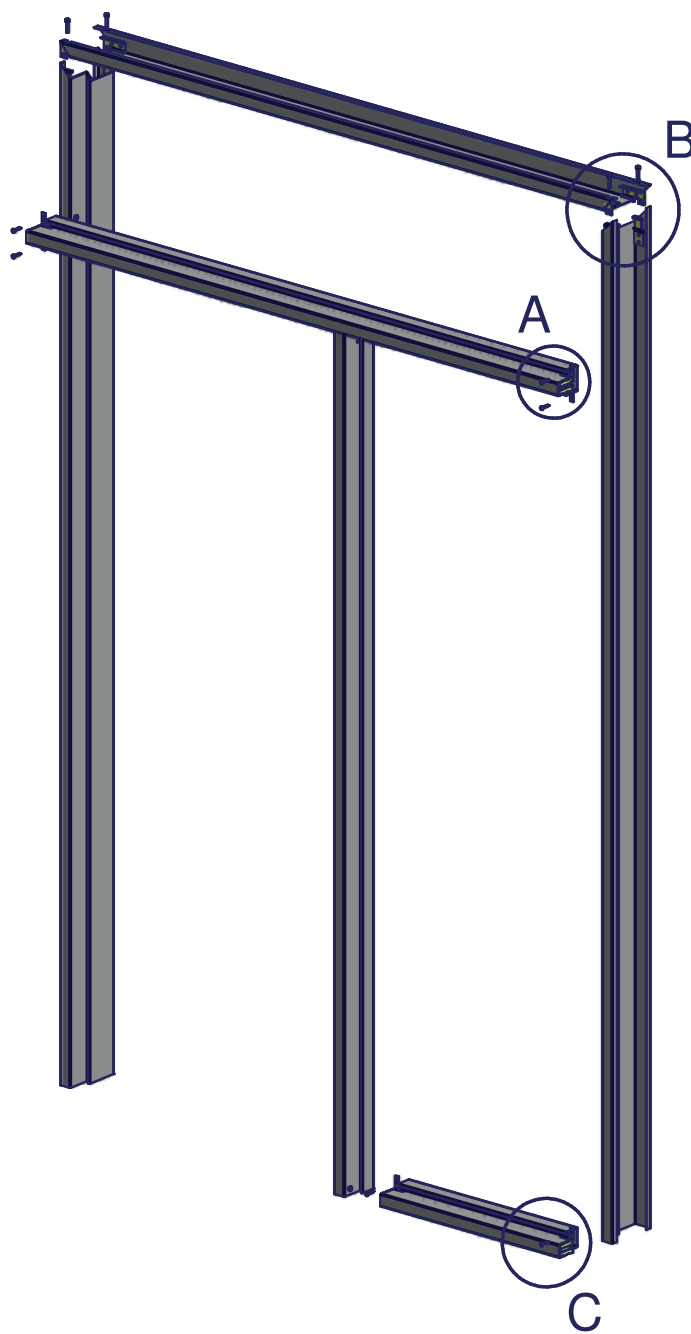
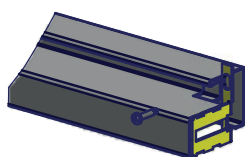
A ( 1 : 5 )



B ( 1 : 5 )



C ( 1 : 5 )



Designation code

**xBsd/KEsd ECON<sup>3</sup>**  
**xBud/KEud ECON<sup>3</sup>**

Product description

- Top-light/side part frame (non-assembled)
- For almost all wall types
- Other versions possible

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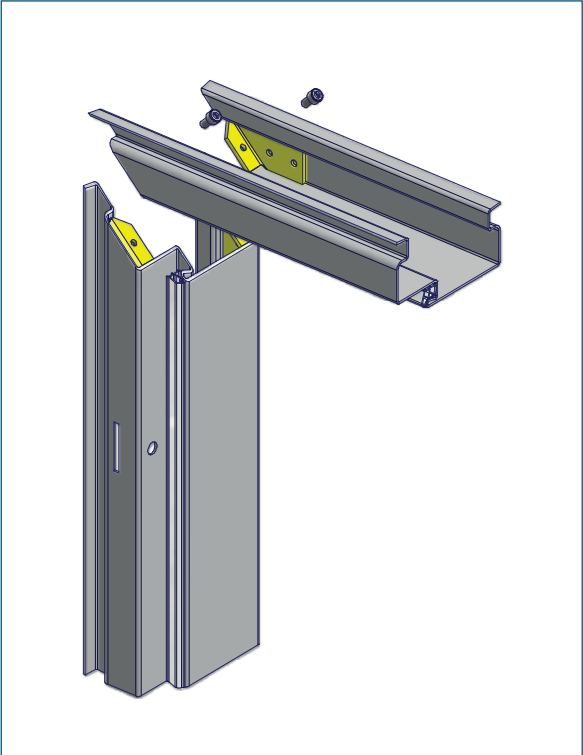
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**BOS Architect Consulting Service:**

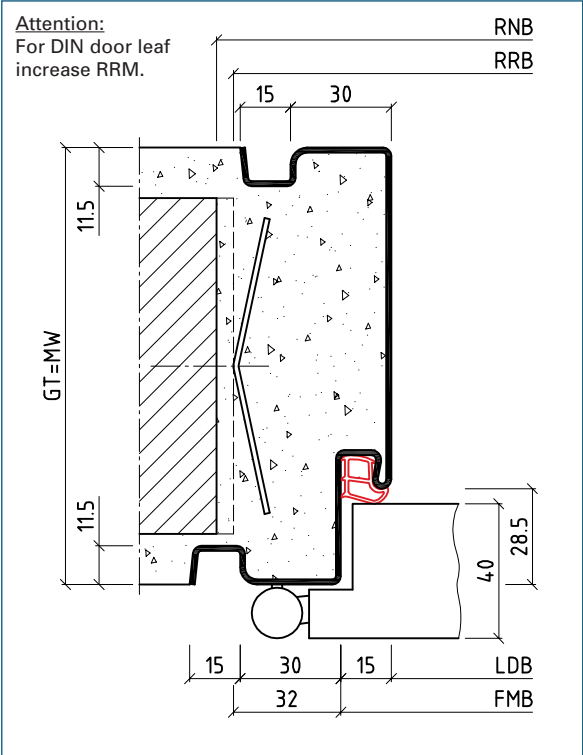
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E-Mail: [architekten@BestOfSteel.de](mailto:architekten@BestOfSteel.de)

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information.

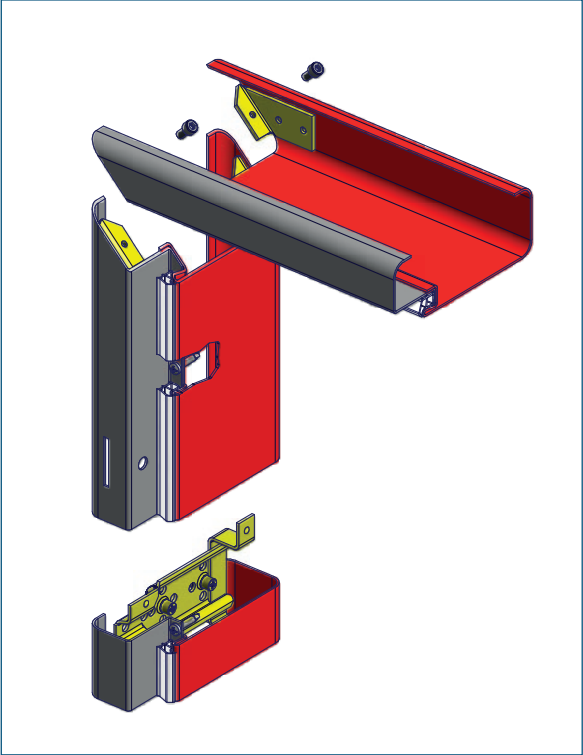
**Version 6.0**



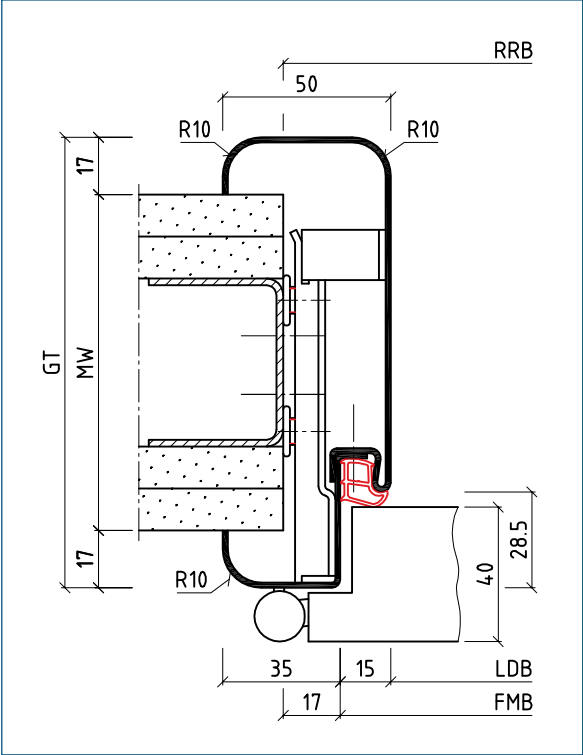
Designation code	<b>x15NzUud ECONplus</b>
Product description	<ul style="list-style-type: none"><li>- Shadow groove frame (3 part)</li><li>- For brick walls</li><li>- Flush with the wall</li></ul>



Designation code	<b>x15NzUud ECONplus</b>
Product description	<ul style="list-style-type: none"><li>- Shadow groove frame (3 part)</li><li>- For brick walls</li><li>- Illustration with propeller anchor</li></ul>



Designation code	<b>x1r15ZBud ECONplus</b>
Product description	<ul style="list-style-type: none"><li>- Round architrave frame (6 part)</li><li>- For almost all wall types</li><li>- For subsequent installation</li></ul>



Designation code	<b>x1r15ZBud ECONplus</b>
Product description	<ul style="list-style-type: none"><li>- Round architrave frame (6 part)</li><li>- For almost all wall types</li><li>- Illustration with levelling anchor</li></ul>

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BOS has many solutions on hand or special solutions can be worked out with the customer individually.

Non-standard frames are specifically produced according to customer requirements, even in single quantities. Profile forms, measurements and fittings are chosen according to the relevant requirements of the project.

BOS non-standard frames fulfill all demands in design, function and efficiency.



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### Article

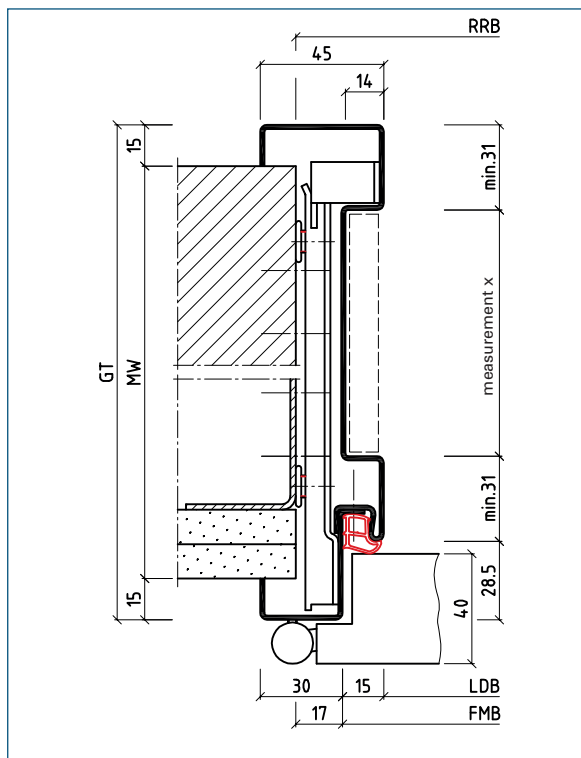
BOS ArtDeco frames are suitable for almost all wall types. With their wide range of possibilities they fit into every design concept.

### Your advantages

- The use of various inserts e.g. out of wood matching the door, out of granite matching the flooring or out of glass with LED light points is possible

### Our recommendations

- In order to keep the design character of ArtDeco frames, the width of the insert (measurement x) should be at least 60mm

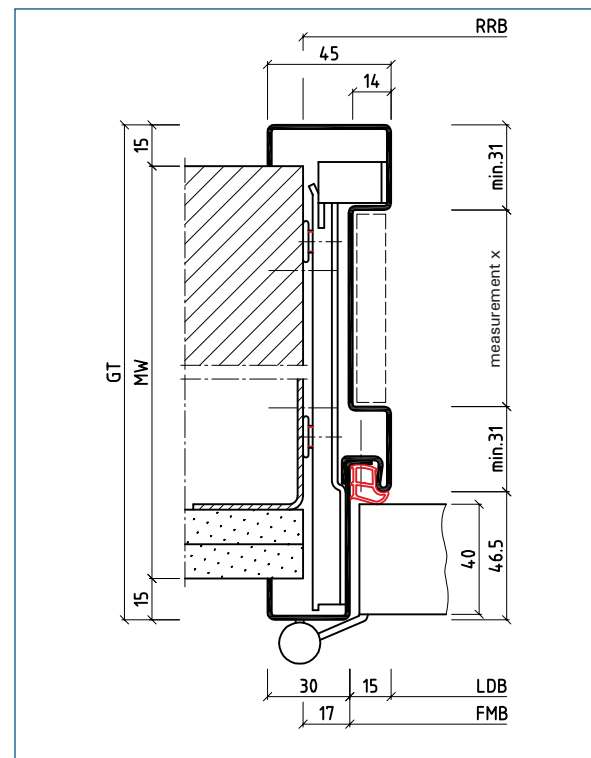


Designation  
code

**15ZaBud**

Product  
description

- ArtDeco frame (2 part split)
- For almost all wall types
- Illustration with levelling anchor



Designation  
code

**15ZaBsd**

Product  
description

- ArtDeco frame (2 part split)
- For almost all wall types
- Illustration with levelling anchor

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**Article**

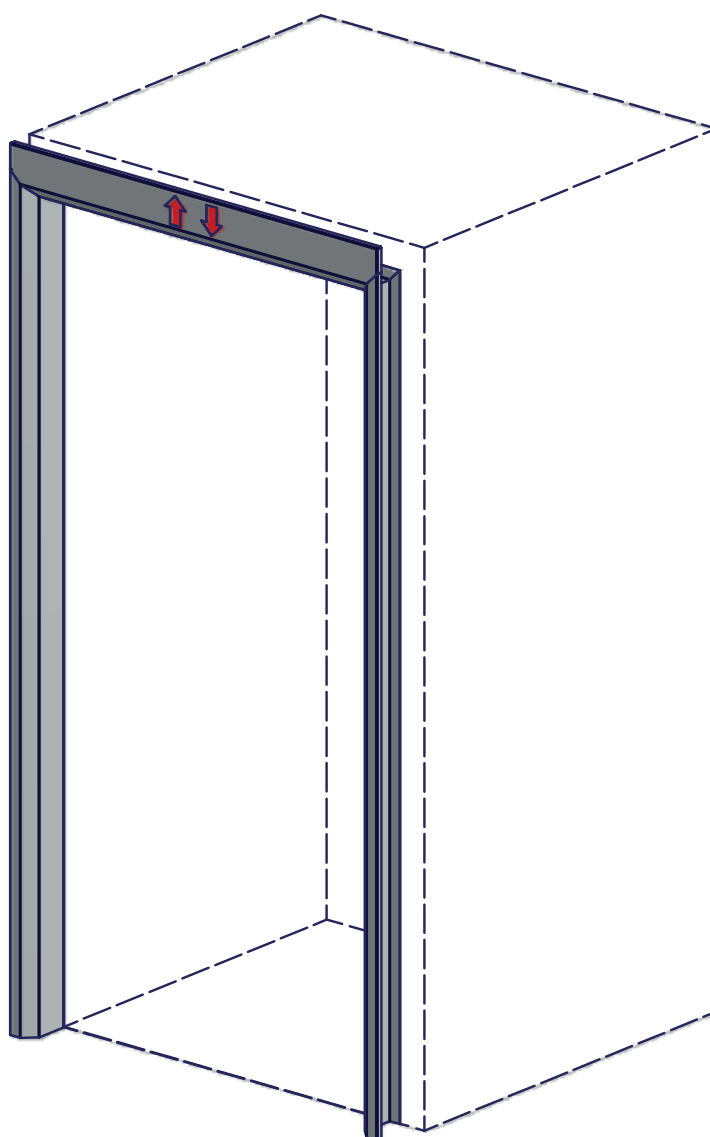
BOS elevator frames are manufactured in various designs according to your exact specifications.

**Your advantages**

- Accurately fitted, even for heights over 3000mm
- Provisions for electrical fittings as well as various cut-outs possible on request

**Our recommendations**

- Versions in stainless steel/inox 304 or 316ti

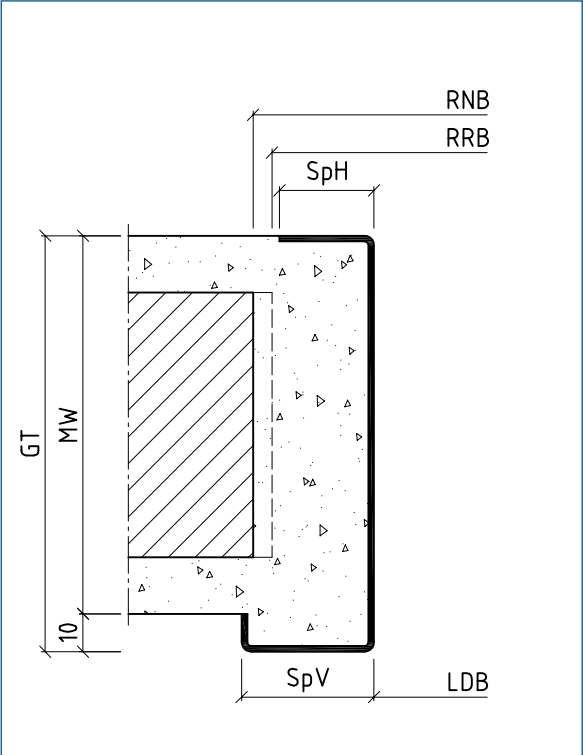
**BOS Sales Department:**

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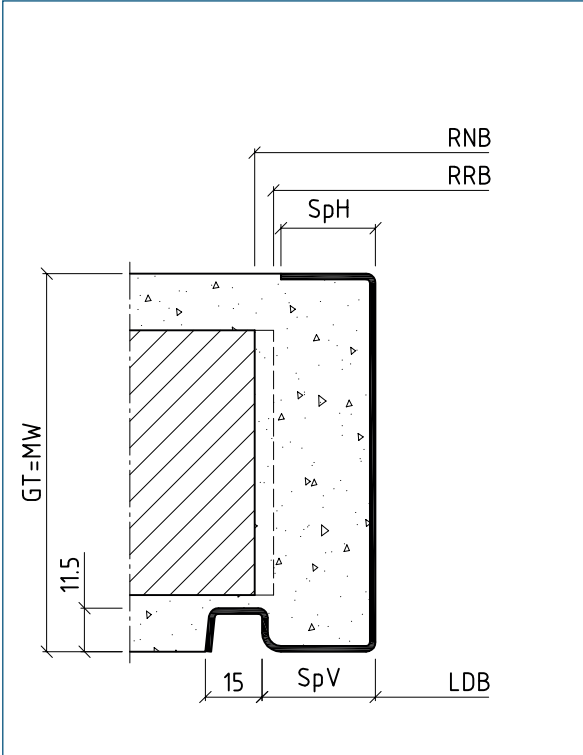
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Designation code **Gv**

Product description

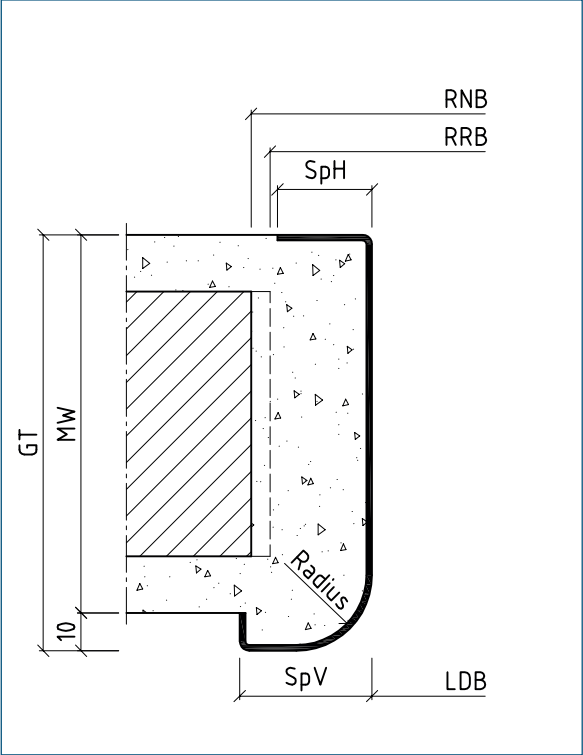
- Elevator frame (1 part)
- For brick walls
- Other measurements possible



Designation code **15NbGv**

Product description

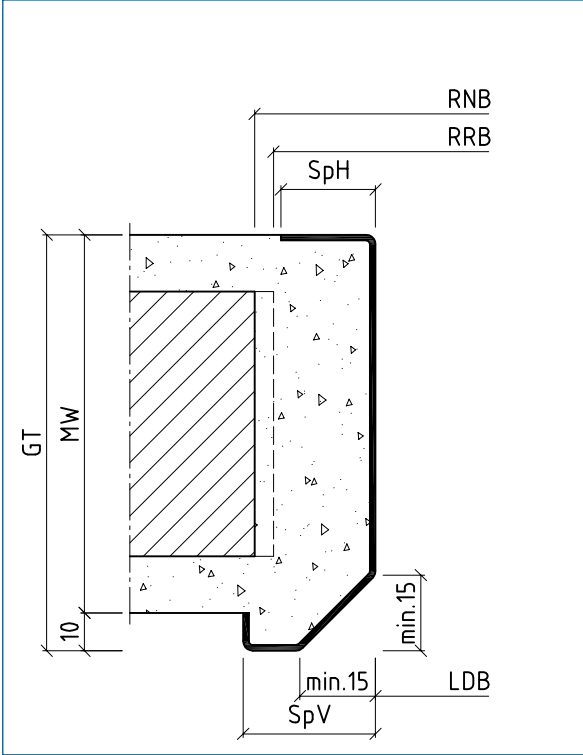
- Elevator frame with shadow groove (1 part)
- For brick walls
- Other measurements possible



Designation code **5rGv**

Product description

- Elevator frame with round architrave (1 part)
- For brick walls
- Other measurements possible



Designation code **cGv**

Product description

- Elevator frame with slanting soffit (1 part)
- For brick walls
- Other measurements possible

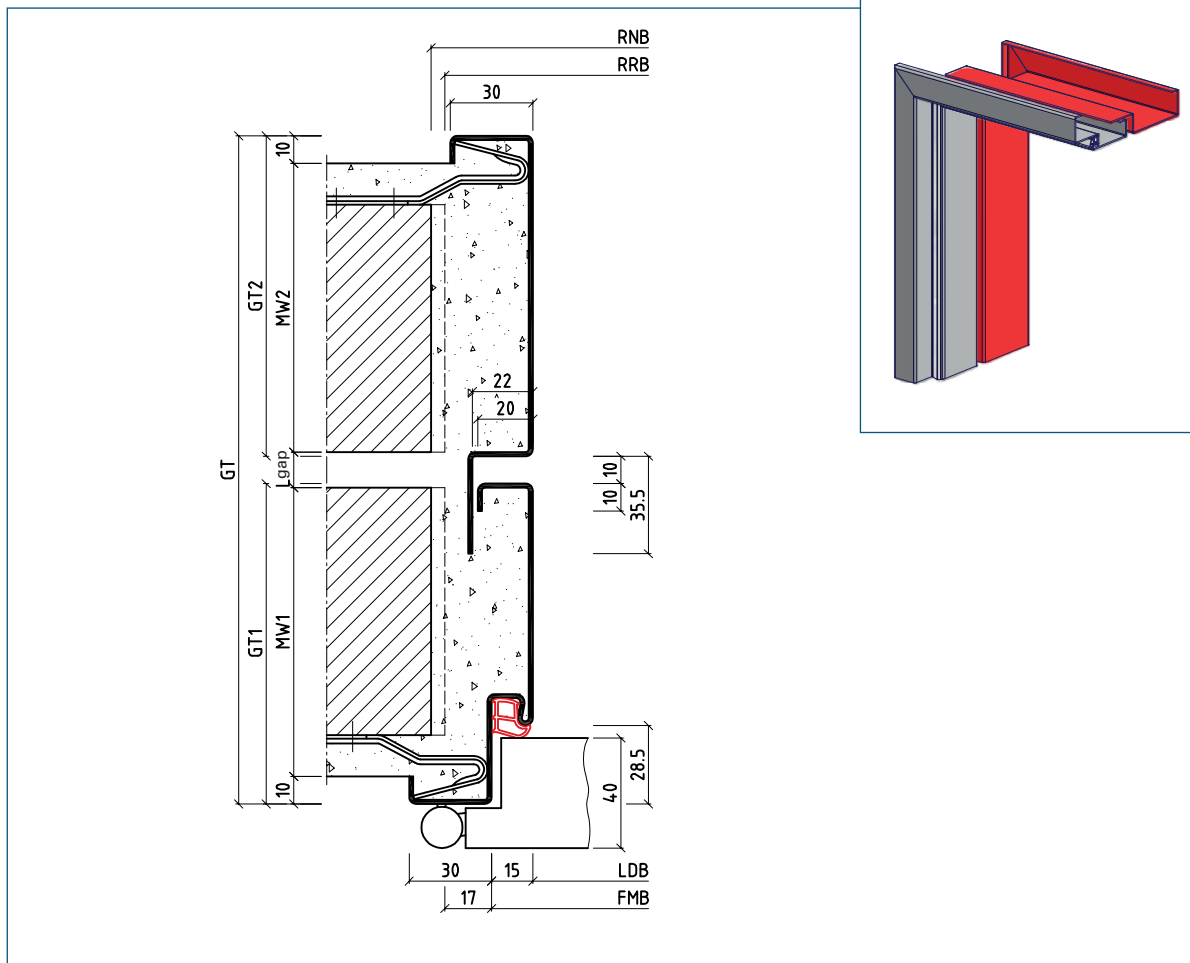
Subject to technical change.  
The illustrations are not for static information.



# Non-Standard Frames

## Expansion Joint Frames

Article	BOS expansion joint frames are suitable for use in buildings where two walls run parallel to each other (e.g. in extensions).
Your advantages	<ul style="list-style-type: none"><li>• Can be used for two walls of the same type (brick-brick or stud-stud) as well as for two walls of a different type (brick-stud).</li></ul>

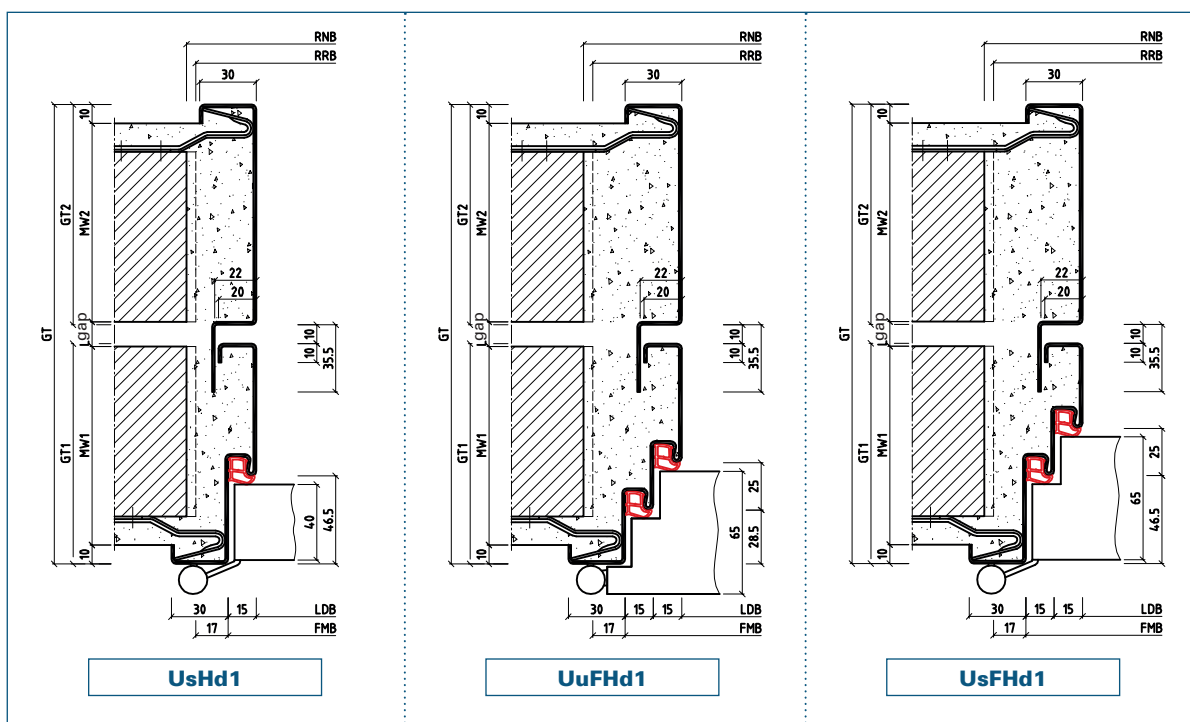


Designation code

**UuHd1**

Product description

- Expansion joint frame (2 part split)
- For brick walls
- Illustration with nail anchor



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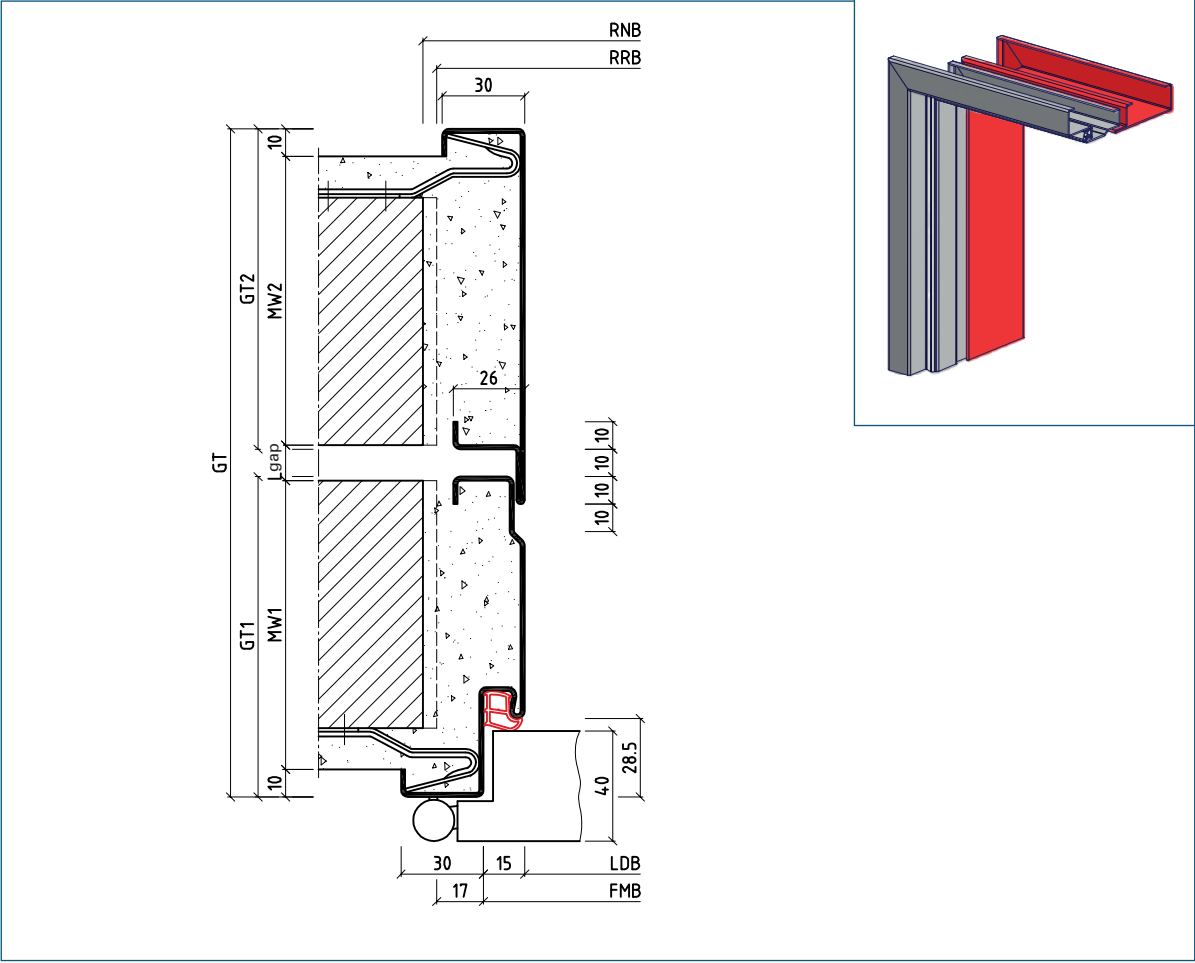
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# Non-Standard Frames

## Expansion Joint Frames

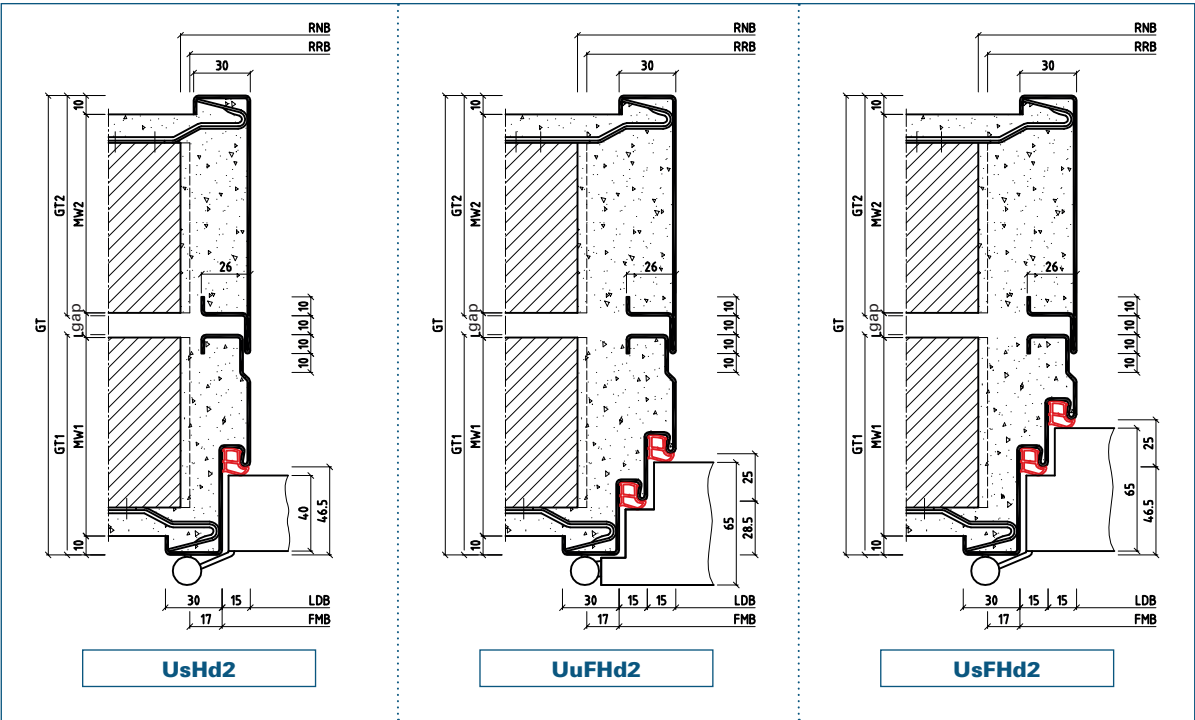


7

Designation code

Product description

<b>UuHd2</b>	<ul style="list-style-type: none"> <li>- Expansion joint frame (2 part split)</li> <li>- For brick walls</li> <li>- Illustration with nail anchor</li> </ul>
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**Article**

BOS Duplex frames are used to serve two rooms with just one door. They are suitable for stud walls and installation together with the wall. They can only be used in combination with the hinge Simonswerk VX 7700 ER.

**Your advantages**

- The door leaf can be closed in two directions
- An economical and innovative idea, e.g. to separate WC and bathrooms in hotels
- Two frames - one door

**Our recommendations**

- Use a magnetic sash lock
- In order to operate the clamping screws in the hinge pocket, an allen key with spherical head is needed

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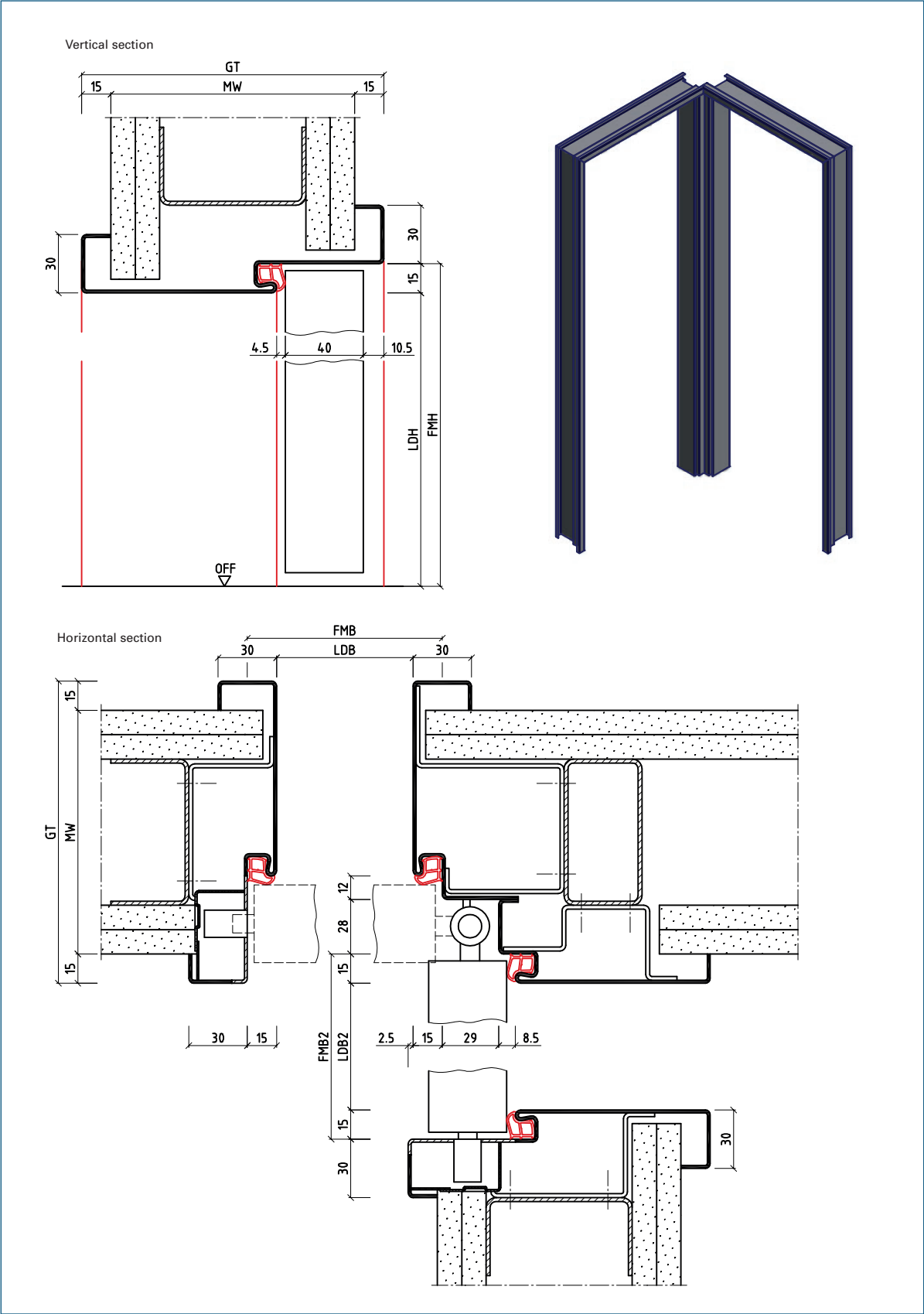
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**Version 6.0**

# Non-Standard Frames

## Duplex Frames



Designation code

**Usd/QUsd/Usd**

Product description

- Duplex frame (1 part)
- For stud walls

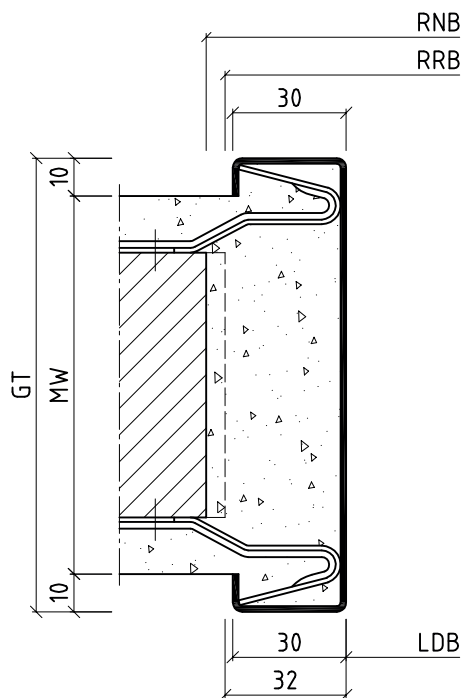
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The illustrations are not for static  
information.



# Non-Standard Frames

## Passage and Counter Frames

Article	BOS passage and counter frames offer effective protection for wall terminations and are suitable for almost all wall types.
Your advantages	<ul style="list-style-type: none"><li>• Unusual forms such as round arches, with shadow grooves or with slanting headpieces (e.g. for attic conversions) are possible.</li><li>• Also available as a 2 part split frame</li></ul>
Our recommendations	<ul style="list-style-type: none"><li>• Pay attention to the installation measurements, as those of a passage frame differ to those of a standard frame</li></ul>

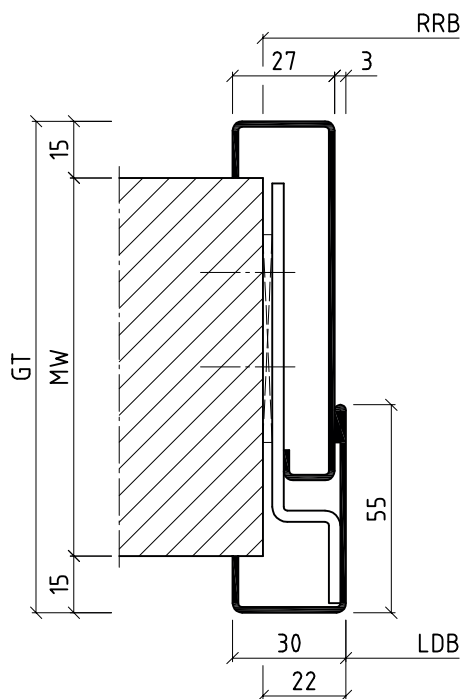


### Designation code

**D**

### Product description

- Passage frame (1 part)
- For brick walls
- Illustration with nail anchor

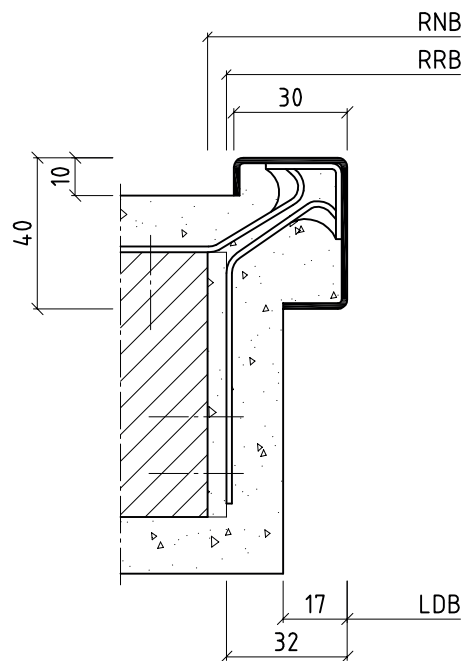


### Designation code

**wkD**

### Product description

- Passage frame (2 part split)
- For brick walls
- Illustration with flat steel anchor



### Designation code

**G**

### Product description

- Counter frame (1 part)
- For brick walls
- Illustration with corner frame nail anchor

### BOS Sales Department:

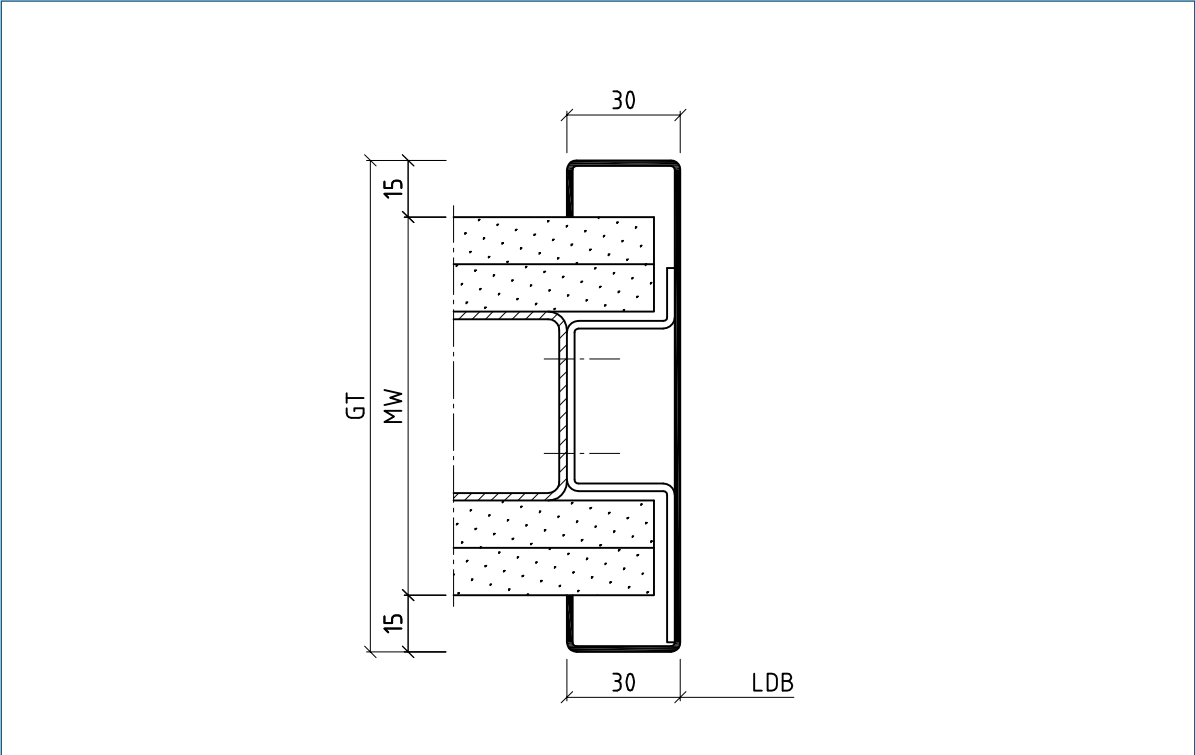
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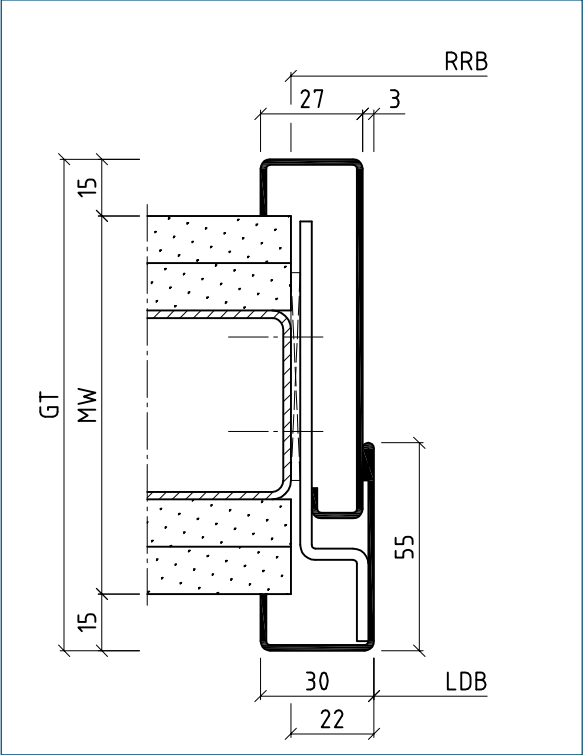


Designation code

**D**

Product description

- Passage frame (1 part)
- For stud walls
- Illustration with bracket anchor

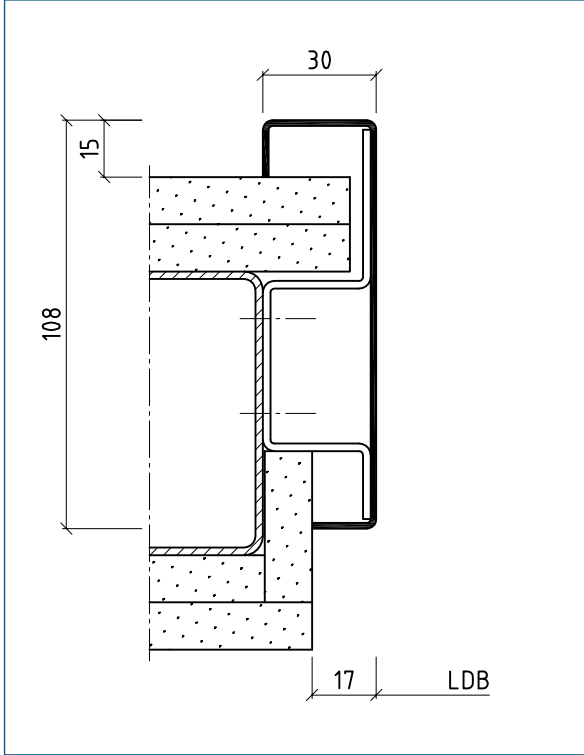


Designation code

**wkD**

Product description

- Passage frame (2 part split)
- For stud walls
- Illustration with flat steel anchor



Designation code

**G**

Product description

- Counter frame (1 part)
- For stud walls
- Illustration with bracket anchor

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The illustrations are not for static information.





## Soffit Frames Planar (Sports Hall Frames) / Soffit Frames

### Article

The **BOS Planar soffit frames** are constructed so that the door and frame are flush with the corridor wall - even when the door opens into the room.

The **BOS Planar soffit frame as sports hall frame** is constructed so that the door closes flush with the wall inside the hall but the door opens outwards.

The **BOS soffit frames** are constructed so that the door opens outwards and not into the room.

### Your advantages

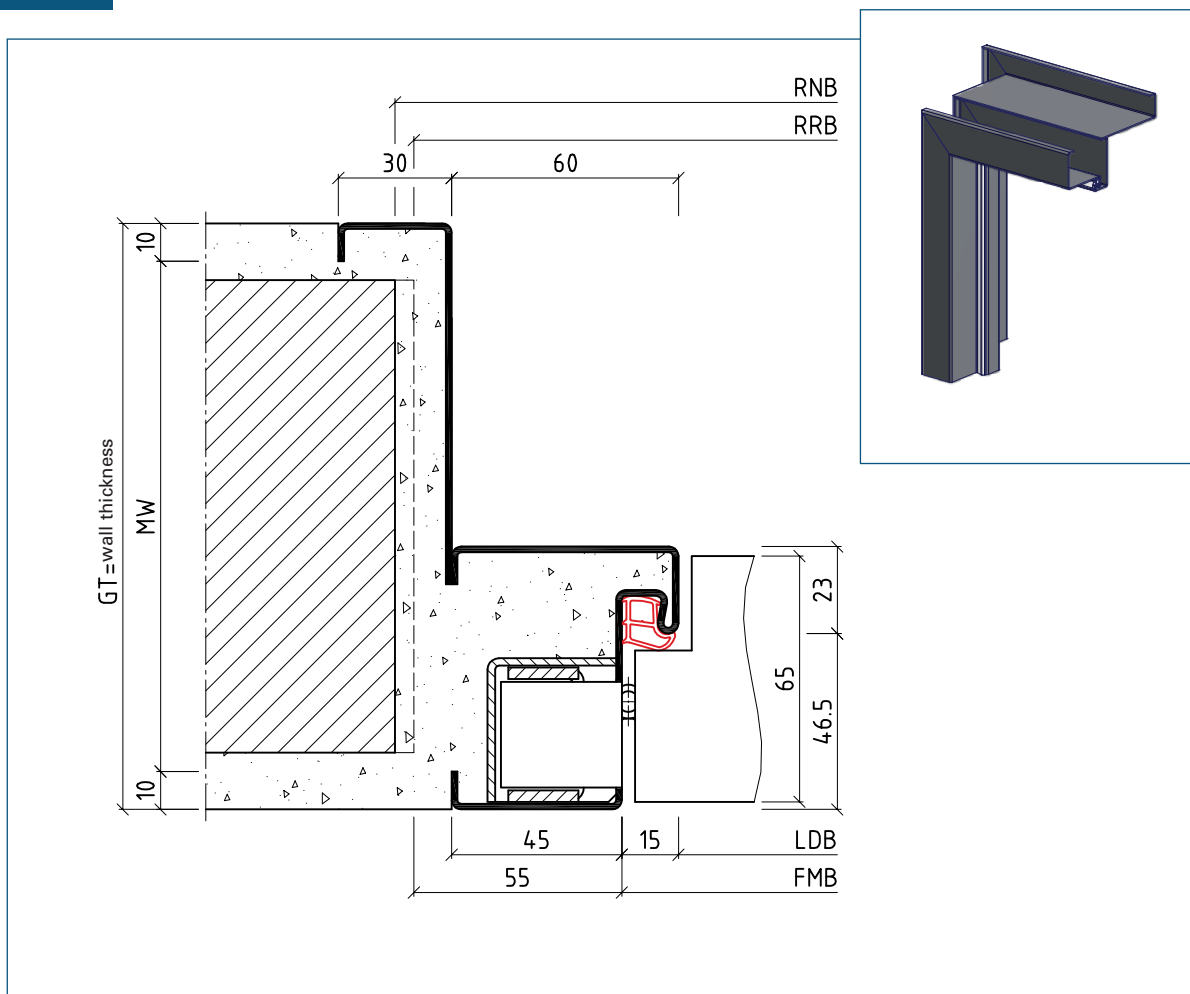
- In long corridors (offices or hospitals) with differing door opening directions a uniform and serene appearance can be achieved using the soffit frame Planar.
- When used in sports halls the risk of injury is reduced due to the special construction of the Planar soffit frame (sports hall frame) and the flush termination with the wall.

### Our recommendations

- Use a door stop so that the door does not hit the frame or wall when being opened
- 3D hinge pockets and 2mm sheet thickness for more safety and stability

7





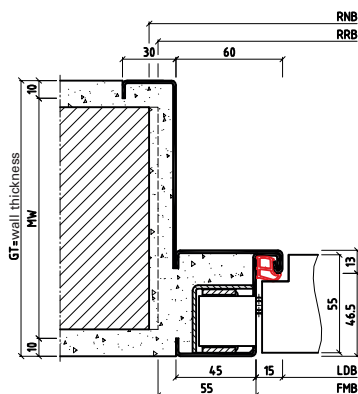
### Designation code

**QTU<sub>sd</sub>**

### Product description

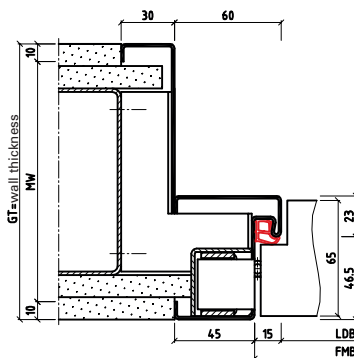
- Soffit frame Planar (1 part)
- For brick walls
- Illustration with concealed hinge

**Attention:**  
Only in 1.5mm material thickness.

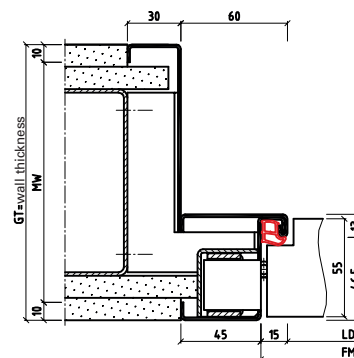


**QTU<sub>sd</sub>** (for brick walls)

**Attention:**  
Only in 1.5mm material thickness.



**QTU<sub>sd</sub>** (for stud walls)



**QTU<sub>sd</sub>** (for stud walls)

### BOS Sales Department:

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### BOS Architect Consulting Service:

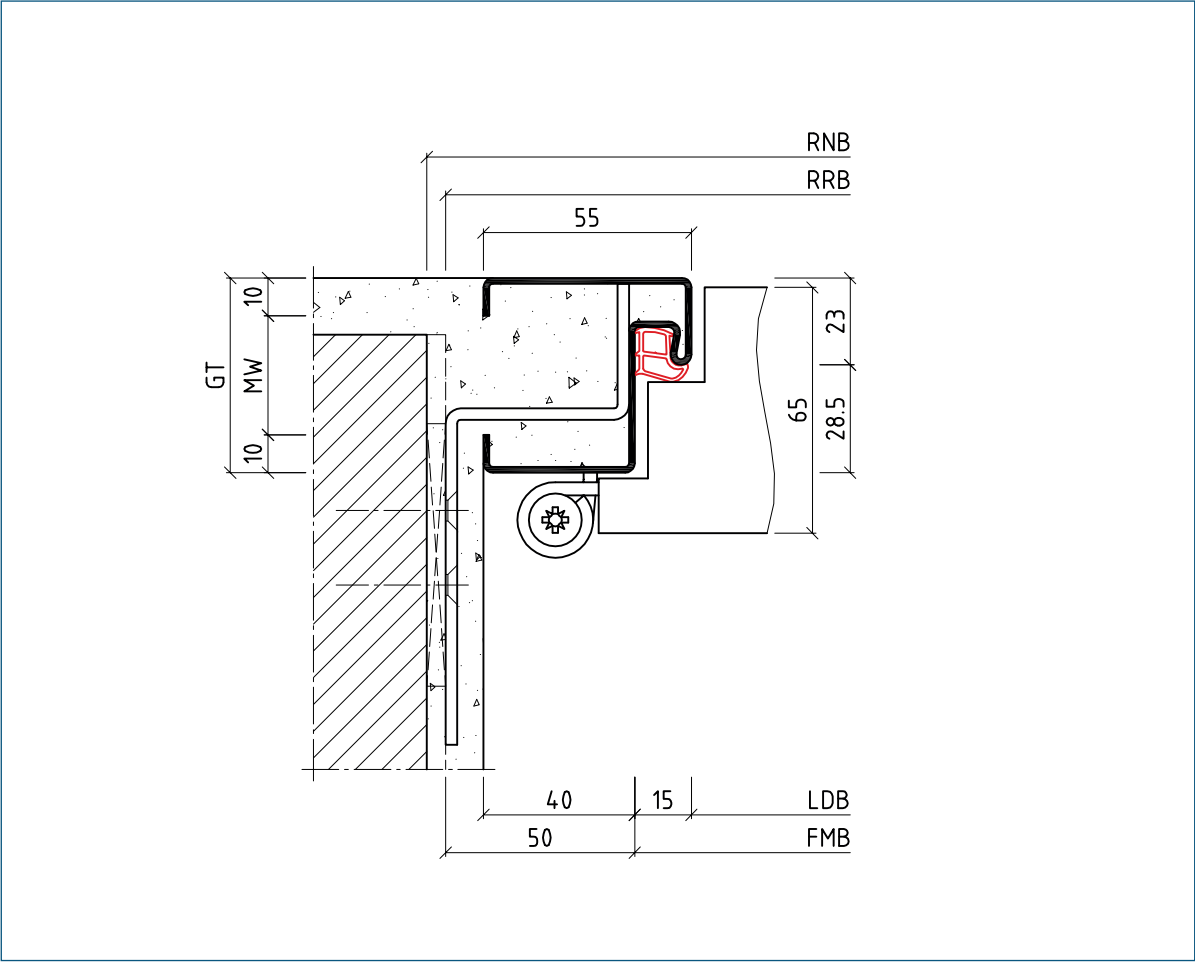
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Fax: +49 2572 203-209  
E-Mail: [architekten@BestOfSteel.de](mailto:architekten@BestOfSteel.de)

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# Non-Standard Frames

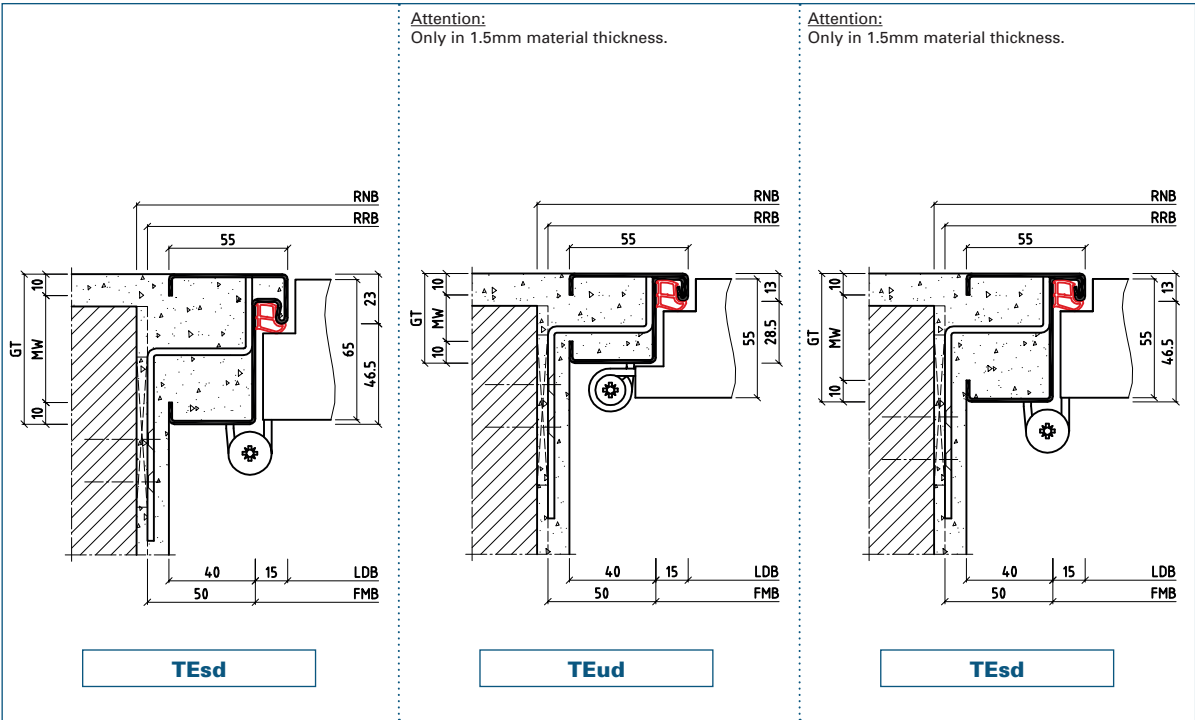
## Soffit Frames Planar (Sports Hall Frames)



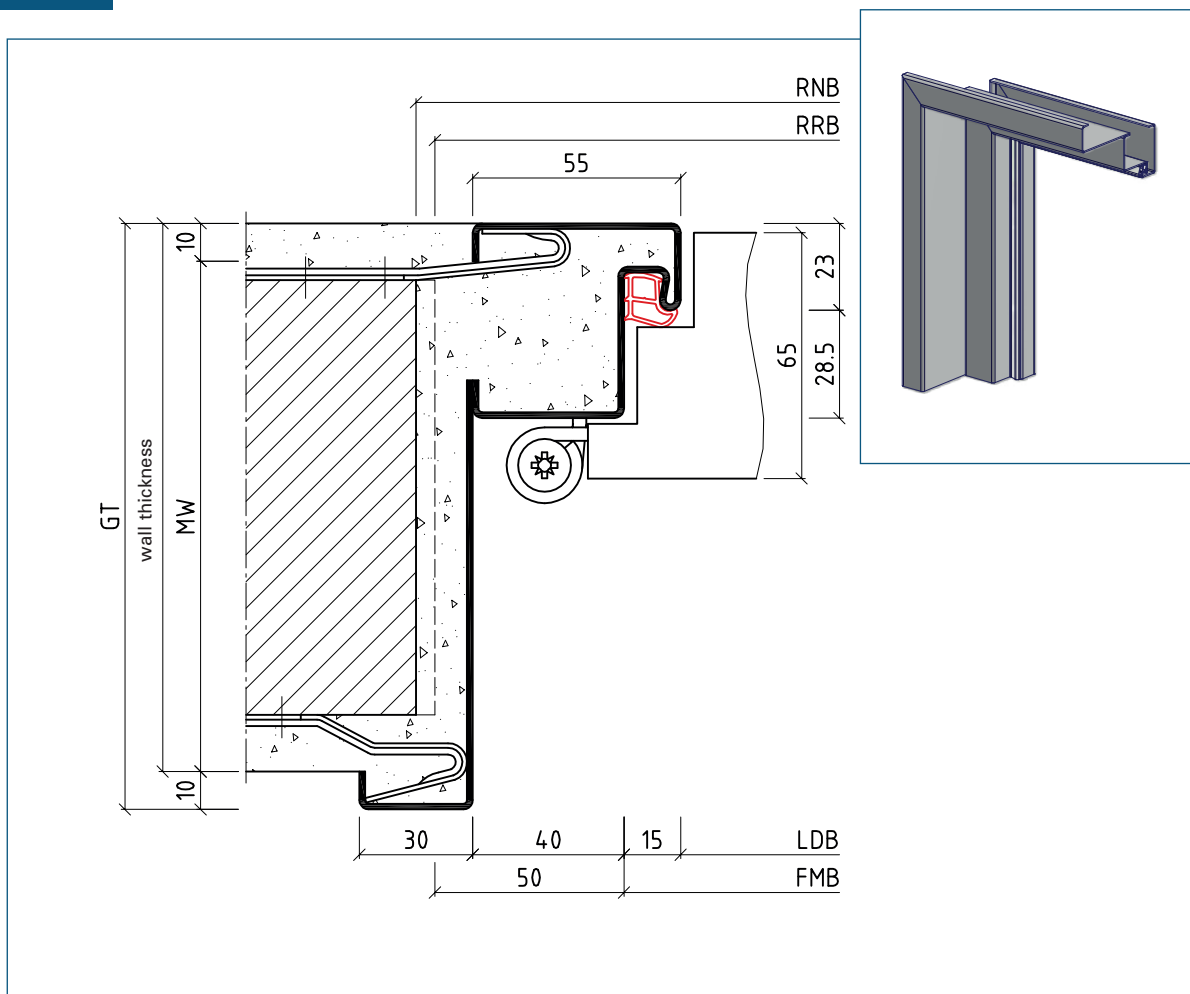
Designation code

Product description

<b>TEud</b>	<ul style="list-style-type: none"><li>- Soffit frame Planar (sports hall frame) (1 part)</li><li>- For brick walls</li><li>- Illustration with flat steel anchor</li></ul>
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The illustrations are not for static information.

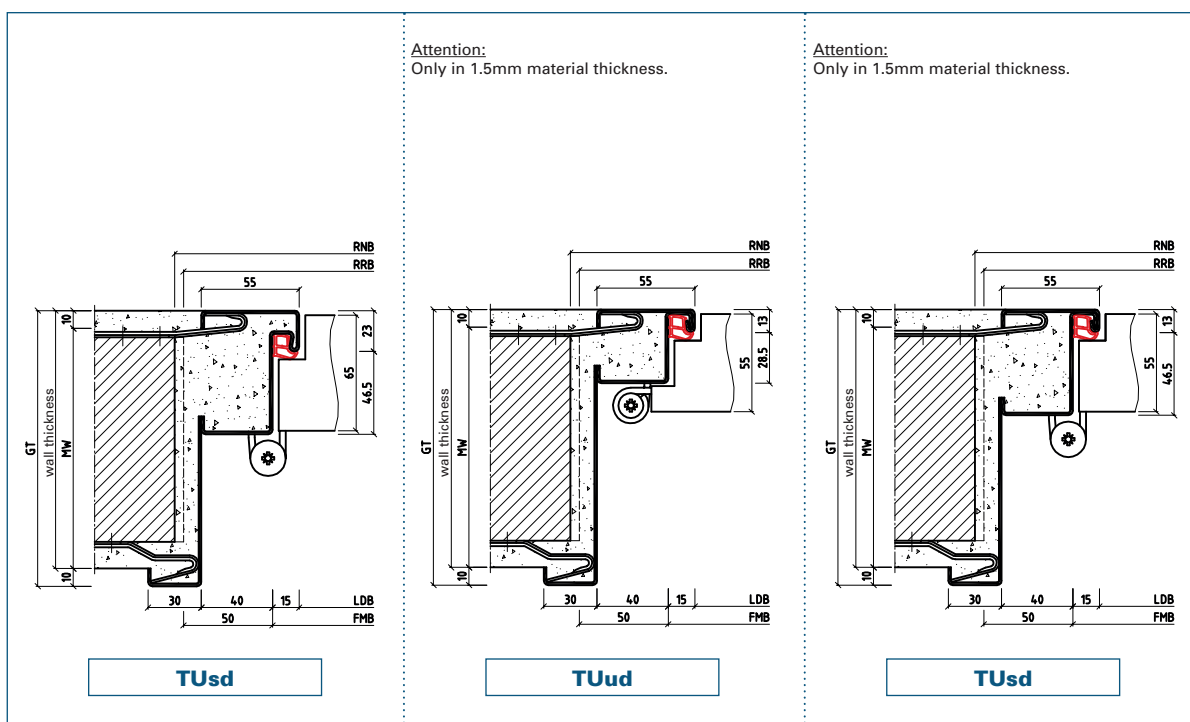


### Designation code

**TUud**

### Product description

- Soffit frame Planar (sports hall frame) (1 part)
- For brick walls
- Illustration with nail anchor



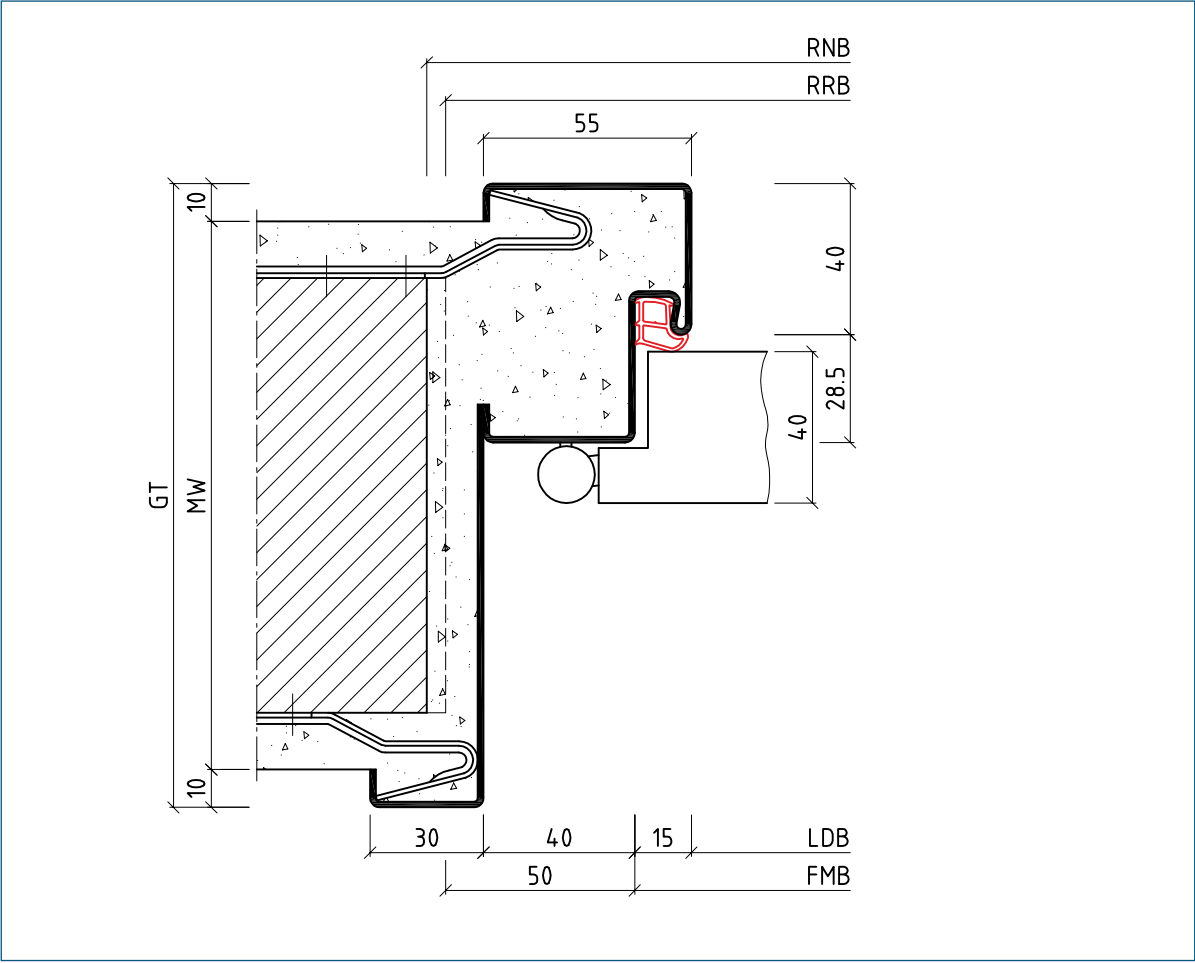
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E-Mail: architekten@BestOfSteel.de

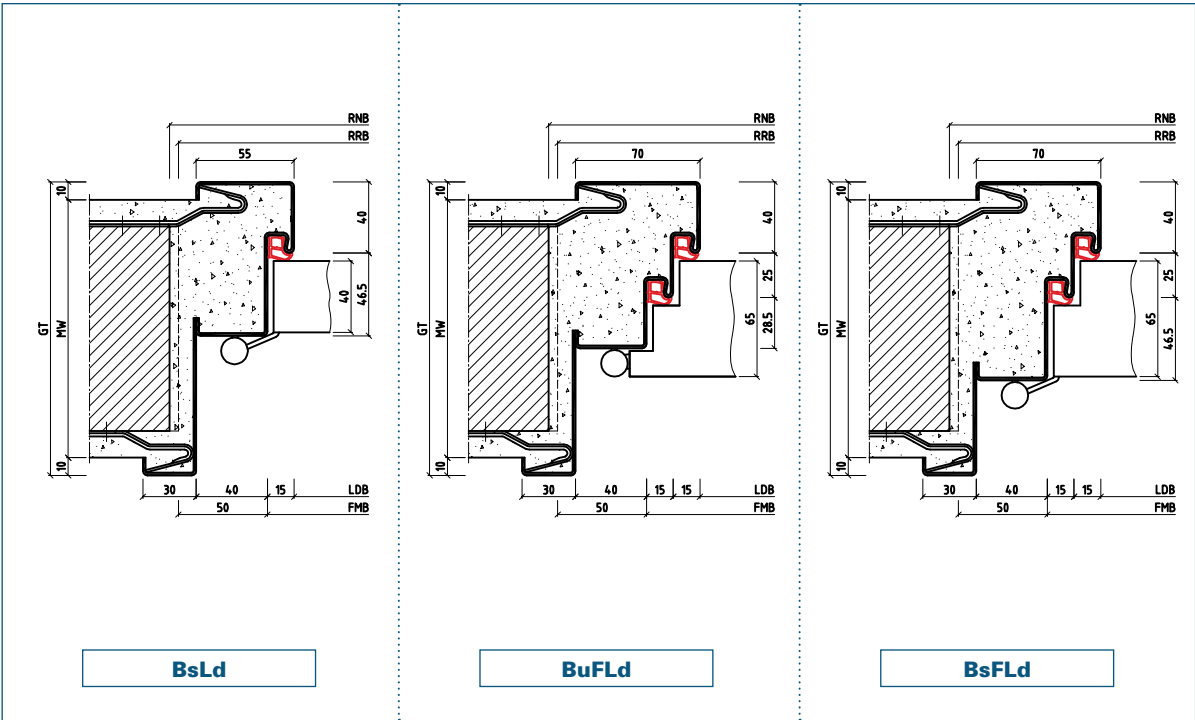
Subject to technical change.  
The illustrations are not for static information.



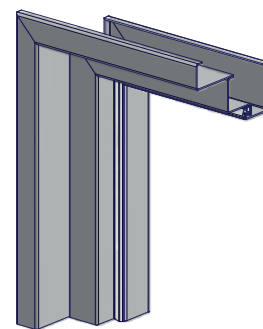
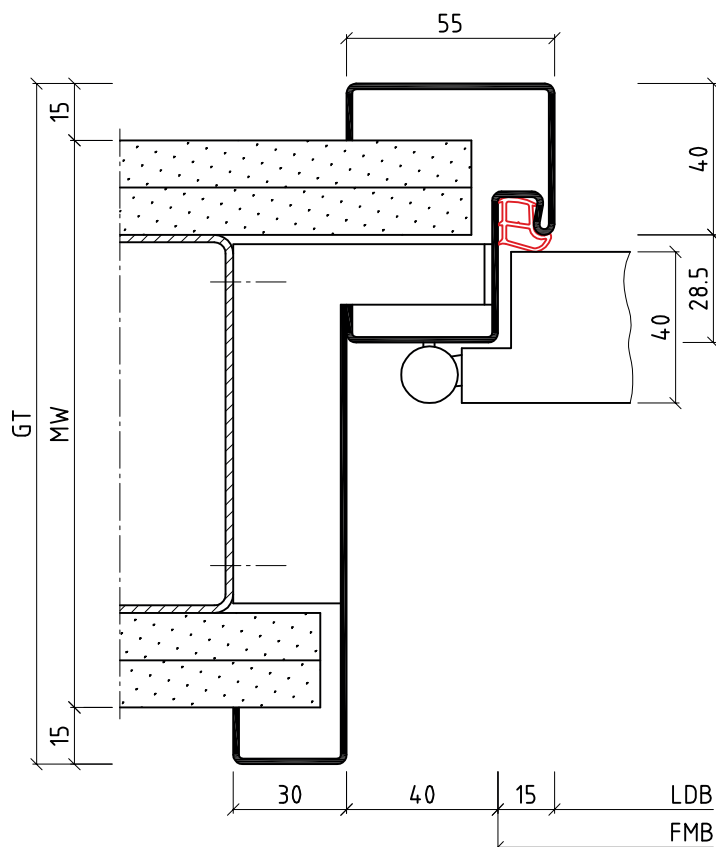
Designation code

Product description

<b>BuLd</b>	<ul style="list-style-type: none"><li>- Soffit frame (1 part)</li><li>- For brick walls</li><li>- Illustration with nail anchor</li></ul>
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information.

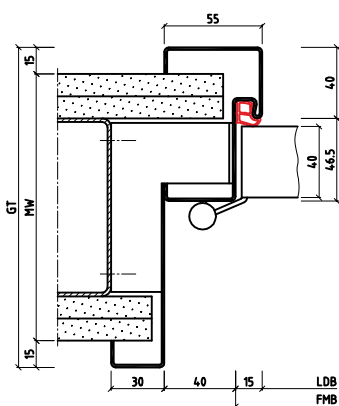


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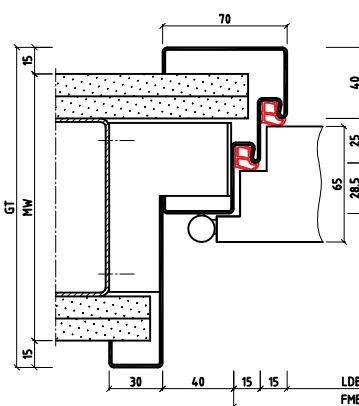
**BuLd**

### Product description

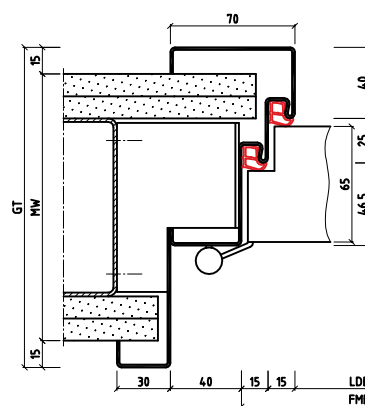
- Soffit frame (1 part)
- For stud walls
- Illustration with special bracket anchor



**BsLd**



**BuFLd**



**BsFLd**

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- 
- Article** BOS double acting door frames are suitable for use in brick and stud walls.
- Your advantages**
- With special hinges also suitable for all-glass doors
  - The door can be opened in both directions
  - Provision for a rolling latch possible
  - Delivery includes double acting door hinges
- Our recommendations**
- For 2 leaf double acting door frames a 15mm air gap is necessary between the two door leaves (take the door leaf calculation into account)
  - Use double acting door hinges appropriate for the door weights

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**BOS Architect Consulting Service:**

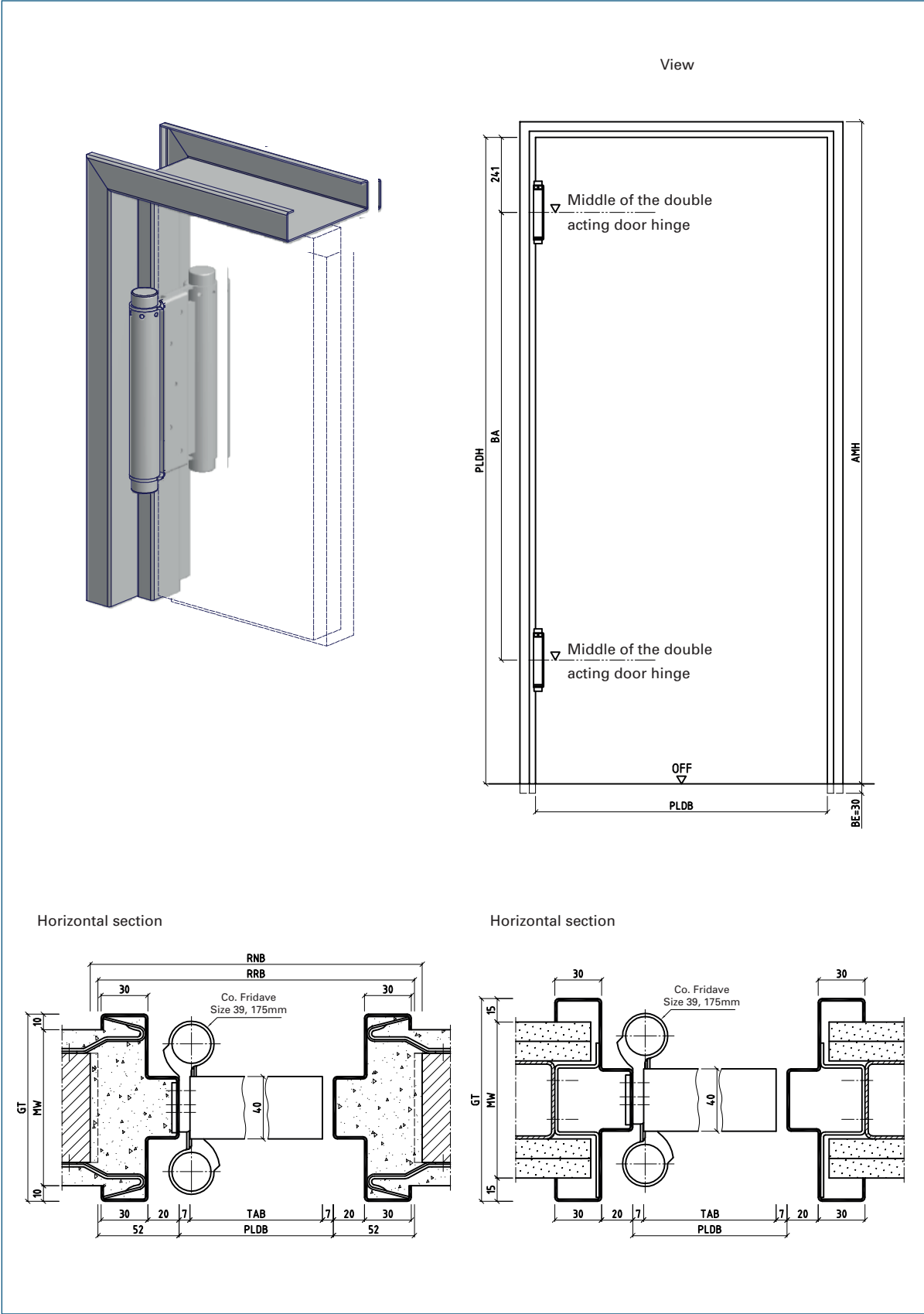
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# Non-Standard Frames

## Double Acting Door Frames



Designation code

**Pe**

Product description

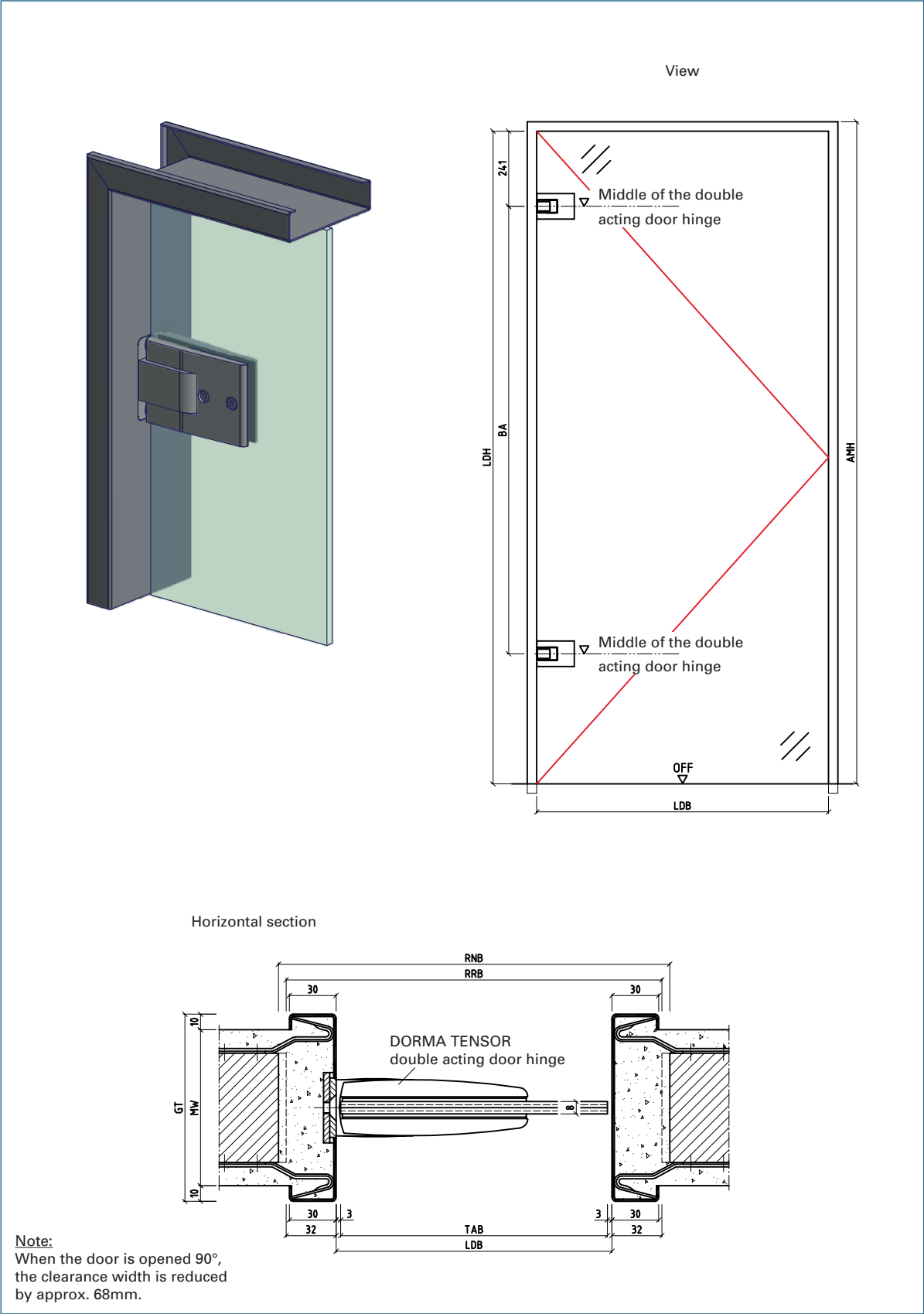
- Double acting door frame (1 part)
- For brick or stud walls
- Other measurements possible

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# Non-Standard Frames

## Double Acting Door Frames



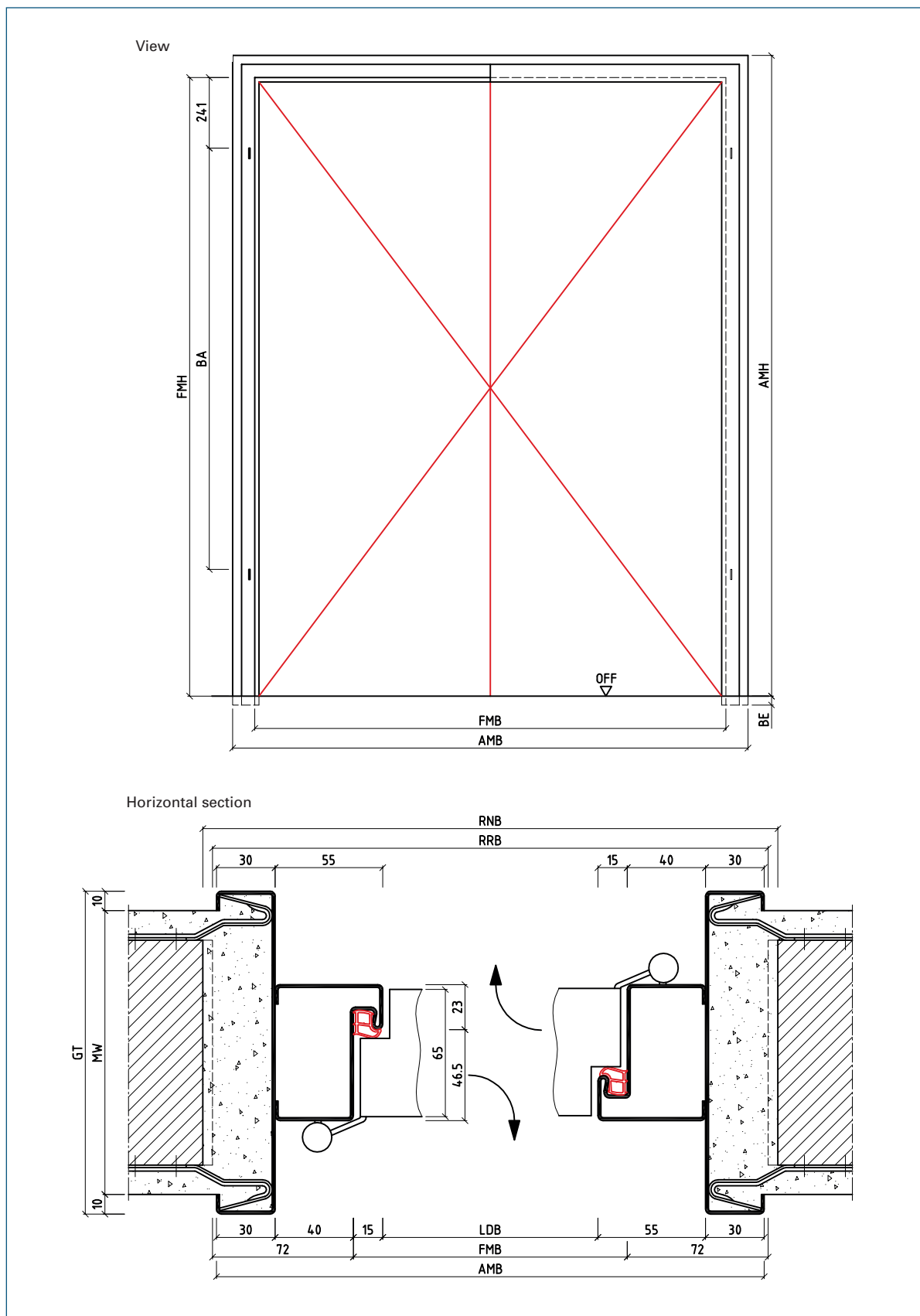
Designation code

**D**

Product description

- Double acting door frame (1 part)
- For brick walls
- Other measurements possible

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information.



### Designation code

**DBsd**

### Product description

- Waiter door frame (1 part)
- For brick walls
- Other measurements possible

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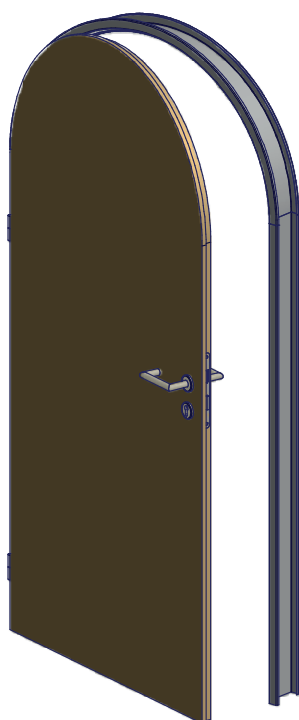
### Article

**BOS round arch frames** are particularly decorative frames and suitable for almost all wall types. Segmental arch designs are also possible.

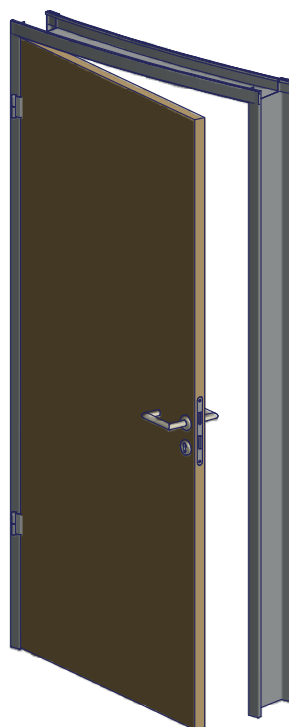
**BOS frames for curved walls** can be optimally fitted to the run of the wall with convex headpieces or cut out backbends.

### Our recommendations

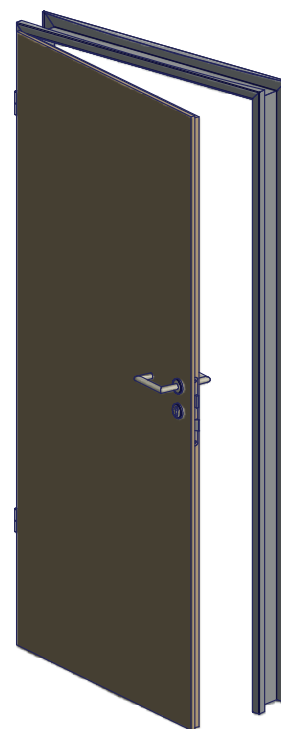
- Exact measurements are required when ordering
- A template may be necessary for the manufacture of the frames



Round arch frame



Frame with architrave fitted to curved wall



Frame with backbend fitted to curved wall

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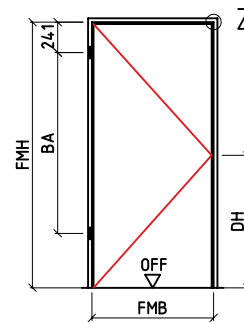
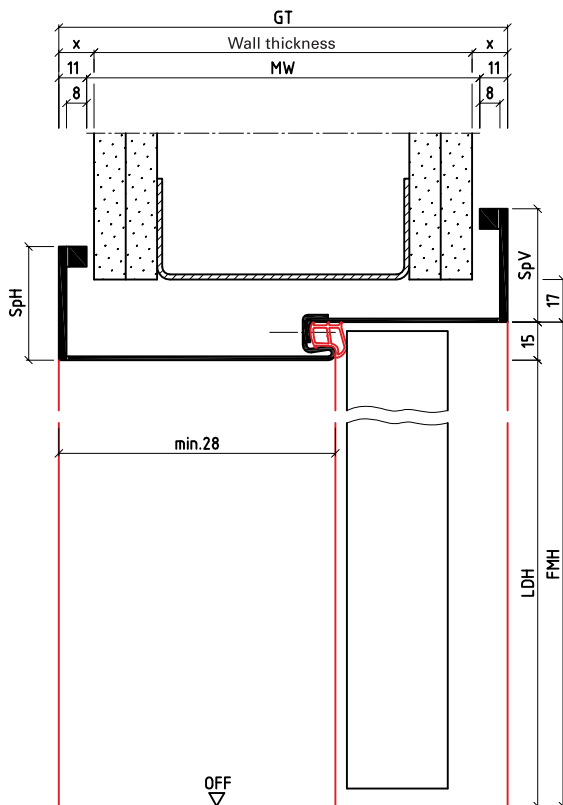
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Vertical section



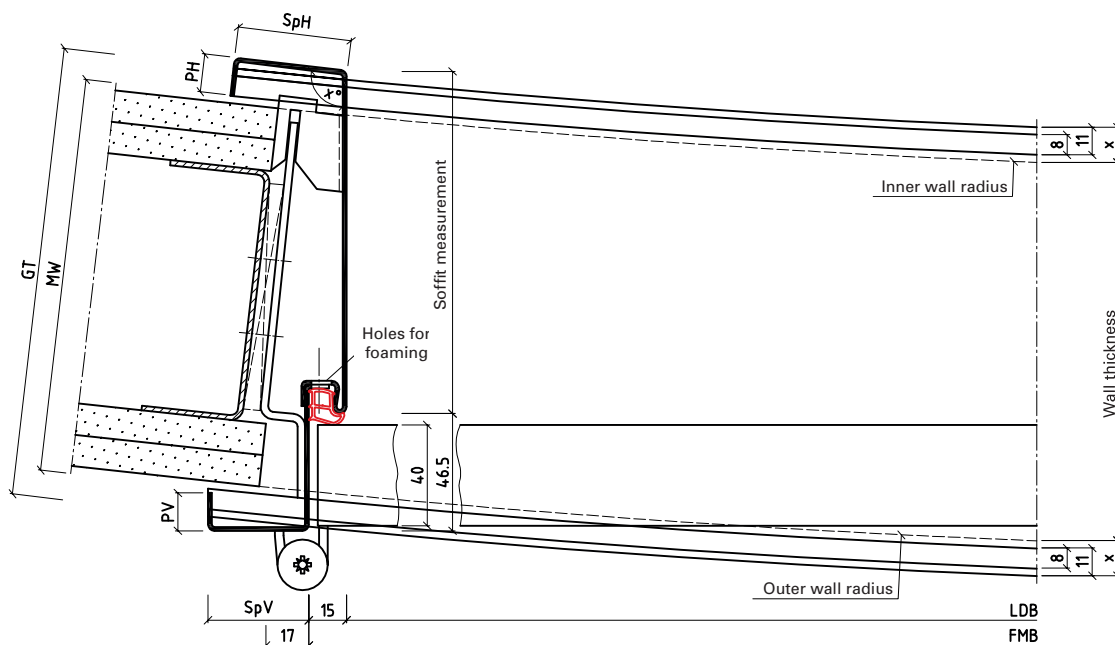
View: DIN left  
Mirror image: DIN right

Z 4:1



Headpiece is  
positioned flush  
between the side  
parts

Horizontal section



Available galvanized and primed only

## Designation code

**15ZUsd**

## Product description

- Frame with architrave fitted to curved wall (2 part split)
- For brick or stud walls
- Other measurements possible
- Exact measurements are necessary to create a drawing

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E-Mail: [architekten@BestOfSteel.de](mailto:architekten@BestOfSteel.de)

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Designation code

**152Bsd/152Bud**

Product description

- Frame with backbend fitted to curved wall (2 part split)
- For almost all wall types
- Other measurements possible
- Exact measurements are necessary to create a drawing

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The illustrations are not for static  
information.

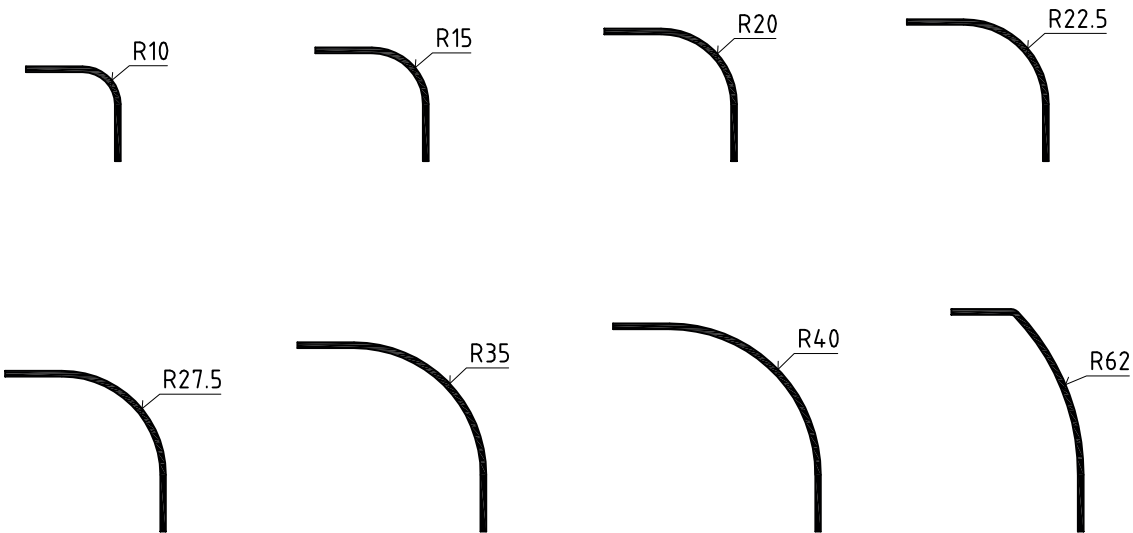


# Non-Standard Frames

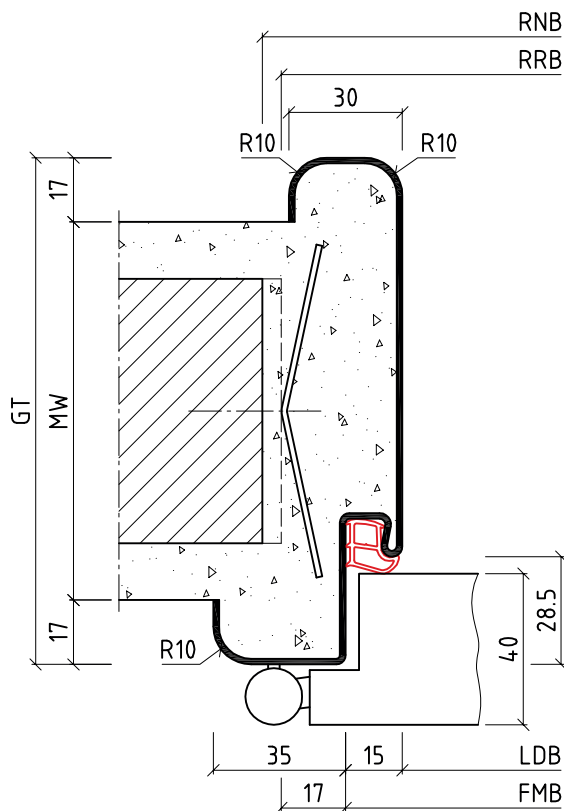
## Round Architrave Frames

Article	BOS round architrave frames are decorative frames which are suitable for almost all wall types.
Your advantages	<ul style="list-style-type: none"><li>• Various architrave radii to choose from</li><li>• Different radius sizes on request</li></ul>
Our recommendations	<ul style="list-style-type: none"><li>• Round architrave frames with an elliptical form are ideal for use in hospitals</li></ul>

7



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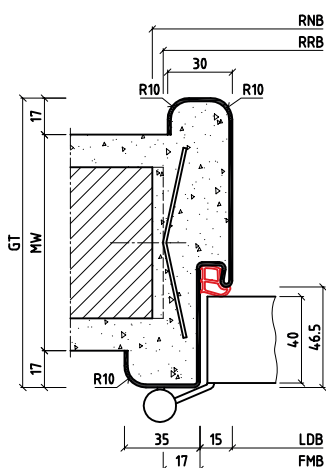


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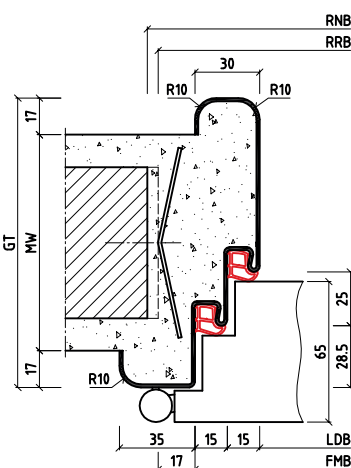
**1rUud**

### Product description

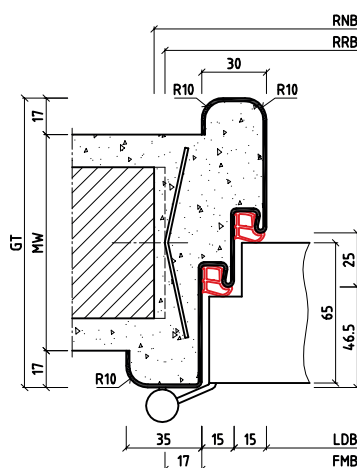
- Wrap around frame with round architrave (1 part)
- For brick walls
- Illustration with propeller anchor



**1rUsd**



**1rUuFd**



**1rUsFd**

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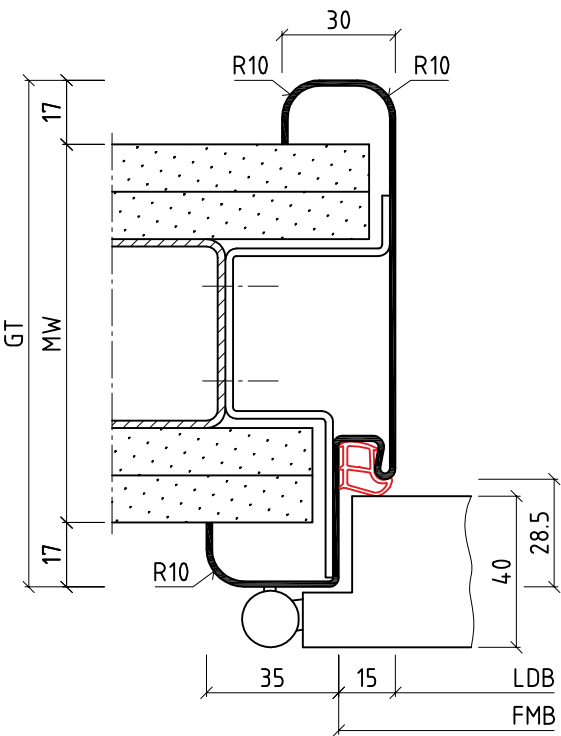
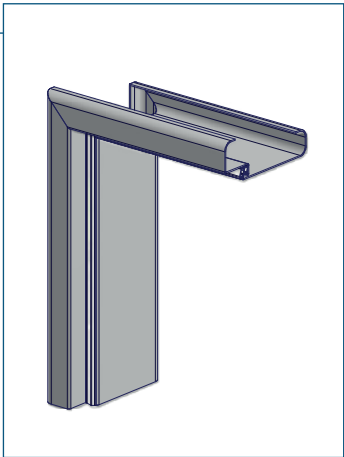
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# Non-Standard Frames

## Round Architrave Frames



Designation code

Product description

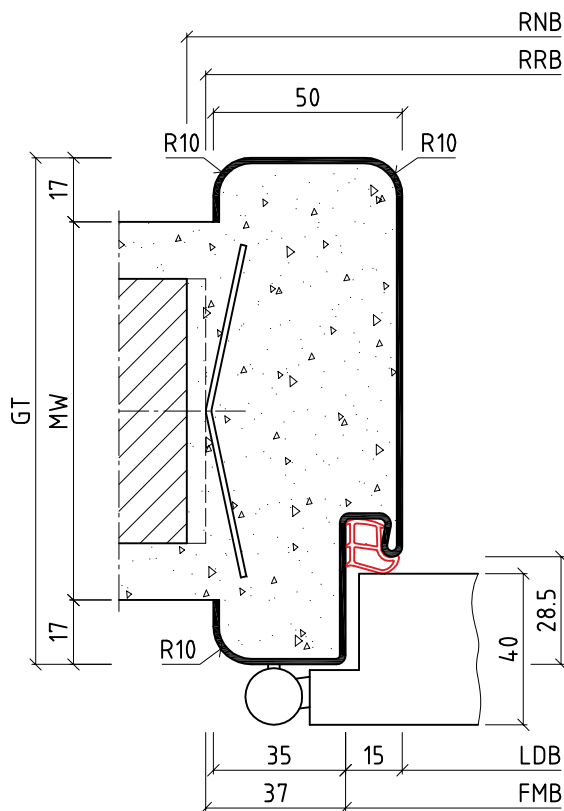
<b>1rUud</b>	<ul style="list-style-type: none"><li>- Wrap around frame with round architrave (1 part)</li><li>- For stud walls</li><li>- Illustration with bracket anchor</li></ul>
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<p>Technical drawing of a round architrave frame with dimensions: 30 (width of the top flange), R10 (radius of the top flange), 17 (height of the top flange), 17 (height of the side flange), 17 (height of the bottom flange), 35 (width of the bottom flange), 15 (width of the side flange), 4.0 (height of the side flange), 46.5 (height of the bottom flange), LDB (length of the bottom flange), and FMB (length of the side flange). The frame is shown with a bracket anchor.</p>	<p>Technical drawing of a round architrave frame with dimensions: 30 (width of the top flange), R10 (radius of the top flange), 17 (height of the top flange), 17 (height of the side flange), 17 (height of the bottom flange), 35 (width of the bottom flange), 15 (width of the side flange), 6.5 (height of the side flange), 28.5 (height of the bottom flange), 25 (height of the bottom flange), LDB (length of the bottom flange), and FMB (length of the side flange). The frame is shown with a bracket anchor.</p>	<p>Technical drawing of a round architrave frame with dimensions: 30 (width of the top flange), R10 (radius of the top flange), 17 (height of the top flange), 17 (height of the side flange), 17 (height of the bottom flange), 35 (width of the bottom flange), 15 (width of the side flange), 6.5 (height of the side flange), 46.5 (height of the bottom flange), 25 (height of the bottom flange), LDB (length of the bottom flange), and FMB (length of the side flange). The frame is shown with a bracket anchor.</p>
<b>1rUsd</b>	<b>1rUuFd</b>	<b>1rUsFd</b>

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The illustrations are not for static information.

### Attention:

For a DIN door leaf,  
choose a larger RRM.

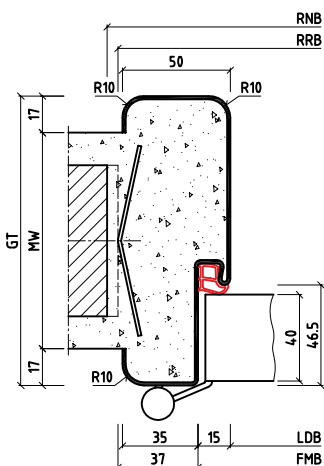


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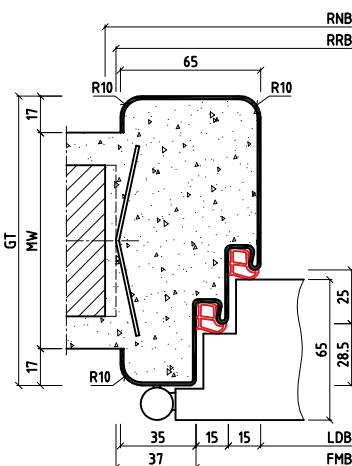
**1rBud**

### Product description

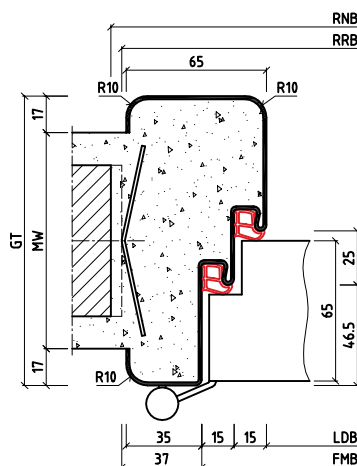
- Block frame with round architrave (1 part)
- For brick walls
- Illustration with propeller anchor



**1rBsd**



**1rBuFd**



**1rBsFd**

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### BOS Architect Consulting Service:

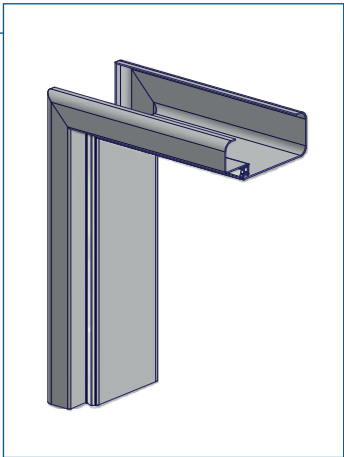
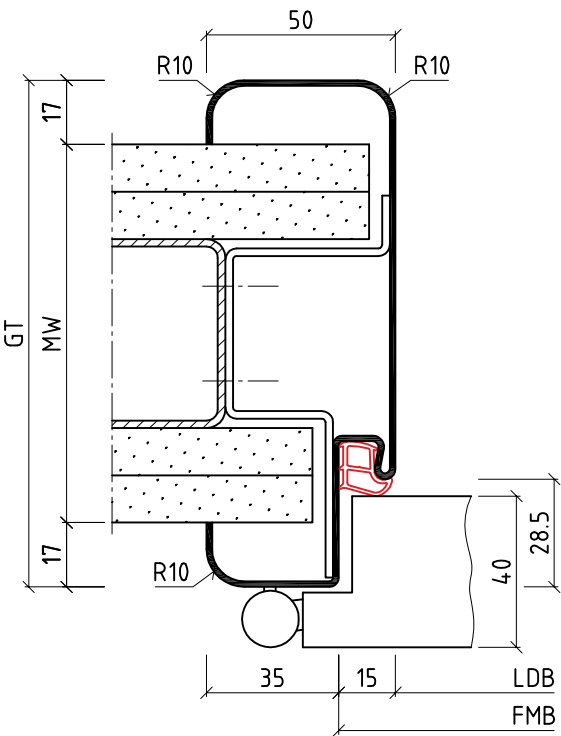
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# Non-Standard Frames

## Round Architrave Frames



Designation code

Product description

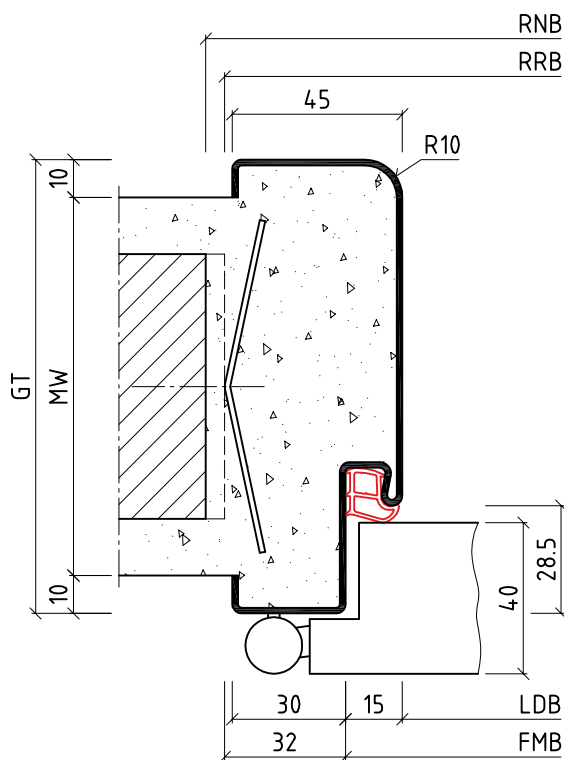
<b>1rBud</b>	<ul style="list-style-type: none"><li>- Block frame with round architrave (1 part)</li><li>- For stud walls</li><li>- Illustration with bracket anchor</li></ul>
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<p><b>1rBsd</b></p>	<p><b>1rBuFd</b></p>	<p><b>1rBsFd</b></p>
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#### Attention:

For a DIN door leaf,  
choose a larger RRM.

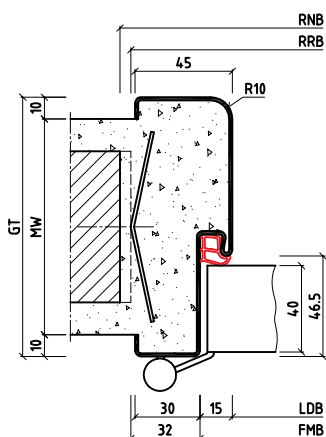


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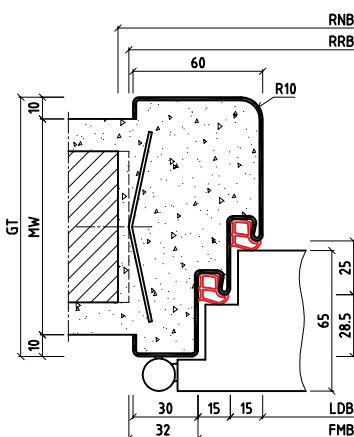
**5rBud**

#### Product description

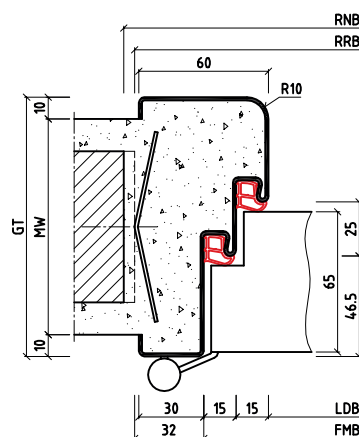
- Block frame with round architrave (1 part)
- For brick walls
- Illustration with propeller anchor



**5rBsd**



**5rBuFd**



**5rBsFd**

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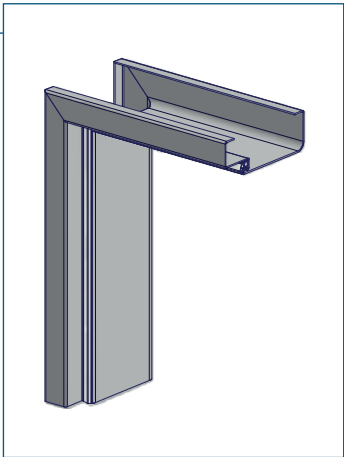
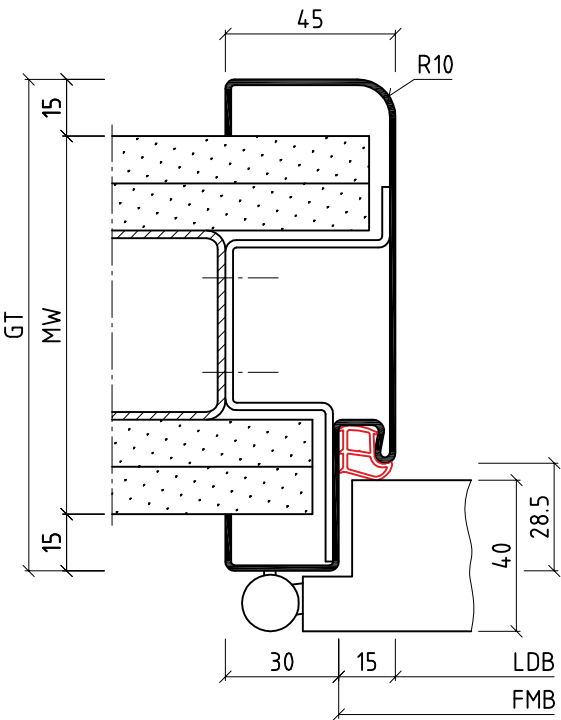
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# Non-Standard Frames

## Round Architrave Frames



Designation code

Product description

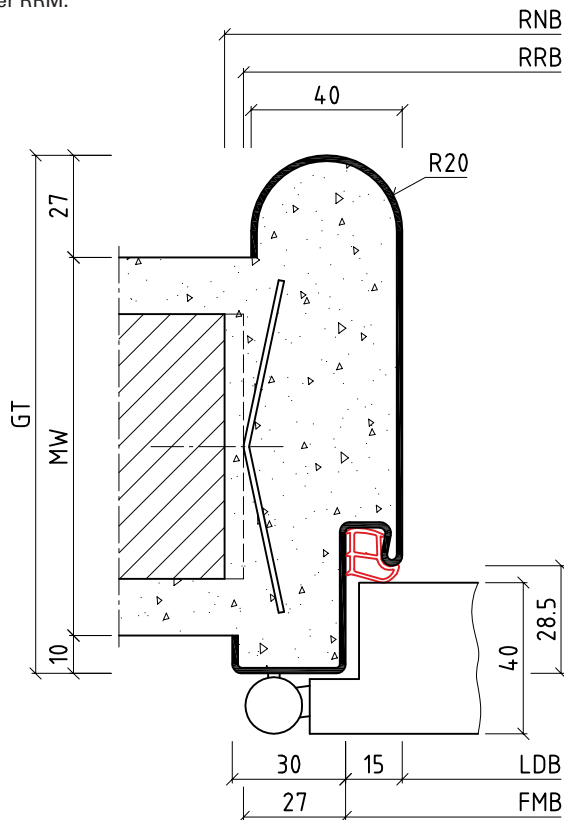
<b>5rBud</b>	<ul style="list-style-type: none"><li>- Block frame with round architrave (1 part)</li><li>- For stud walls</li><li>- Illustration with bracket anchor</li></ul>
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<p><b>5rBsd</b></p>	<p><b>5rBuFd</b></p>	<p><b>5rBsFd</b></p>
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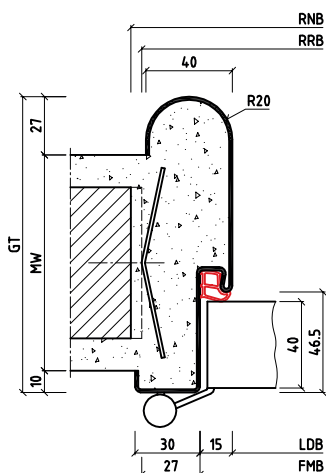
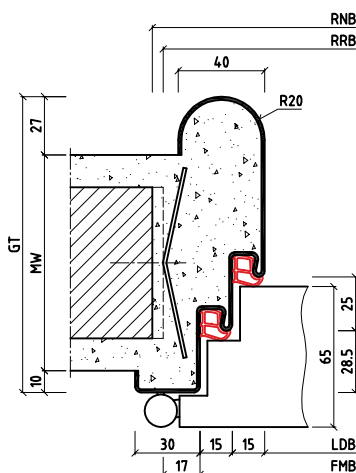
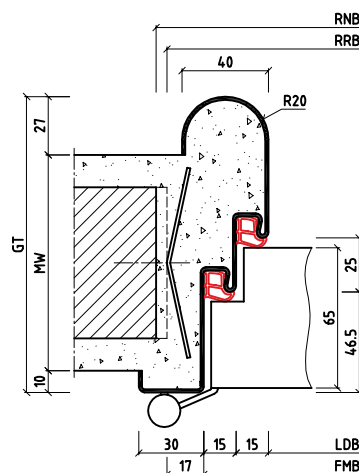
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**Attention:**

For a DIN door leaf and single rebate, choose a larger RRM.


**Designation code**
**RgUud**
**Product description**

- Wrap around frame with round architrave (1 part)
- For brick walls
- Illustration with propeller anchor


**RgUsd**

**RgUuFd**

**RgUsFd**
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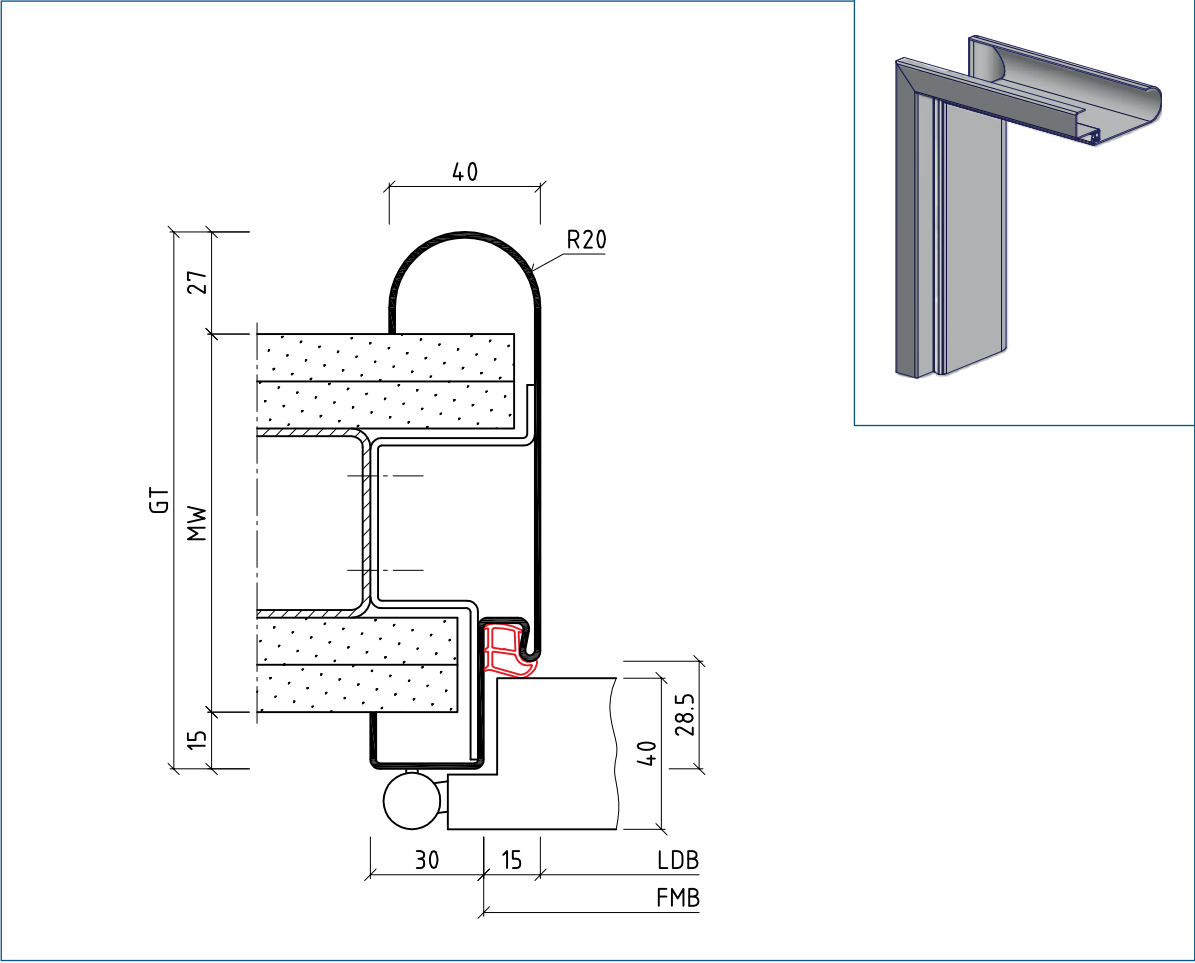
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# Non-Standard Frames

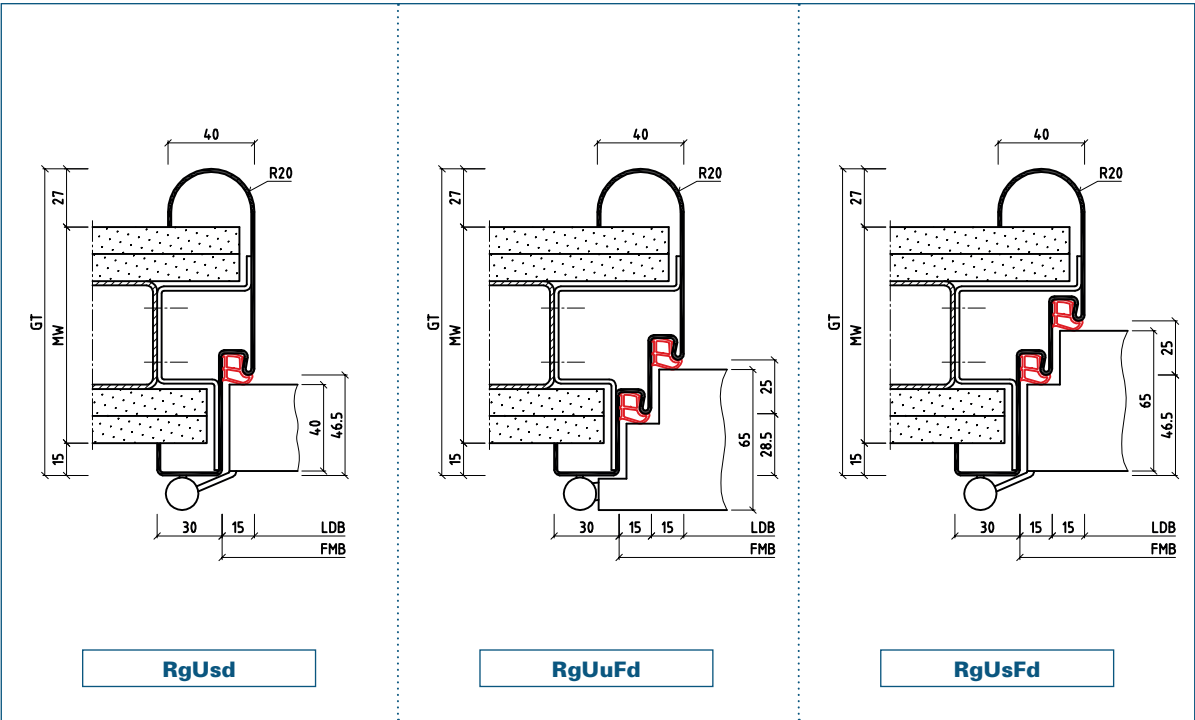
## Round Architrave Frames



Designation code

Product description

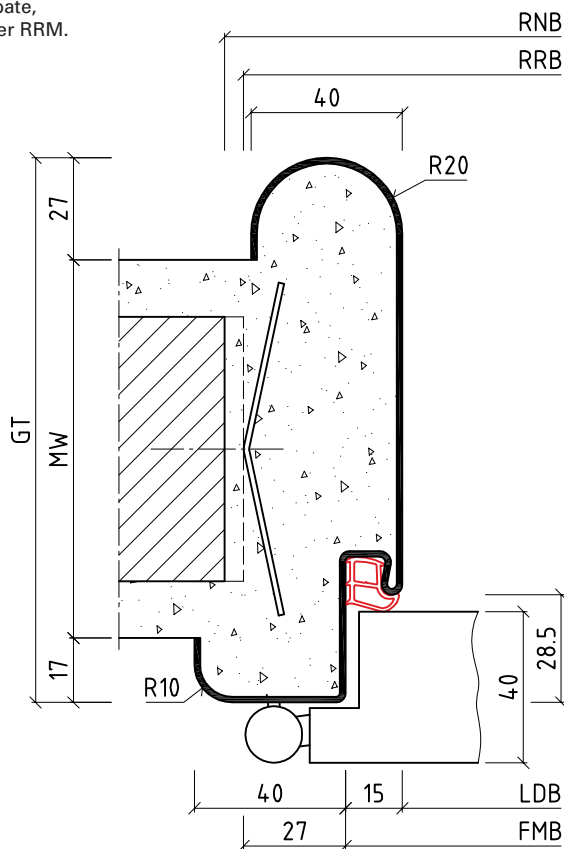
<b>RgUud</b>	<ul style="list-style-type: none"><li>- Wrap around frame with round architrave (1 part)</li><li>- For stud walls</li><li>- Illustration with bracket anchor</li></ul>
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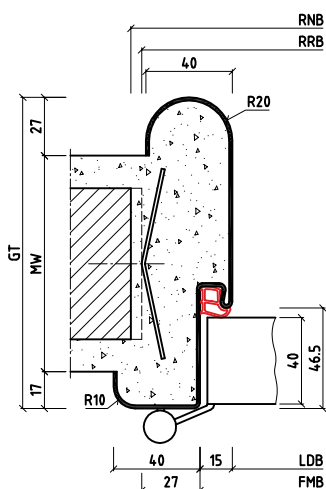
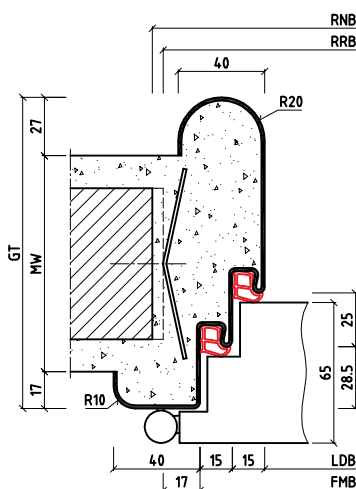
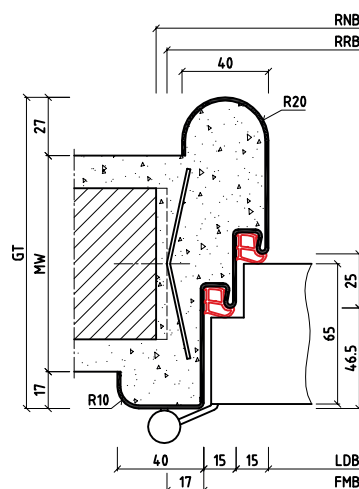
Subject to technical change.  
The illustrations are not for static information.

**Attention:**

For a DIN door leaf and single rebate, choose a larger RRM.


**Designation code**
**Rg7rUud**
**Product description**

- Wrap around frame with round architrave (1 part)
- For brick walls
- Illustration with propeller anchor


**Rg7rUsd**

**Rg7rUuFd**

**Rg7rUsFd**
**BOS Sales Department:**

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Fax: +49 2572 203-109  
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**BOS Architect Consulting Service:**

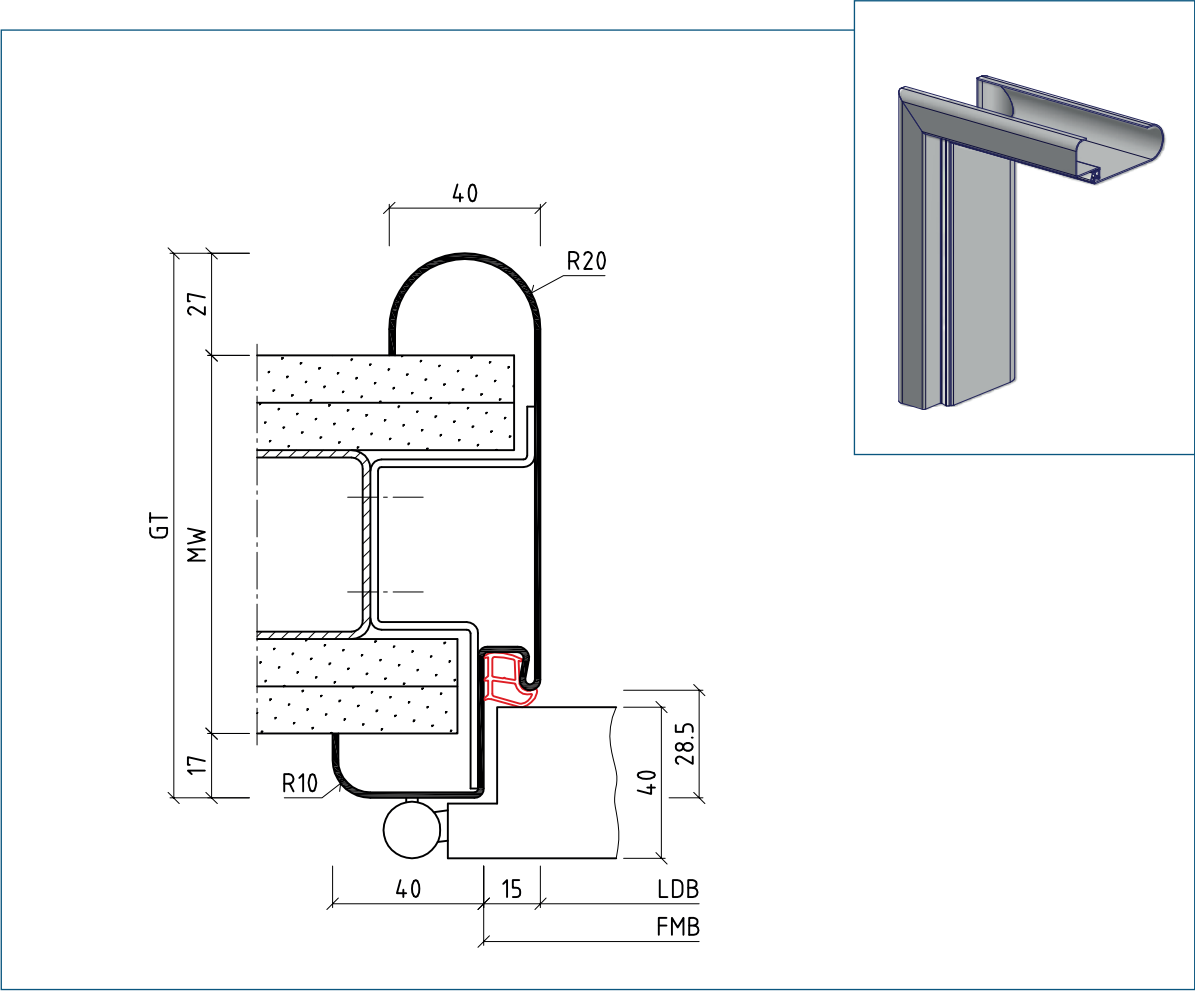
Tel.: +49 2572 203-204  
Fax: +49 2572 203-209  
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**Version 6.0**

# Non-Standard Frames

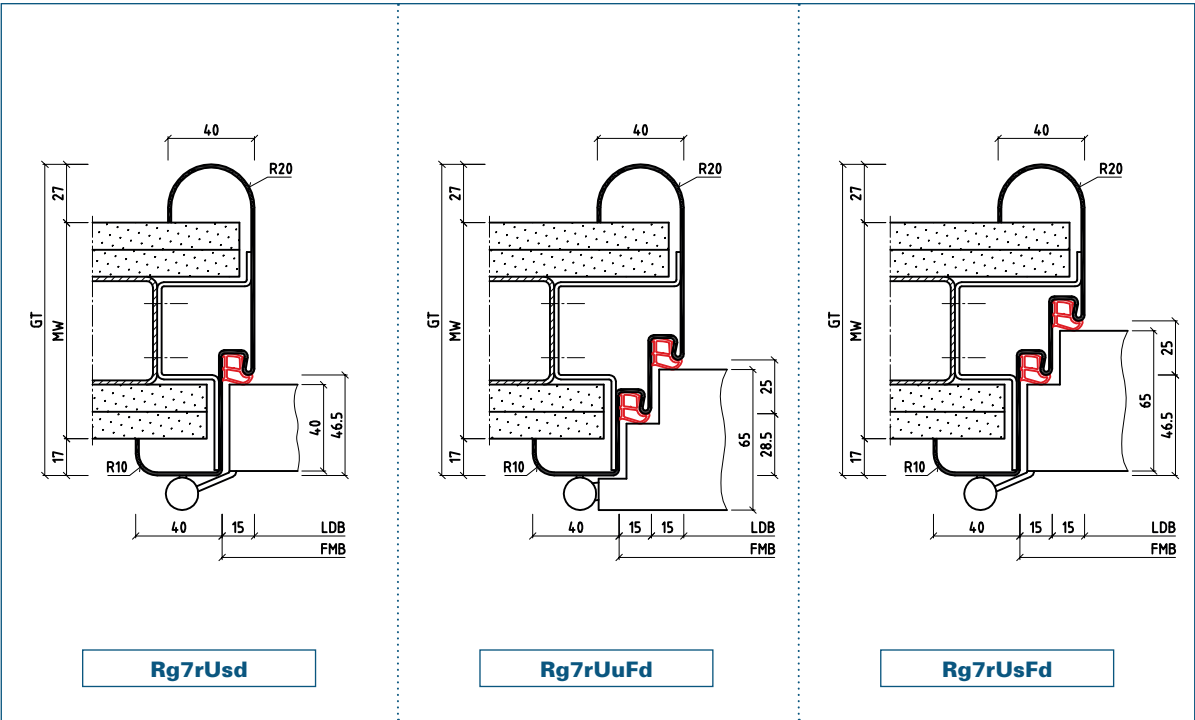
## Round Architrave Frames



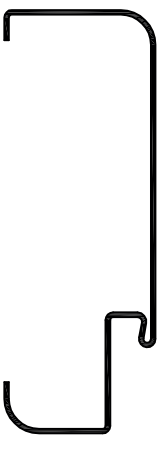
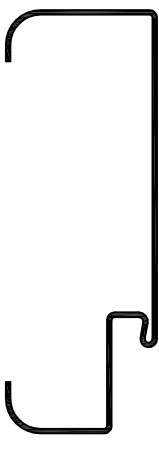
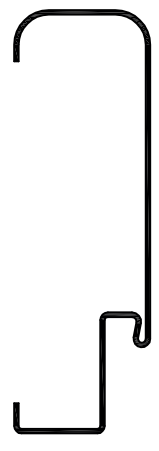
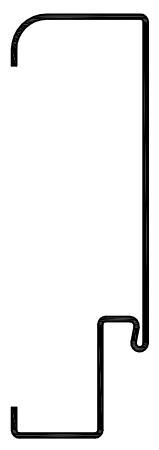
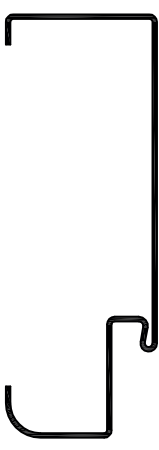
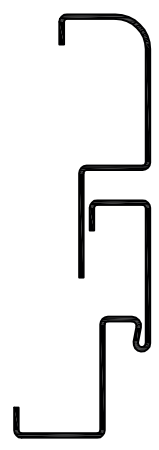
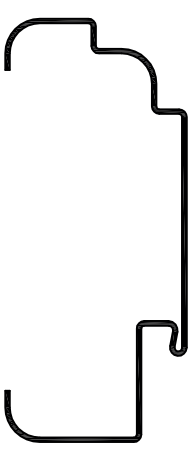


Designation code

Product description

<p><b>Rg7rUud</b></p>	<ul style="list-style-type: none"> <li>- Wrap around frame with round architrave (1 part)</li> <li>- For stud walls</li> <li>- Illustration with bracket anchor</li> </ul>
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Subject to technical change.  
The illustrations are not for static information.

①  2rBud	②  3rBud	③  4rBud
④  6rBud	⑤  7rBud	⑥  5rUuHd1
⑦  Q1rAud	⑧  5rD	⑨  5rG

Designation code

Product description

## Profile examples

- Round architrave frames in various designs
- For brick or stud walls
- 2 part split versions also possible

## BOS Sales Department:

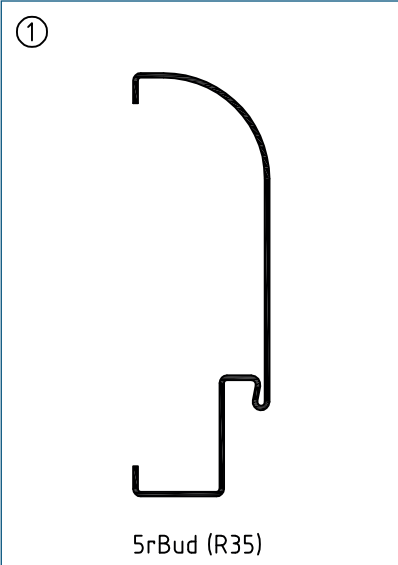
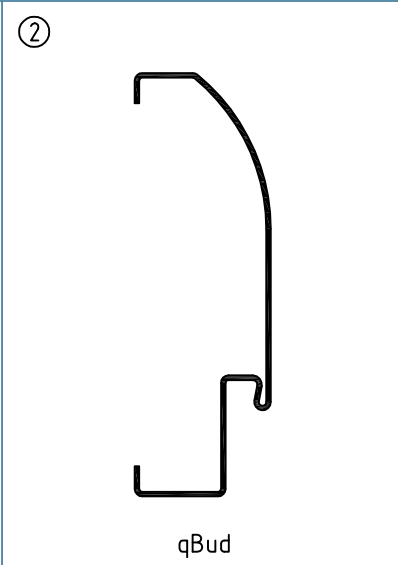

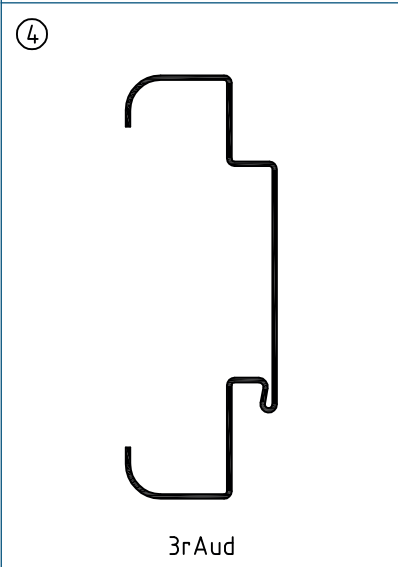
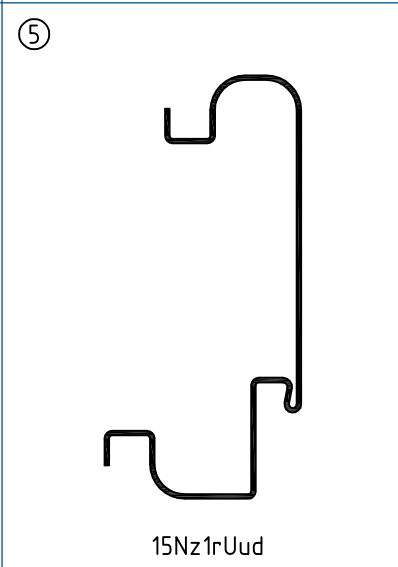
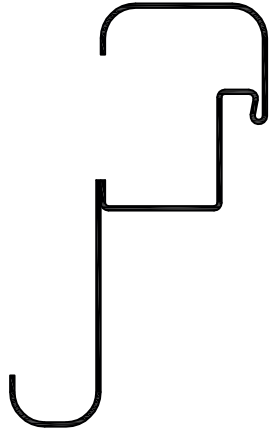
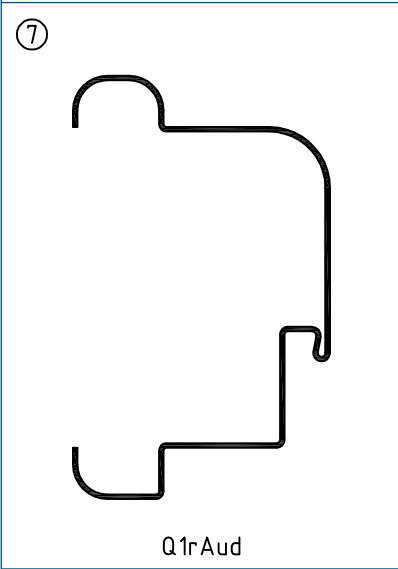
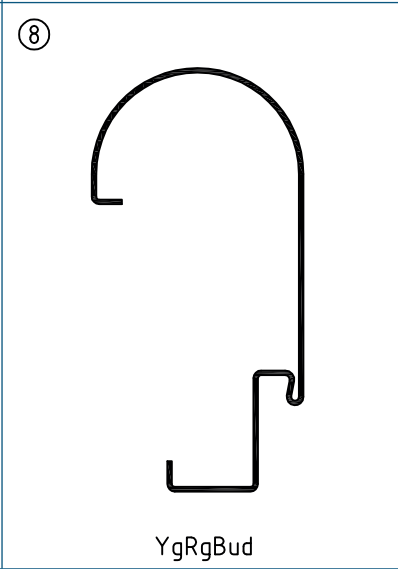
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<div>①</div> <div></div> <div>5rBud (R35)</div>	<div>②</div> <div></div> <div>qBud</div>	<div>③</div> <div></div> <div>3r0ud</div>
<div>④</div> <div></div> <div>3rAud</div>	<div>⑤</div> <div></div> <div>15Nz1rUud</div>	<div>⑥</div> <div></div> <div>1rBuLd</div>
<div>⑦</div> <div></div> <div>Q1rAud</div>	<div>⑧</div> <div></div> <div>YgRgBud</div>	<div>Other profiles and radii possible.</div> <div>Please note particular characteristics and installation steps!</div>

Designation code

Product description

<div>Profile examples</div>	<div>- Round architrave frames in various designs - For brick or stud walls - 2 part split versions also possible</div>
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### Article

BOS SafetyDesign frames (finger protection frames) are suitable for almost all wall types and combine the highest safety demands with those of modern design.

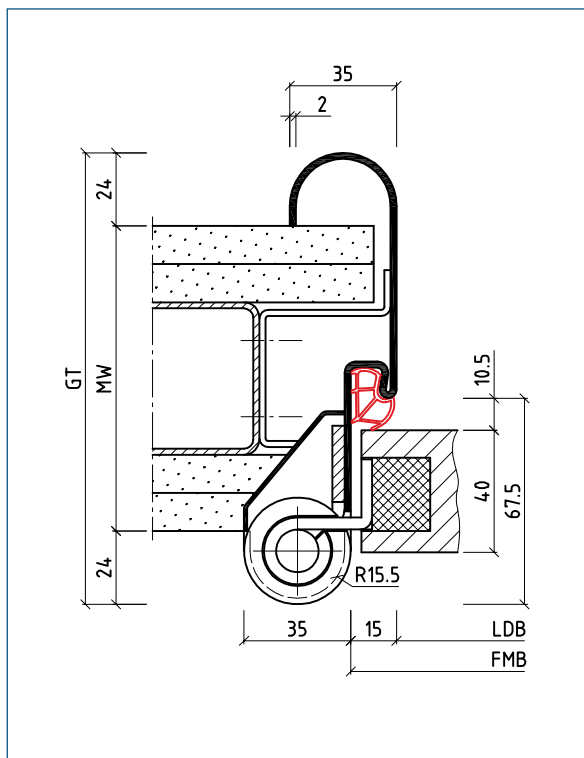
SafetyDesign frames are only suitable for flush doors.

### Your advantages

- Incl. stainless steel striking plate for surface protection in the area of the lock
- Incl. specific hinges (GLOBUS STGR 3D 160.4.00)
- SafetyDesign round architrave frames combined with specific hinges offer the highest protection against squashed fingers at the same time as an attractive visual effect

### Our recommendations

- Use in kindergartens, day-care centres, schools and hospitals

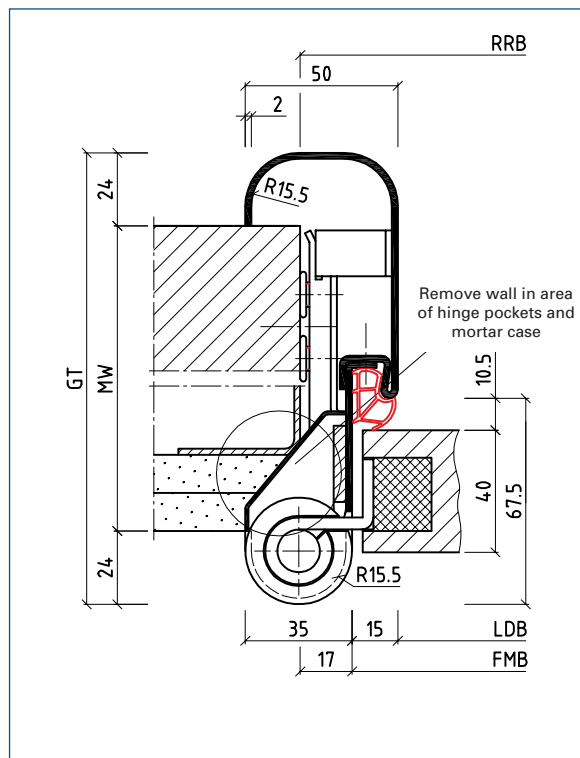


Designation  
code

**RzUsd (SafetyDesign)**

Product  
description

- Round architrave frame (1 part)
- For stud walls
- Illustration with bracket anchor



Designation  
code

**Rb4r15zBsd (SafetyDesign)**

Product  
description

- Round architrave frame (2 part split)
- For brick or stud walls
- Other measurements possible

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Article	BOS shadow groove frames are design oriented frames suitable for almost all wall types.
Your advantages	<ul style="list-style-type: none"><li>• Depending on the installation situation or the visual effects, a choice of shadow groove can be made between the U-, V- or Z-form</li><li>• They can also be combined with a round architrave or slanting soffit</li></ul>
Our recommendations	<ul style="list-style-type: none"><li>• Take note of the installation measurements as these can differ from the standard measurements</li><li>• Use concealed hinges and flush door leaves for an installation completely flush with the wall</li><li>• By using architrave widths of 30mm at the front and 18mm at the back, standard openings for standard door leaves are possible in brickwork</li></ul>



10mm U-Form



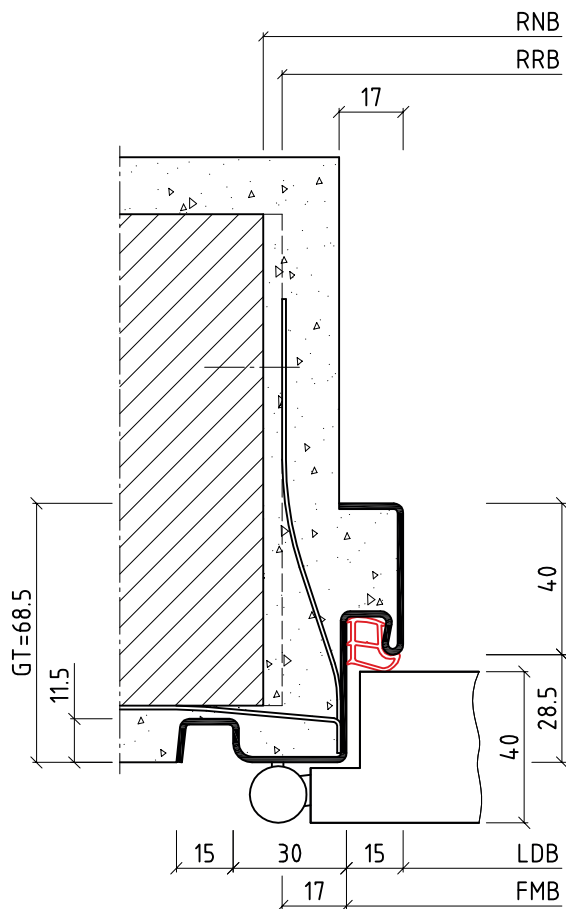
15mm U-Form  
(Standard)



V-Form



Z-Form

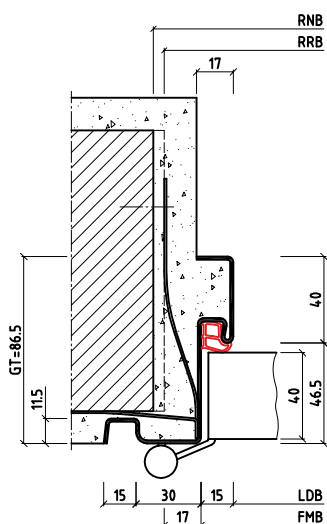


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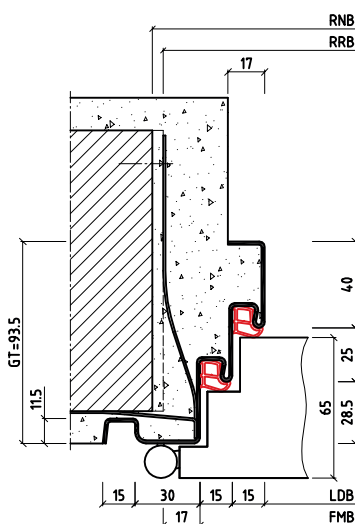
Product description

**15NbEud**

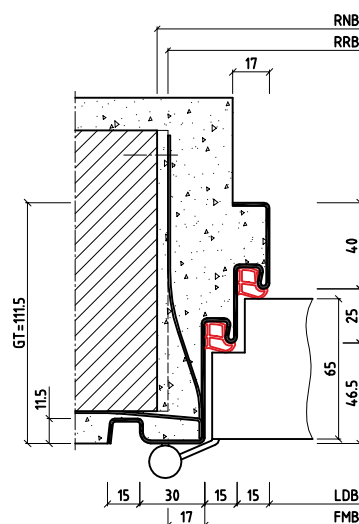
- Corner frame with shadow groove (1 part)
- For brick walls
- Illustration with brick anchor



**15NbEsd**



**15NbEuFd**



**15NbEsFd**

**BOS Sales Department:**

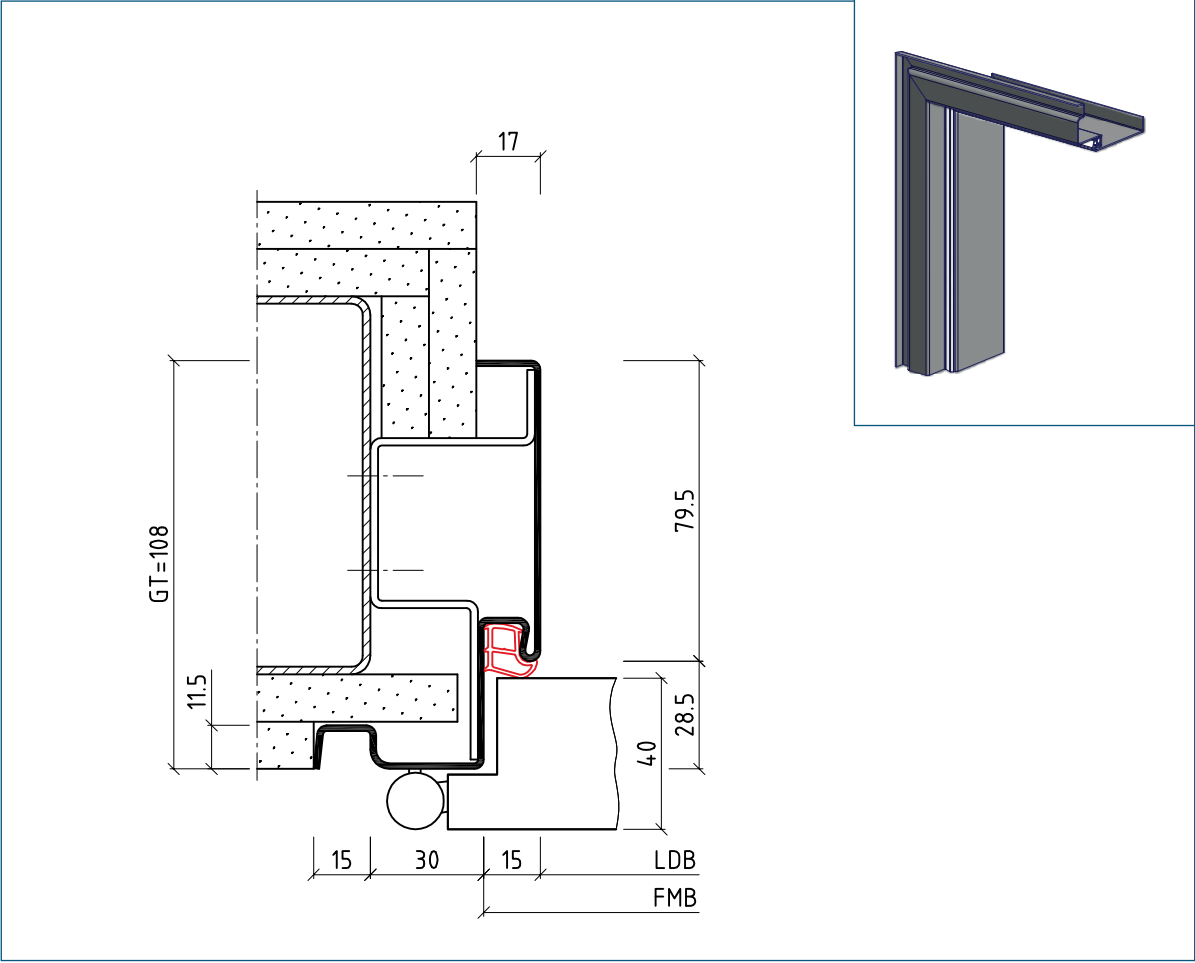
Tel: +49 2572 203-0  
Fax: +49 2572 203-109  
E-Mail: info@BestOfSteel.de

**BOS Architect Consulting Service:**

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Fax: +49 2572 203-209  
E-Mail: architekten@BestOfSteel.de

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information.

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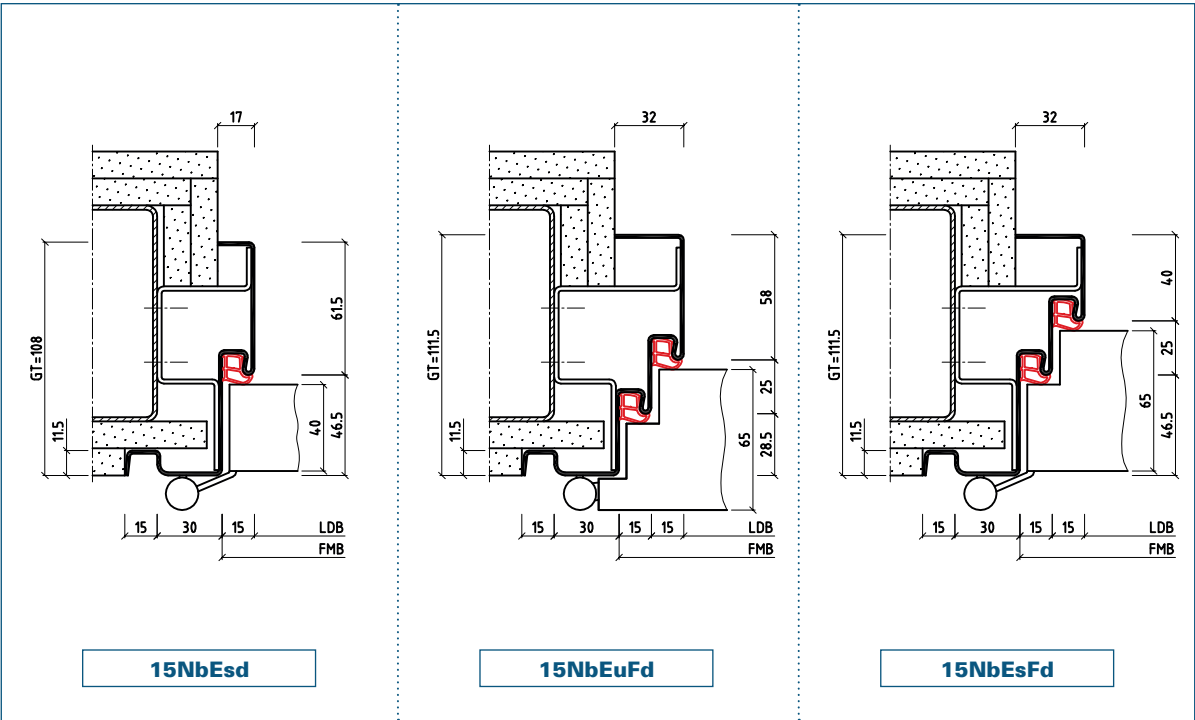


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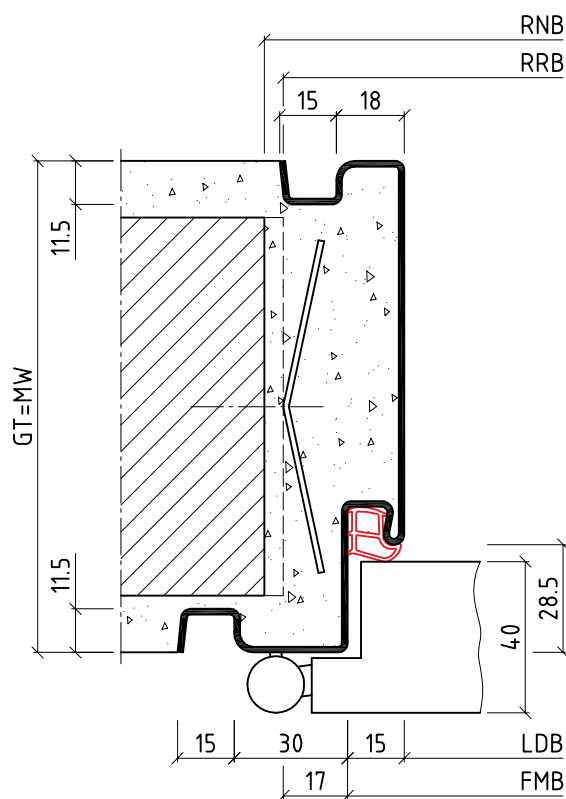
**15NbEud**

Product description

- Corner frame with shadow groove (1 part)
- For stud walls
- Illustration with bracket anchor



Subject to technical change.  
The illustrations are not for static  
information.

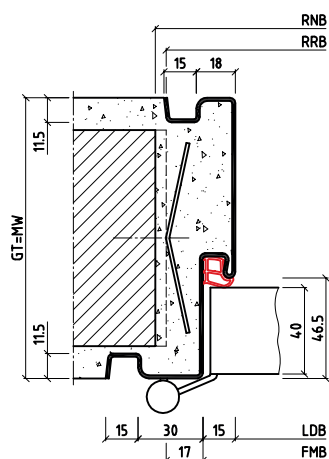


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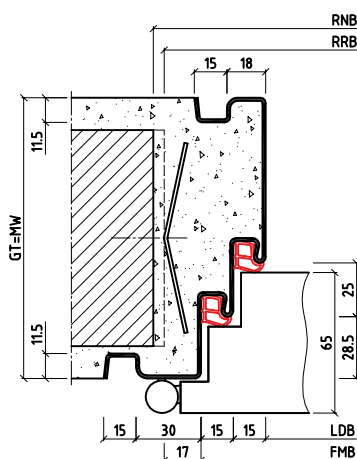
**15NzUud** (SpH=18)

### Product description

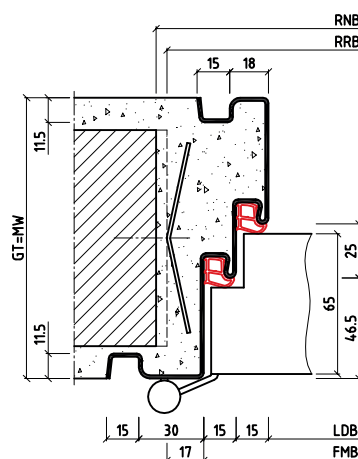
- Wrap around frame with shadow groove (1 part)
- For brick walls
- Illustration with propeller anchor



**15NzUud** (SpH=18)



**15NzUuFd** (SpH=18)



**15NzUsFd** (SpH=18)

### BOS Sales Department:

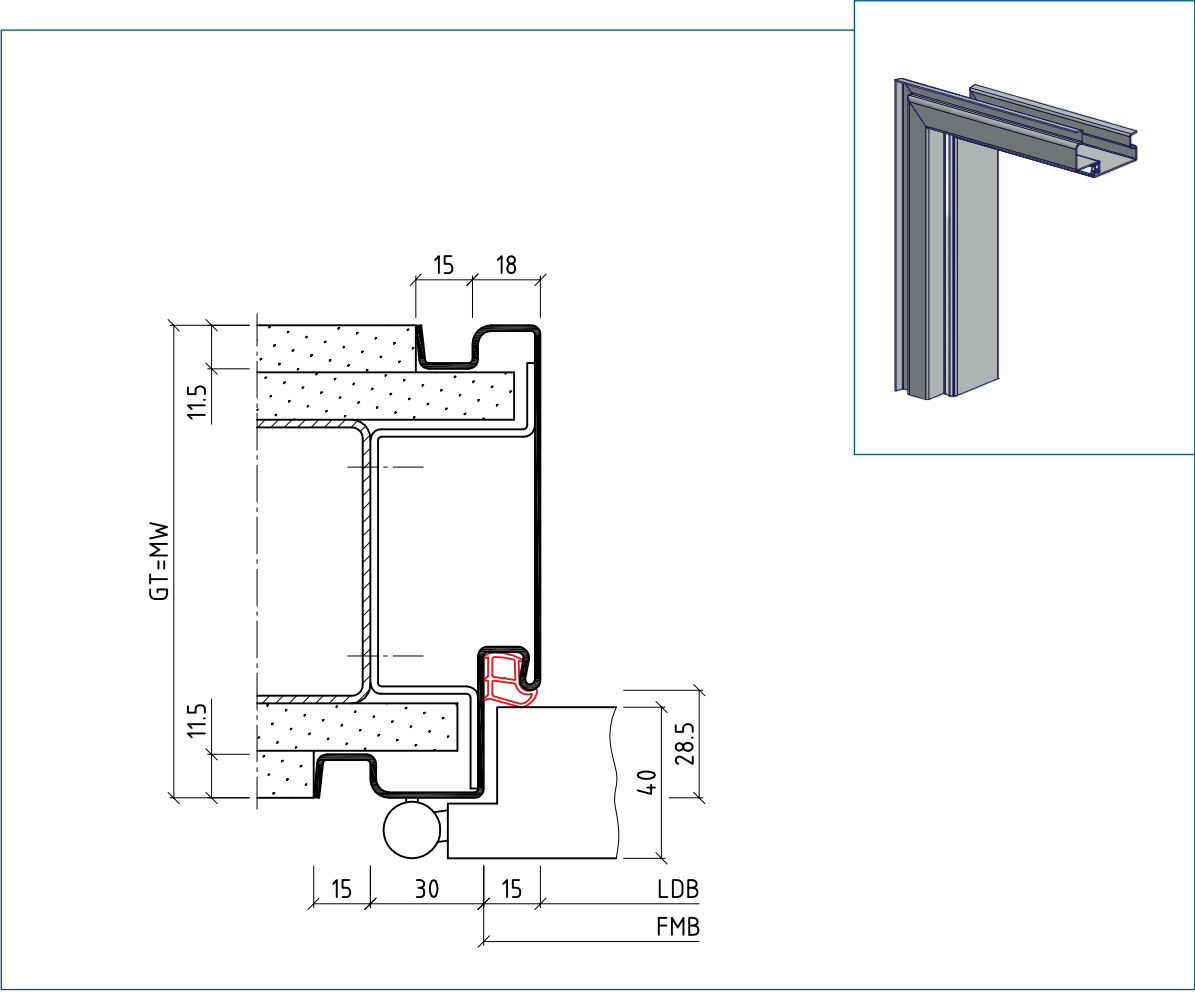
Tel: +49 2572 203-0  
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E-Mail: [info@BestOfSteel.de](mailto:info@BestOfSteel.de)

### BOS Architect Consulting Service:

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E-Mail: [architekten@BestOfSteel.de](mailto:architekten@BestOfSteel.de)

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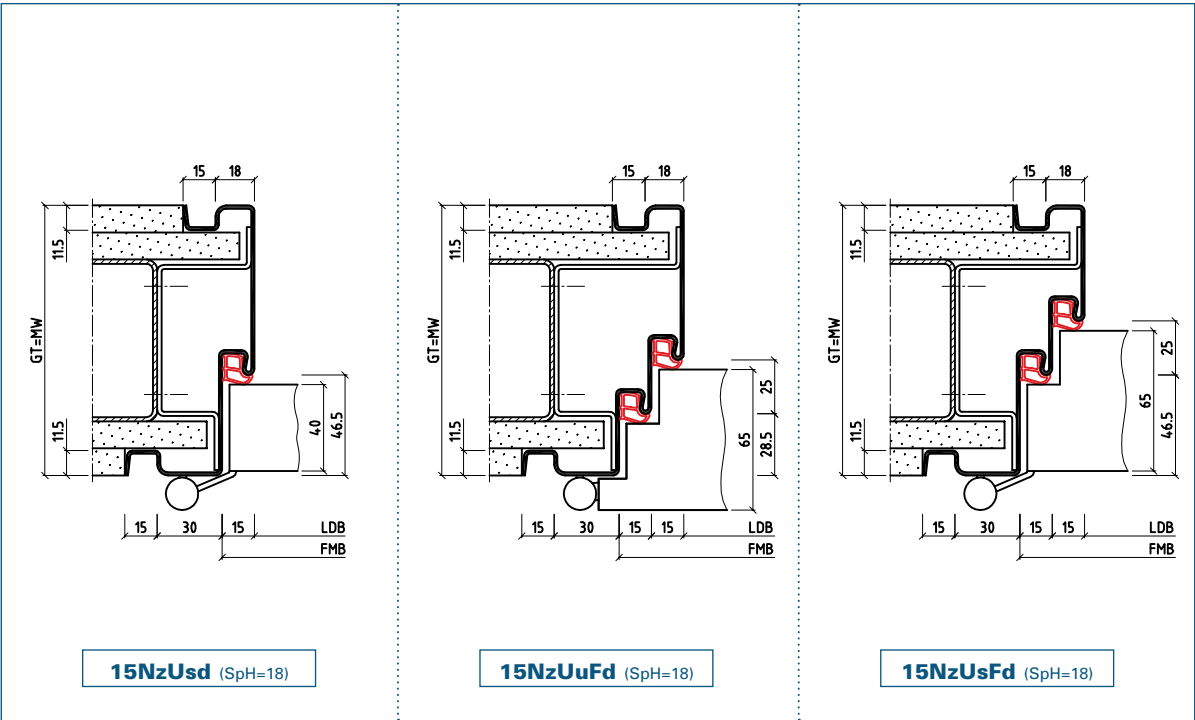
7

Designation code

Product description

**15NzUud** (SpH=18)

- Wrap around frame with shadow groove (1 part)
- For stud walls
- Illustration with bracket anchor



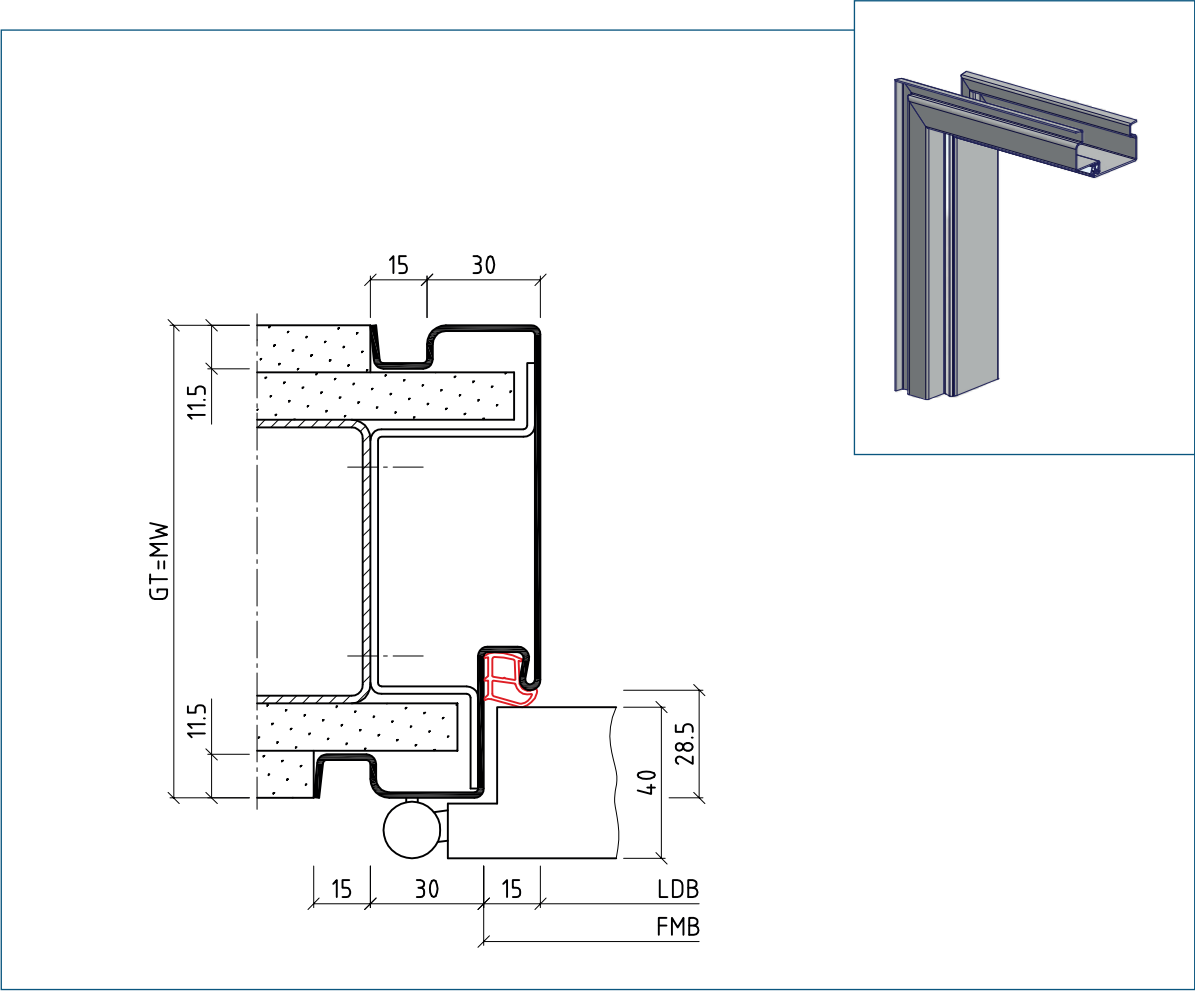
Subject to technical change.  
The illustrations are not for static  
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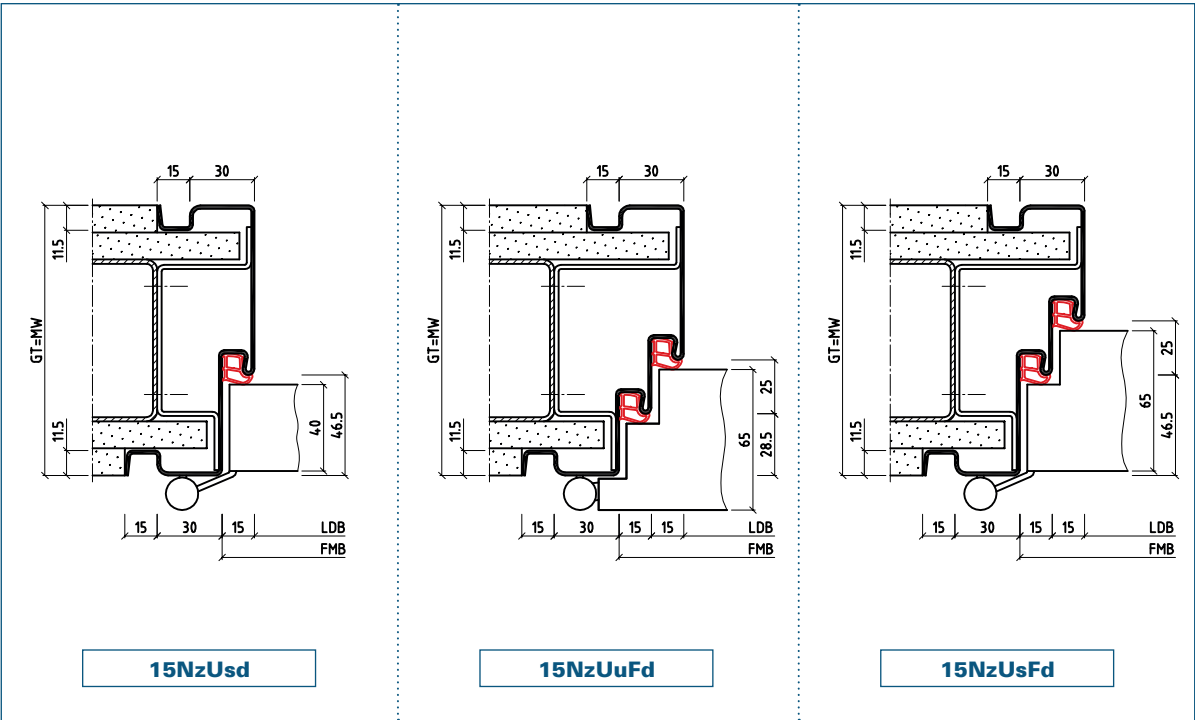


# Non-Standard Frames

## Shadow Groove Frames



Designation code	Product description
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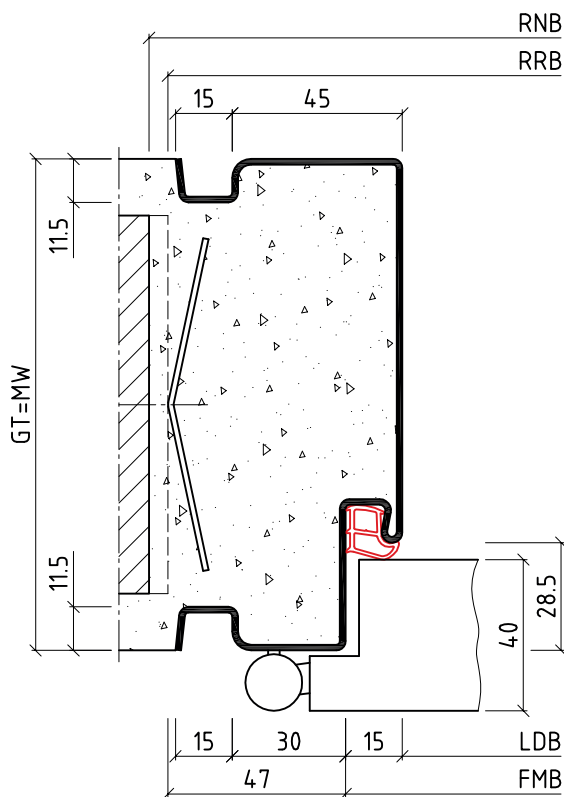
15NzUuFd

15NzUsFd

Subject to technical change.  
The illustrations are not for static information.

### Attention:

For a DIN door leaf,  
choose a larger RRM.

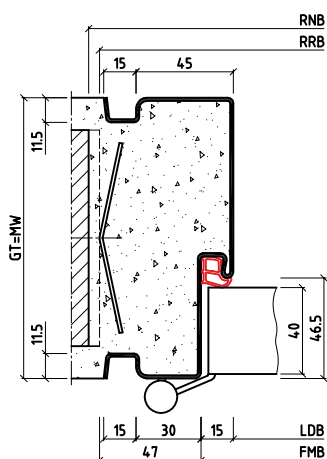


### Designation code

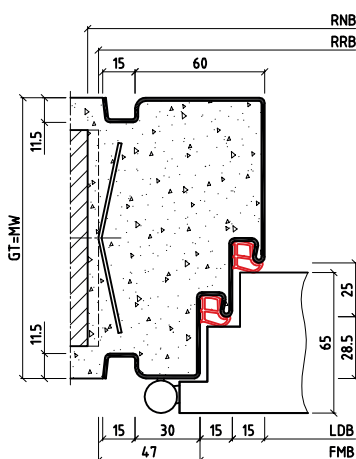
**15NzBud**

### Product description

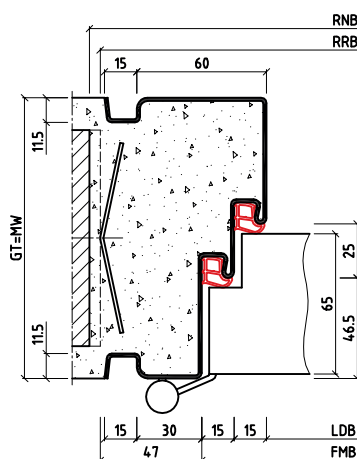
- Block frame with shadow groove (1 part)
- For brick walls
- Illustration with propeller anchor



**15NzBsd**



**15NzBuFd**



**15NzBsFd**

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### BOS Architect Consulting Service:

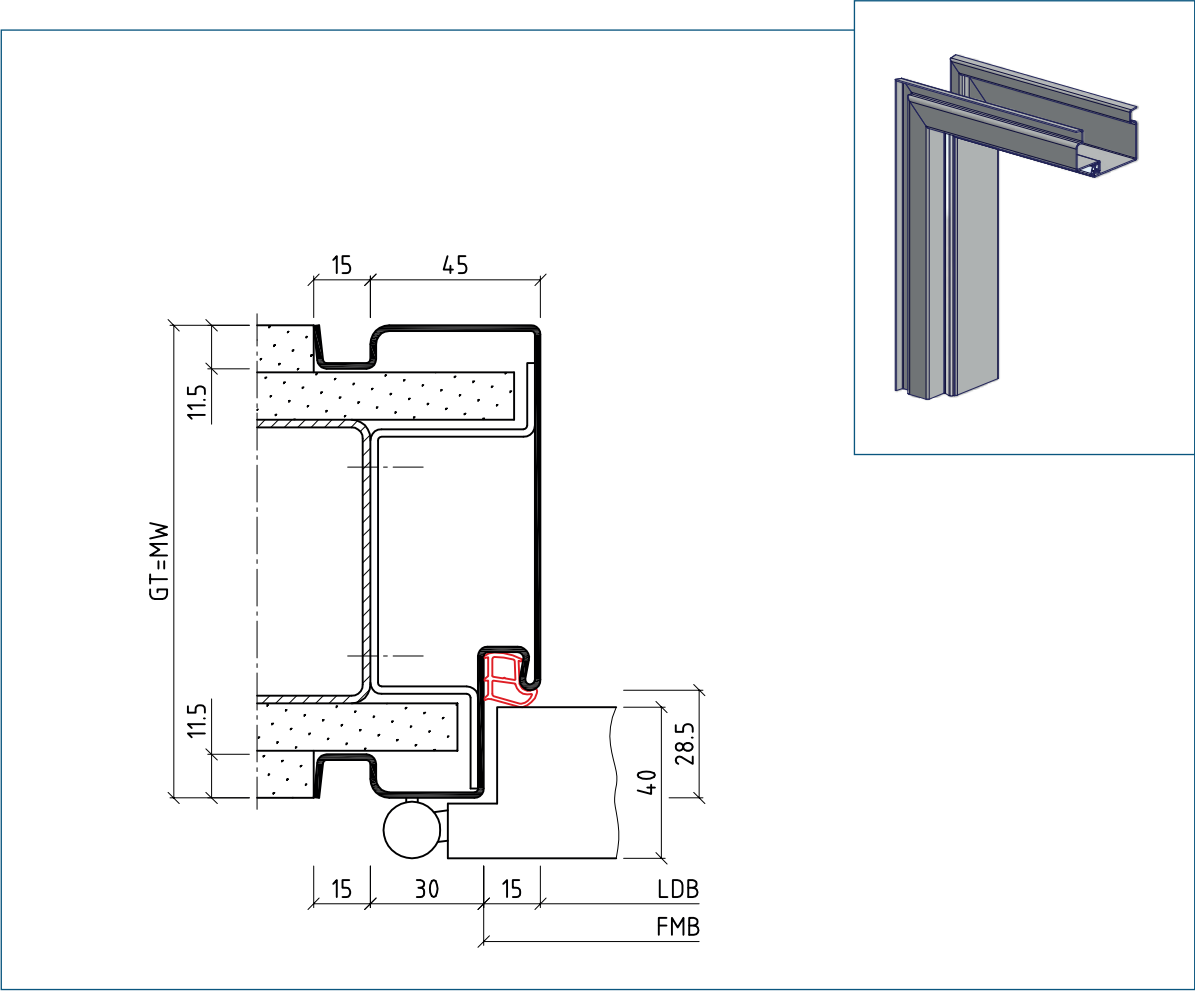
Tel.: +49 2572 203-204  
Fax: +49 2572 203-209  
E-Mail: [architekten@BestOfSteel.de](mailto:architekten@BestOfSteel.de)

Subject to technical change.  
The illustrations are not for static  
information.

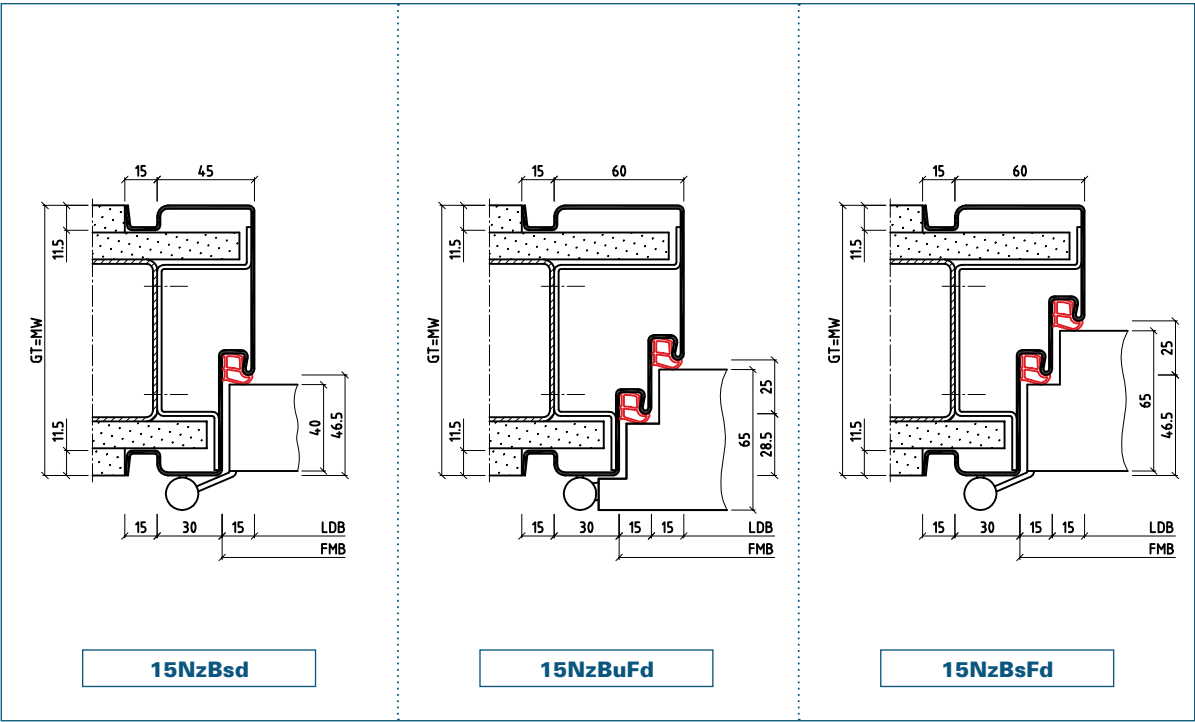
Version 6.0

# Non-Standard Frames

## Shadow Groove Frames

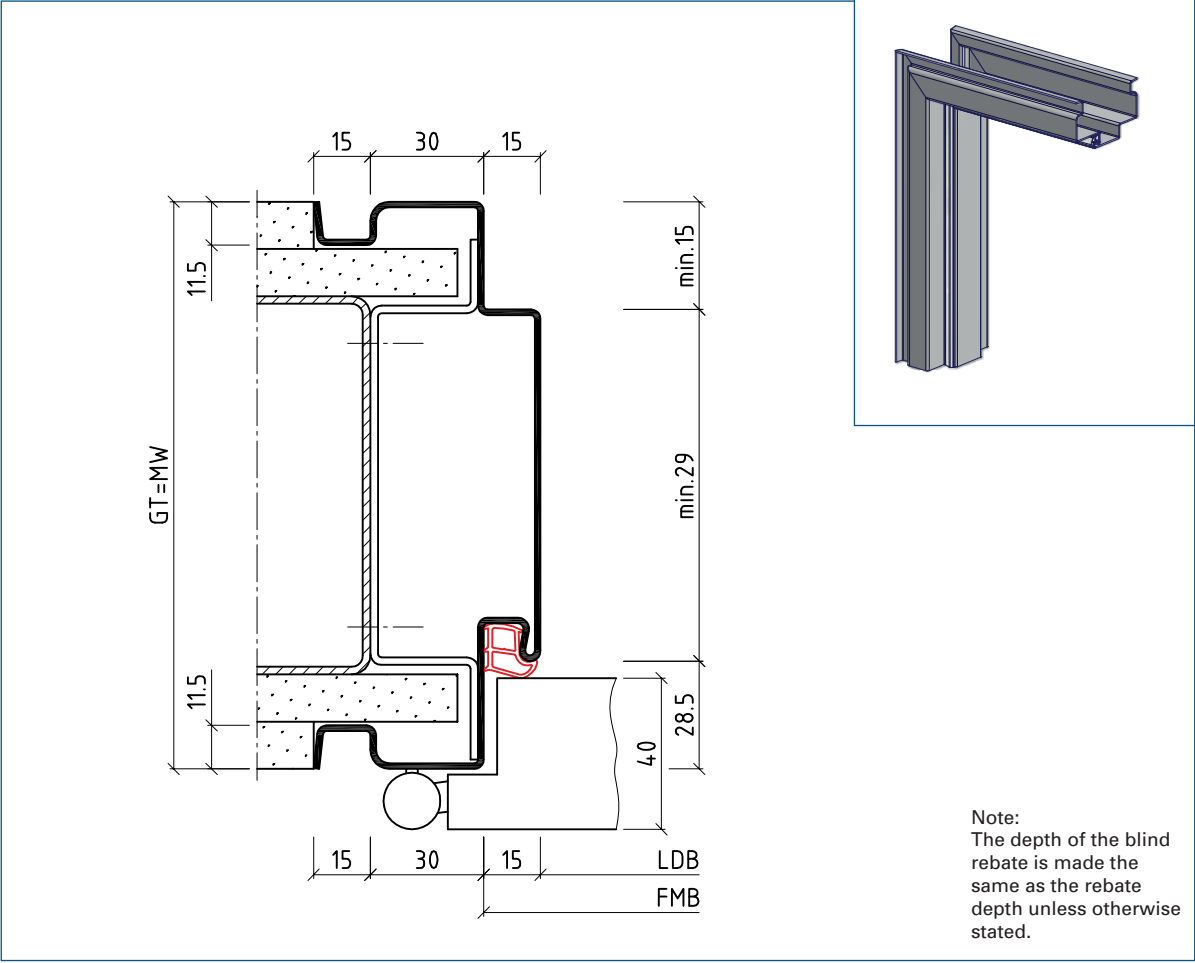


Designation code	Product description
15NzBud	<ul style="list-style-type: none"> <li>- Block frame with shadow groove (1 part)</li> <li>- For stud walls</li> <li>- Illustration with bracket anchor</li> </ul>



Subject to technical change.  
The illustrations are not for static information.

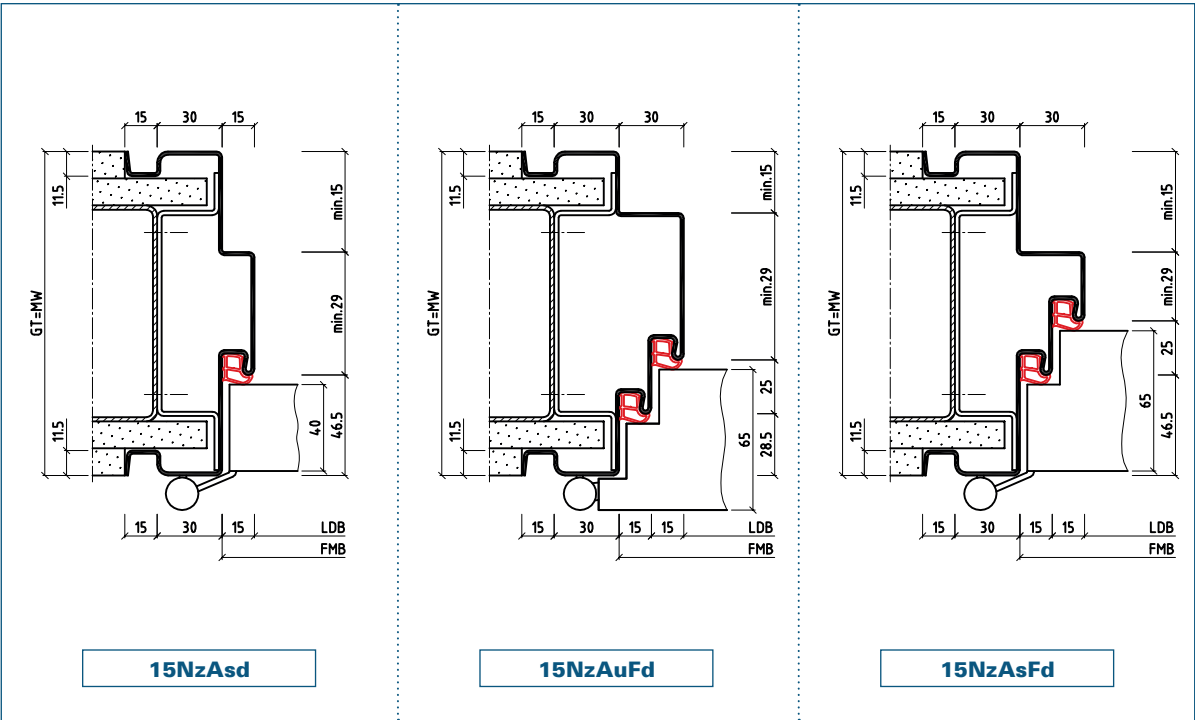




Designation code

Product description

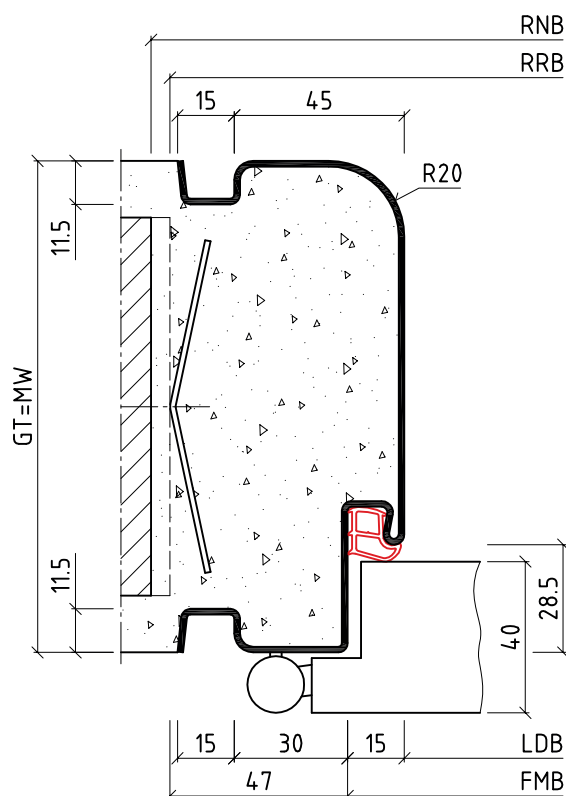
<b>15NzAud</b>	<ul style="list-style-type: none"><li>- Blind rebate frame with shadow groove (1 part)</li><li>- For stud walls</li><li>- Illustration with bracket anchor</li></ul>
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Subject to technical change.  
The illustrations are not for static information.

### Attention:

For a DIN door leaf,  
choose a larger RRM.

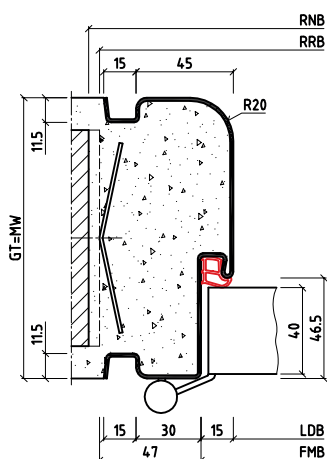


### Designation code

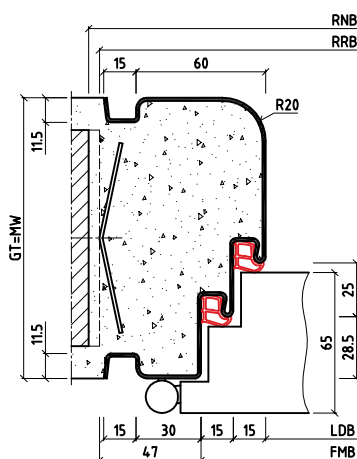
**15Nz5rBud**

### Product description

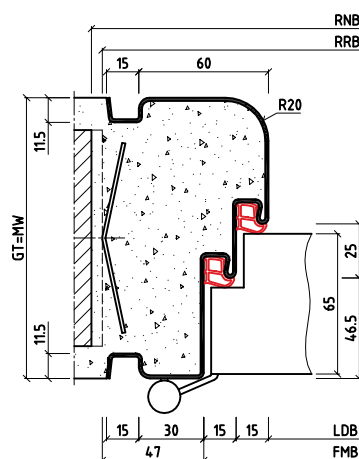
- Round architrave frame with shadow groove (1 part)
- For brick walls
- Illustration with propeller anchor



**15Nz5rBsd**



**15Nz5rBuFd**



**15Nz5rBsFd**

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### BOS Architect Consulting Service:

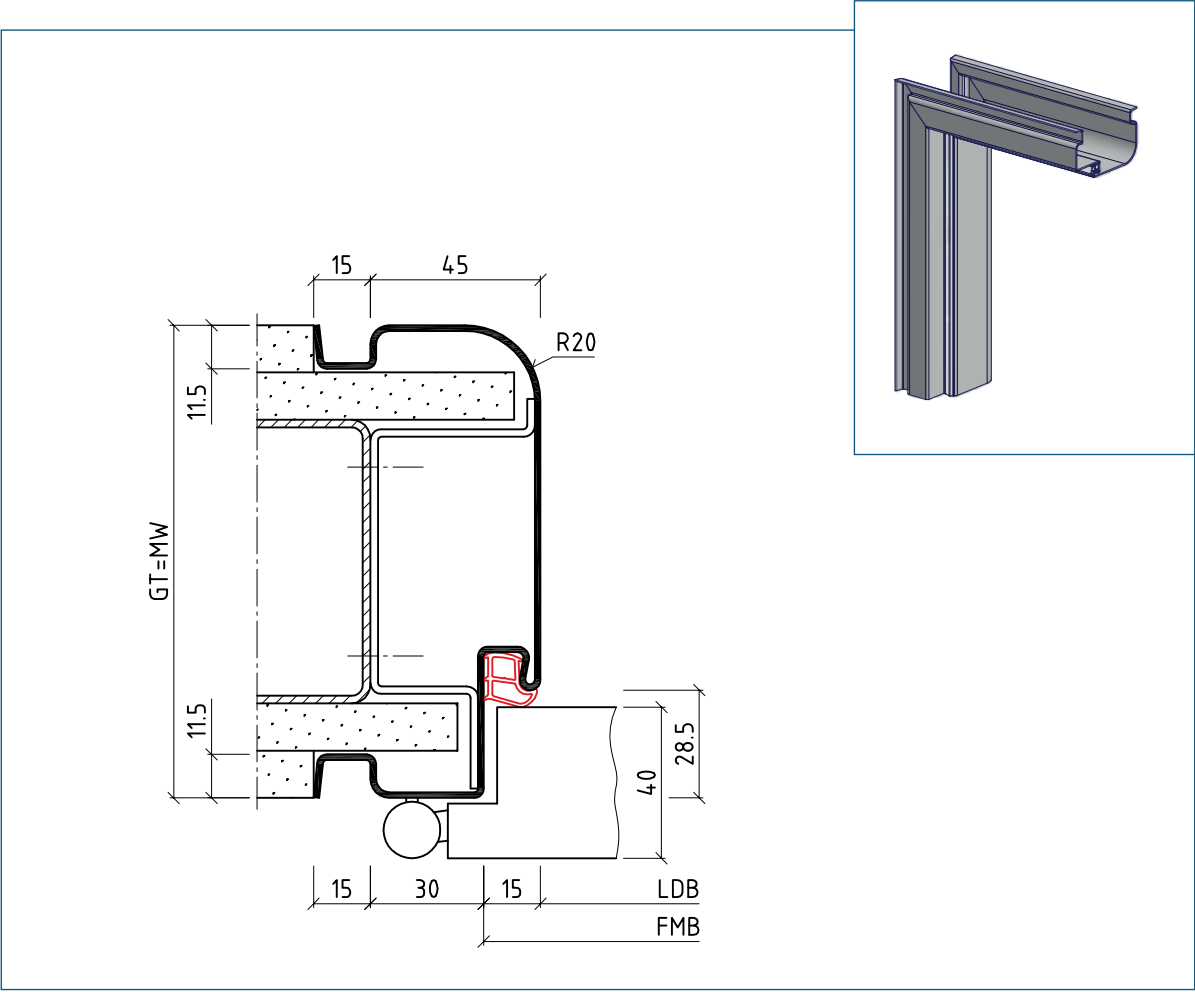
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Fax: +49 2572 203-209  
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# Non-Standard Frames

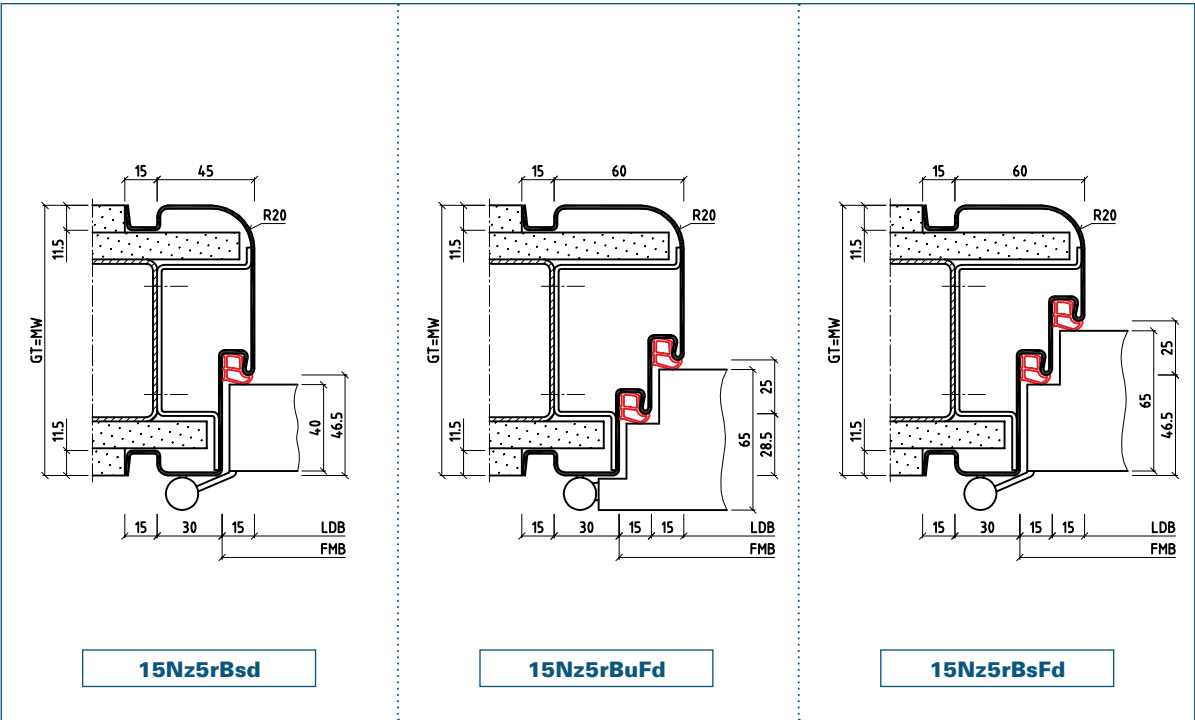
## Shadow Groove Frames



Designation code

Product description

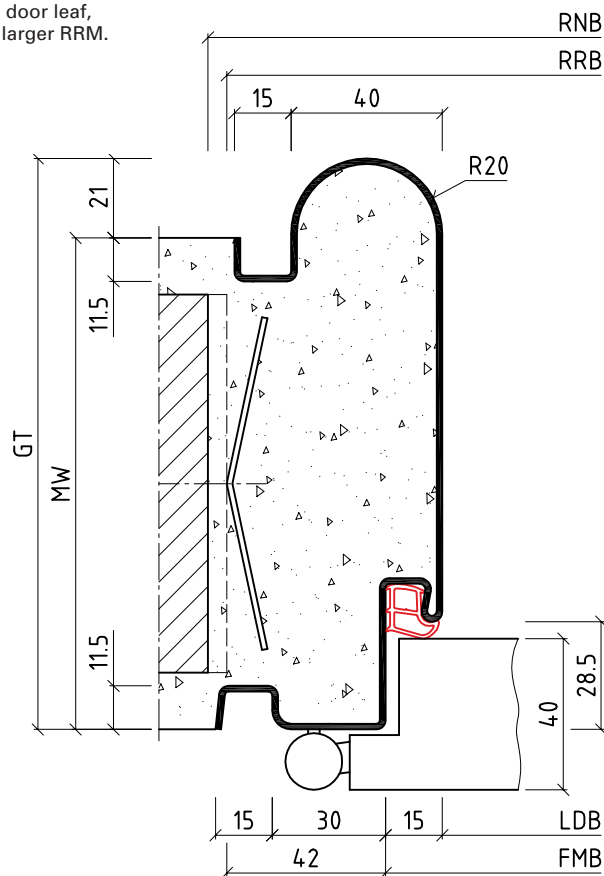
<b>15Nz5rBud</b>	<ul style="list-style-type: none"><li>- Round architrave frame with shadow groove (1 part)</li><li>- For stud walls</li><li>- Illustration with bracket anchor</li></ul>
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The illustrations are not for static information.

**Attention:**

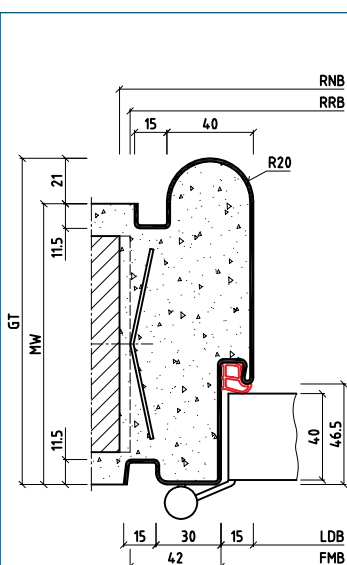
For a DIN door leaf,  
choose a larger RRM.


**Designation code**

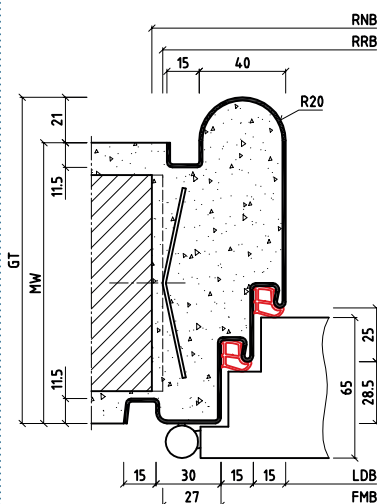
**15NzRgUud**

**Product description**

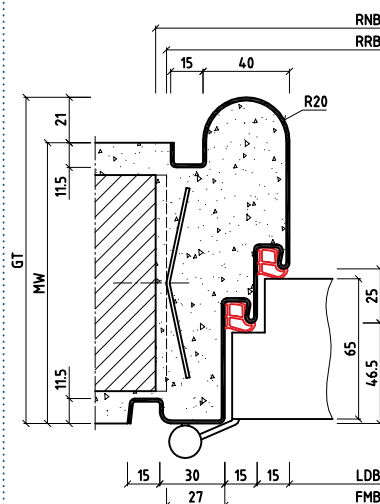
- Round architrave frame with shadow groove (1 part)
- For brick walls
- Illustration with propeller anchor



**15NzRgUsd**



**15NzRgUuFd**



**15NzRgUsFd**

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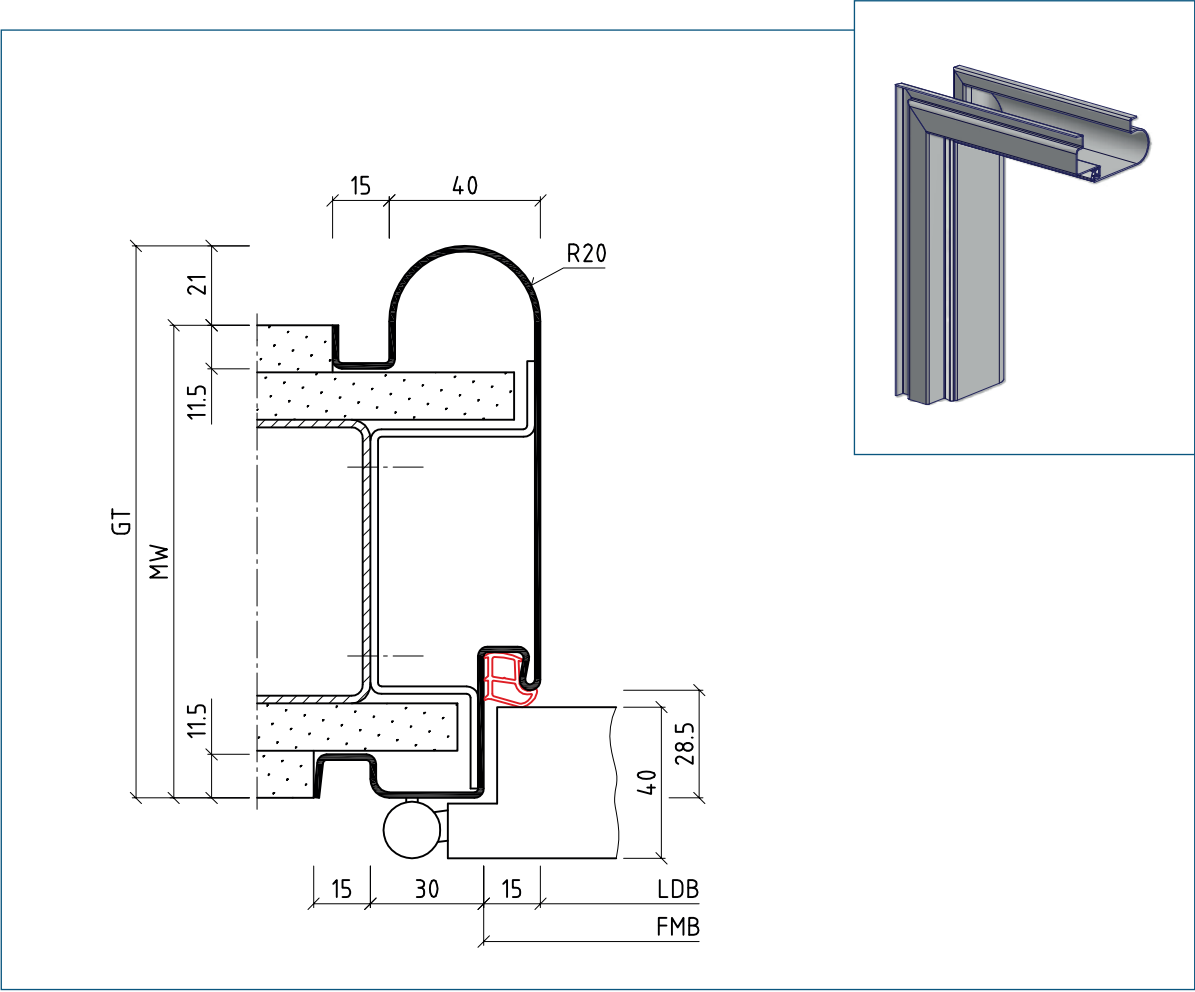
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information.

Version 6.0

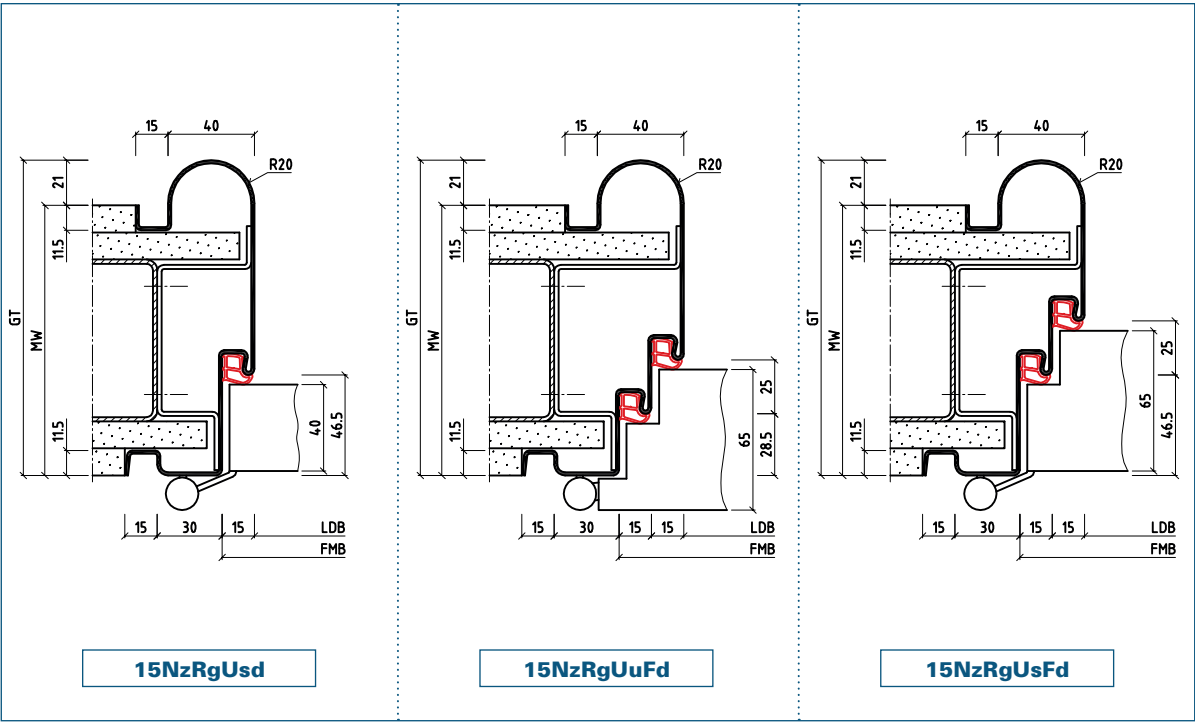




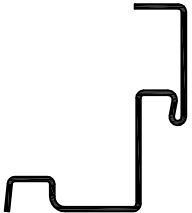
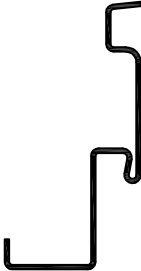
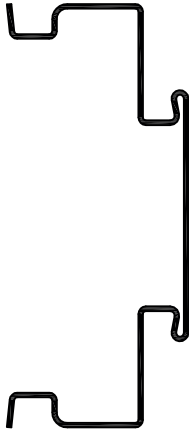
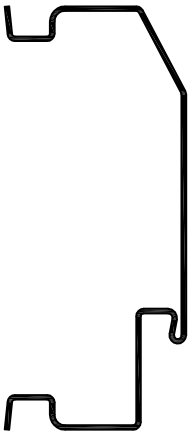
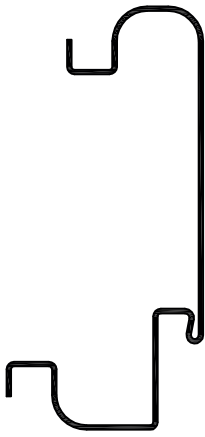
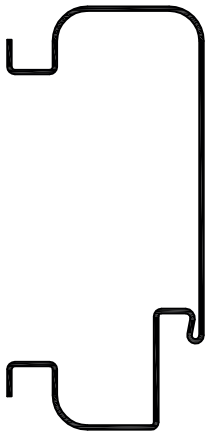
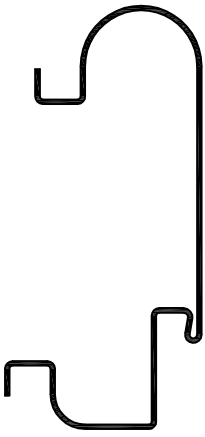
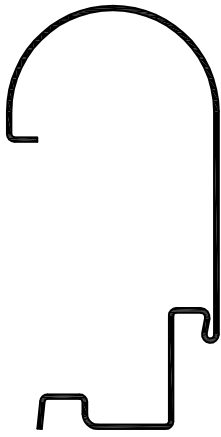

Designation code

Product description

<b>15NzRgUud</b>	<ul style="list-style-type: none"><li>- Round architrave frame with shadow groove (1 part)</li><li>- For stud walls</li><li>- Illustration with bracket anchor</li></ul>
------------------	--



Subject to technical change.  
The illustrations are not for static  
information.

<p>①</p>  <p>15NbEud</p>	<p>②</p>  <p>15NgEud</p>	<p>③</p>  <p>15NzOud</p>
<p>④</p>  <p>15NzcBud</p>	<p>⑤</p>  <p>15Nz1rUud</p>	<p>⑥</p>  <p>15Nz1rBud</p>
<p>⑦</p>  <p>15NzRg7rUud</p>	<p>⑧</p>  <p>15NbYgRgBud</p>	<p>⑨</p>  <p>15NzD</p>

Designation code

Product description

## Profile examples

- Shadow groove frames in various designs
- For brick or stud walls
- 2 part split versions also possible

## BOS Sales Department:

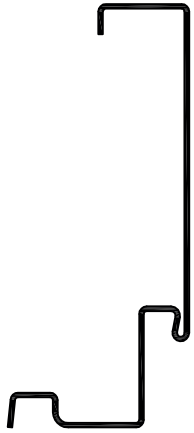
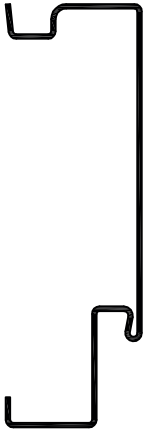
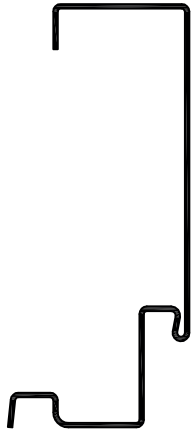
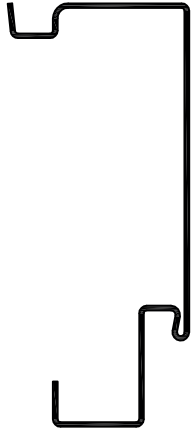
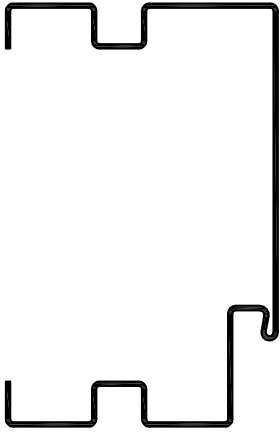
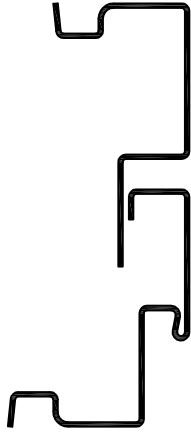
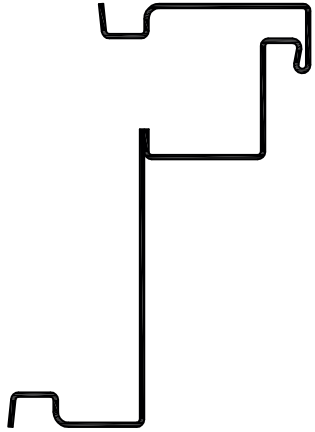
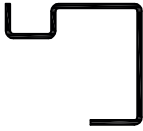
Tel: +49 2572 203-0  
Fax: +49 2572 203-109  
E-Mail: [info@BestOfSteel.de](mailto:info@BestOfSteel.de)

## BOS Architect Consulting Service:

Tel.: +49 2572 203-204  
Fax: +49 2572 203-209  
E-Mail: [architekten@BestOfSteel.de](mailto:architekten@BestOfSteel.de)

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information.

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<div>①</div> <div></div> <div>15NbUud</div>	<div>②</div> <div></div> <div>15NgUud</div>	<div>③</div> <div></div> <div>15NbBud</div>
<div>④</div> <div></div> <div>15NgBud</div>	<div>⑤</div> <div></div> <div>15NzmBud</div>	<div>⑥</div> <div></div> <div>15NzUuHd1</div>
<div>⑦</div> <div></div> <div>15NzTUud</div>	<div>⑧</div> <div></div> <div>15NgG</div>	<div>Other profiles as well as 10 or 15mm shadow grooves possible.</div> <div>Please note particular characteristics and installation steps!</div>

Designation code

Product description

<div>Profile examples</div>	<div>- Shadow groove frames in various designs - For brick or stud walls - 2 part split versions also possible</div>
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Subject to technical change.  
The illustrations are not for static information.



# Non-Standard Frames

## Slanting Soffit Frames

153

### Article

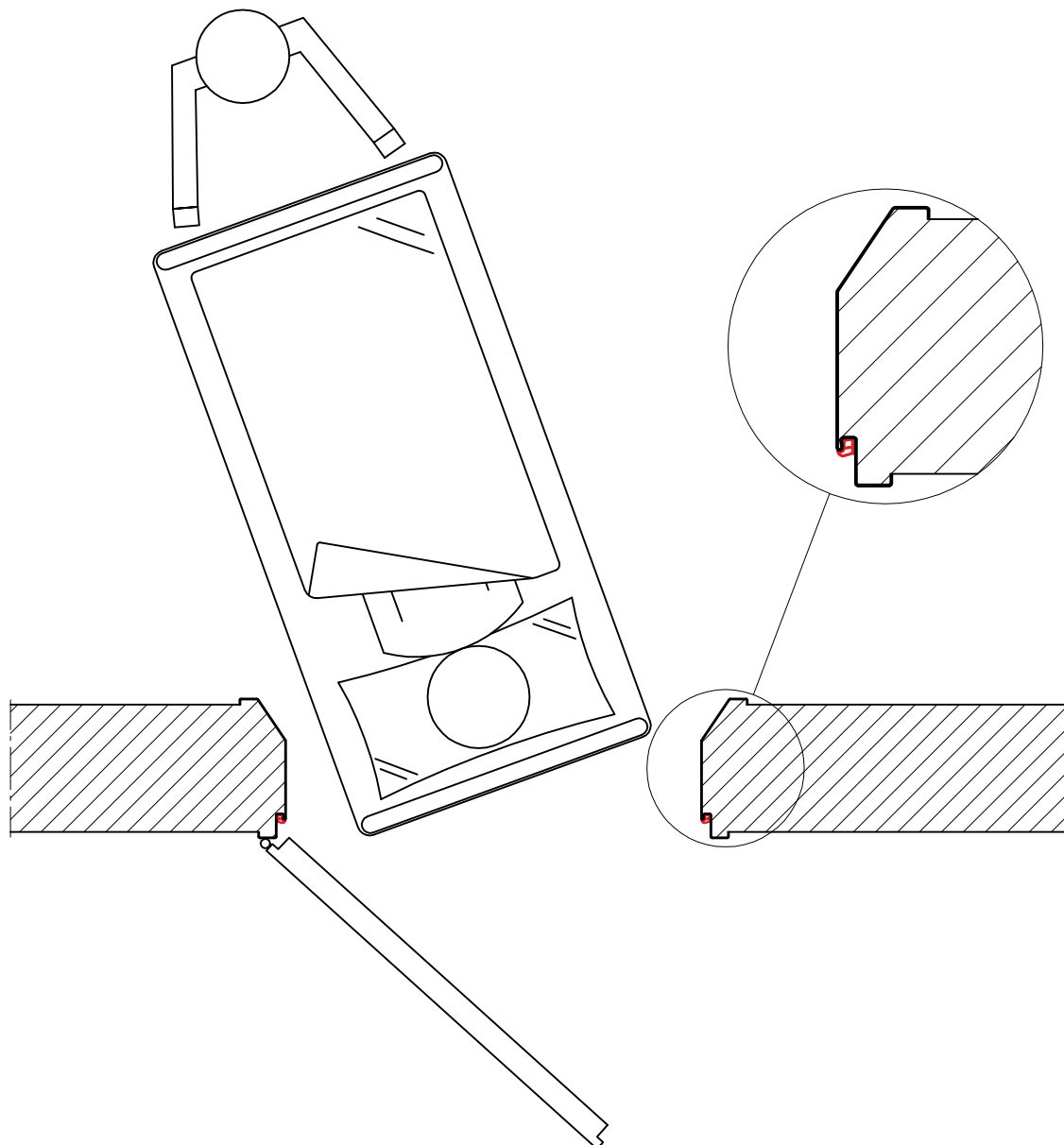
Due to their special construction, BOS slanting soffit frames are designed for use in hospitals, residential and nursing homes and barrier-free building. They are suitable for almost all wall types.

### Your advantages

- A significantly larger entry angle
- Hospital beds or wheelchairs can be pushed through the door opening more easily

### Our recommendations

- Pay attention to the installation measurements as they differ from those of a standard frame
- Ideal for barrier-free building



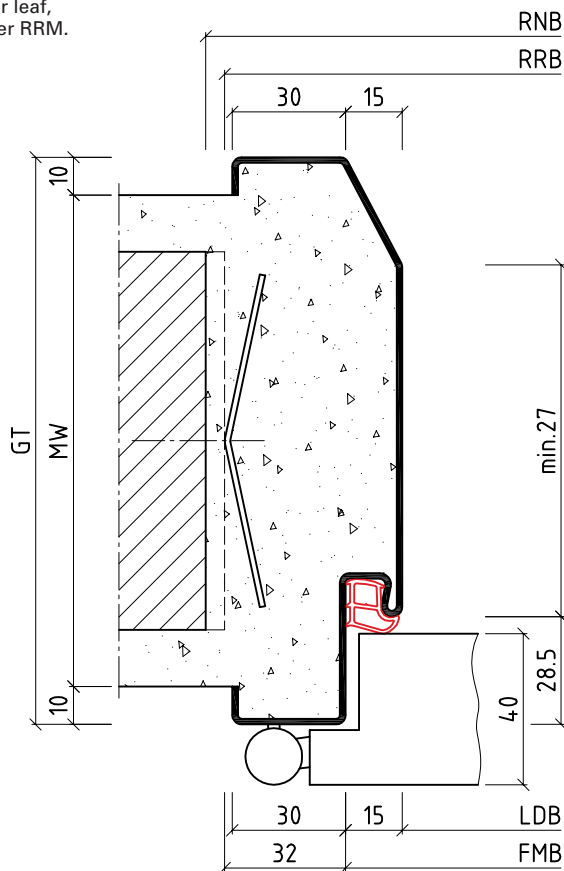
7

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The illustrations are not for static  
information.

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### Attention:

For a DIN door leaf,  
choose a larger RRM.

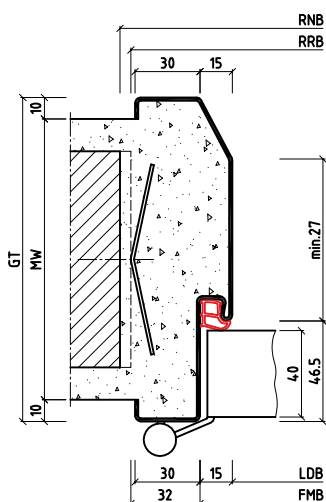


### Designation code

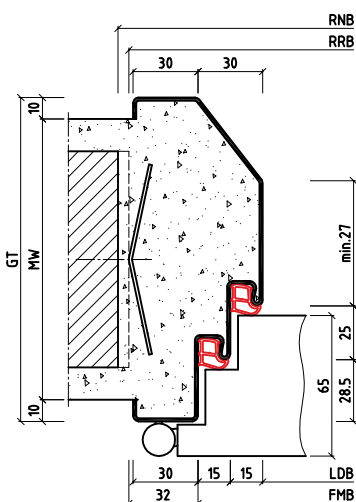
**cBud**

### Product description

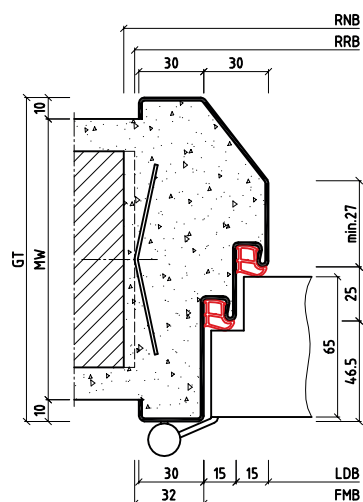
- Block frame with slanting soffit (1 part)
- For brick walls
- Illustration with propeller anchor



**cBsd**



**cBuFd**



**cBsFd**

### BOS Sales Department:

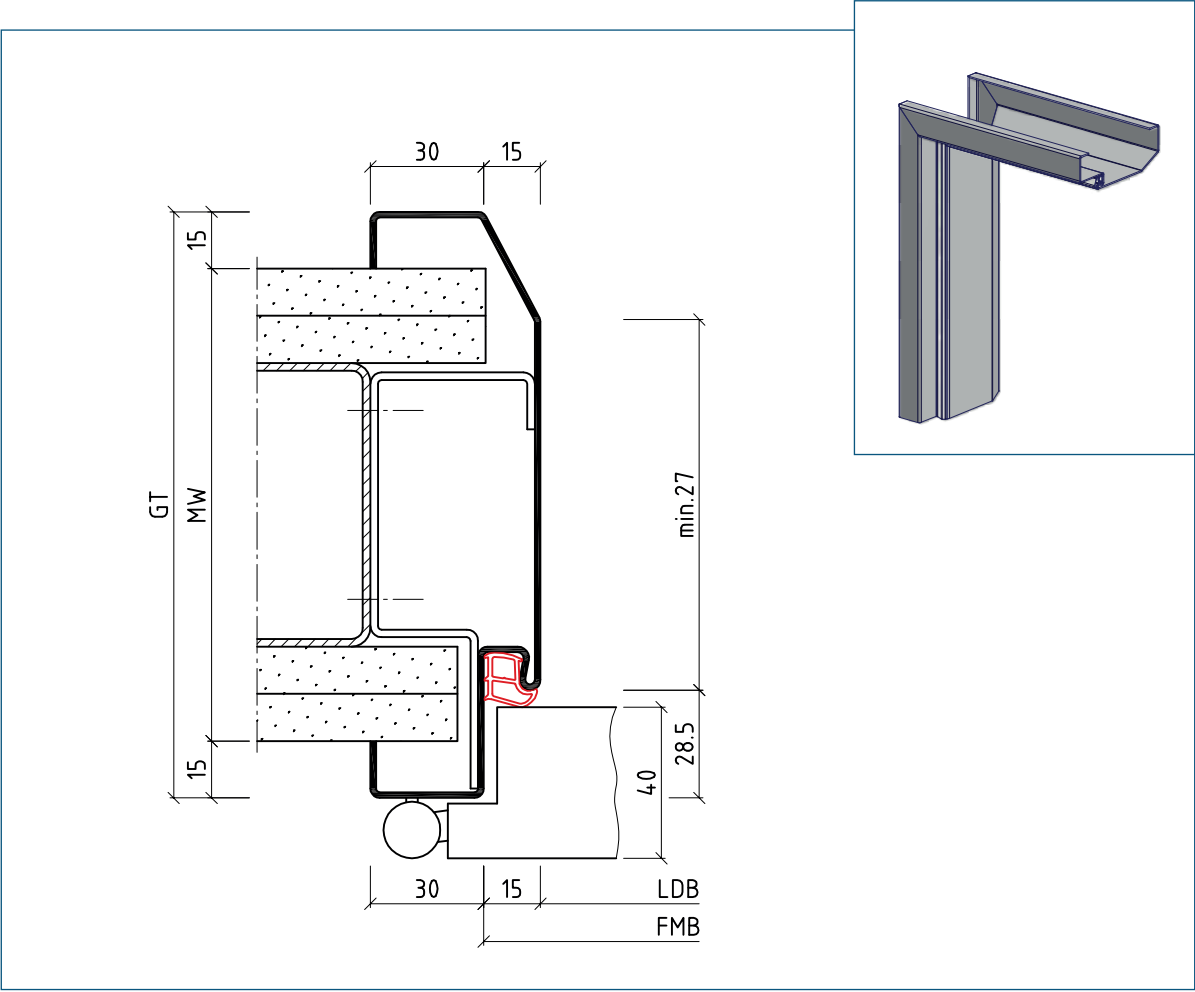
Tel: +49 2572 203-0  
Fax: +49 2572 203-109  
E-Mail: [info@BestOfSteel.de](mailto:info@BestOfSteel.de)

### BOS Architect Consulting Service:

Tel.: +49 2572 203-204  
Fax: +49 2572 203-209  
E-Mail: [architekten@BestOfSteel.de](mailto:architekten@BestOfSteel.de)

Subject to technical change.  
The illustrations are not for static  
information.

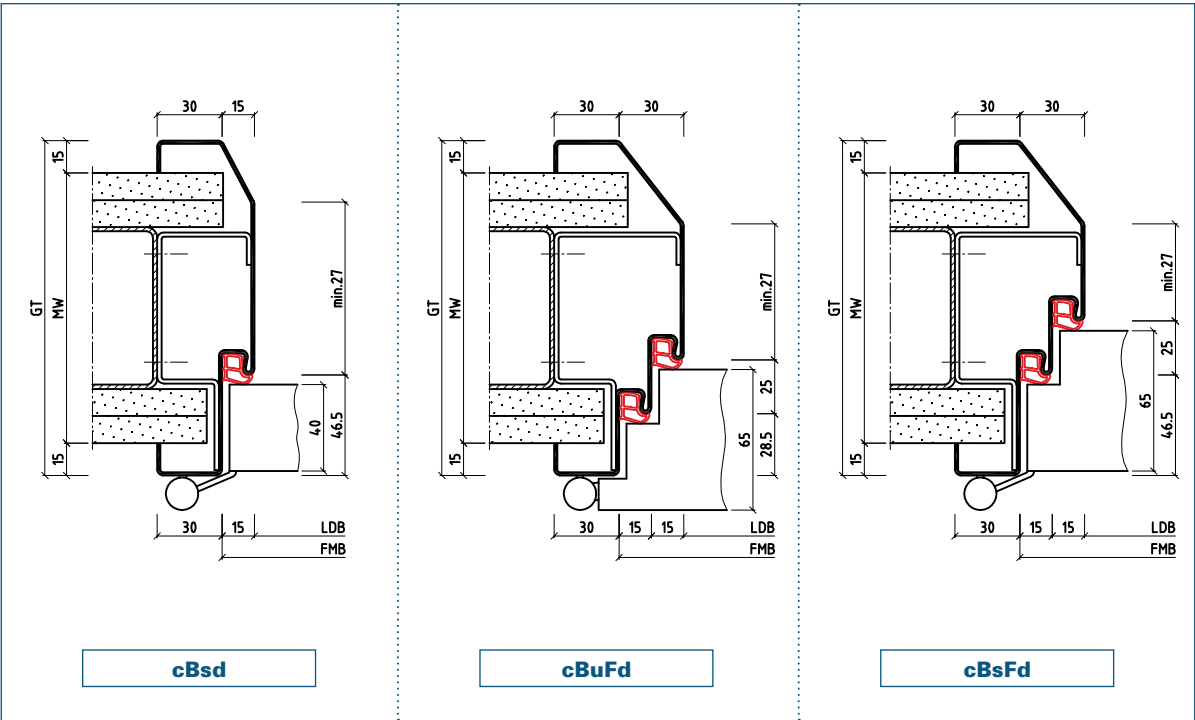
Version 6.0



Designation code

Product description

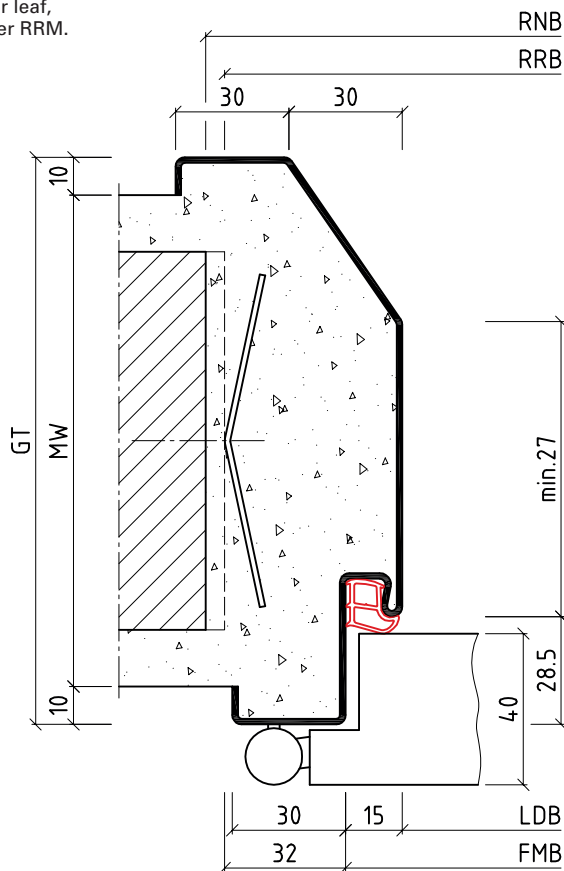
<b>cBud</b>	<ul style="list-style-type: none"><li>- Block frame with slanting soffit (1 part)</li><li>- For stud walls</li><li>- Illustration with bracket anchor</li></ul>
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Subject to technical change.  
The illustrations are not for static  
information.

**Attention:**

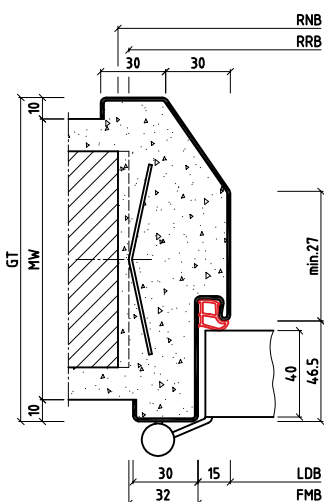
For a DIN door leaf,  
choose a larger RRM.


**Designation code**

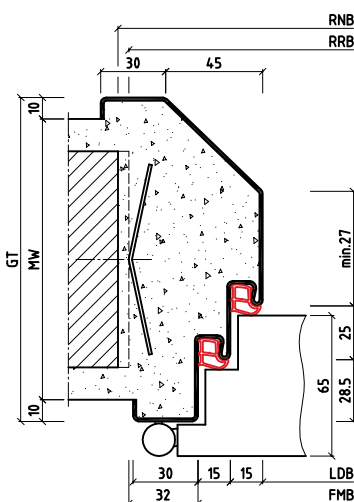
**cUud**

**Product description**

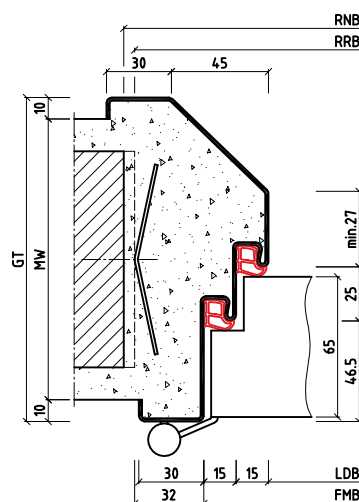
- Wrap around frame with slanting soffit (1 part)
- For brick walls
- Illustration with propeller anchor



**cUsd**



**cUuFd**



**cUsFd**

**BOS Sales Department:**

Tel: +49 2572 203-0  
Fax: +49 2572 203-109  
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**BOS Architect Consulting Service:**

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Fax: +49 2572 203-209  
E-Mail: [architekten@BestOfSteel.de](mailto:architekten@BestOfSteel.de)

Subject to technical change.  
The illustrations are not for static  
information.

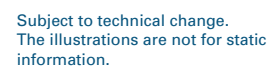
Version 6.0





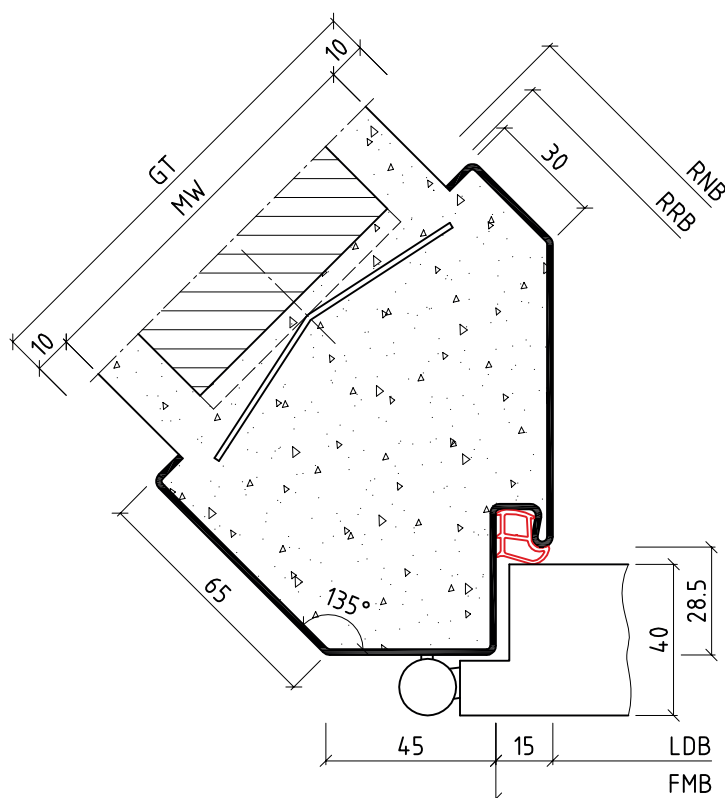
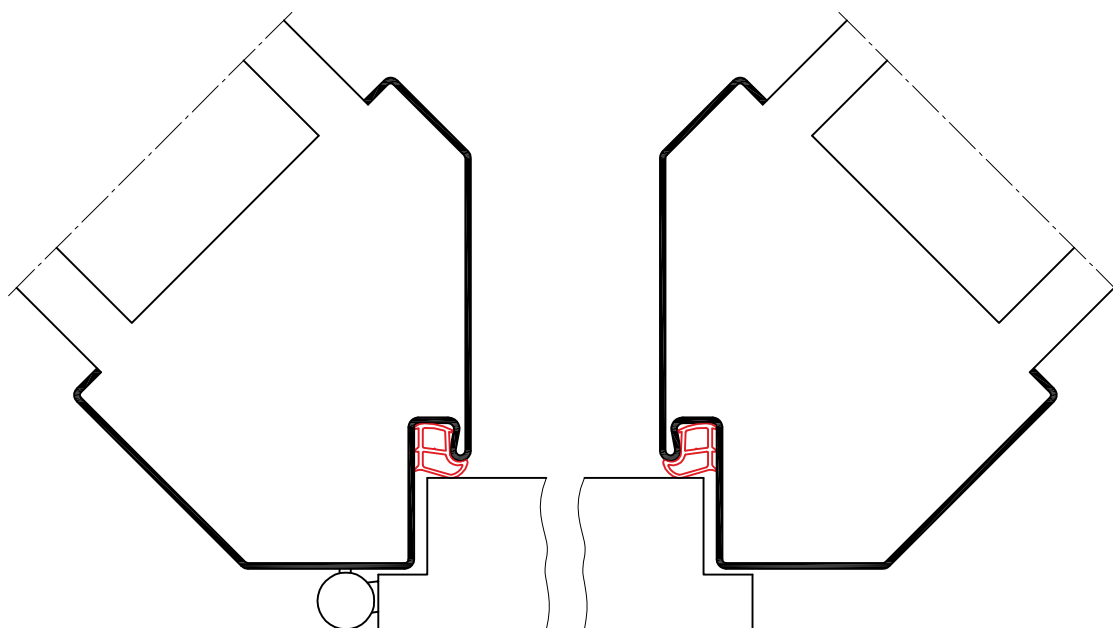
## Product description

- Wrap around frame with slanting soffit (1 part)
- For stud walls
- Illustration with bracket anchor



Note:

Frame comprises two side parts  
without a headpiece



Designation code

**QcBud**

Product description

- Steel frame for a 45° wall connection (1 part)
- For brick walls
- Illustration with propeller anchor

**BOS Sales Department:**

Tel: +49 2572 203-0  
Fax: +49 2572 203-109  
E-Mail: [info@BestOfSteel.de](mailto:info@BestOfSteel.de)

**BOS Architect Consulting Service:**

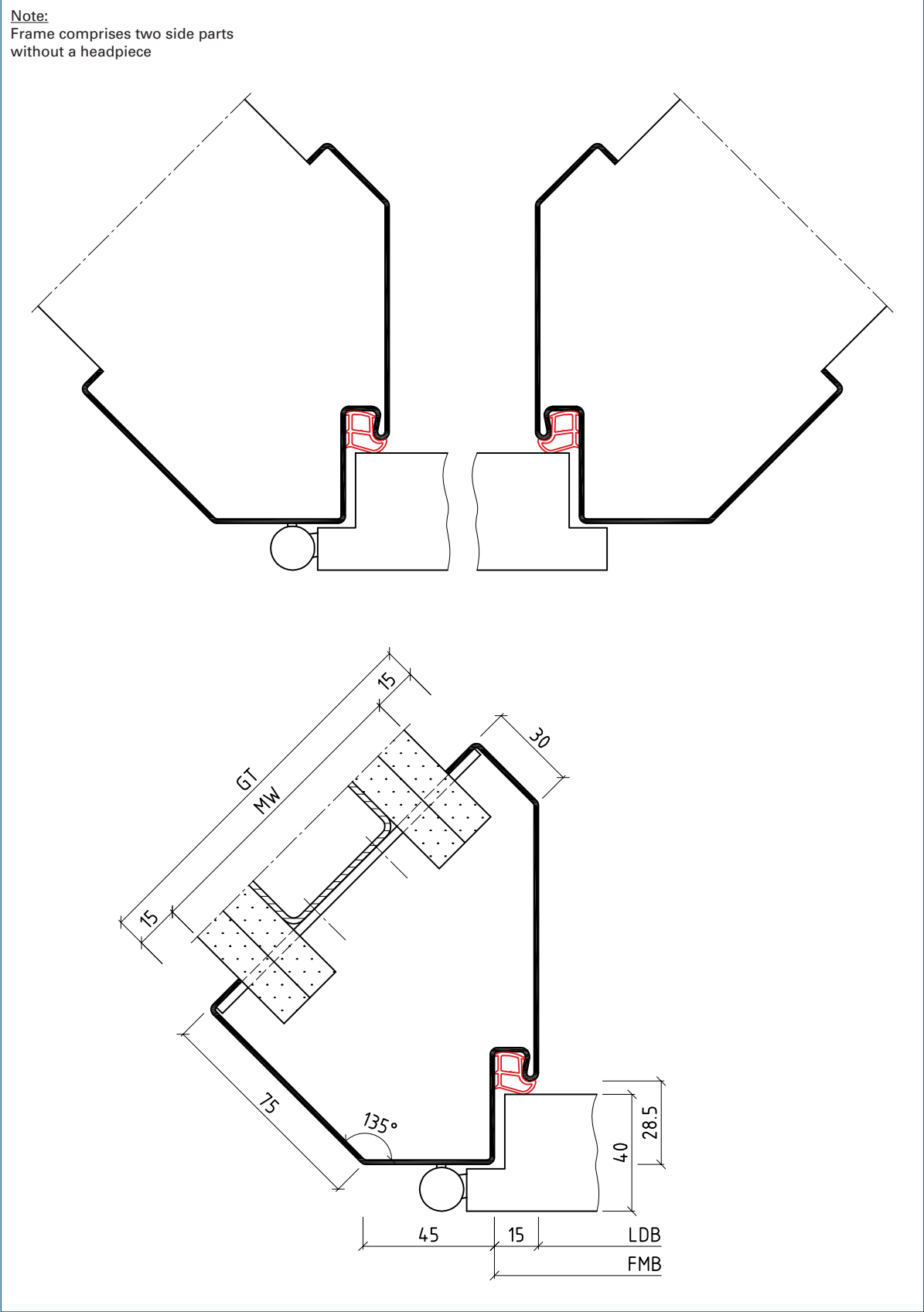
Tel: +49 2572 203-204  
Fax: +49 2572 203-209  
E-Mail: [architekten@BestOfSteel.de](mailto:architekten@BestOfSteel.de)

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information.

**Version 6.0**

# Non-Standard Frames

## Slanting Soffit Frames



Designation code

**QcBud**

Product description

- Steel frame for a 45° wall connection (1 part)
- For stud walls
- Illustration with flat steel anchor

Subject to technical change.  
The illustrations are not for static  
information.

#### Article

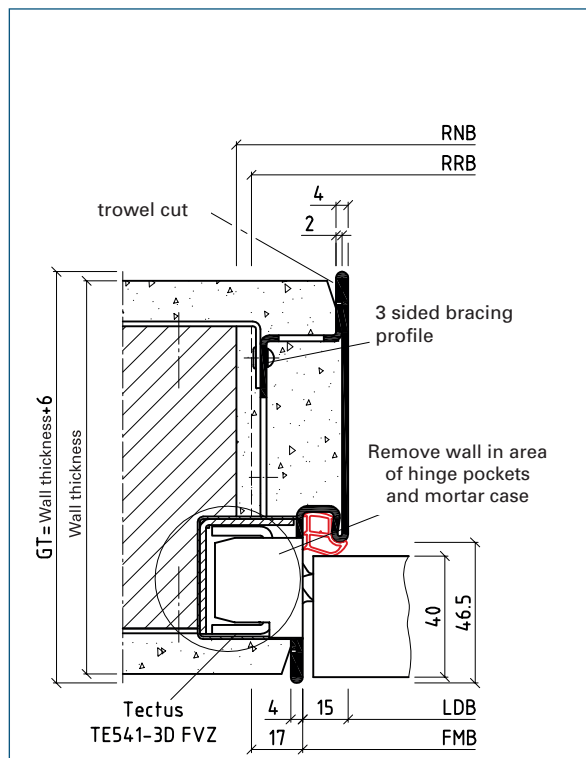
The filigree Sino frame is suitable for brick and stud walls. It is characterized by an extremely narrow frame architrave and provides an unmistakable visual effect. Sino frames are only suitable for flush doors and are available as a 1 part design.

#### Your advantages

- An attractive visual effect due to the continuous flush line of the wall, frame and door

#### Our recommendations

- For buildings with modern architecture
- Use concealed hinges Tectus TE541-3D FVZ for a flush-mount appearance

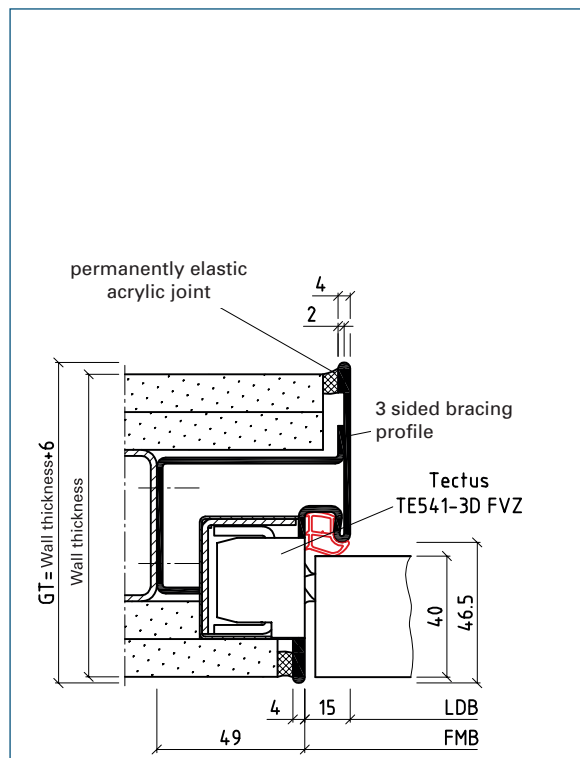


Designation  
code

**osd**

Product  
description

- Sino frame without architrave (1 part)
- For brick walls
- Illustration for concealed hinge Tectus TE541-3D FVZ



Designation  
code

**osd**

Product  
description

- Sino frame without architrave (1 part)
- For stud walls
- Illustration for concealed hinge Tectus TE541-3D FVZ

#### BOS Sales Department:

Tel: +49 2572 203-0  
Fax: +49 2572 203-109  
E-Mail: [info@BestOfSteel.de](mailto:info@BestOfSteel.de)

#### BOS Architect Consulting Service:

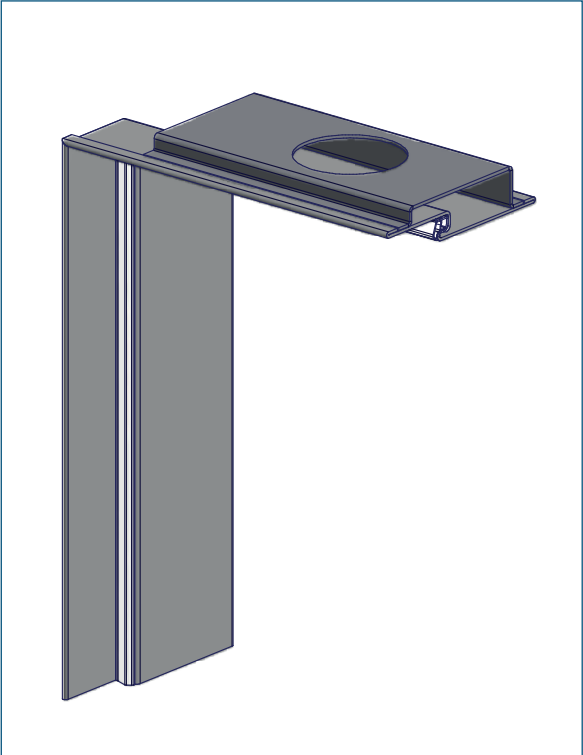
Tel: +49 2572 203-204  
Fax: +49 2572 203-209  
E-Mail: [architekten@BestOfSteel.de](mailto:architekten@BestOfSteel.de)

Subject to technical change.  
The illustrations are not for static  
information.

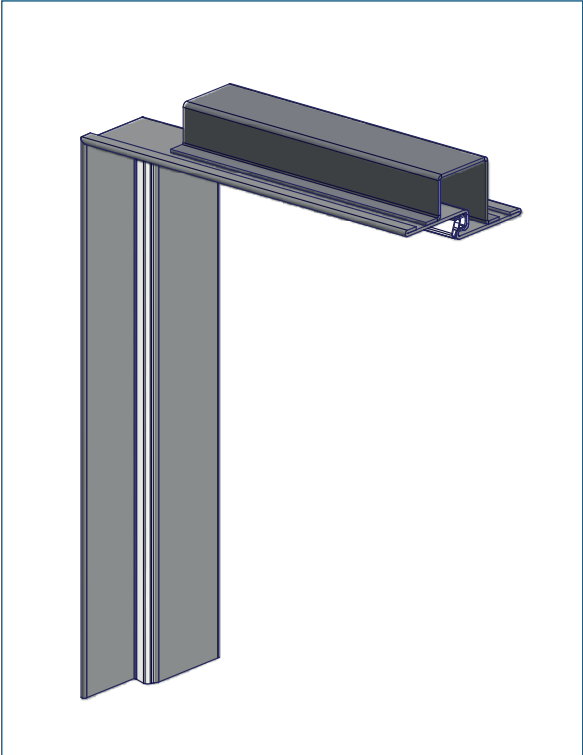
Version 6.0

# Non-Standard Frames

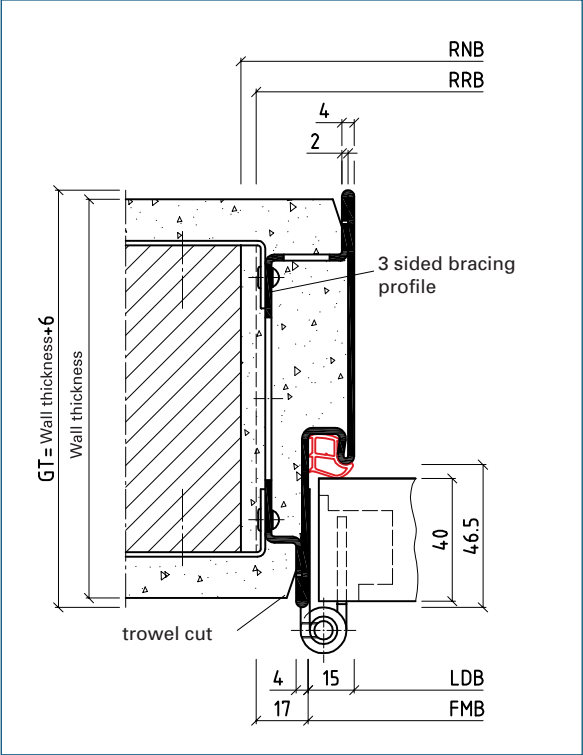
## Sino Frames without Architrave



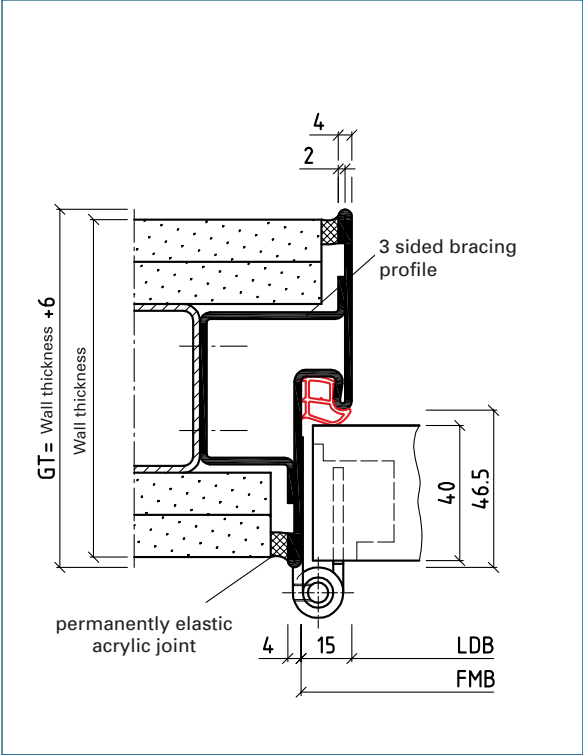
Designation code	<b>osd</b>
Product description	<ul style="list-style-type: none"> <li>- Sino frame without architrave (1 part)</li> <li>- For brick walls</li> <li>- For subsequent backfilling</li> </ul>



Designation code	<b>osd</b>
Product description	<ul style="list-style-type: none"> <li>- Sino frame without architrave (1 part)</li> <li>- For stud walls</li> <li>- For installation together with the wall</li> </ul>



Designation code	<b>osd</b>
Product description	<ul style="list-style-type: none"> <li>- Sino frame without architrave (1 part)</li> <li>- For brick walls</li> <li>- Illustration with 3 sided bracing profile</li> </ul>



Designation code	<b>osd</b>
Product description	<ul style="list-style-type: none"> <li>- Sino frame without architrave (1 part)</li> <li>- For stud walls</li> <li>- Illustration with 3 sided bracing profile</li> </ul>

Subject to technical change.  
The illustrations are not for static information.



# Non-Standard Frames

## Special Frames for Bi-fold Doors

163

### Article

BOS special frames for bi-fold doors are frames with an integrated overhead track. Bi-fold doors are ideally suitable for buildings where a sliding door can not be installed due to lack of space.

### Your advantages

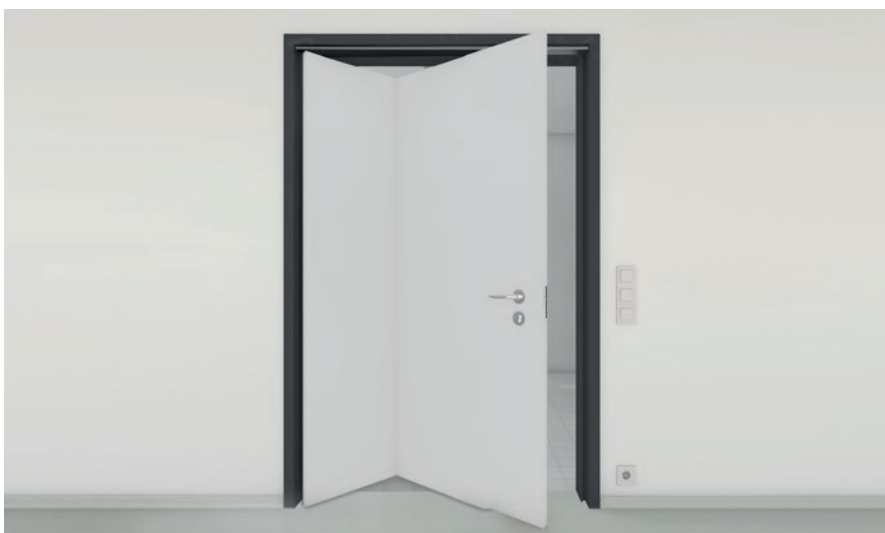
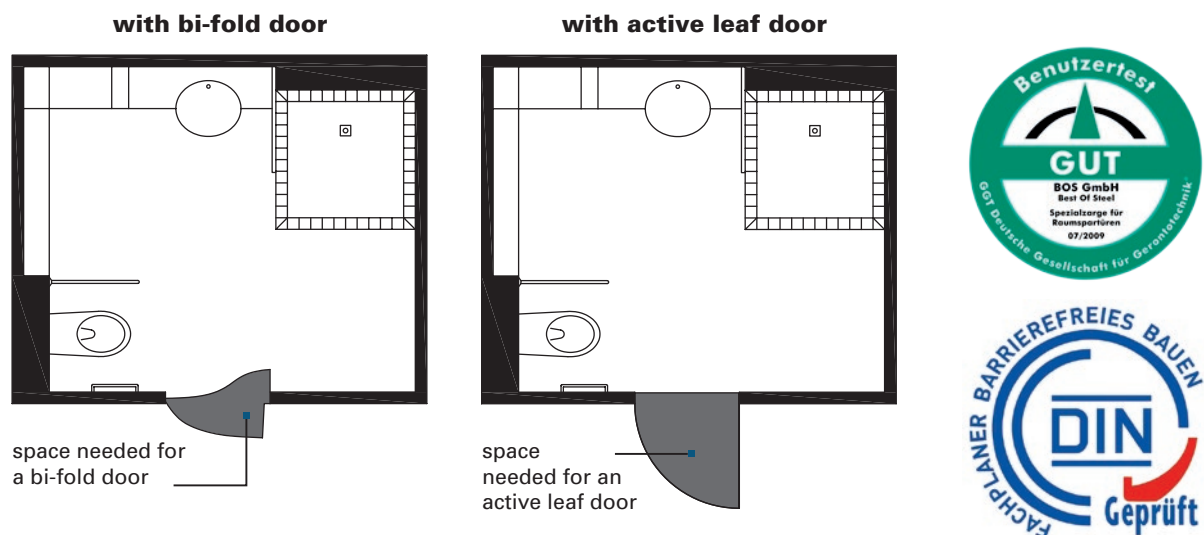
- More freedom of movement due to the small opening space required for the door (special opening technique)
- Barrier-free accessibility
- Easy handling for wheelchair or walker users
- Various designs possible, according to your requests and the building situation
- Frames also available in inox 304 and 316ti stainless steel for particular hygiene requirements

### Our recommendations

- When calculating the clearance width make sure to take the fold of the door leaf into account

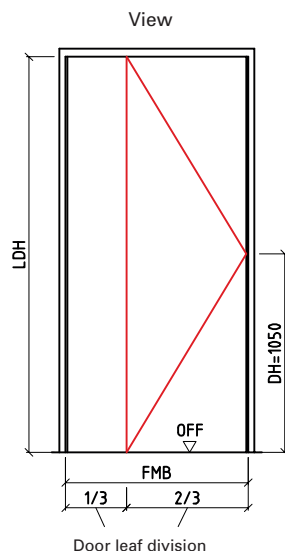
## Ideal for barrier-free building!

7



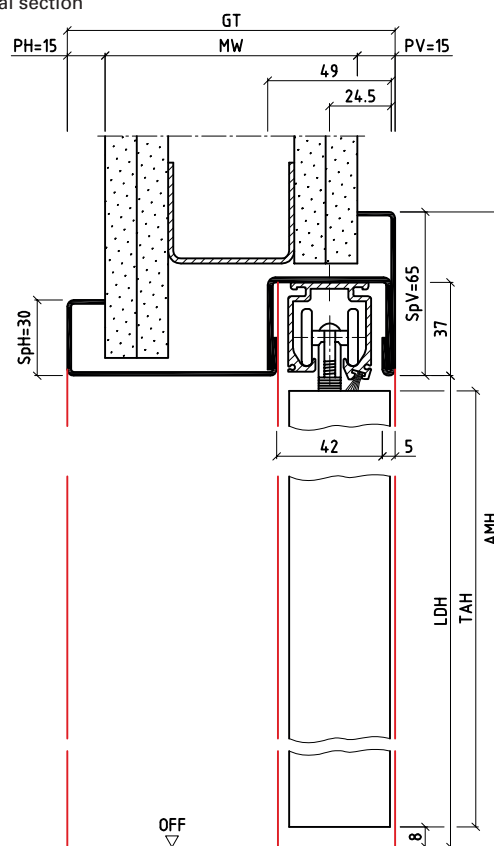
Subject to technical change.  
The illustrations are not for static  
information.

FMB	=	TAB + 11 mm
LDB	=	FMB - 30 mm
LDH	=	TAH + 14 mm
AMB	=	FMB + 100 mm
AMH	=	LDH + 65 mm
TAB	=	FMB - 11 mm
TAH	=	LDH - 14 mm



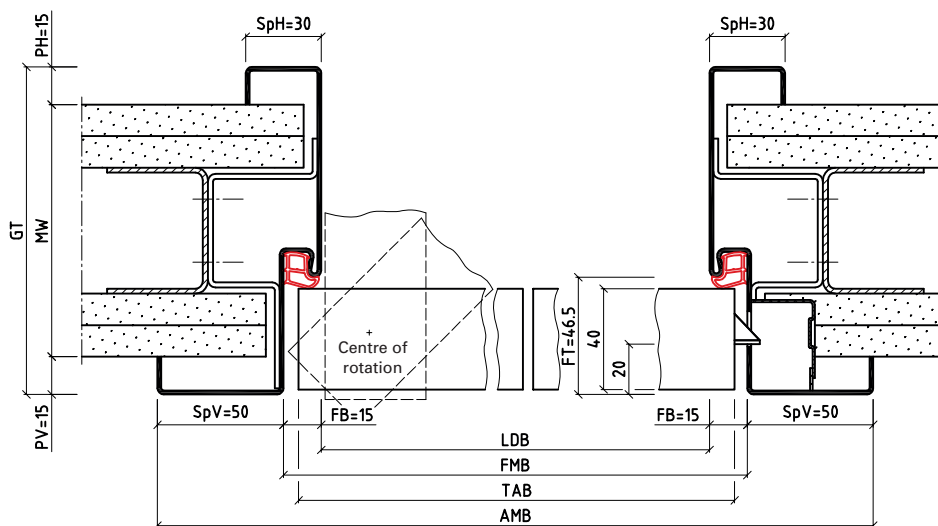
View: DIN left  
Mirror image: DIN right

Vertical section



Back part of the frame

Horizontal section



Hinge side of the frame    Rebate side of the frame    Lock side of the frame

### Typenschlüssel

**QUsd**

### Produktbeschreibung

- Special frame for bi-fold doors (1 part)
- Calculation basis
- For stud walls

### BOS Sales Department:

Tel: +49 2572 203-0  
Fax: +49 2572 203-109  
E-Mail: info@BestOfSteel.de

### BOS Architect Consulting Service:

Tel.: +49 2572 203-204  
Fax: +49 2572 203-209  
E-Mail: architekten@BestOfSteel.de

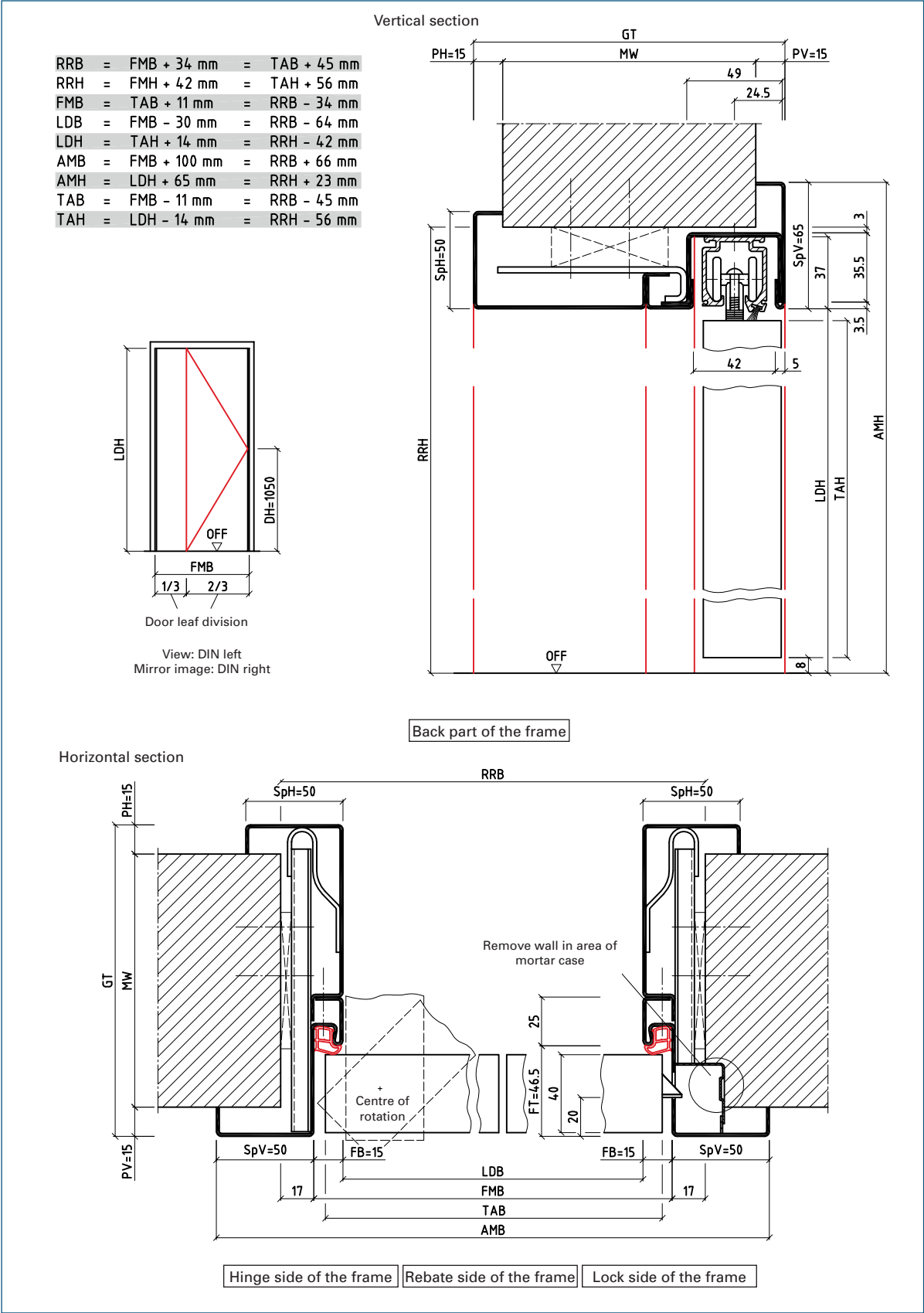
Subject to technical change.  
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Version 6.0



# Non-Standard Frames

## Special Frames for Bi-fold Doors



### Typenschlüssel

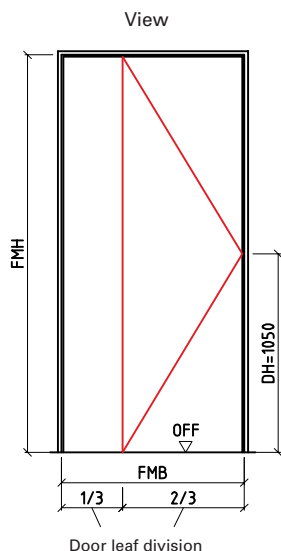
**QwUsd**

### Produktbeschreibung

- Special frame for bi-fold doors (2 part split)
- Calculation basis
- For brick walls

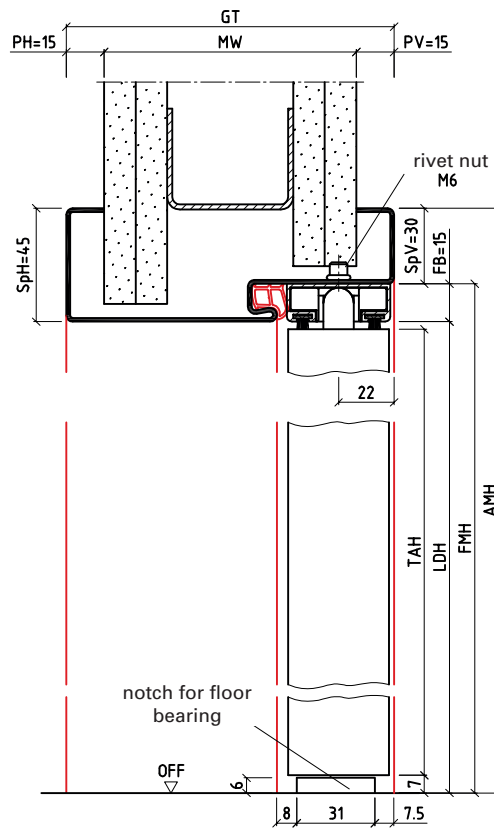
Subject to technical change.  
The illustrations are not for static information.

FMB	=	TAB + 11 mm
FMH	=	TAH + 25 mm
LDB	=	FMB - 30 mm
LDH	=	FMB - 15 mm
AMB	=	FMB + 60 mm
AMH	=	FMH + 30 mm
TAB	=	FMB - 11 mm
TAH	=	FMH - 25 mm



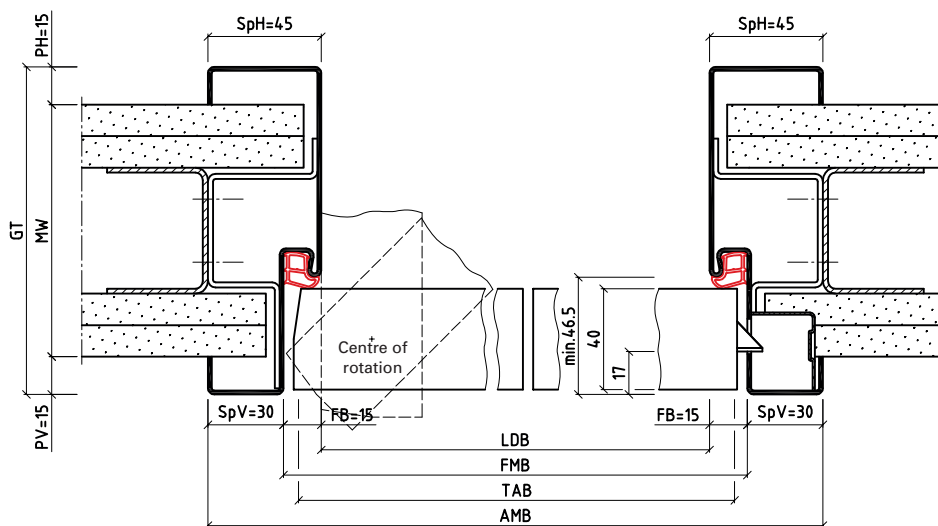
View: DIN left  
Mirror image: DIN right

Vertical section



Back part of the frame

Horizontal section



Hinge side of the frame    Rebate side of the frame    Lock side of the frame

### Typenschlüssel

**Bsd**

### Produktbeschreibung

- Special frame for bi-fold doors (1 part)
- Calculation basis
- For stud walls

### BOS Sales Department:

Tel: +49 2572 203-0  
Fax: +49 2572 203-109  
E-Mail: info@BestOfSteel.de

### BOS Architect Consulting Service:

Tel.: +49 2572 203-204  
Fax: +49 2572 203-209  
E-Mail: architekten@BestOfSteel.de

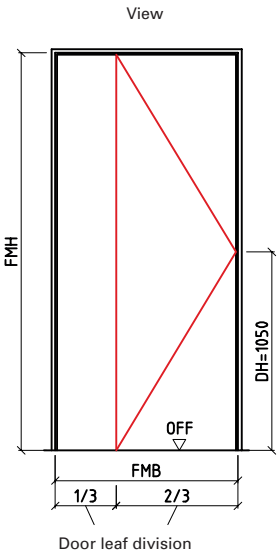
Subject to technical change.  
The illustrations are not for static information.

Version 6.0

# Non-Standard Frames

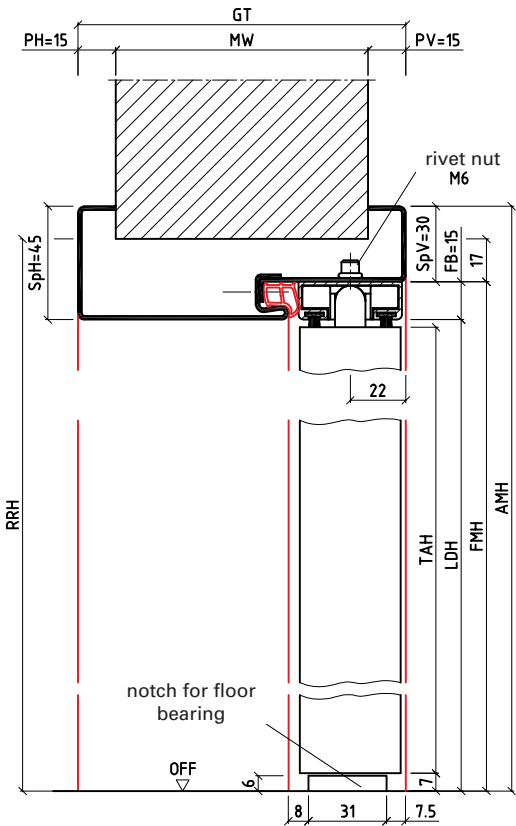
## Special Frames for Bi-fold Doors

RRB	=	FMB + 34 mm	=	TAB + 45 mm
RRH	=	FMH + 17 mm	=	TAH + 42 mm
FMB	=	TAB + 11 mm	=	RRB - 34 mm
FMH	=	TAH + 25 mm	=	RRB - 17 mm
LDB	=	FMB - 30 mm	=	RRB - 64 mm
LDH	=	FMH - 15 mm	=	RRH - 32 mm
AMB	=	FMB + 60 mm	=	RRB + 26 mm
AMH	=	FMH + 30 mm	=	RRH + 13 mm
TAB	=	FMB - 11 mm	=	RRB - 45 mm
TAH	=	FMH - 25 mm	=	RRH - 42 mm



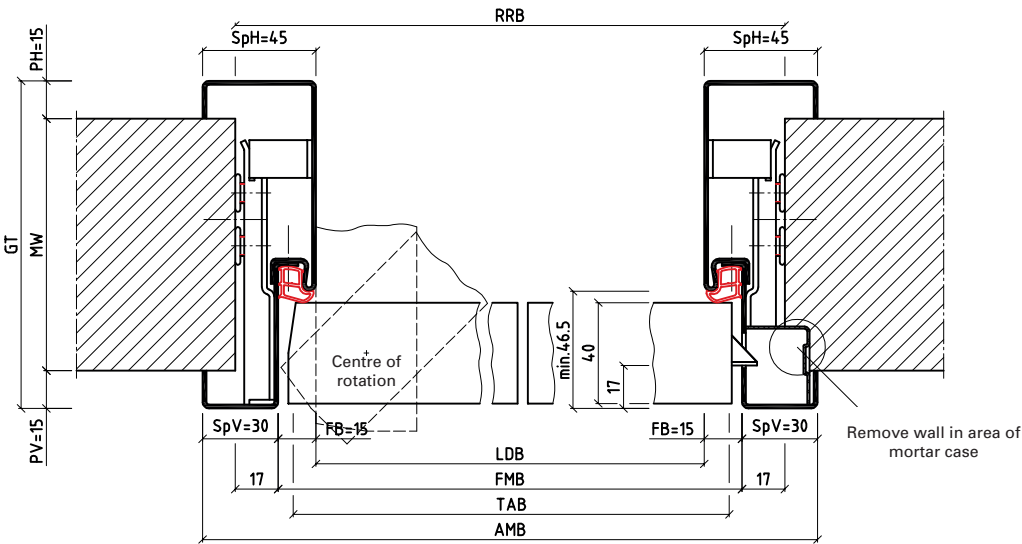
View: DIN left  
Mirror image: DIN right

Vertical section



Back part of the frame

Horizontal section



Hinge side of the frame    Rebate side of the frame    Lock side of the frame

### Typenschlüssel

**152Bsd**

### Produktbeschreibung

- Special frame for bi-fold doors (2 part split)
- Calculation basis
- For brick walls

Subject to technical change.  
The illustrations are not for static information.

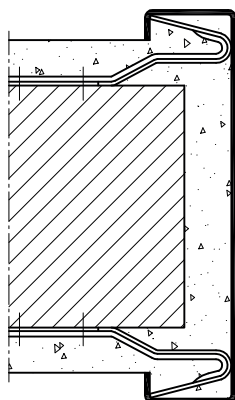


# Non-Standard Frames

## Wall and Corner Cover Profiles

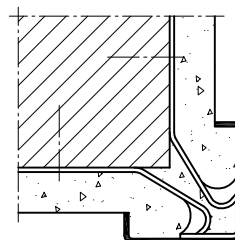
Article	Wall termination and corner cover profiles in a variety of designs protect the edges and corners of walls or wall soffits. They prevent plaster chipping, providing a lasting well-maintained impression.
Your advantages	<ul style="list-style-type: none"><li>• Delivered according to length measurement</li><li>• Available in stainless steel</li></ul>

①



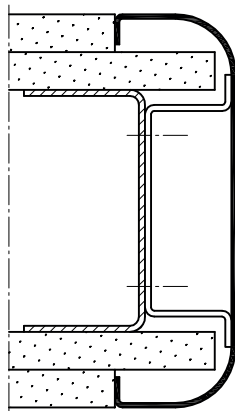
Wall termination profile Type 1

②



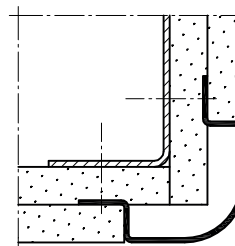
Corner cover profile Type 1

③



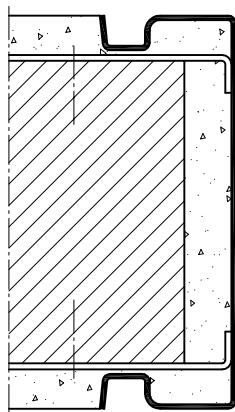
Wall termination profile Type 2

④



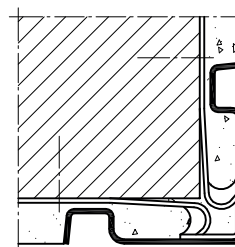
Corner cover profile Type 2

⑤



Wall termination profile Type 3

⑥



Corner cover profile Type 3

Designation code

Product description

## Profile examples

- Wall termination and corner cover profiles
- For brick or stud walls
- Other profile forms possible

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### Article

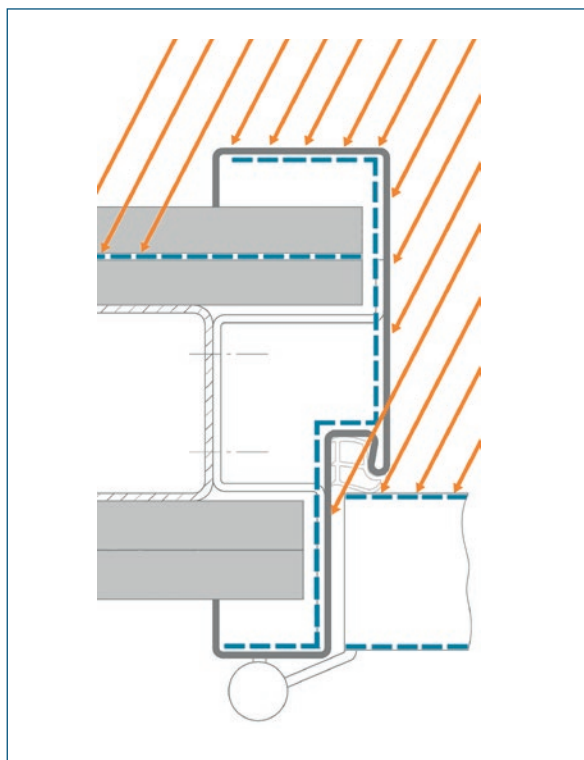
Almost all BOS frame profiles can be lined with lead (full or partial lining), so that the passing of X-rays, electron rays and gamma rays is prevented to the greatest possible extent. Varying lead equivalents are required depending on the tube voltage range involved, these are achieved by using different amounts of lead layers.

### Your advantages

- Suitable lead inserts (lead equivalents) for almost all emission levels
- With additional XXL anchors for strengthening on the hinge side (see page 274)

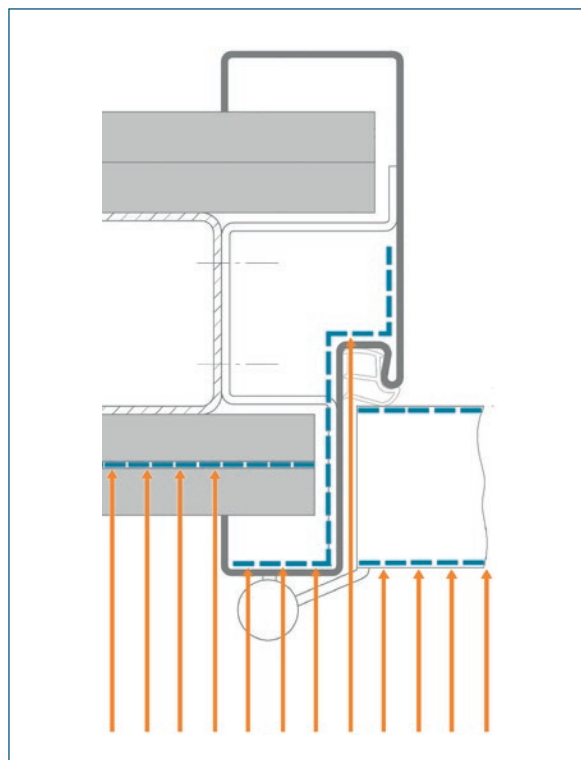
### Our recommendations

- 3D hinge pockets and 2mm sheet thickness as the doors are heavier because of the lead lining
- If the wall is lead lined where the back part of the frame is to be installed, a full lining of the frame is imperative
- Note the permissible load values of the hinges



#### Full lead lining

If the wall is lined with lead on the opposite side to the door, a full lead lining is imperative.



#### Partial lead lining

If the wall is lined with lead on the same side as the door, a partial lead lining is sufficient.

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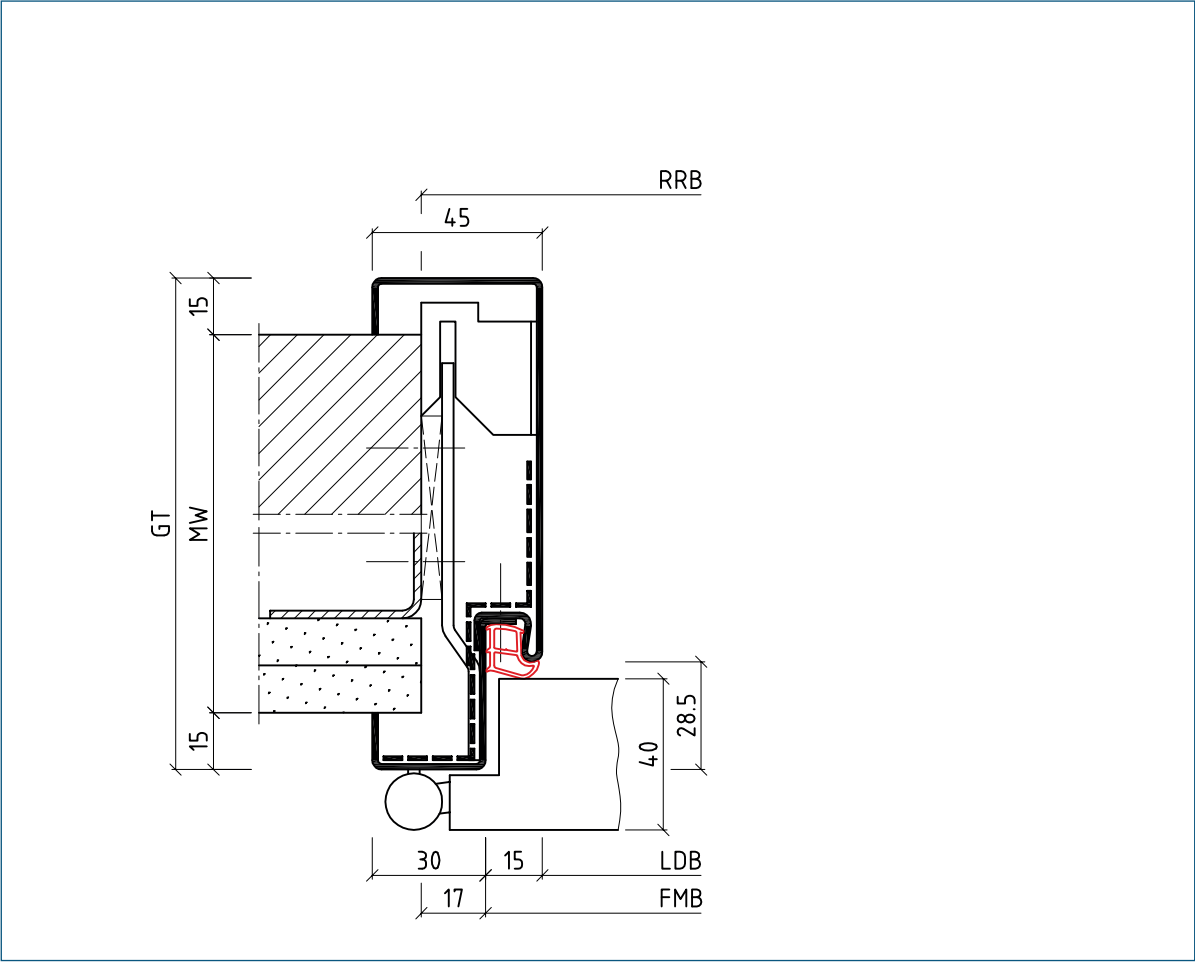
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# Non-Standard Frames

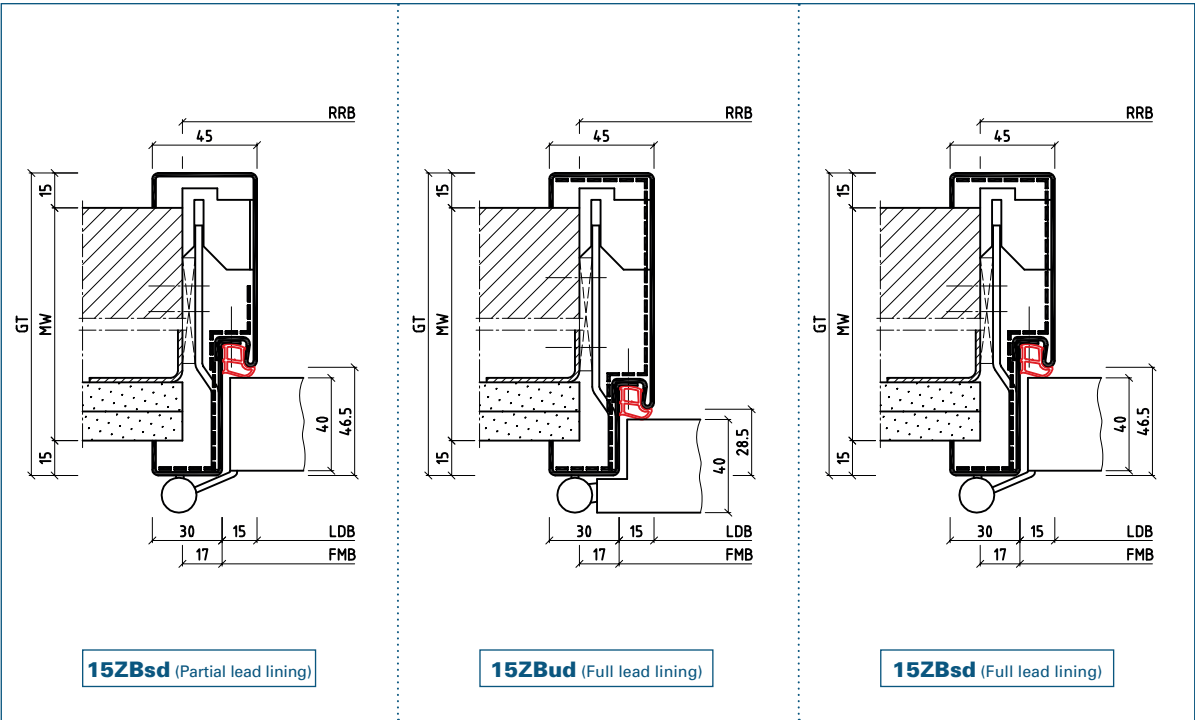
## Frame Profiles with Lead Lining



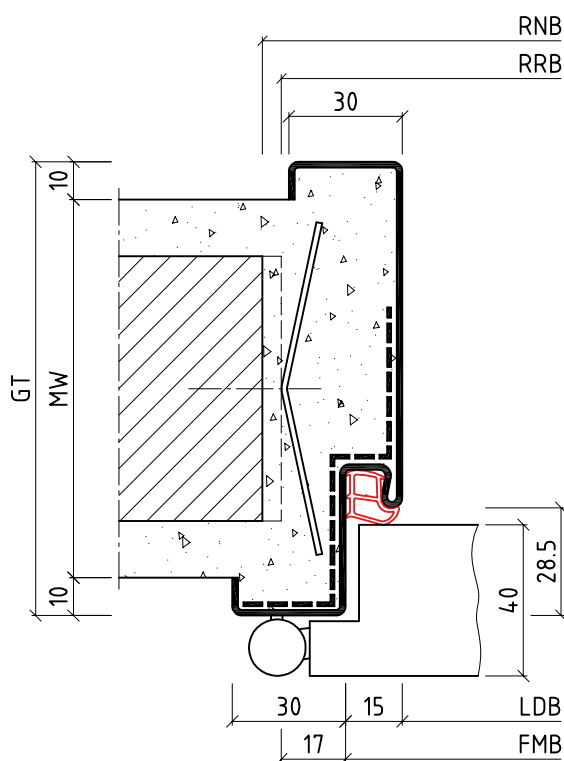
Designation code

Product description

<b>152Bud</b>	<ul style="list-style-type: none"><li>- Block frame with partial lead lining (2 part split)</li><li>- For almost all wall types</li><li>- Illustration with flat steel anchor</li></ul>
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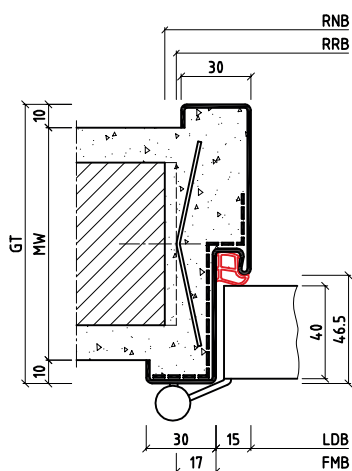


### Designation code

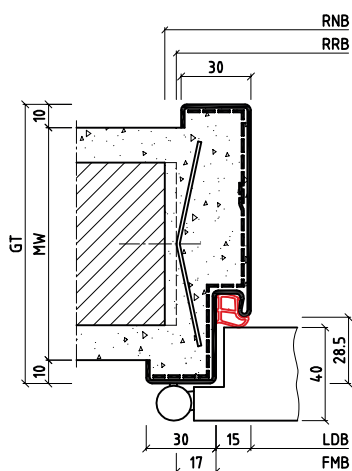
**Uud**

### Product description

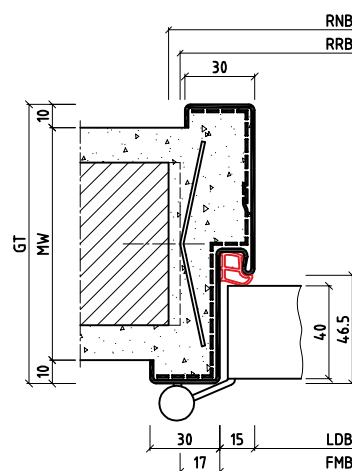
- Wrap around frame with partial lead lining (1 part)
- For brick walls
- Illustration with propeller anchor



**Uud** (Partial lead lining)



**Uud** (Full lead lining)



**Uud** (Full lead lining)

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BOS element frames offer extra window area and thus contribute to light and friendly interior rooms.

Through optimal light conditions, interior rooms appear larger and a comfortable atmosphere is created.



Contents	Page
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**Article**

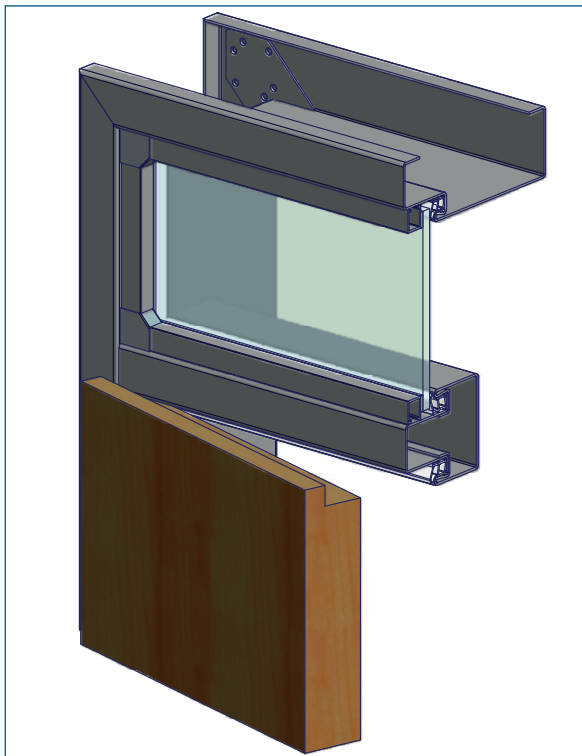
BOS top-light frames are suitable for almost all wall types and can be configured for various glass pane thicknesses and with a wide range of transom bar designs. Versions with openable top-lights or as an H-frame without a headpiece are also available.

**Your advantages**

- Brighter rooms via glass top-light
- Glass doors and glass top-lights offer a continuous and attractive visual effect
- All top-light frames are equipped with corner transom bar profiles as standard for increased stability

An outline of the different glazing beads can be found on pages 246 to 248.

An outline of the different transom bar profiles can be found on page 204.

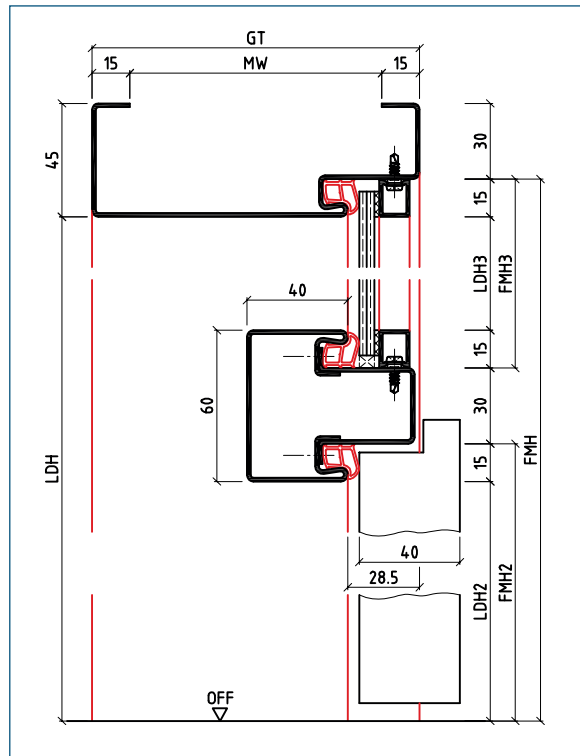


Designation  
code

**Bud/KEud**

Product  
description

- Top-light frame with corner transom bar (1 part)
- For brick or stud walls
- Other profiles possible

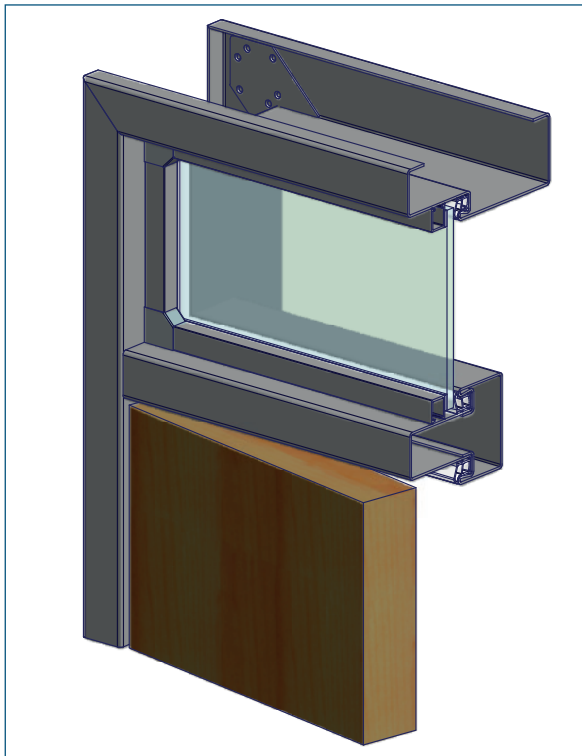


Designation  
code

**Bud/KEud**

Product  
description

- Top-light frame with corner transom bar (1 part)
- For brick or stud walls
- Other measurements possible

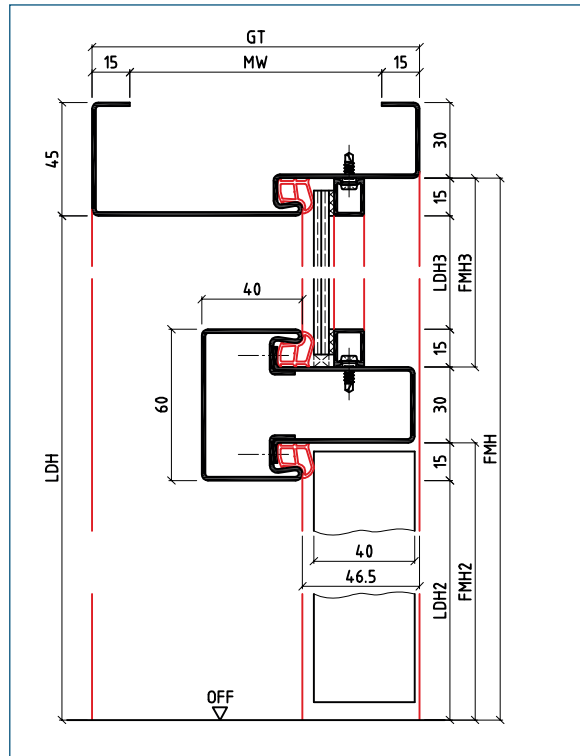


Designation  
code

**Bsd/KEsd**

Product  
description

- Top-light frame with corner transom bar (1 part)
- For brick or stud walls
- Other profiles possible



Designation  
code

**Bsd/KEsd**

Product  
description

- Top-light frame with corner transom bar (1 part)
- For brick or stud walls
- Other measurements possible

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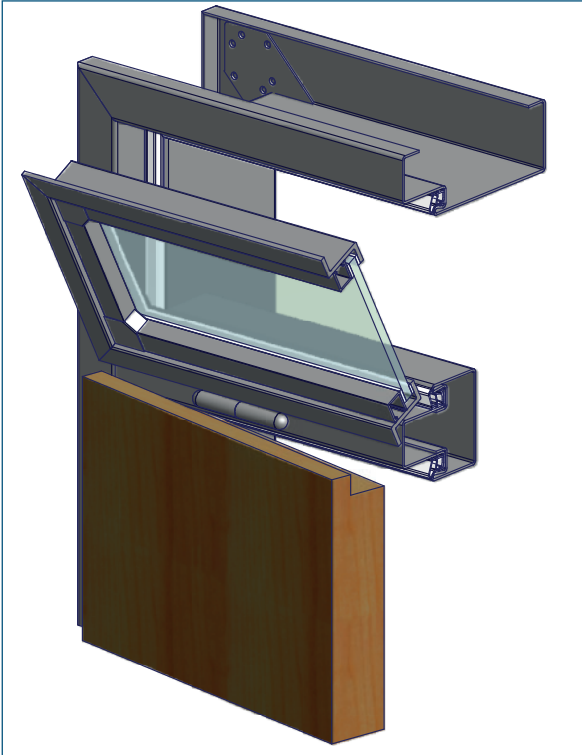
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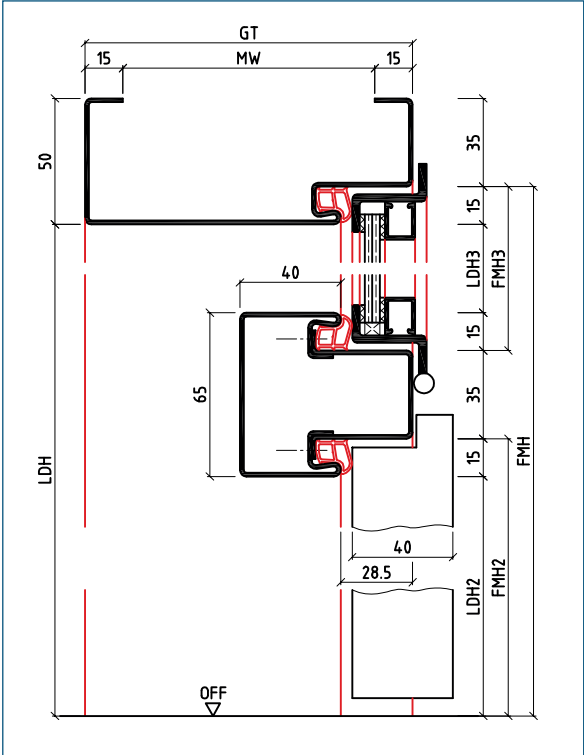


# Element Frames

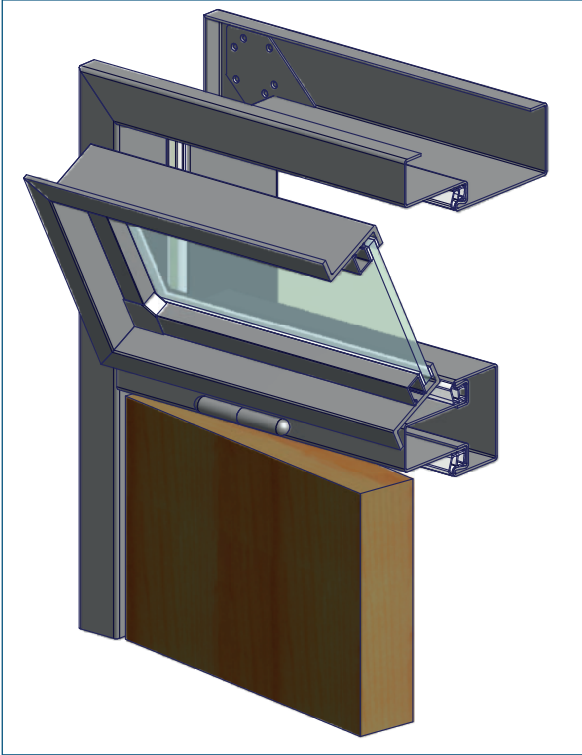
## Top-Light Frames



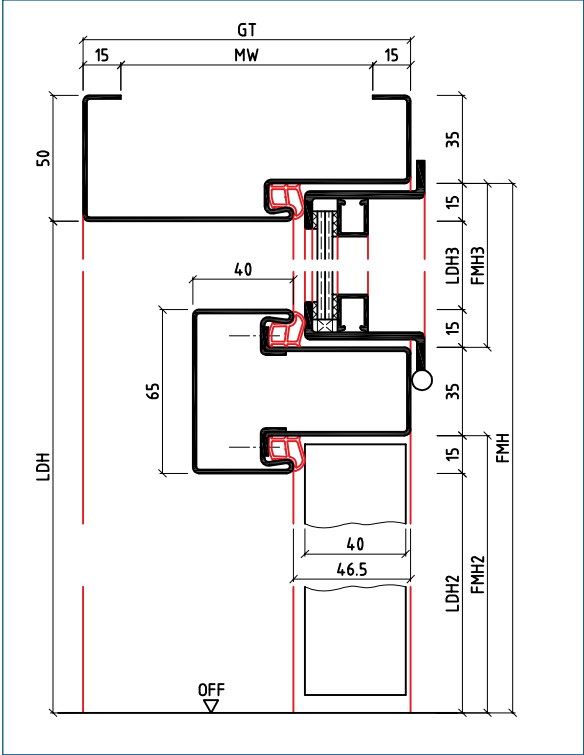
Designation code	<b>Bud/KEud</b>
Product description	<ul style="list-style-type: none"> <li>- Top-light frame with openable top-light (1 part)</li> <li>- For brick or stud walls</li> <li>- Other profiles possible</li> </ul>



Designation code	<b>Bud/KEud</b>
Product description	<ul style="list-style-type: none"> <li>- Top-light frame with openable top-light (1 part)</li> <li>- For brick or stud walls</li> <li>- Other measurements possible</li> </ul>

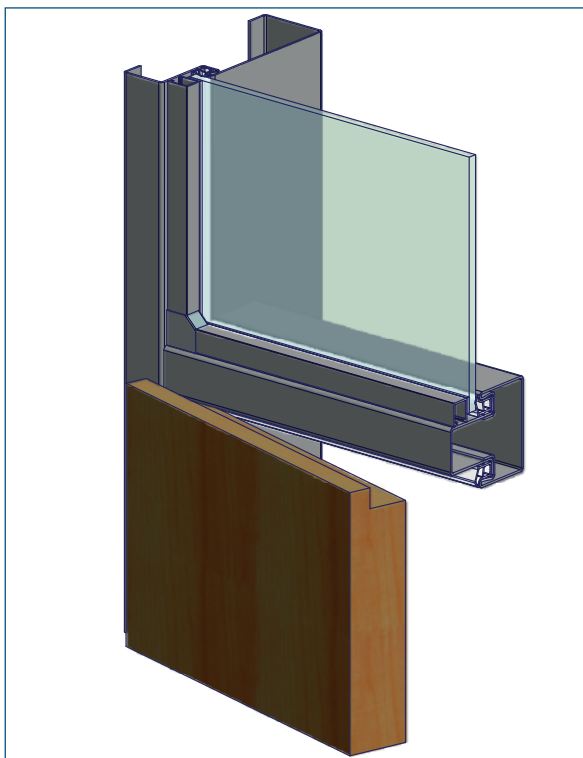


Designation code	<b>Bsd/KEsd</b>
Product description	<ul style="list-style-type: none"> <li>- Top-light frame with openable top-light (1 part)</li> <li>- For brick or stud walls</li> <li>- Other profiles possible</li> </ul>



Designation code	<b>Bsd/KEsd</b>
Product description	<ul style="list-style-type: none"> <li>- Top-light frame with openable top-light (1 part)</li> <li>- For brick or stud walls</li> <li>- Other measurements possible</li> </ul>

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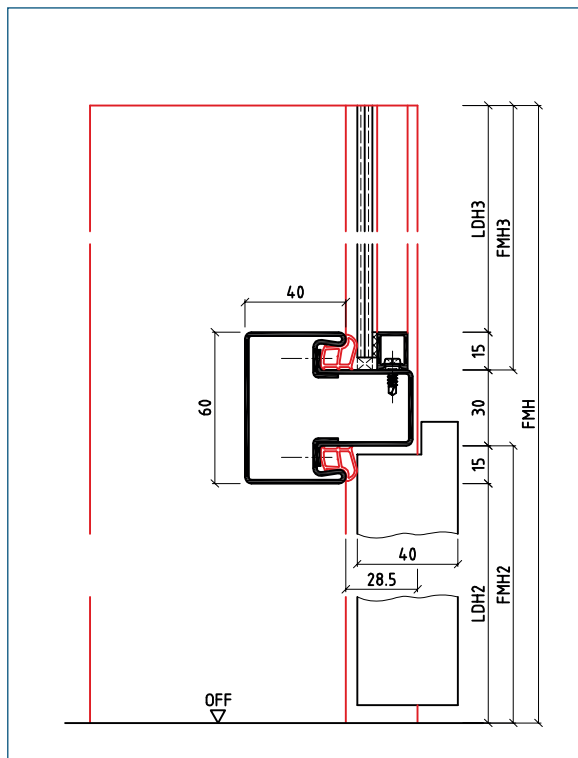


Designation  
code

**Bud/KEud**

Product  
description

- Top-light frame as H-frame (1 part)
- For brick or stud walls
- Other profiles possible

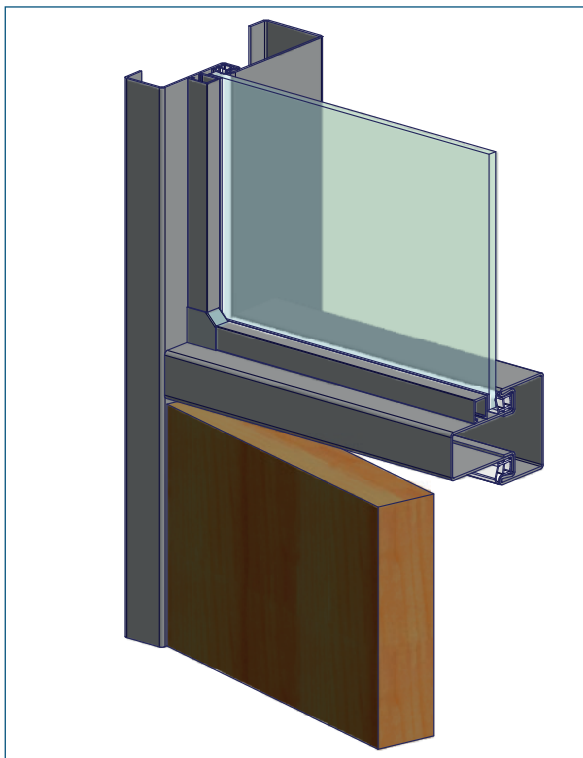


Designation  
code

**Bud/KEud**

Product  
description

- Top-light frame as H-frame (1 part)
- For brick or stud walls
- Other measurements possible

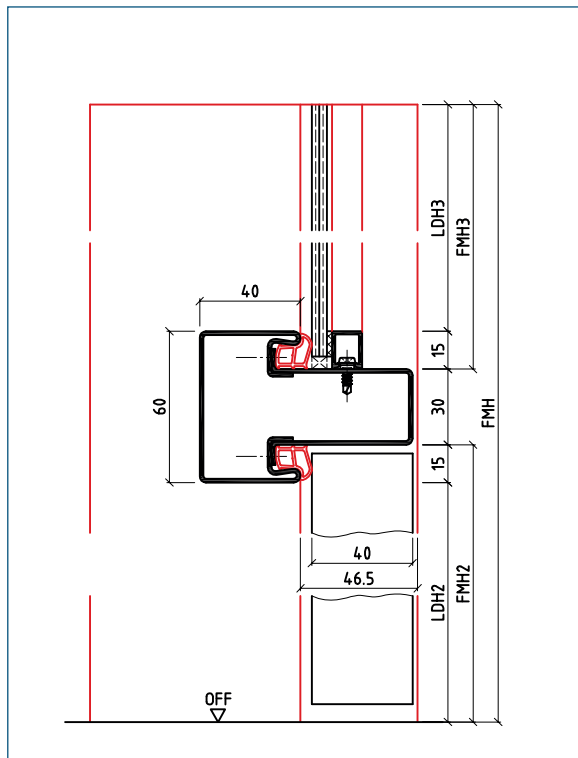


Designation  
code

**Bsd/KEsd**

Product  
description

- Top-light frame as H-frame (1 part)
- For brick or stud walls
- Other profiles possible



Designation  
code

**Bsd/KEsd**

Product  
description

- Top-light frame as H-frame (1 part)
- For brick or stud walls
- Other measurements possible

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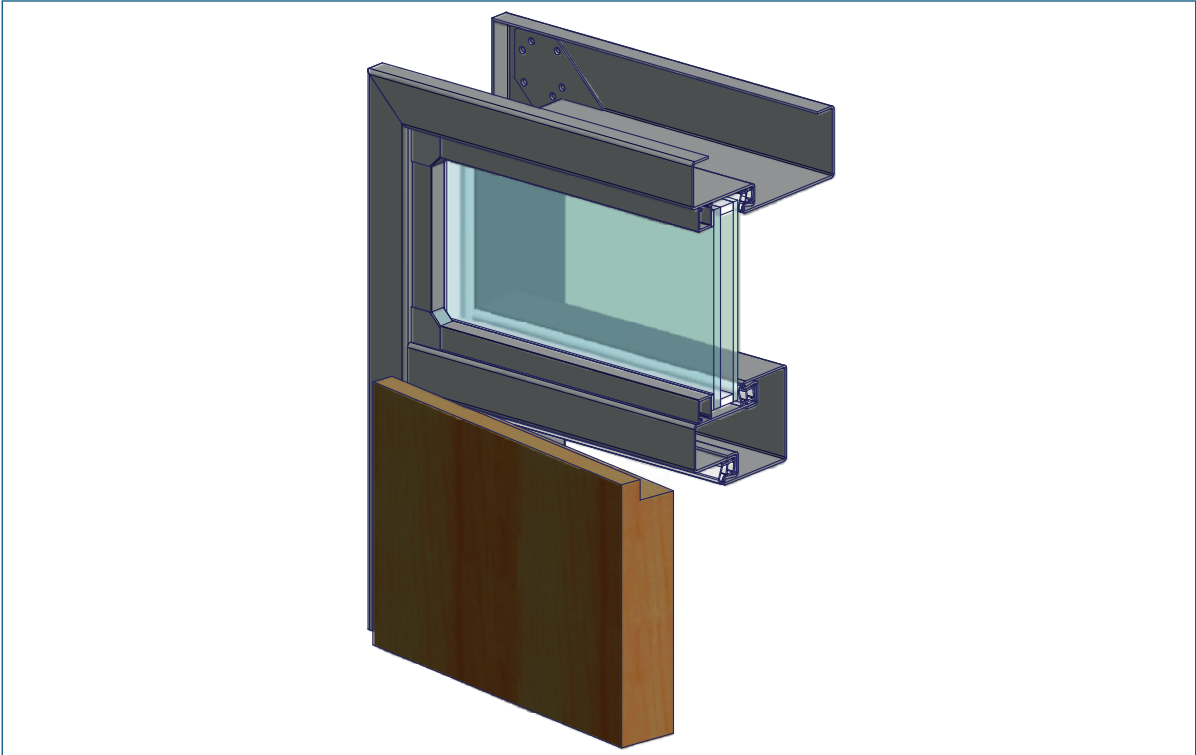
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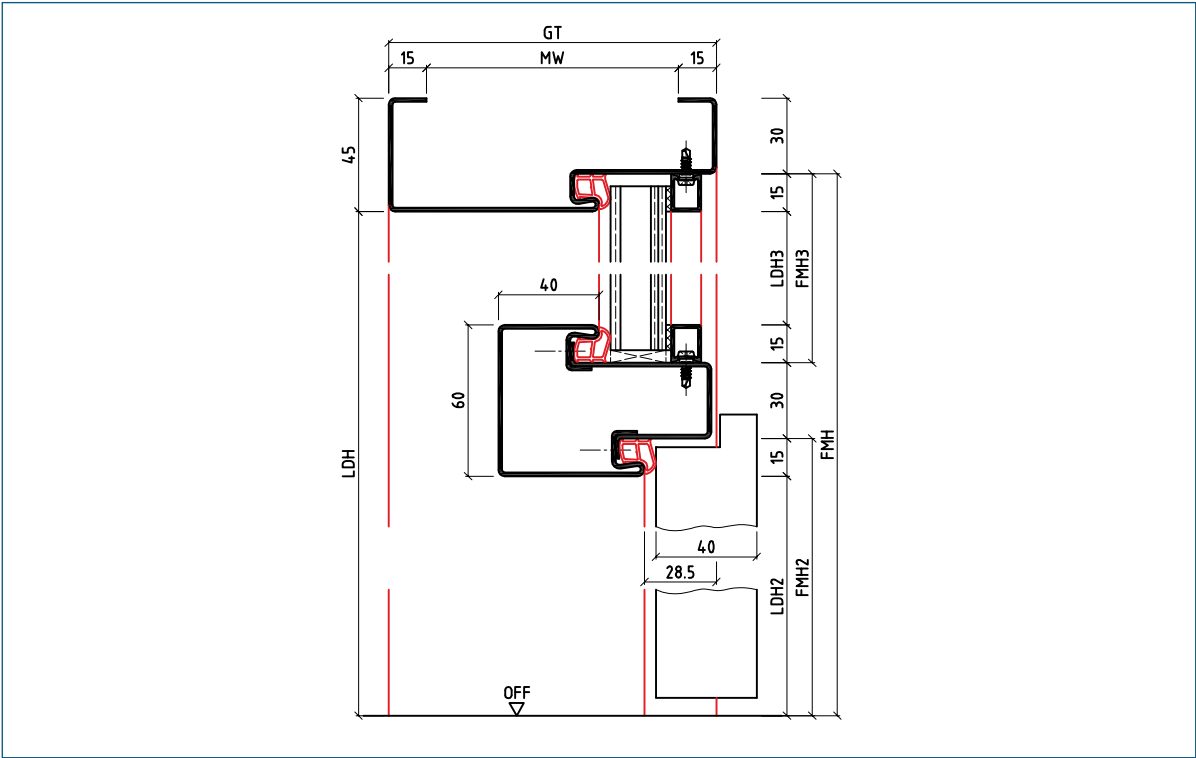
8

Designation code

**Bud/QKEusd**

Product description

- Top-light frame with non-standard transom bar (1 part)
- For brick or stud walls
- Other profiles possible



Designation code

**Bud/QKEusd**

Product description

- Top-light frame with non-standard transom bar (1 part)
- For brick or stud walls
- Other measurements possible

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**Article**

BOS side part frames are suitable for almost all wall types and can be configured for various glass pane thicknesses and with a wide range of transom bar designs. Versions with more than one side part are also available.

**Your advantages**

- Brighter rooms via glazed side parts
- Glass doors and glazed side parts offer a continuous and attractive visual effect
- All side part frames are equipped with corner transom bar profiles as standard for increased stability

**Our recommendations**

- State the hinge side of the door and the arrangement of the side part when ordering

An outline of the different glazing beads can be found on pages 246 to 248.

An outline of the different transom bar profiles can be found on page 204.

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<p>Example 1      Left handed</p>	<p>Example 2      Right handed</p>
<p>Example 3      Right handed</p>	<p>Example 4      Left handed</p>
<p>Example 1 / 4      Left handed</p>	<p>Example 2 / 3      Right handed</p>

Designation code

**Examples**

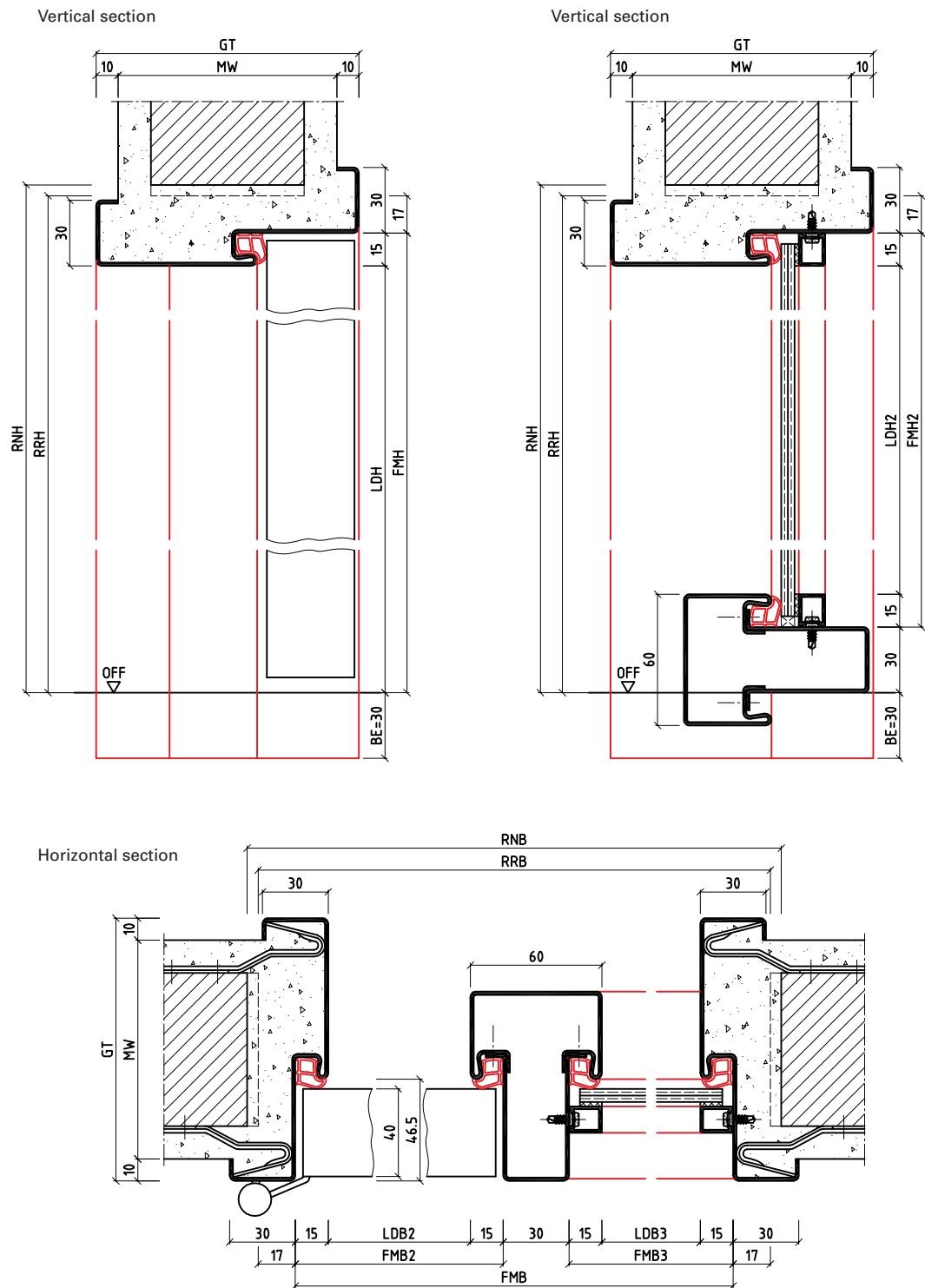
Product description

- Side part frames
- For brick or stud walls
- Other versions possible

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Illustration Example 1



Designation code

**Usd/KEsd**

Product description

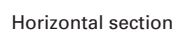
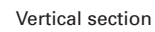
- Side part frame (1 part)
- For brick walls
- Illustration with nail anchor

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### Vertical section



**Article**

BOS top-light/side part frames are suitable for almost all wall types and can be configured for various glass pane thicknesses and with a wide range of transom bar designs.

Elements with more than one top-light or side part are also available.

**Your advantages**

- Brighter rooms via glass top-lights or side parts
- Glass doors and glazed top-lights and side parts offer a continuous and attractive visual effect
- All top-light/side part frames are equipped with corner transom bar profiles as standard for increased stability

**Our recommendations**

- State the hinge side of the door and the arrangement of the side part when ordering
- Give the exact door measurements

An outline of the different glazing beads can be found on pages 246 to 248.

An outline of the different transom bar profiles can be found on page 204.

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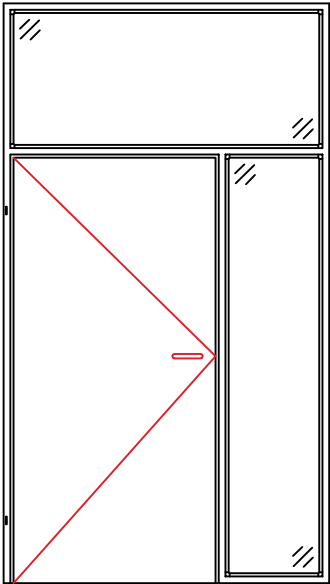
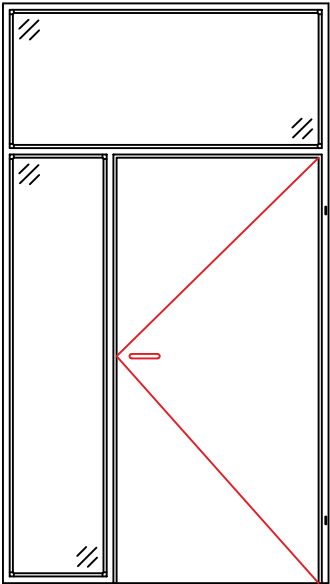
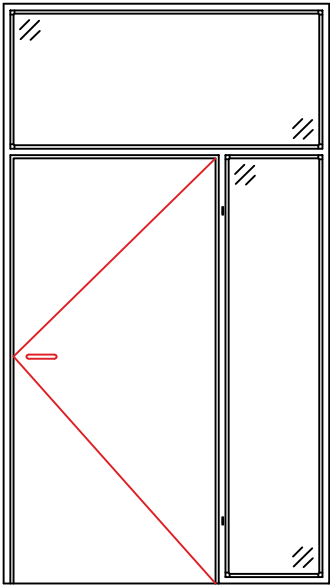
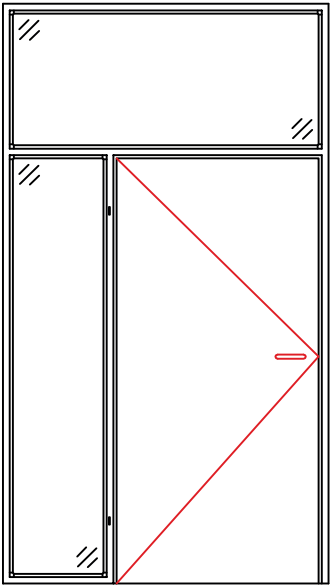
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# Element Frames

## Top-Light/Side Part Frames

<div>Example 1</div> <div>Left handed</div> 	<div>Example 2</div> <div>Right handed</div> 
<div>Example 3</div> <div>Right handed</div> 	<div>Example 4</div> <div>Left handed</div> 

Designation code

**Examples**

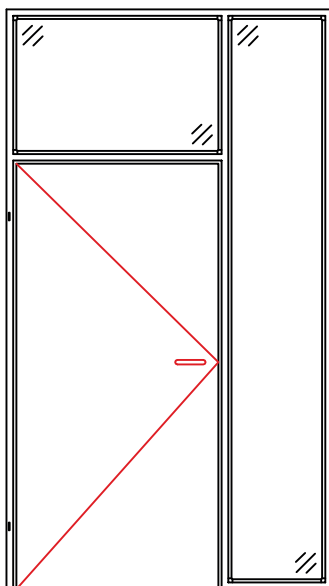
Product description

- Top-light/side part frame (top-light over full width)
- For brick or stud walls
- Other versions possible

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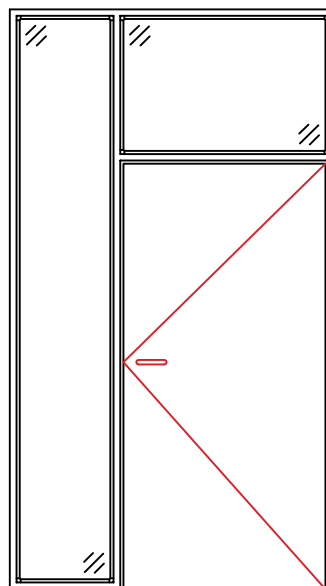
Example 1

Left handed



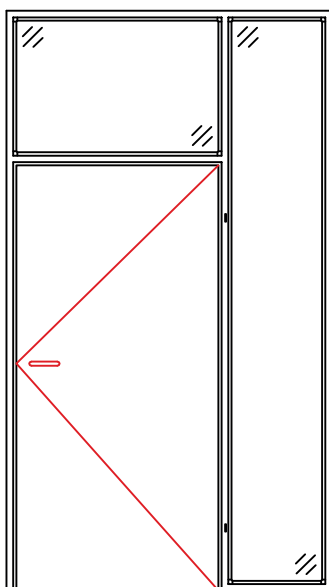
Example 2

Right handed



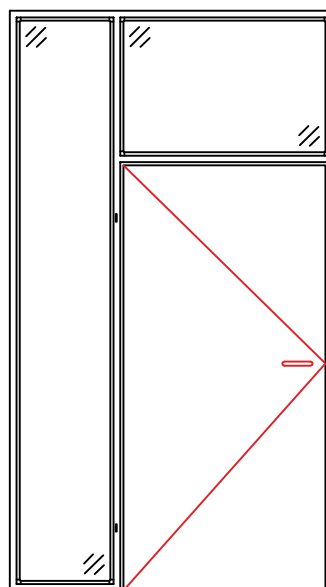
Example 3

Right handed



Example 4

Left handed



Designation code

Product description

### Examples

- Top-light/side part frame (side part in full height)
- For brick or stud walls
- Other versions possible

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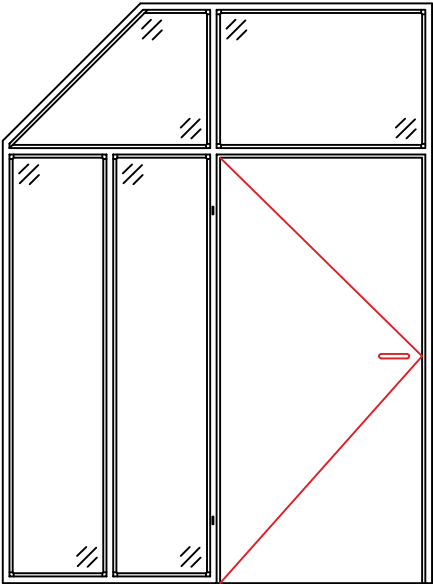
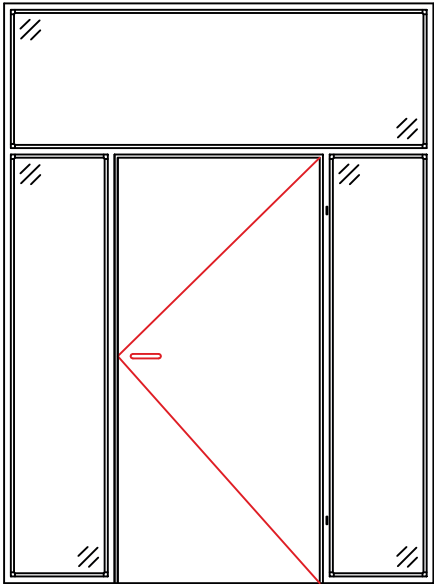
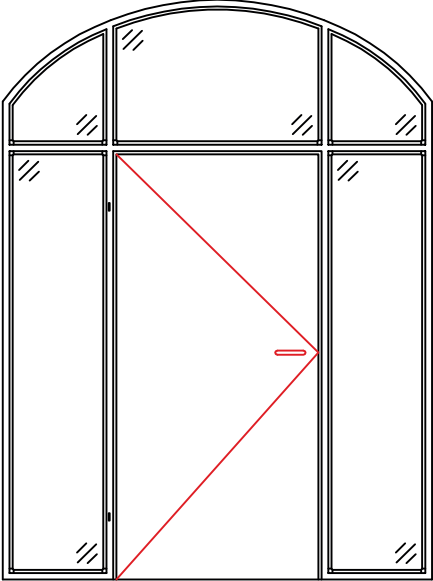
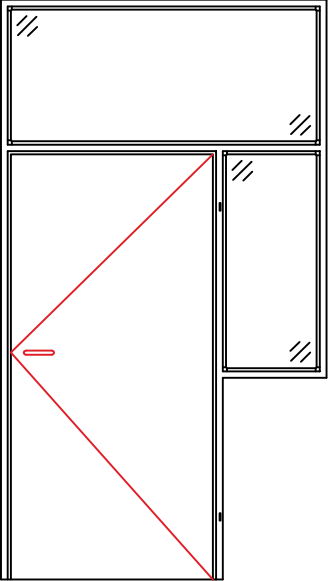
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# Element Frames

## Top-Light/Side Part Frames

<p>Example 4</p> <p>Left handed</p> 	<p>Example 2 / 3</p> <p>Right handed</p> 
<p>Example 1 / 4</p> <p>Left handed</p> 	<p>Example 3</p> <p>Right handed</p> 

Designation code

**Examples**

Product description

- Top-light/side part frame
- For brick or stud walls
- Other versions possible

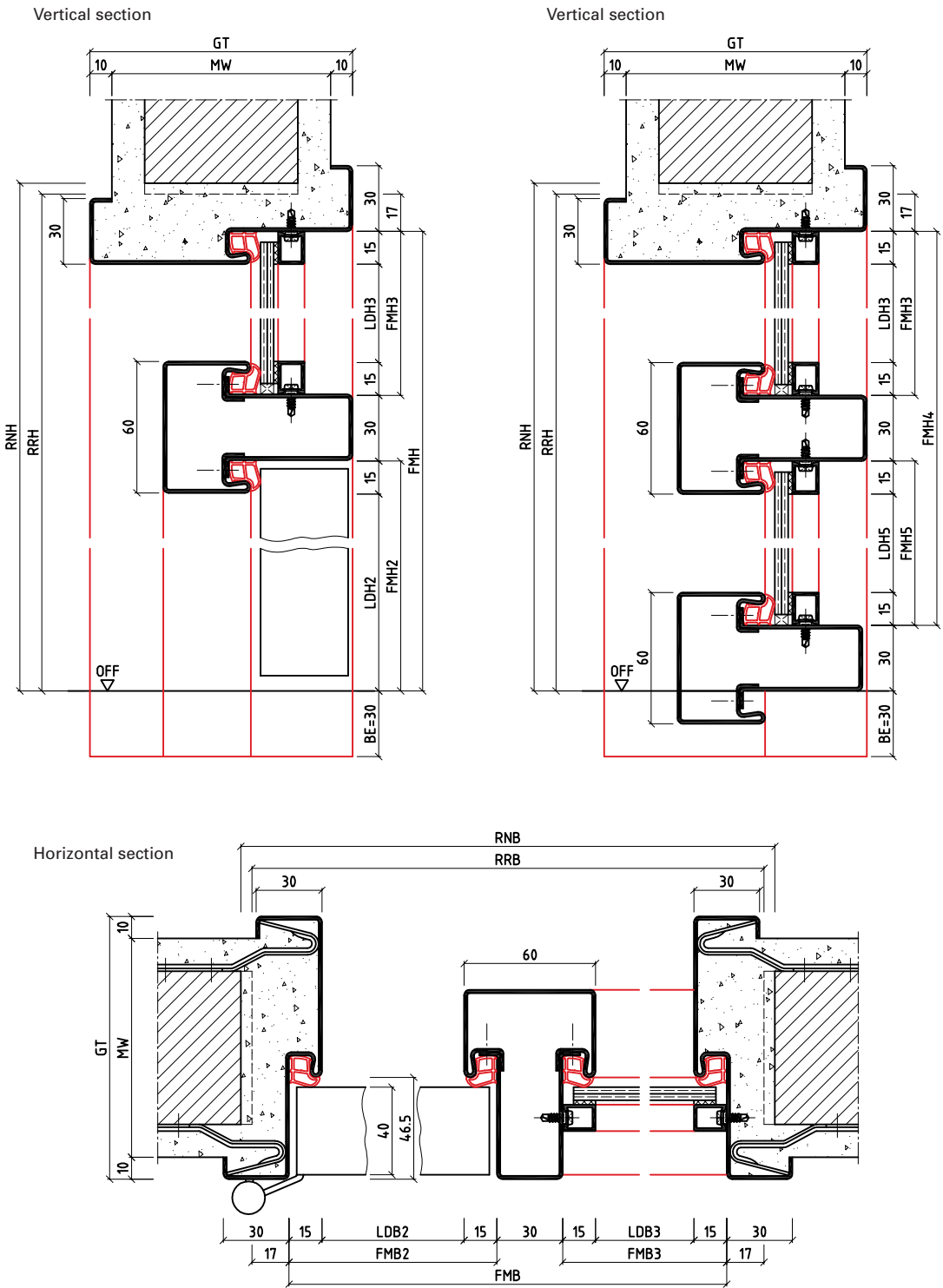
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# Element Frames

## Top-Light/Side Part Frames

Illustration Example 1



Designation code

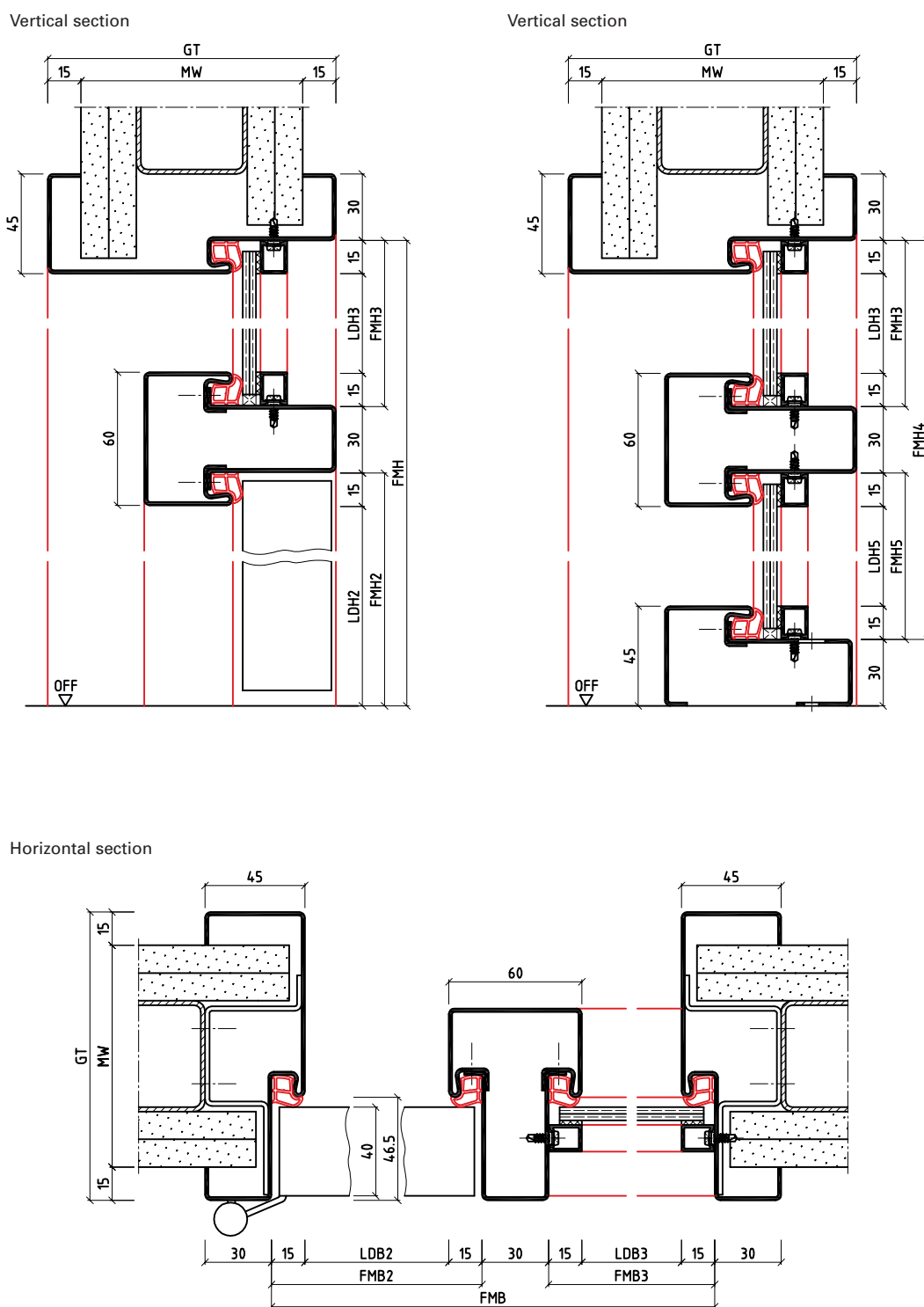
**Usd/KEsd**

Product description

- Top-light/side part frame (1 part)
- For brick walls
- Illustration with nail anchor

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### Illustration Example 1



Designation code

**Bud/KEud**

## Product description

- Top-light/side part frame (1 part)
- For stud walls
- Illustration with bracket anchor

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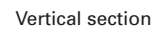
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### Vertical section





## Article

BOS timber infill frames are suitable for almost all wall types and are supplied with a hidden provision for the mounting support for on-site top infill installation.

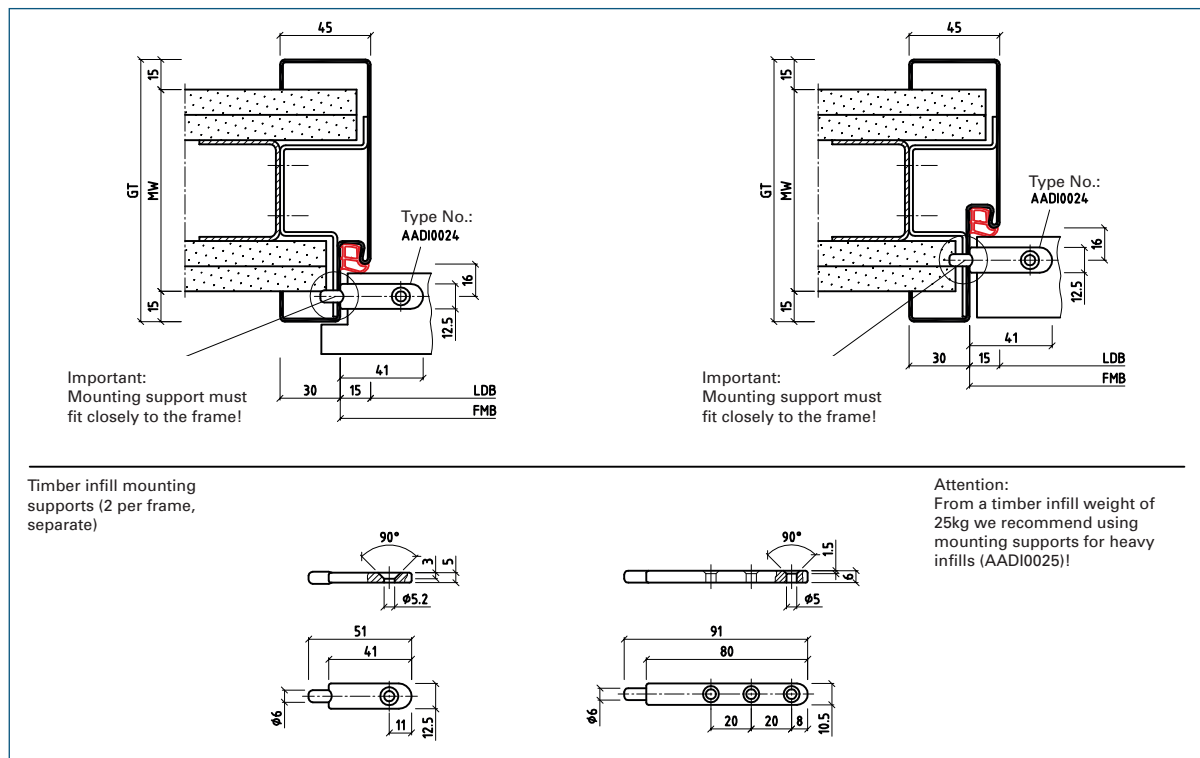
Designs with a transom bar are also possible.

## Your advantages

- Continuous, uniform timber appearance due to door with timber infill

## Our recommendations

- From a timber infill weight of 25kg we recommend using mounting supports for heavy infills



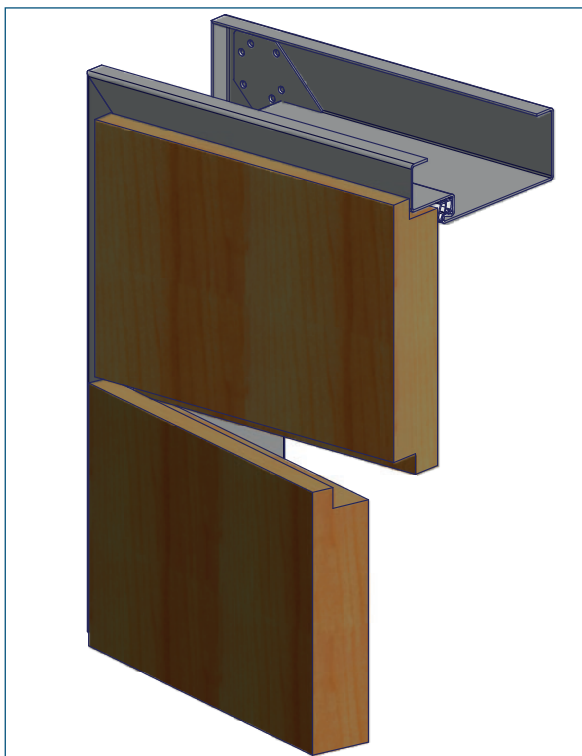
## Designation code

## Product description

### Timber infill mounting support

- Position of the timber infill mounting support
- For flush or rebated steel frames

Subject to technical change.  
The illustrations are not for static  
information.

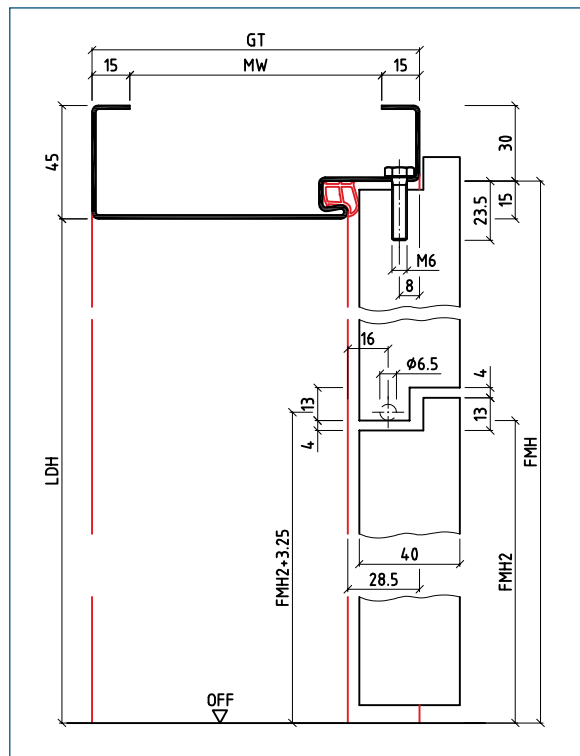


Designation  
code

**Bud**

Product  
description

- Block frame with timber infill (1 part)
- For brick or stud walls
- Other profiles possible

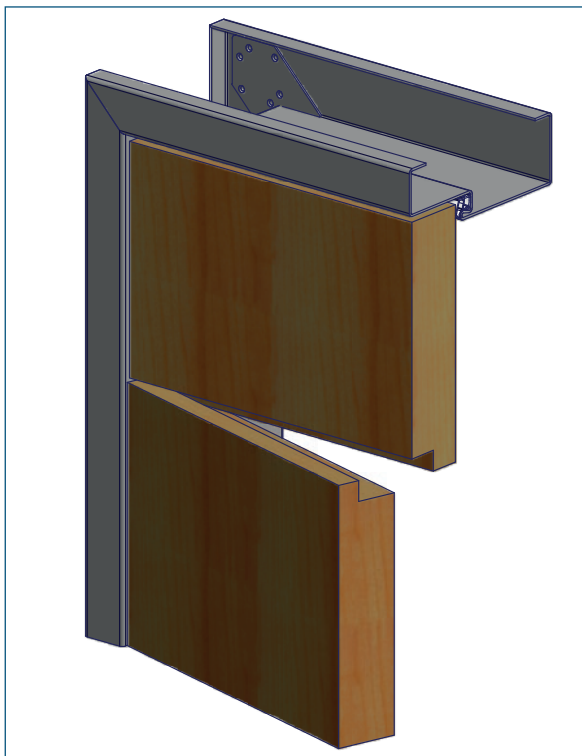


Designation  
code

**Bud**

Product  
description

- Block frame with timber infill (1 part)
- For brick or stud walls
- Other measurements possible

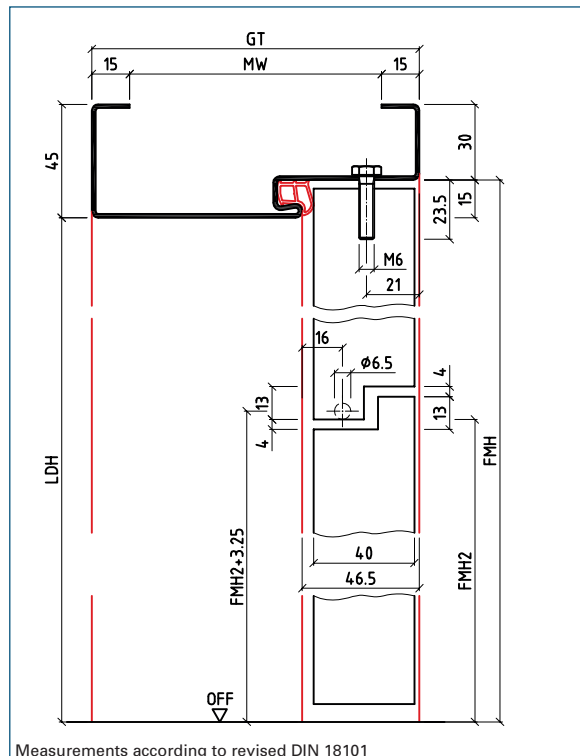


Designation  
code

**Bsd**

Product  
description

- Block frame with timber infill (1 part)
- For brick or stud walls
- Other profiles possible



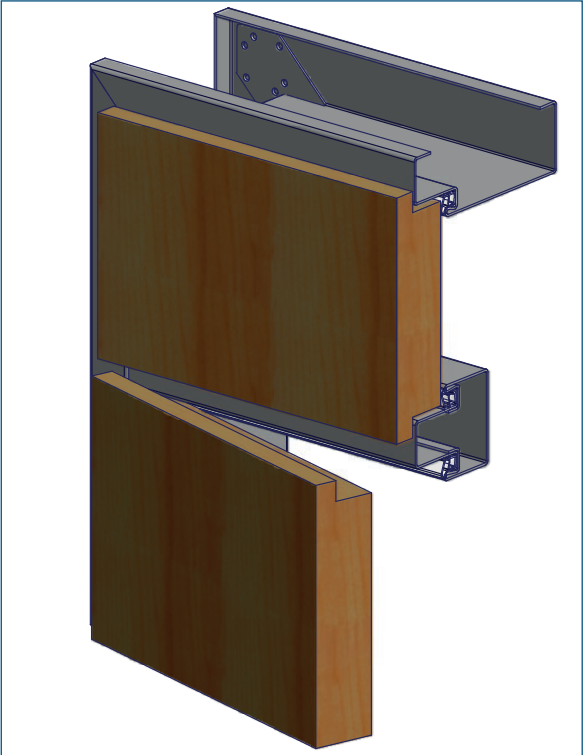
Designation  
code

**Bsd**

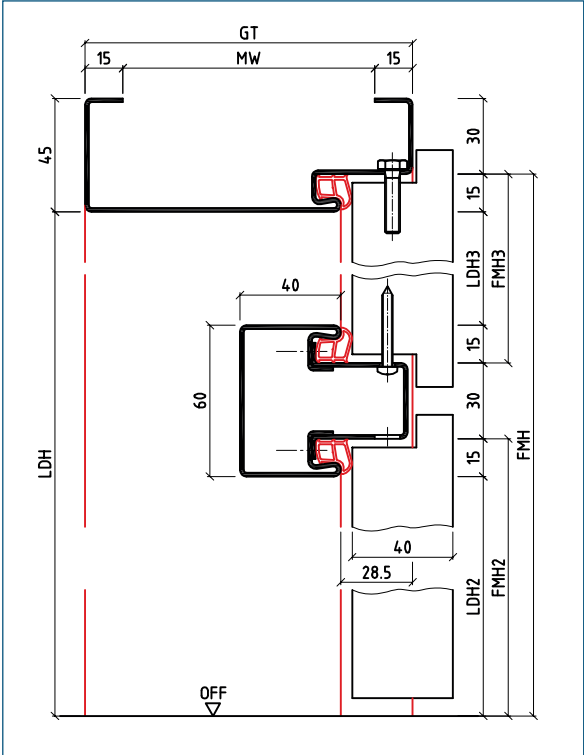
Product  
description

- Block frame with timber infill (1 part)
- For brick or stud walls
- Other measurements possible

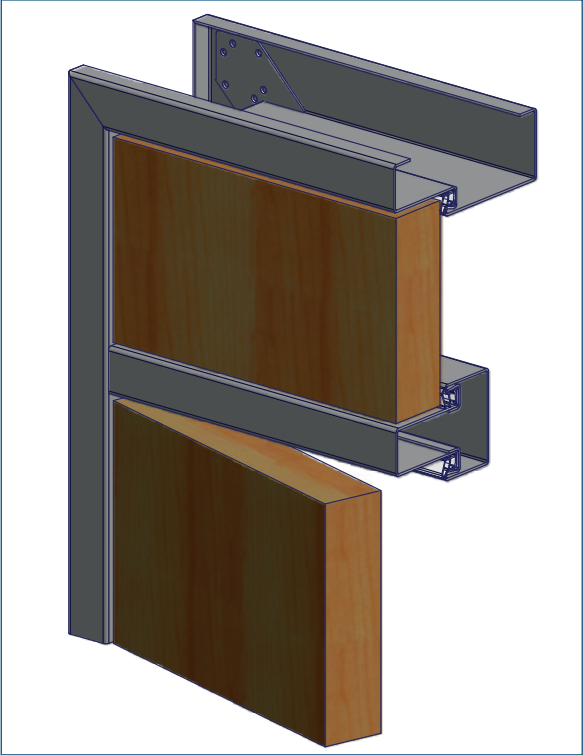
Measurements according to revised DIN 18101



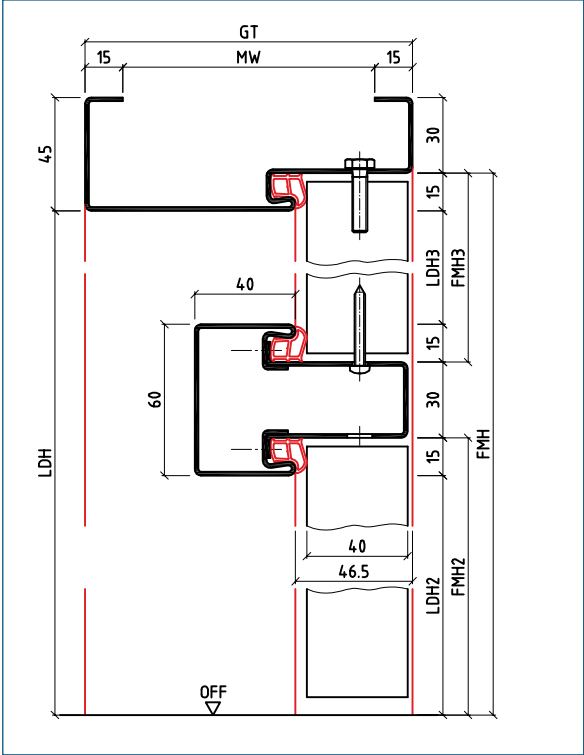
Designation code	<b>Bud/KEud</b>
Product description	<ul style="list-style-type: none"><li>- Block frame with timber infill (1 part)</li><li>- For brick or stud walls</li><li>- Other profiles possible</li></ul>



Designation code	<b>Bud/KEud</b>
Product description	<ul style="list-style-type: none"><li>- Block frame with timber infill (1 part)</li><li>- For brick or stud walls</li><li>- Other measurements possible</li></ul>



Designation code	<b>Bsd/KEsd</b>
Product description	<ul style="list-style-type: none"><li>- Block frame with timber infill (1 part)</li><li>- For brick or stud walls</li><li>- Other profiles possible</li></ul>



Designation code	<b>Bsd/KEsd</b>
Product description	<ul style="list-style-type: none"><li>- Block frame with timber infill (1 part)</li><li>- For brick or stud walls</li><li>- Other measurements possible</li></ul>

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Element Frames

Frames with Socket/Switch Provision

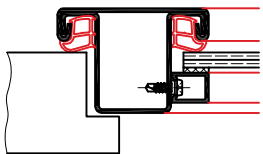
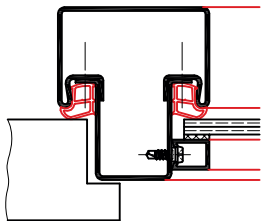
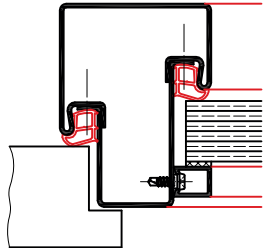
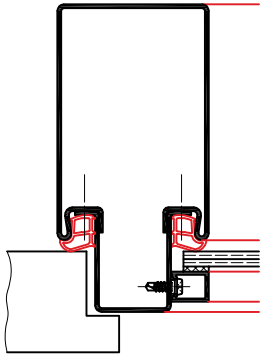
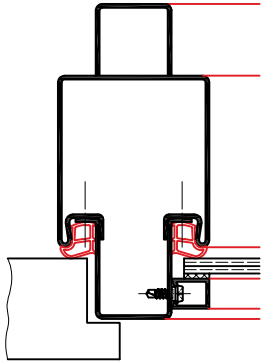
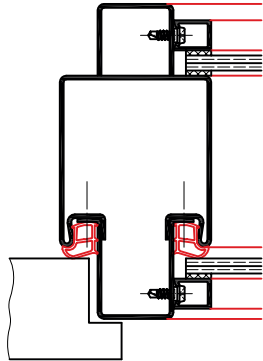
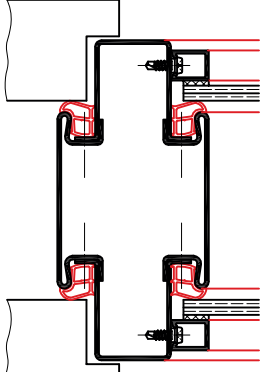
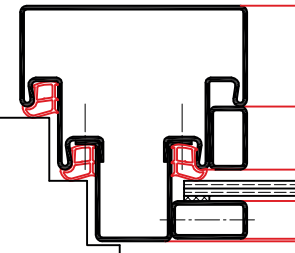
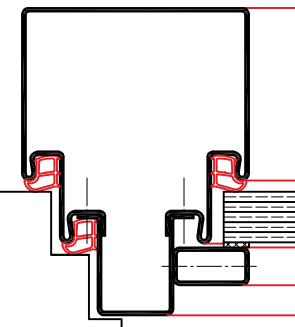
Article	BOS frames with socket/switch provision are suitable for almost all wall types and are also available as a side part frame or top-light/side part frame with provisions for switches.
Your advantages	<ul style="list-style-type: none"><li>• Integrated switches in the frame</li><li>• Wiring in the frame (on site)</li><li>• No wall cut-outs necessary</li><li>• Access to electronics at all times in the case of 2 part split frames</li></ul>
Our recommendations	<ul style="list-style-type: none"><li>• Ex works provision for extra lighting or reading devices</li><li>• State the exact cut-out measurements and positions when ordering</li><li>• Take the depth of the components to be installed into account with regard to the transom bar profile</li></ul>



Designation code	<b>Bud/KEud</b>
Product description	<ul style="list-style-type: none"><li>- Frame with socket/switch provision (1 part)</li><li>- For brick or stud walls</li><li>- Other profiles possible</li></ul>

Designation code	<b>Bud/KEud</b>
Product description	<ul style="list-style-type: none"><li>- Frame with socket/switch provision (1 part)</li><li>- For brick or stud walls</li><li>- Other profiles possible</li></ul>

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<p>①</p>  <p>Kud</p>	<p>②</p>  <p>KEud</p>	<p>③</p>  <p>QKEusd</p>
<p>④</p>  <p>KVud</p>	<p>⑤</p>  <p>KAuD</p>	<p>⑥</p>  <p>KAuD</p>
<p>⑦</p>  <p>K0ud</p>	<p>⑧</p>  <p>KEuFd (Surcharge for filling profile)</p>	<p>⑨</p>  <p>KVuFd</p>

## Designation code

**Transom bar profiles**

## Product description

- Horizontal or vertical transom bars
- Other profiles, measurements, glass pane thicknesses and glazing beads possible

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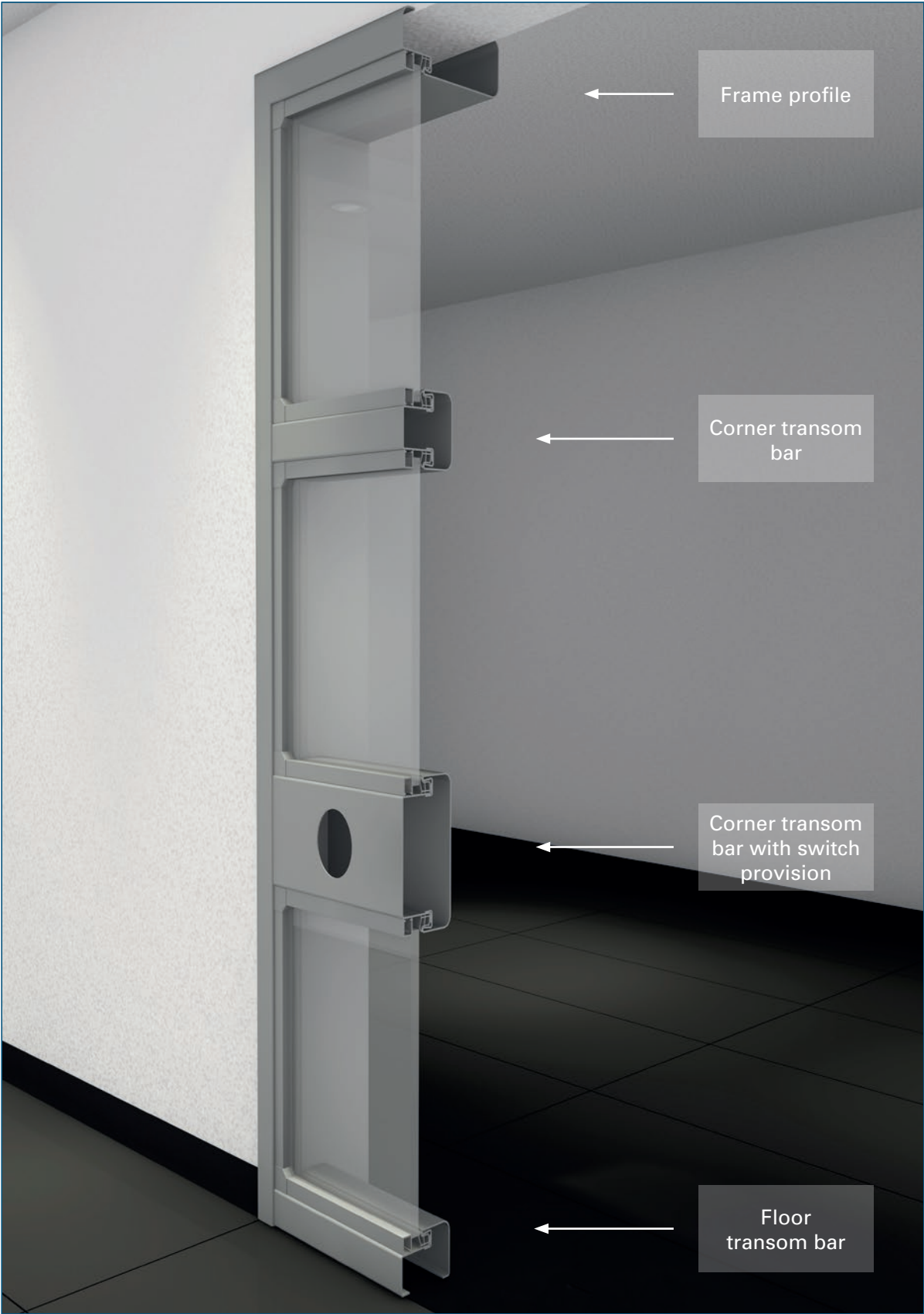
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Designation code

**1rBud/1rKEud**

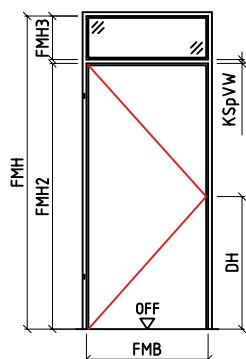
Product description

- Element frame on top level of finished floor (example)
- For single glazing
- Other measurements and designs possible

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information.

①

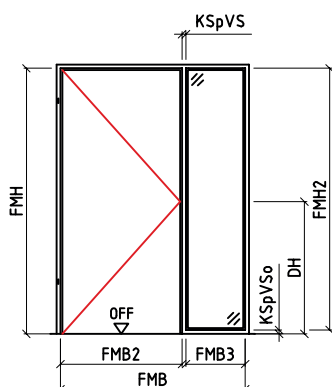
Top-light frame



Pane width =  $FMB - 10$   
 Pane height =  $FMH - FMH2 - KSpVW - 10$

②

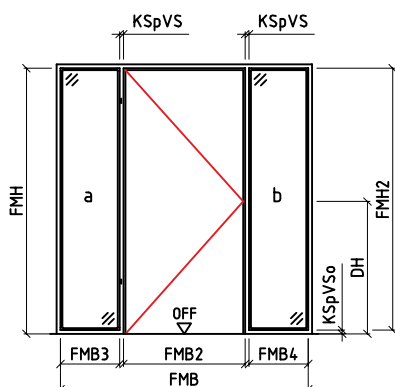
Side part frame



Pane width =  $FMB - FMB2 - KSpVS - 10$   
 Pane height =  $FMH - KSpVSo - 10$

③

Side part frame



Pane width a =  $FMB - FMB2 - FMB4 - (2 \times KSpVS) - 10$   
 Pane width b =  $FMB - FMB2 - FMB3 - (2 \times KSpVS) - 10$   
 Pane height =  $FMH - KSpVSo - 10$



For double rebate frames:  
 The calculations only apply to  
 glass panes that are to be set in  
 the first rebate.

FMB/FMH = Rebate width/height  
 KSpVW = Front architrave width of horizontal transom bar  
 KSpVS = Front architrave width of vertical transom bar  
 KSpVSo = Front architrave width of skirting  
 OFF = Top level of finished floor  
 DH = Handle height

The calculations are not valid for angular glazing beads!

Designation code

Product description

**Glass pane  
measurement  
calculation**

- Calculation basis  
 - Pane measurements for element frames

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<div>④</div> <div>Top-light/side part frame</div> <div></div> <div><div>Pane width a = <math>FMB - FMB2 - KSpVS - 10</math></div><div>Pane width b = <math>FMB - 10</math></div><div>Pane height a = <math>FMH2 - KSpV - So10</math></div><div>Pane height b = <math>FMH - FMH2 - KSpV - W10</math></div></div>	
<div>⑤</div> <div>Top-light/side part frame</div> <div></div> <div><div>Pane width a = <math>FMB - FMB2 - FMB4 - (2 \times KSpVS) - 10</math></div><div>Pane width b = <math>FMB - FMB2 - FMB3 - (2 \times KSpVS) - 10</math></div><div>Pane width c = <math>FMB - 10</math></div><div>Pane height a/b = <math>FMH2 - KSpVSo - 10</math></div><div>Pane height c = <math>FMH - FMH2 - KSpVW - 10</math></div></div>	
<div>⑥</div> <div>Top-light/side part frame</div> <div></div> <div><div>Pane width a = <math>FMB - FMB2 - FMB3 - (2 \times KSpVS) - 10</math></div><div>Pane width b = <math>FMB - FMB2 - FMB4 - (2 \times KSpVS) - 10</math></div><div>Pane width c = <math>FMB - FMB2 - KSpVS - 10</math></div><div>Pane width d = <math>FMB - FMB3 - FMB4 - (2 \times KSpVS) - 10</math></div><div>Pane height a/b = <math>FMH2 - KSpVSo - 10</math></div><div>Pane height c/d = <math>FMH - FMH2 - KSpVW - 10</math></div></div>	
<div></div> <div><div>For double rebate frames: The calculations only apply to glass panes that are to be set in the first rebate.</div><div>The calculations are not valid for angular glazing beads!</div></div>	<div><div>FMB/FMH=Rebate width/height</div><div>KSpVW = Front architrave width of horizontal transom bar</div><div>KSpVS = Front architrave width of vertical transom bar</div><div>KSpVSo = Front architrave width of skirting</div><div>OFF= Top level of finished floor</div><div>DH=Handle height</div></div>

Designation code

Glass pane  
measurement  
calculation

Product description

- Calculation basis  
- Pane measurements for element frames

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information.



### Flexibility with sliding doors

The BOS product range LineaLine offers the right frame for all types of sliding door and includes steel frames for doors running in front of or into the wall as well as those running in the recess.

Due to its fast installation, the LineaCompact is recommended for sliding doors running in the wall. This sliding door frame is completely pre-mounted and its modular design allows for quick, safe and cost-effective installation.

All sliding door frames are available for single or double doors and in larger sizes. They are manufactured from steel or stainless steel and provided with a choice of powder coating, including an anti-bacterial option. The frames can be combined with any commercial door leaf from reputable manufacturers.

Further information can be found in the technical brochure "Sliding Door Frames LineaLine".



Contents	Page
Sliding door frames LineaLine	211 - 217
LineaOutside - in front of the wall	218 - 222
LineaLevel - in the recess	223 - 226
LineaInside - in the wall	227 - 228
LineaCompact - in the wall	230 - 236
LineaBox and LineaSplit	237

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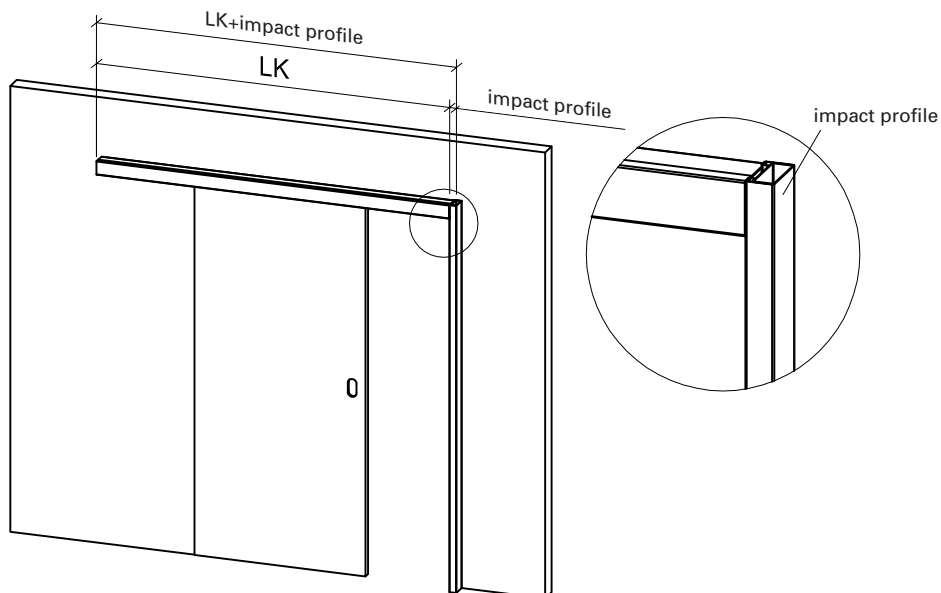
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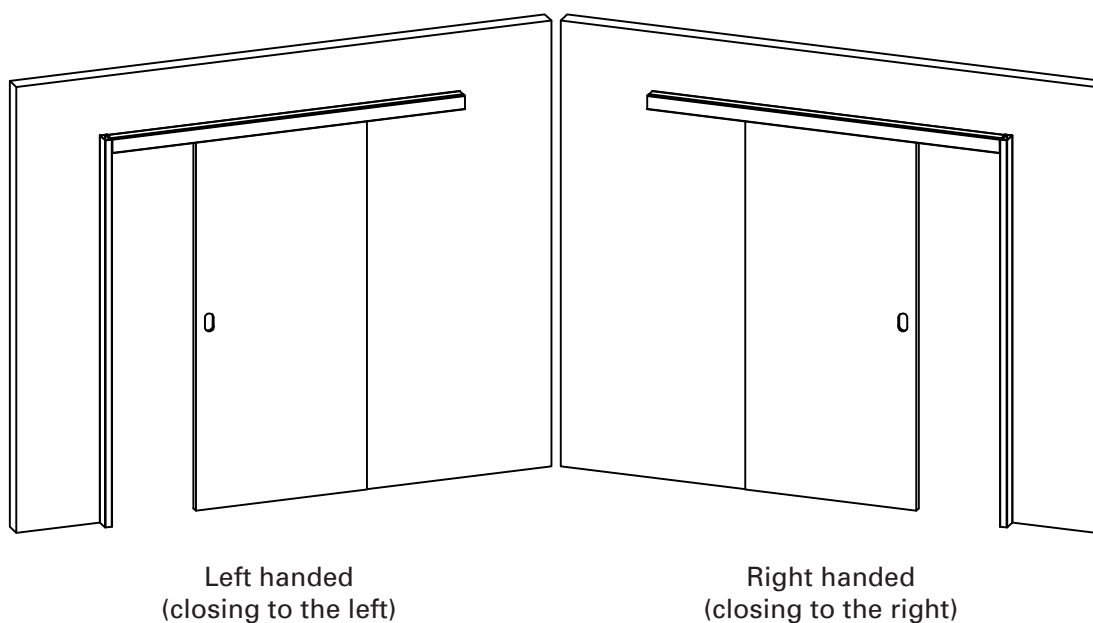


<b>Article</b>	BOS sliding door frames are available in the following designs: LineaOutside, for sliding doors running in front of the wall (SvdW) LineaInside, for sliding doors running in the wall (SidW) LineaLevel, for sliding doors running in the recess (SidN)
<b>Your advantages</b>	<ul style="list-style-type: none"><li>• The sliding door fitting Tiger Alu 80 is provided with the frame as standard</li><li>• The overhead tracks of the sliding door fittings for doors up to a max. weight of 80kg are mounted as standard</li><li>• Further sliding door fittings are available depending on the technical requirements</li><li>• Also available as a 2 leaf design</li><li>• Also available for all-glass doors</li><li>• Bolt/Latch hole cut-outs according to your specification</li></ul>
<b>Our recommendations</b>	<ul style="list-style-type: none"><li>• Take the DIN direction (according to DIN 107) into account when ordering</li><li>• The measurements for timber or all-glass doors vary depending on the fittings used</li></ul>

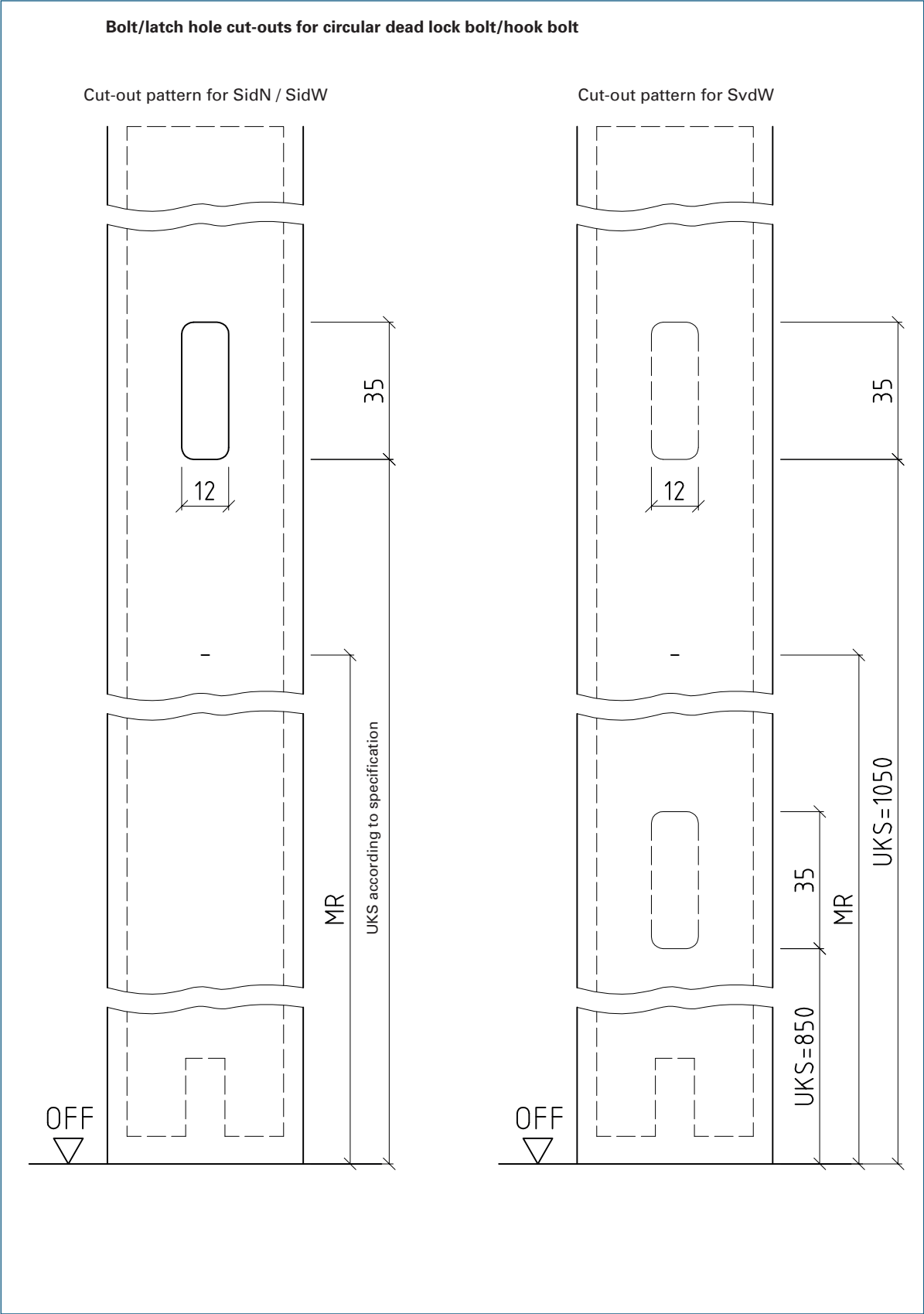
### Track case length (LK)



### DIN Directions according to DIN 107







Designation code

**Bolt/Latch hole cut-out**

Product description

- Position according to your specification
- BOS recommendation: Use a circular dead bolt lock

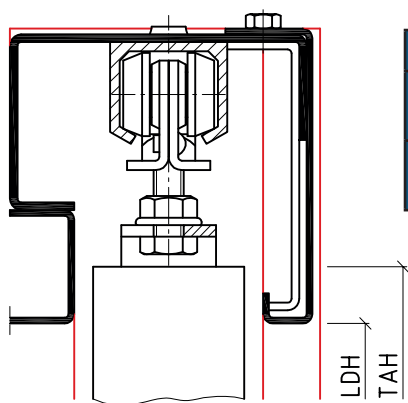
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Different sliding door fittings are needed according to the door leaf weight and the requirements. When using heavy doors or larger sliding door elements, BOS recommends a non-standard design with reinforced track case.

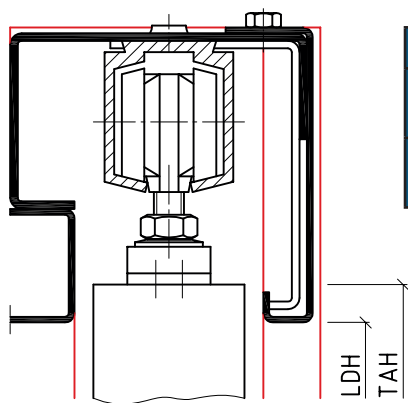
On the next pages a small choice of sliding door fittings from well-known manufacturers can be found. These are shown in example drawings in different installation situations.

In addition to the standard fittings with an aluminium track case, BOS also offers fittings for automatic operators with a range of special functions.

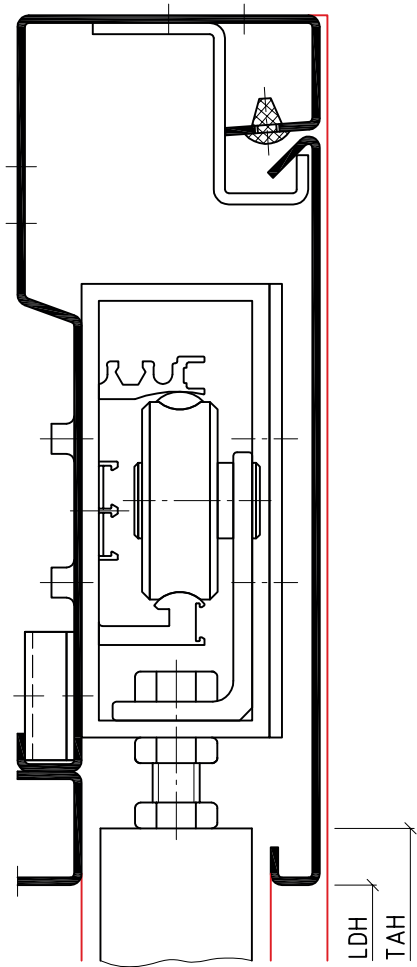
Further technical information concerning the use of other sliding door fittings can be given on request.



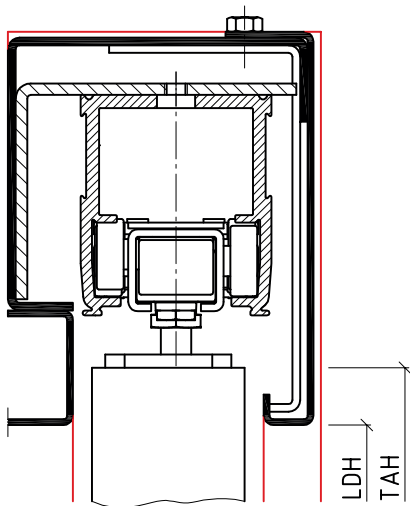
<b>Description:</b>	Tiger ALU 80 (manual)
<b>Door leaf weight:</b>	80kg For single and multiple leaf sliding doors
<b>Illustration:</b>	Sliding door frame for a sliding door running in front of the wall



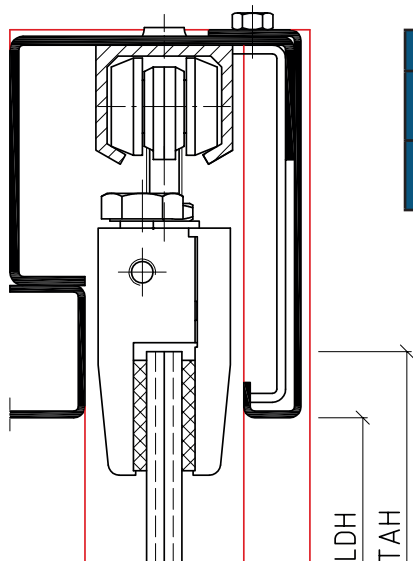
<b>Description:</b>	GEZE Perlan 140 (manual)
<b>Door leaf weight:</b>	140kg For single and multiple leaf sliding doors
<b>Illustration:</b>	Sliding door frame for a sliding door running in front of the wall



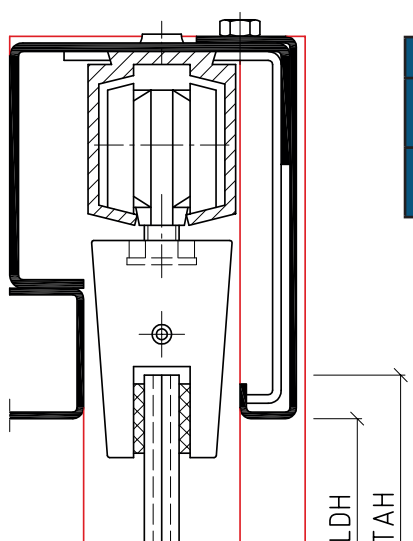
Description:	Reisinger S4000 (automatic)
Total door weight:	For single leaf sliding doors 150kg For multiple leaf sliding doors 2x150kg
Illustration:	Sliding door frame for a sliding door running in front of the wall



Description:	DORMA CS 80 MAGNEO (automatic)
Door leaf weight:	80kg For single leaf sliding doors
Illustration:	Sliding door frame for a sliding door running in front of the wall



<b>Description:</b>	Tiger ALU 80 GLK (manual)
<b>Door leaf weight:</b>	80kg For single and multiple leaf sliding doors
<b>Illustration:</b>	Sliding door frame for a sliding door running in front of the wall



<b>Description:</b>	GEZE Perlan 140 (manual)
<b>Door leaf weight:</b>	140kg For single and multiple leaf sliding doors
<b>Illustration:</b>	Sliding door frame for a sliding door running in front of the wall

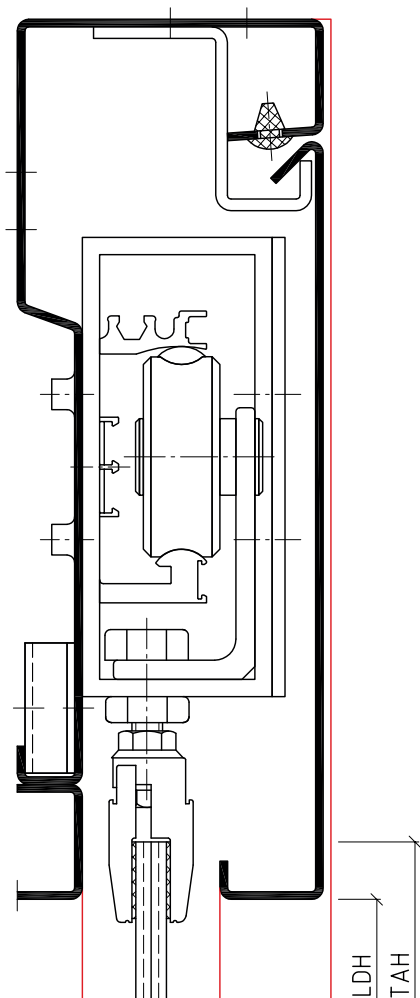
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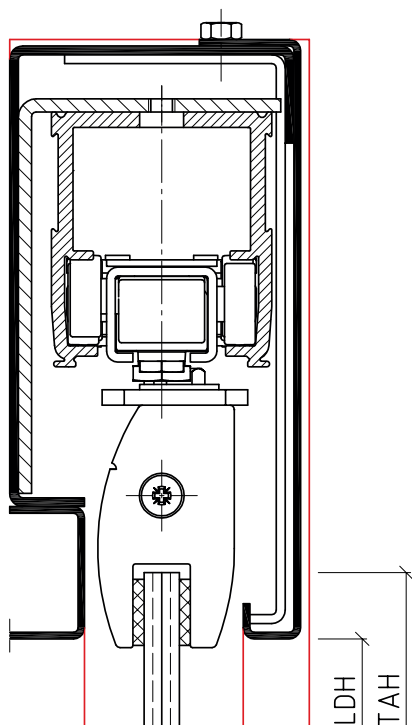
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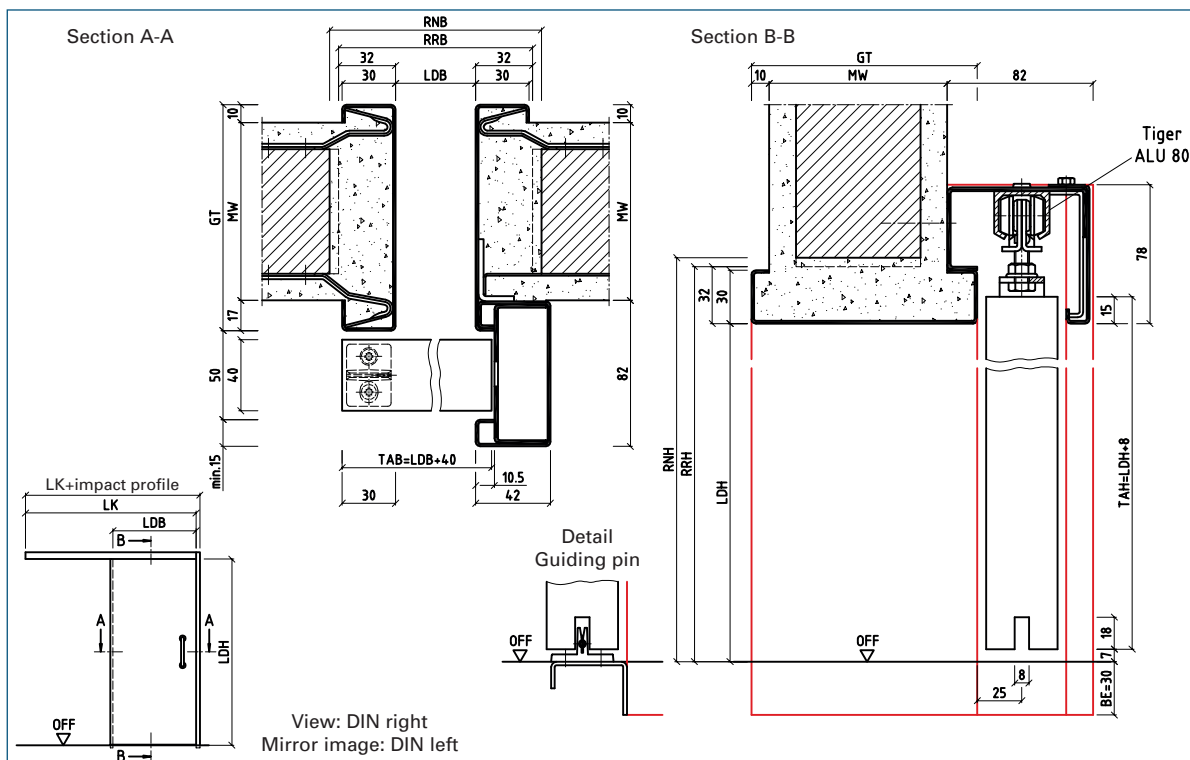
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Description:	Reisinger S4000 (automatic)
Total door weight:	For single leaf sliding doors 150kg For multiple leaf sliding doors 2x150kg
Illustration:	Sliding door frame for a sliding door running in front of the wall



Description:	DORMA CS 80 MAGNEO (automatic)
Door leaf weight:	80kg For single leaf sliding doors
Illustration:	Sliding door frame for a sliding door running in front of the wall

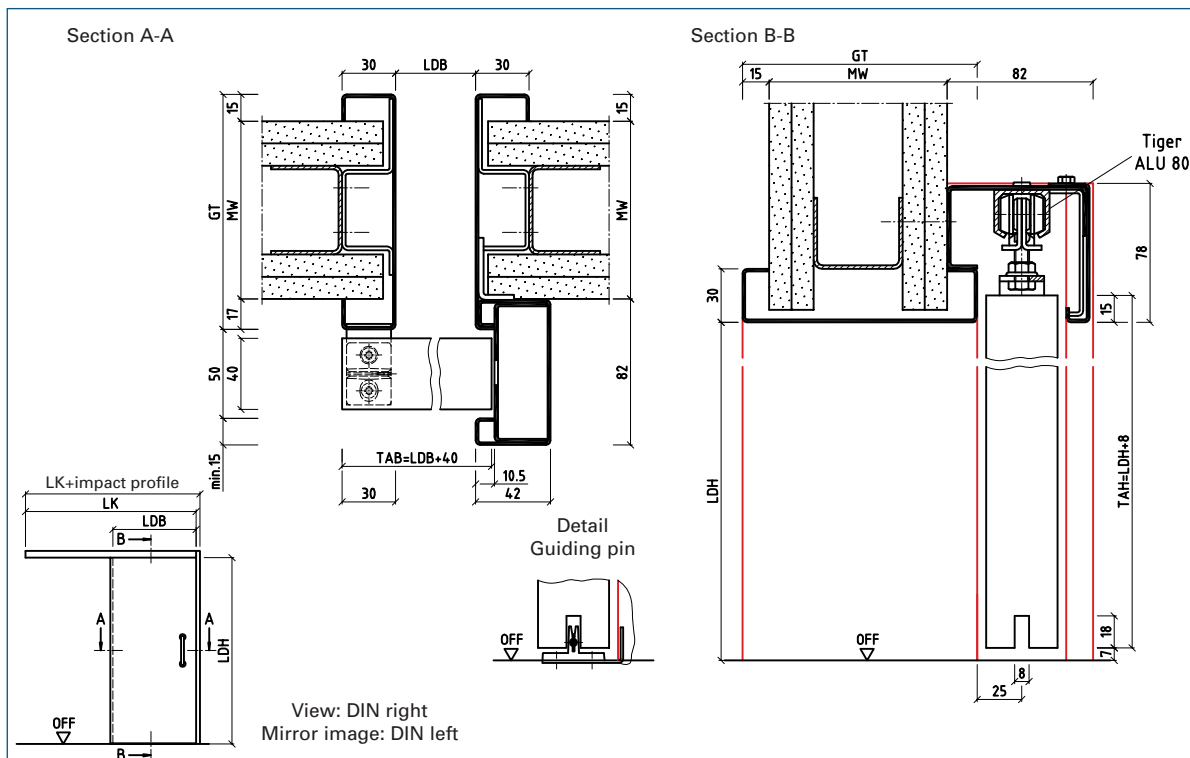


## Designation code

## Product description

**SvdW**  
**LineaOutside**

- Sliding door frame for sliding doors running in front of the wall (1 part)
- For brick walls
- Other measurements possible



## Designation code

## Product description

**SvdW**  
**LineaOutside**

- Sliding door frame for sliding doors running in front of the wall (1 part)
- For stud walls
- Other measurements possible

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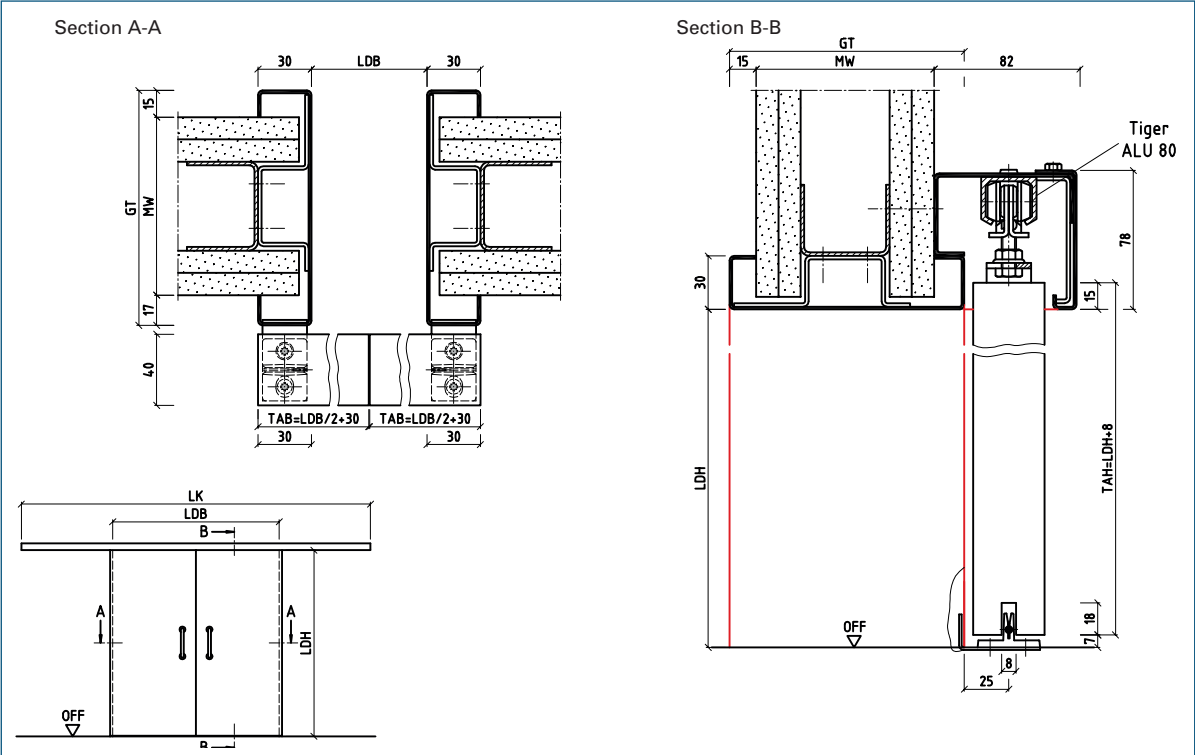
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Version 6.0

# LineaLine Sliding Door Frames

## LineaOutside – in Front of the Wall

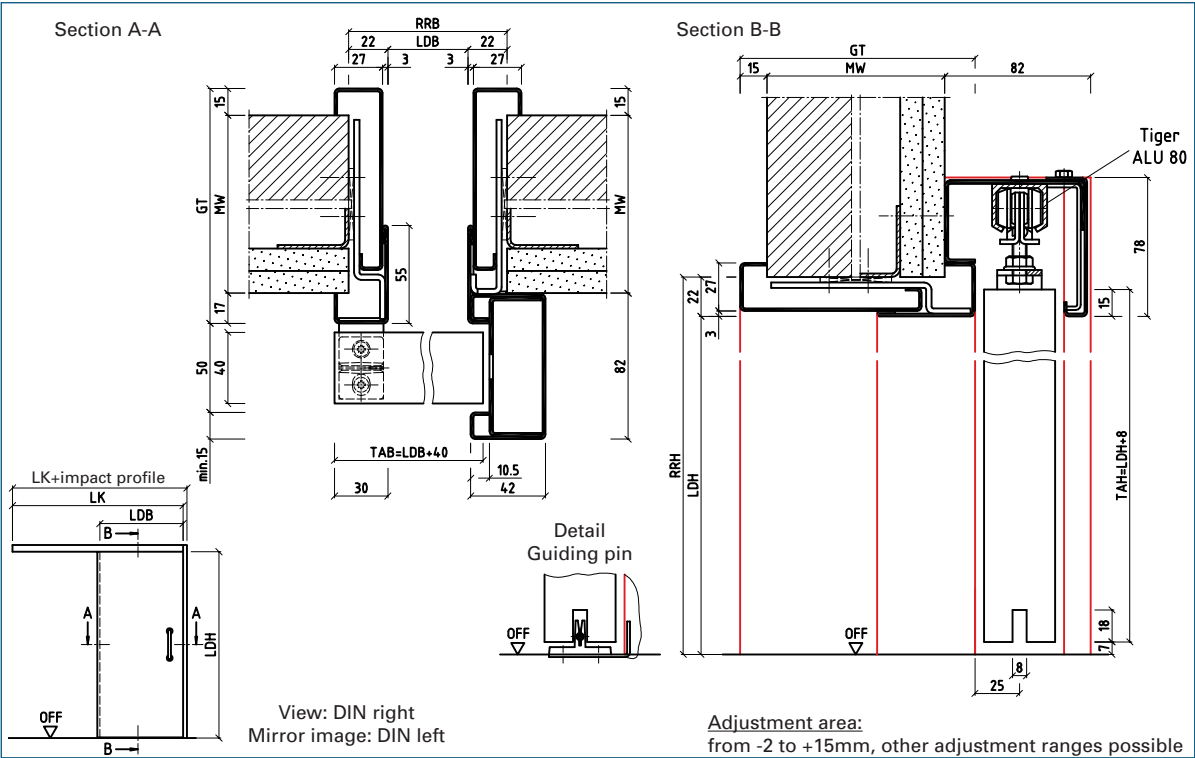


### Designation code

**SvdW**  
**LineaOutside**

### Product description

- Double leaf sliding door frame for sliding doors running in front of the wall (1 part)
- For brick walls
- Other measurements possible



### Designation code

**wSvdW**  
**LineaOutside**

### Product description

- Sliding door frame for sliding doors running in front of the wall (2 part split)
- For almost all wall types
- Other measurements possible

Subject to technical change.  
The illustrations are not for static information.

Version 6.0

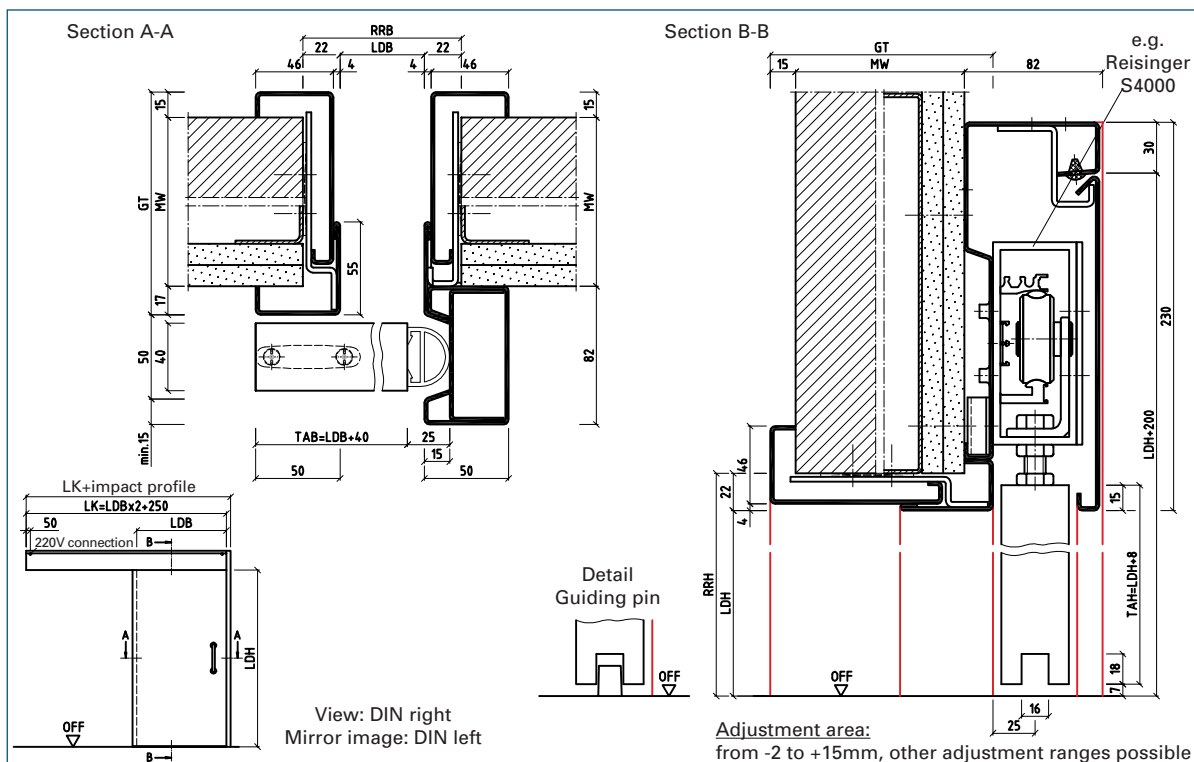


## 221

- OP sliding door frame for sliding doors running in front of the wall (1 part)
- For brick walls
- Other measurements possible

- OP sliding door frame for sliding doors running in front of the wall (1 part)
- For stud walls
- Other measurements possible

Version 6.0

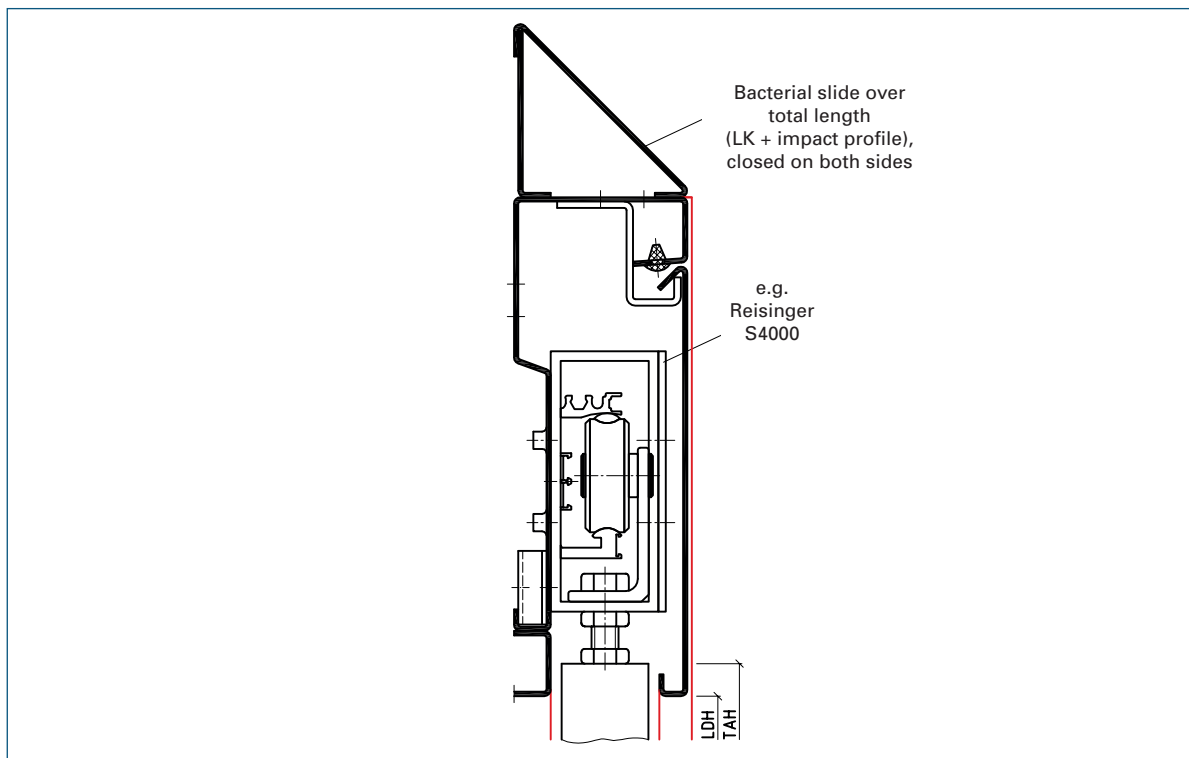


### Designation code

**wSvdW OP**  
**LineaOutside OP**

### Product description

- OP sliding door frame for sliding doors running in front of the wall (2 part split)
- For almost all wall types
- Other measurements possible



### Designation code

**Bacterial slide**

### Product description

- Bacterial slide for sliding door frames for sliding doors running in front of the wall
- For almost all wall types
- Other measurements possible

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Version 6.0

## 225

- OP sliding door frame for sliding doors running in the recess (1 part)
- For brick walls
- Other measurements possible

- OP sliding door frame for sliding doors running in the recess (1 part)
- For stud walls
- Other measurements possible

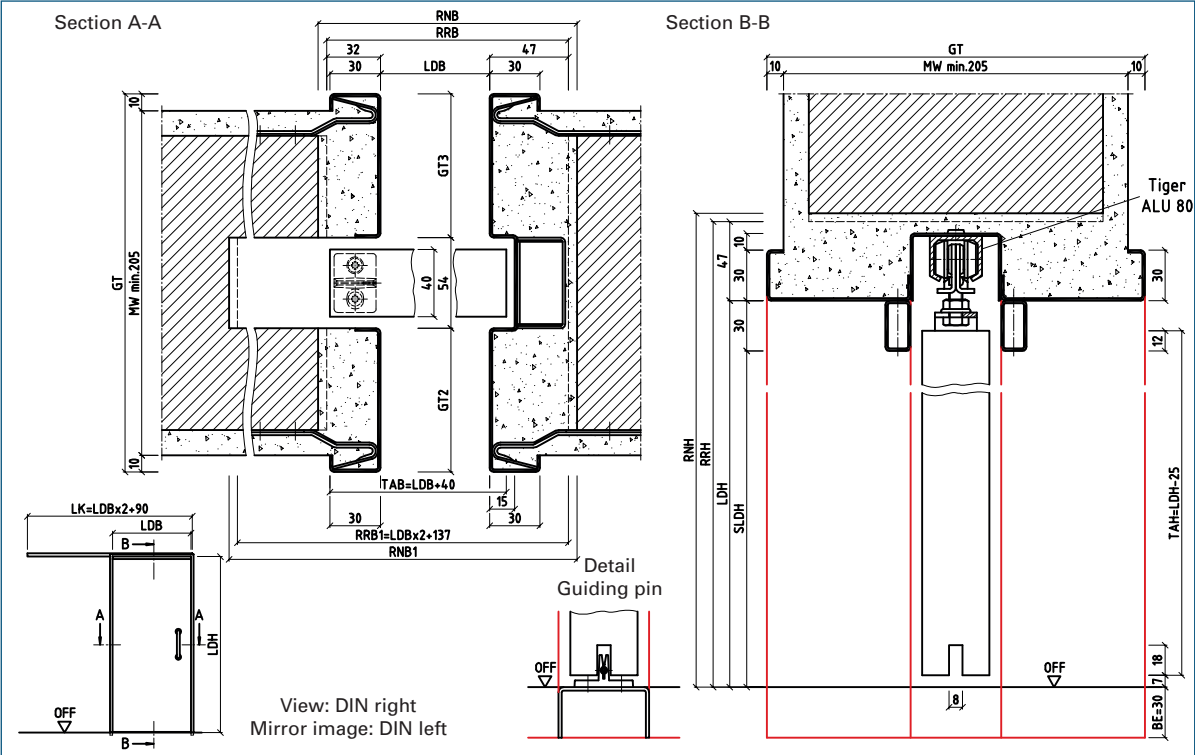
Version 6.0



# LineaLine Sliding Door Frames

## LineaInside – in the Wall

227

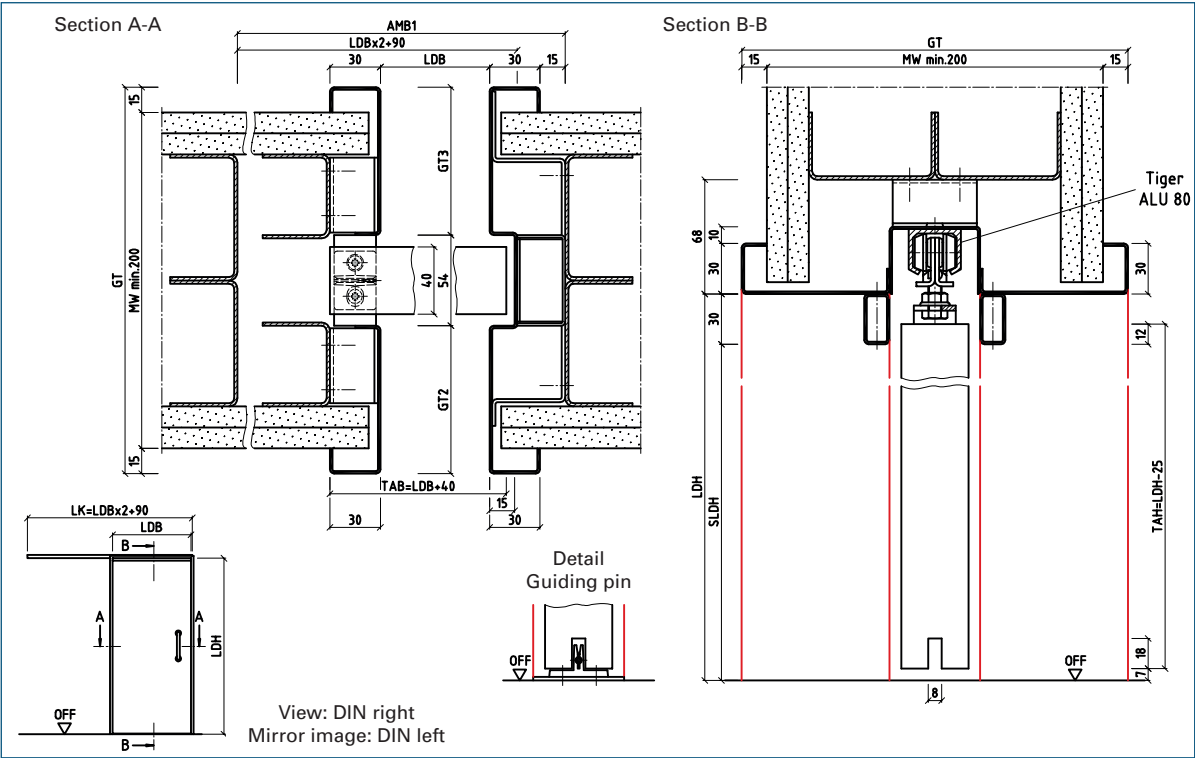


Designation code

Product description

<p><b>SidW</b> <b>LineaInside</b></p>	<ul style="list-style-type: none"> <li>- Sliding door frame for sliding doors running in the wall (1 part)</li> <li>- For brick walls</li> <li>- Other measurements possible</li> </ul>
---	---

9



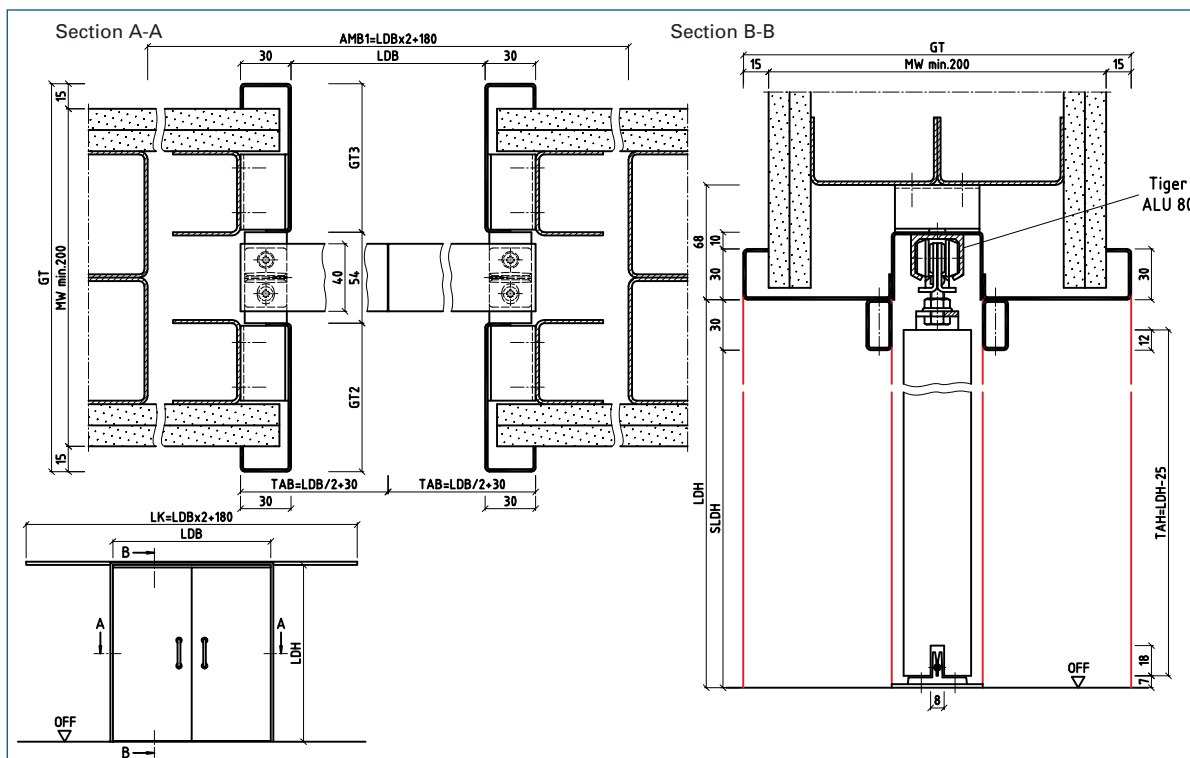
Designation code

Product description

<p><b>SidW</b> <b>LineaInside</b></p>	<ul style="list-style-type: none"> <li>- Sliding door frame for sliding doors running in the wall (1 part)</li> <li>- For stud walls</li> <li>- Other measurements possible</li> </ul>
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The illustrations are not for static information.



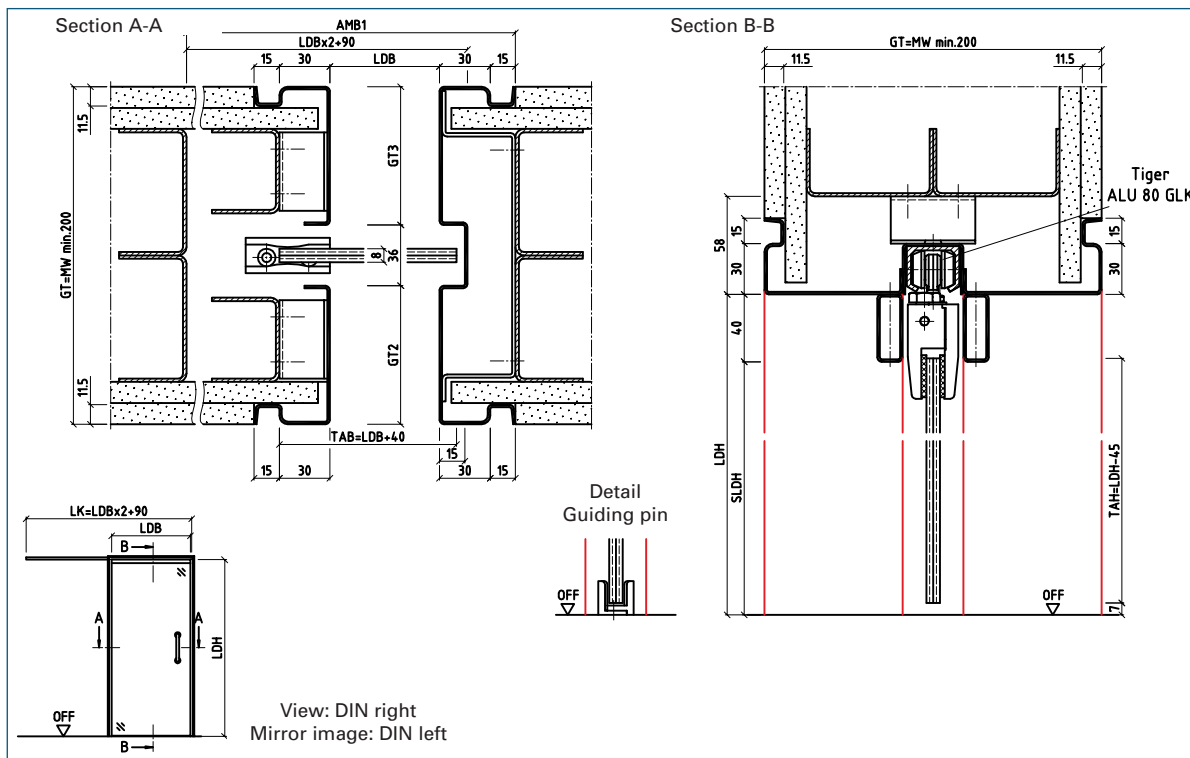


#### Designation code

**SidW**  
**LineaInside**

#### Product description

- Double leaf sliding door frame for sliding doors running in the wall (1 part)
- For stud walls
- Other measurements possible



#### Designation code

**15NzSidW**  
**LineaInside**

#### Product description

- Sliding door frame for sliding doors running in the wall (1 part) with shadow groove on both sides
- For stud walls
- Other measurements possible

#### BOS Sales Department:

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### Article

The BOS LineaCompact is a sliding door frame for doors sliding in the wall in a special case design for brick or stud walls.

### Your advantages

- LineaCompact can be used for wall thicknesses from 100mm for stud walls and from 145mm for brick walls
- Installation is cost-effective and time-saving because of the ready-made case design, which is completely pre-mounted with integrated entry case
- The LineaCompact for brick walls is supplied including the plaster-base sheeting
- The LineaCompact for stud walls is supplied including the screws required for the panelling
- Also available in a 2 leaf design
- Also available for all-glass doors
- Bolt/Latch hole cut-outs according to your specification

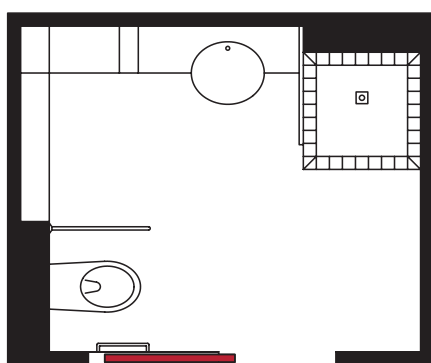
### Our recommendations

- Especially suitable for where there is a lack of space, for example in hotels between the bedroom and bathroom
- Take the DIN direction (according DIN 107) into account when ordering



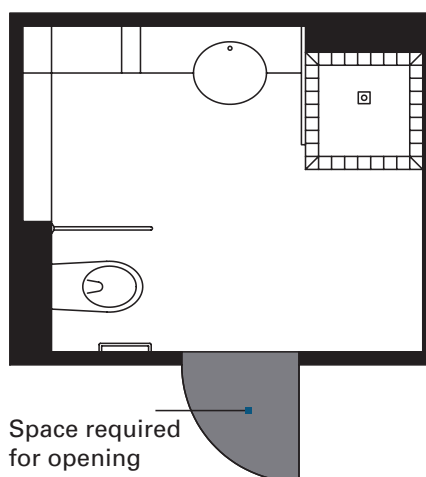
## Ideal for barrier-free building!

With LineaCompact



No space required – the door slides into the wall

With active leaf door



Space required for opening

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E-Mail: info@BestOfSteel.de

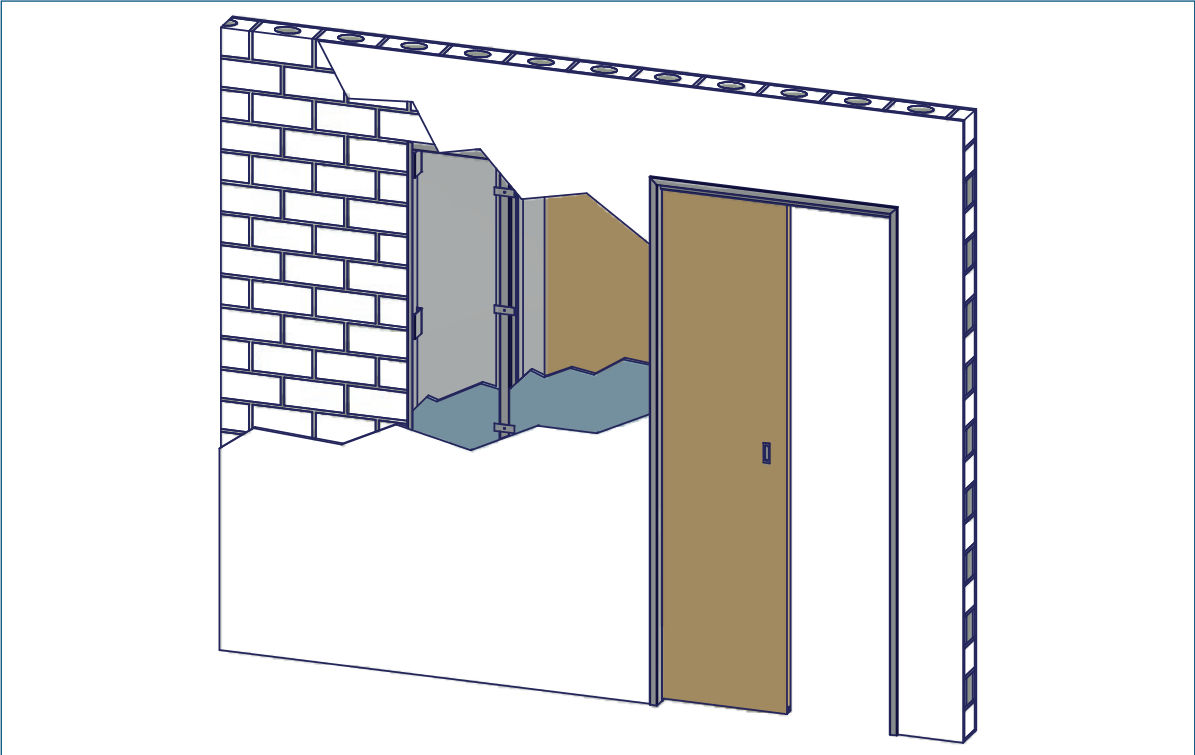
### BOS Architect Consulting Service:

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Fax: +49 2572 203-209  
E-Mail: architekten@BestOfSteel.de

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# LineaLine Sliding Door Frames

## LineaCompact – in the Wall



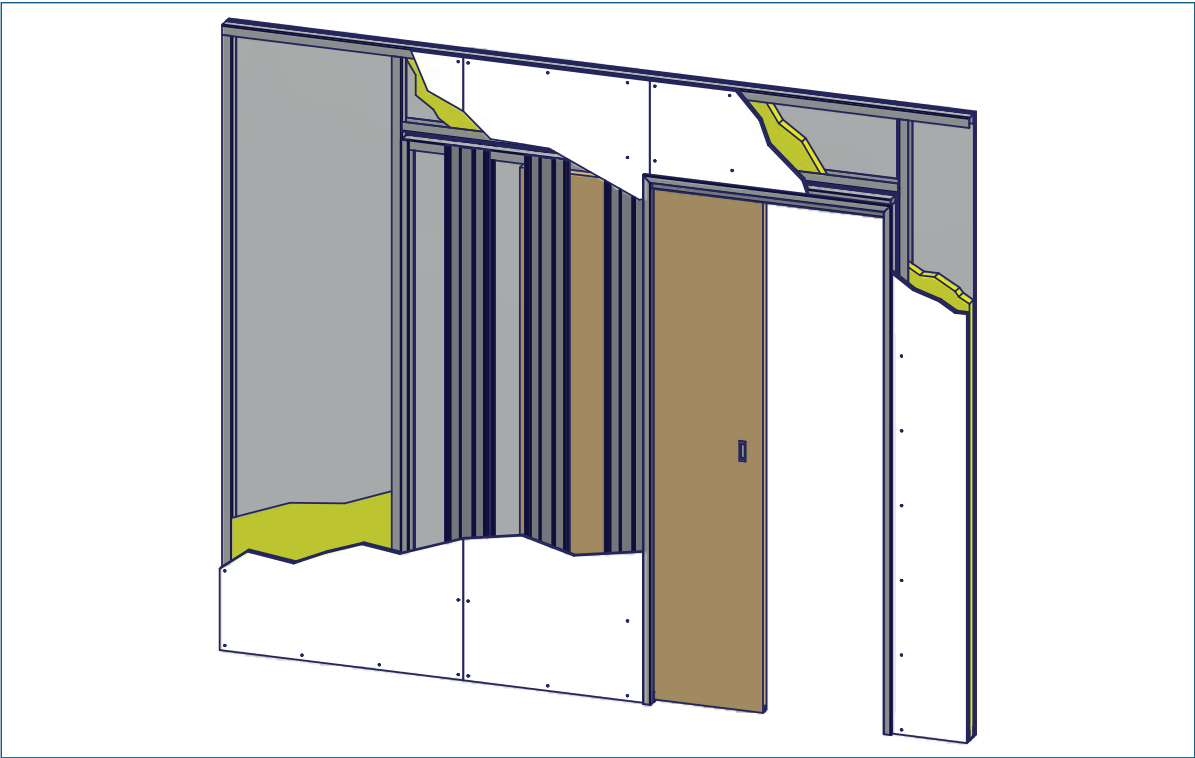
Designation code

**ISidW**  
**LineaCompact**

Product description

- LineaCompact (1 part)
- For brick walls

9



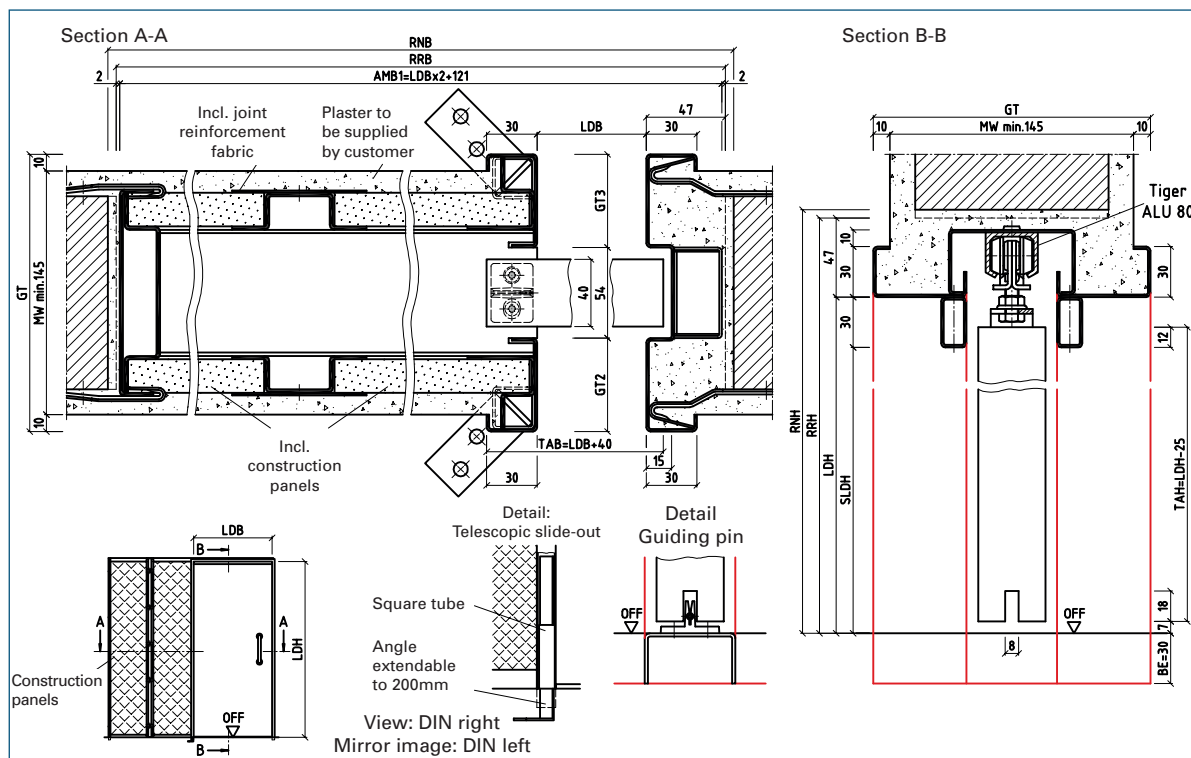
Designation code

**ISidW**  
**LineaCompact**

Product description

- LineaCompact (1 part)
- For stud walls

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information.

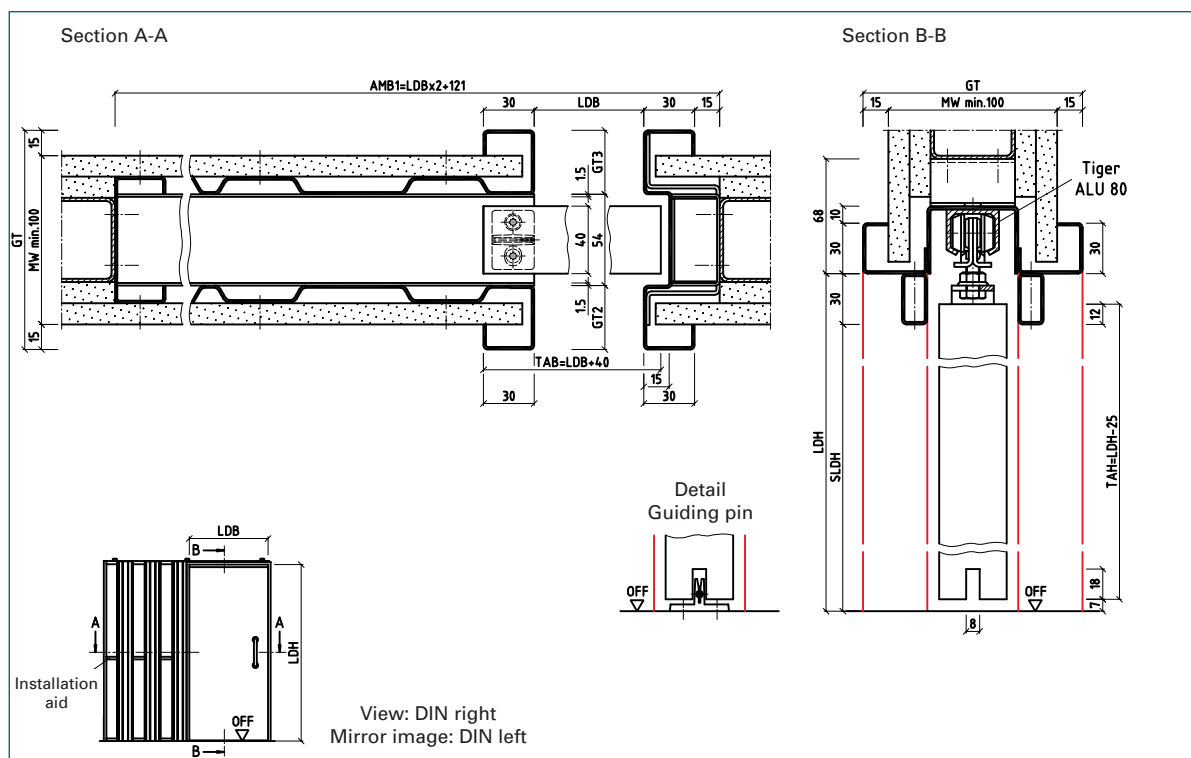


### Designation code

**ISidW**  
**LineaCompact**

### Product description

- Sliding door frame for sliding doors running in the wall (1 part)
- For brick walls
- Other measurements possible



### Designation code

**ISidW**  
**LineaCompact**

### Product description

- Sliding door frame for sliding doors running in the wall (1 part)
- For stud walls
- Other measurements possible

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E-Mail: [architekten@BestOfSteel.de](mailto:architekten@BestOfSteel.de)

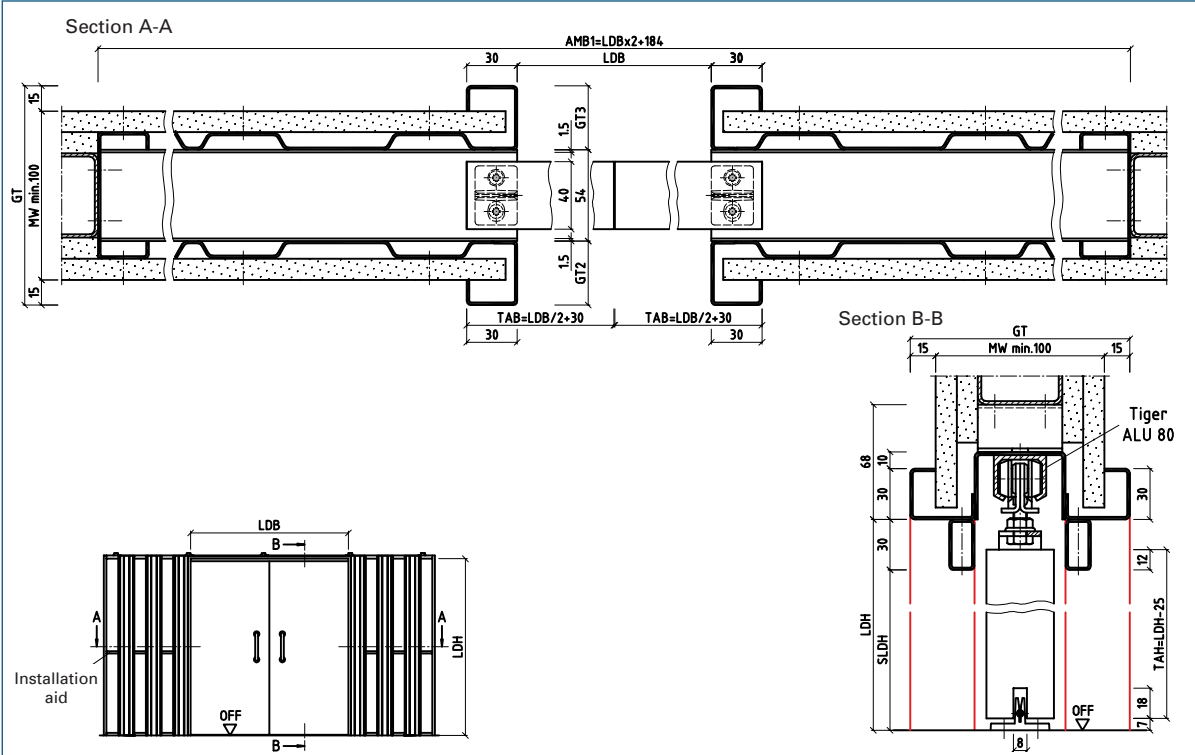
Subject to technical change.  
The illustrations are not for static information.

Version 6.0

# LineaLine Sliding Door Frames

## LineaCompact – in the Wall

233

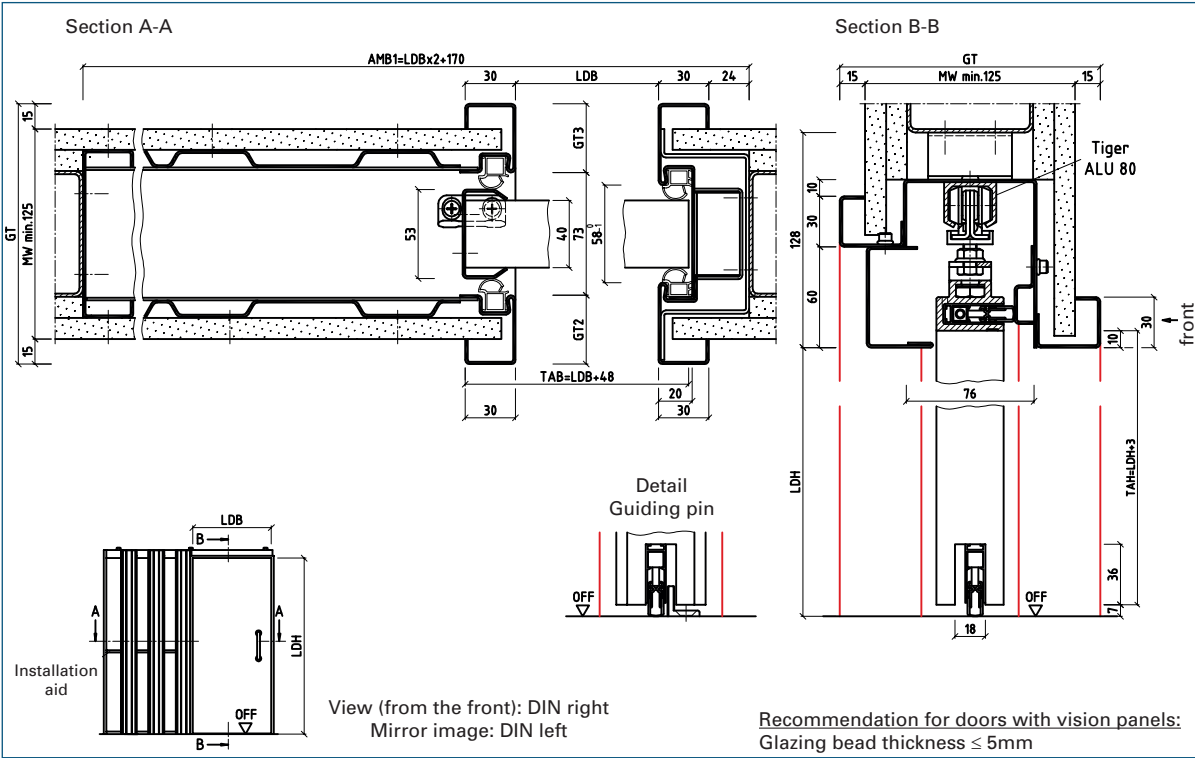


Designation code

Product description

<p><b>ISidW</b> <b>LineaCompact</b></p>	<ul style="list-style-type: none"> <li>- Double leaf sliding door frame for sliding doors running in the wall (1 part)</li> <li>- For stud walls</li> <li>- Other measurements possible</li> </ul>
---	--

9



Designation code

Product description

<p><b>ISidW-D</b> <b>LineaCompact-D</b></p>	<ul style="list-style-type: none"> <li>- Sealed closing sliding door frame for sliding doors running in the wall (1 part)</li> <li>- For stud walls</li> <li>- Other measurements possible</li> </ul>
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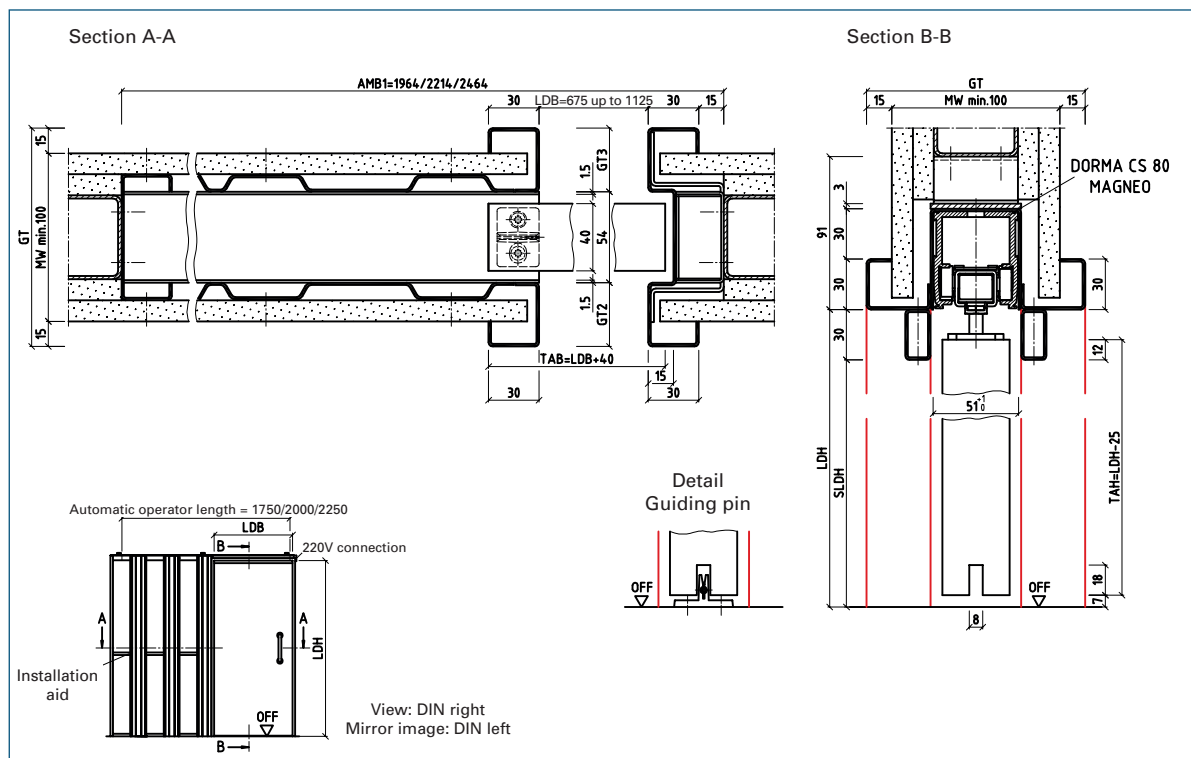
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The illustrations are not for static information.



## 235

- 9

Version 6.0



### Designation code

**ISidW-E**  
**LineaCompact-E**

### Product description

- Sliding door frame for sliding doors running in the wall (1 part) with automatic operator
- For stud walls
- Other measurements possible

## LineaCompact

### Maximum measurements for small receiving openings

LineaCompact for stud walls, single leaf

Wall thickness	Maximum measurements				Panelling
	Width	LDB	Height	LDH	
100	1250	1186	2125	2093	single
125	1250	1186	2250	2218	double

LineaCompact for brick walls, single leaf

Wall thickness	Maximum measurements			
	Width	LDB	Height	LDH
145	1250	1186	2250	2218

Further measurements on request.

Please consider the conditions on site: Are the entrances to the building adequate for transportation of the frames to the point of installation or is a division of the frame necessary?

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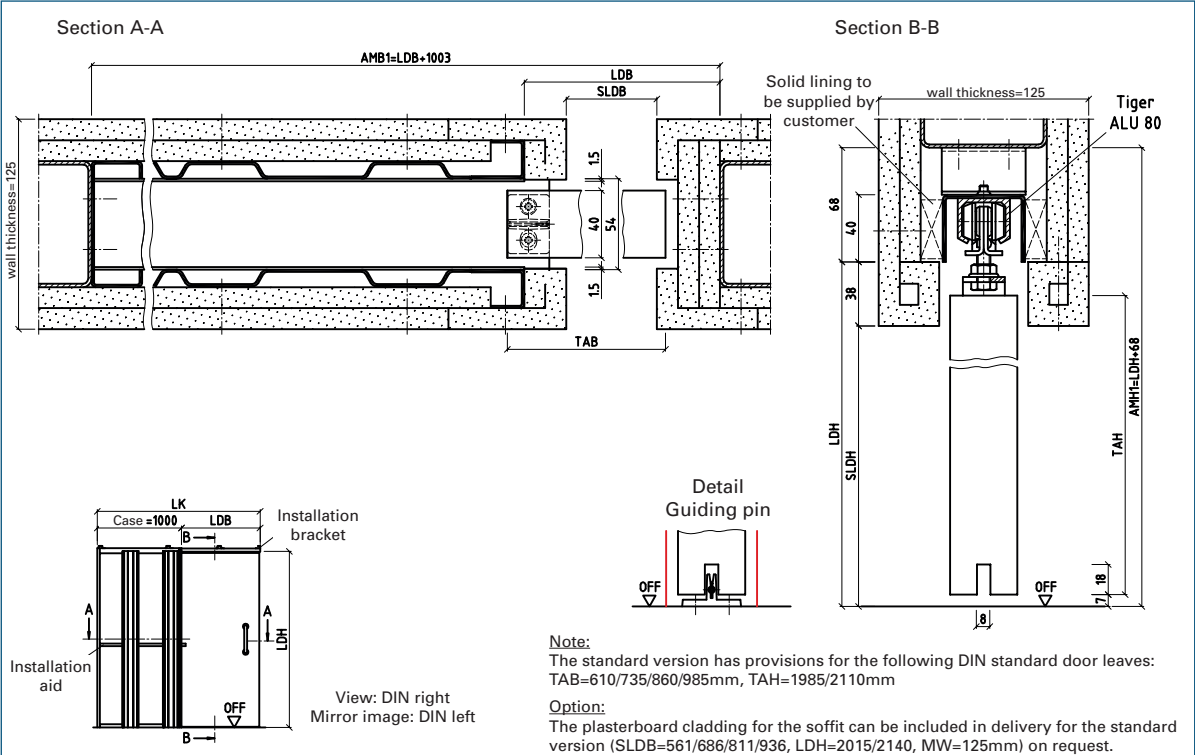
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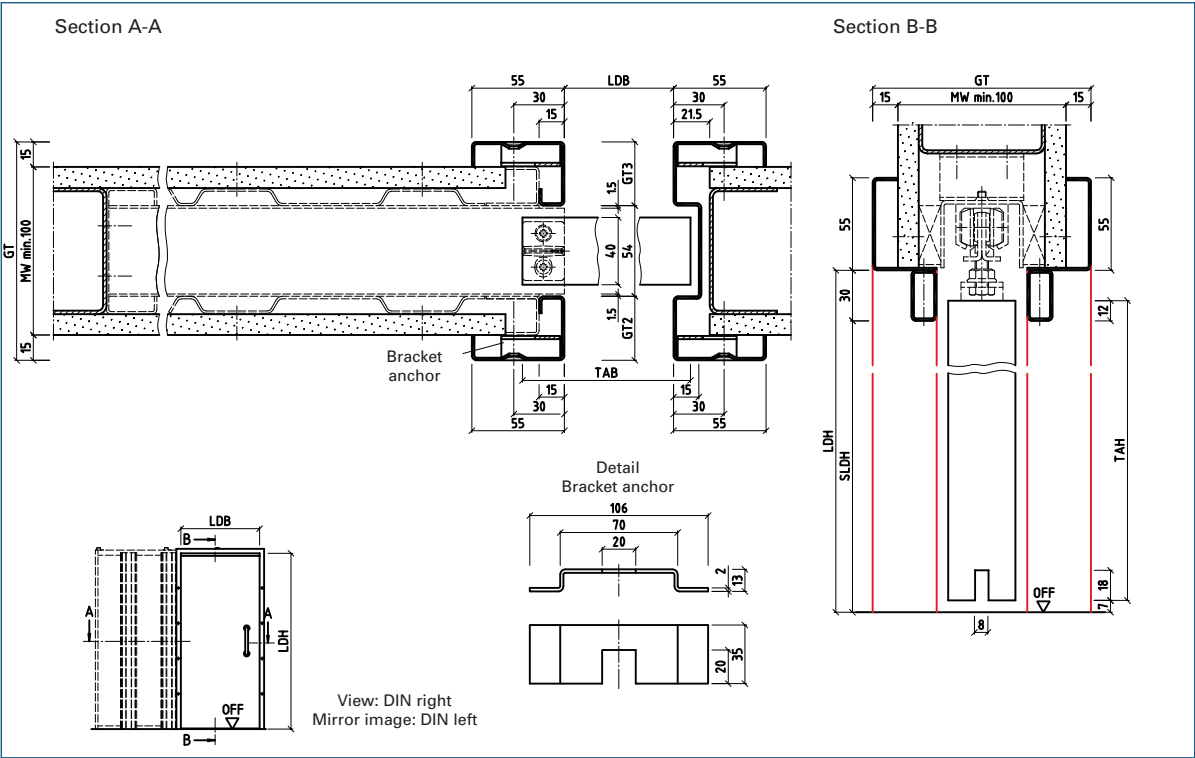


Designation code

**LineaBox**

Product description

- Sliding door case for sliding doors running in the wall (1 part) without frame
- For stud walls
- Other measurements possible



Designation code

**xSidW ECON<sup>®</sup>**  
**LineaSplit**

Product description

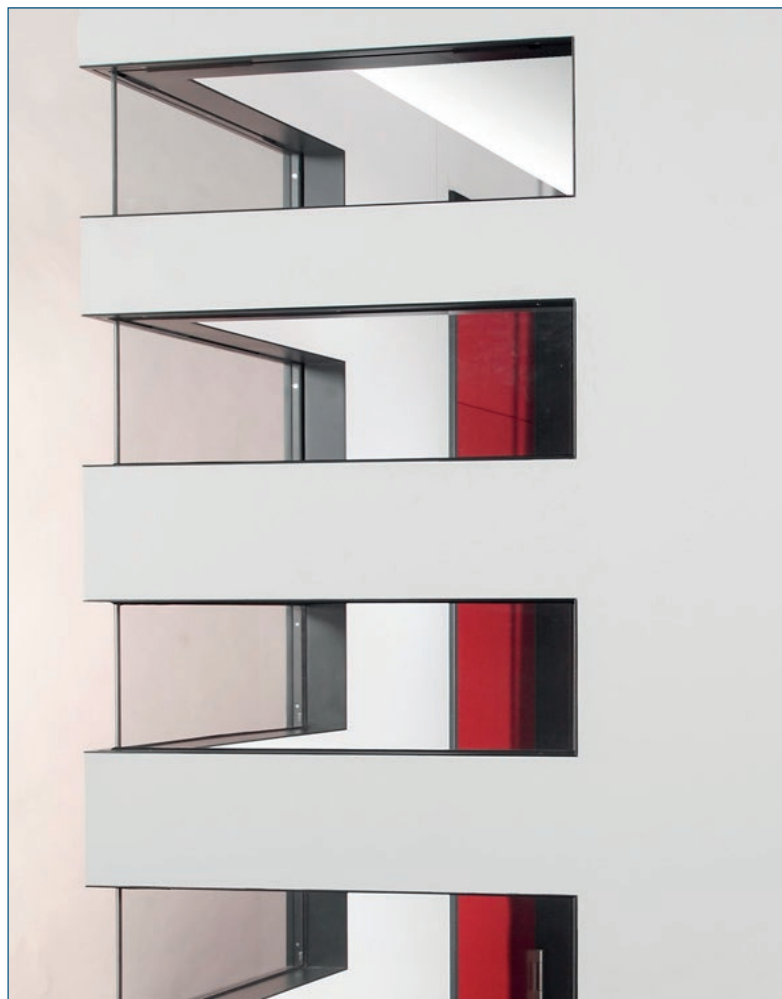
- Cover frame (5 parts) for existing sliding door cases, e.g. LineaBox
- For stud walls
- Other measurements possible

Subject to technical change.  
The illustrations are not for static information.



BOS window frames ensure optimal light conditions in interior rooms and allow a view into the room without entering.

The window frames are suitable for single, double and insulation glazing and can be supplied with inner Venetian blinds.



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Contents	Page
GlasTec	241 - 245
Glazing bead examples	246 - 248

### BOS Sales Department:

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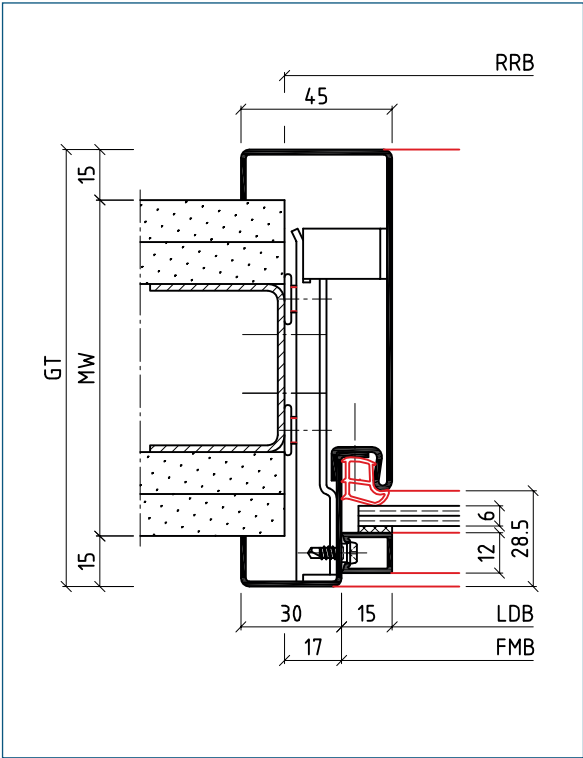
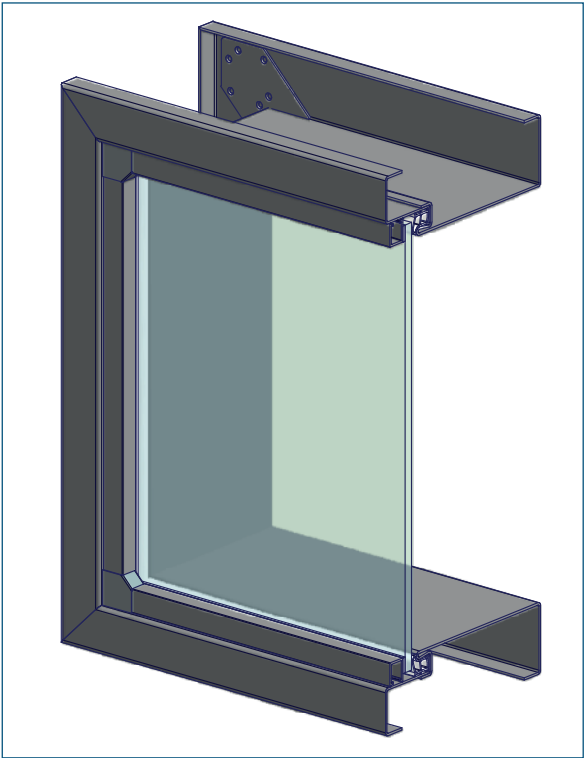
**Article** BOS window frames are suitable for almost all wall types and are available for single, double or insulation glazing. The window pane and the window seal are not included in delivery. The window elements are equipped with paintable aluminium glazing beads and stainless steel corner covers as a standard feature.

- Your advantages**

  - Optional for increased sound proofing
  - Available as a 2 part split design
  - Available for inner Venetian blinds or with lockable window casement
  - 1 part window frames for single glazing available in preferential sizes at short notice from stock
- Our recommendations**

  - For a coordinated visual effect choose a profile which matches that of the door frame
  - Tube glazing beads welded as framework

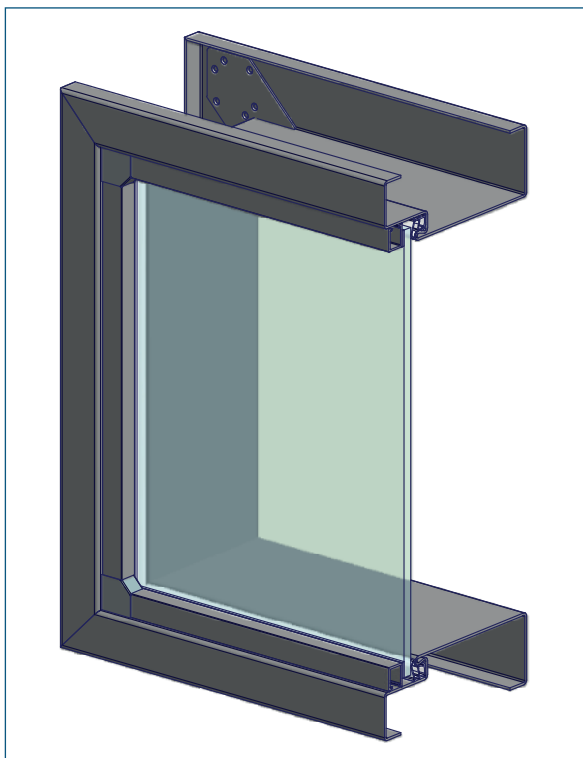
Further information regarding the glazing systems GlasTec®, SoundTec® sound proof glazing, ProTec safety glazing, RadioTec® radiation protection glazing and FlamTec® fireproof glazing can be found on the homepage of our sister company BBE DOMOFERM at [www.Domoferm.de](http://www.Domoferm.de)



Designation code	<b>15ZBud/15ZBsd</b>
Product description	<ul style="list-style-type: none"><li>- Window frame for single glazing (2 part split)</li><li>- For almost all wall types</li><li>- For subsequent installation</li></ul>

Designation code	<b>15ZBud</b>
Product description	<ul style="list-style-type: none"><li>- Window frame for single glazing (2 part split)</li><li>- For stud walls</li><li>- Illustration with levelling anchor</li></ul>

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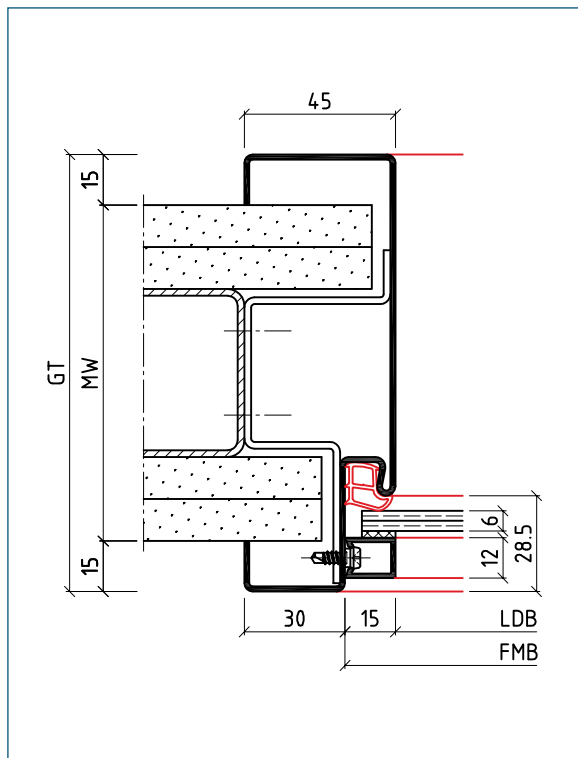


Designation  
code

**Bud/Bsd**

Product  
description

- Window frame for single glazing (1 part)
- For stud walls
- For installation together with the wall

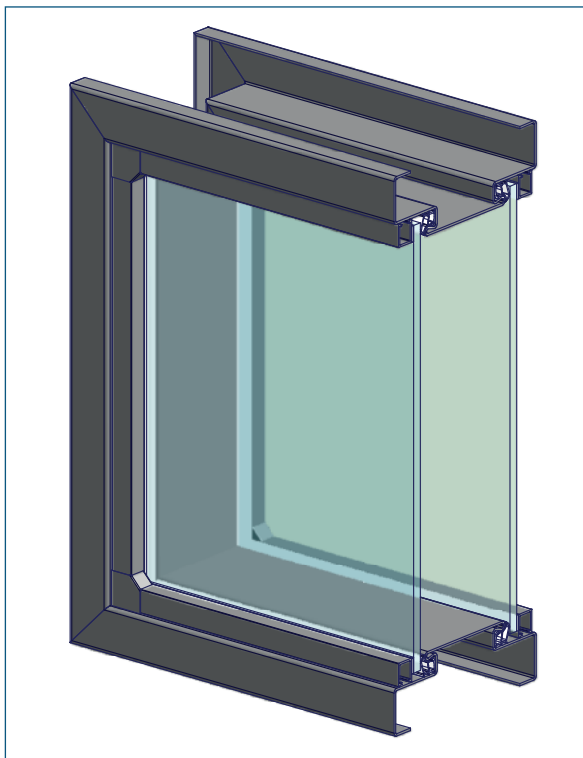


Designation  
code

**Bud**

Product  
description

- Window frame for single glazing (1 part)
- For stud walls
- Illustration with bracket anchor

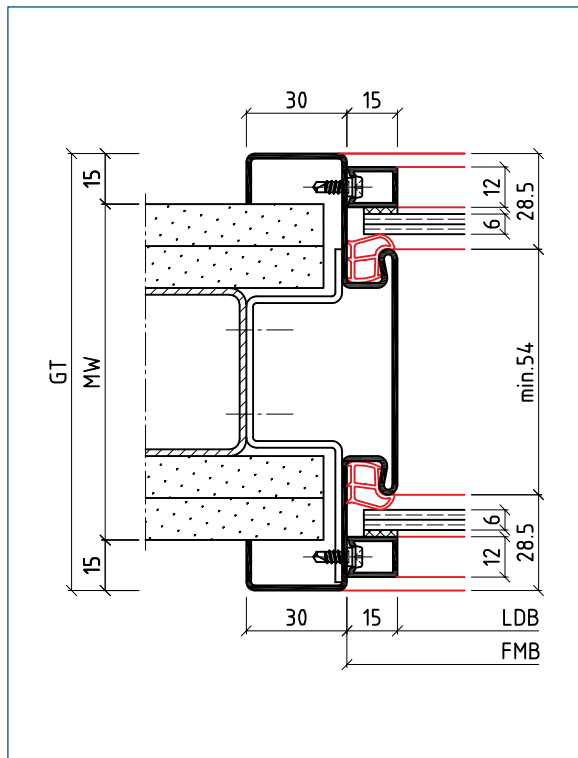


Designation  
code

**Oud/Osd**

Product  
description

- Window frame for double glazing (1 part)
- For stud walls
- For installation together with the wall



Designation  
code

**Oud**

Product  
description

- Window frame for double glazing (1 part)
- For stud walls
- Illustration with bracket anchor

**BOS Sales Department:**

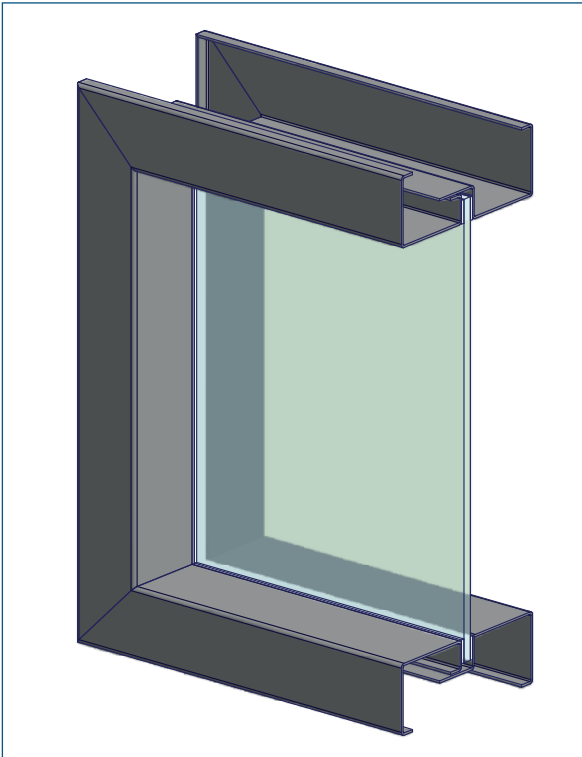
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**BOS Architect Consulting Service:**

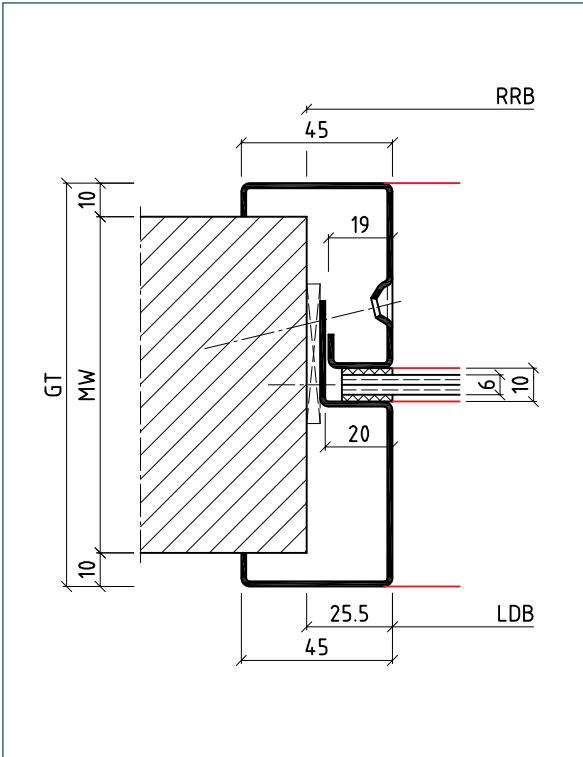
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E-Mail: [architekten@BestOfSteel.de](mailto:architekten@BestOfSteel.de)

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information.

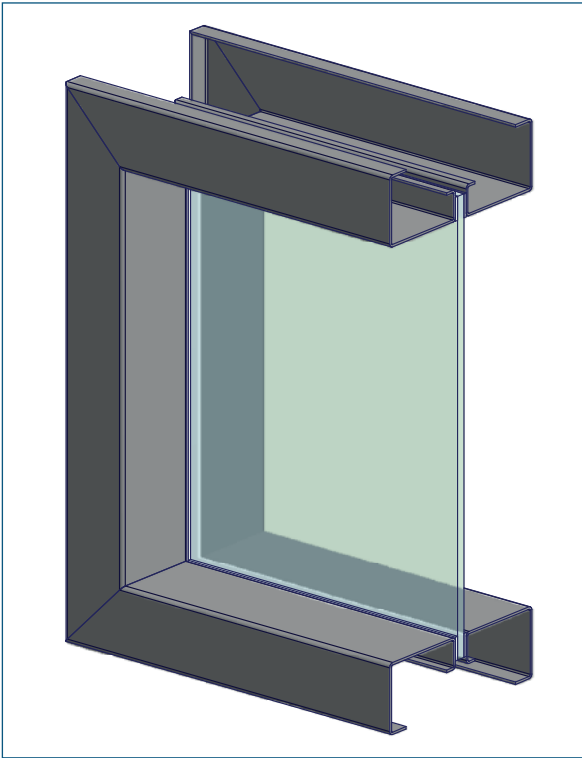
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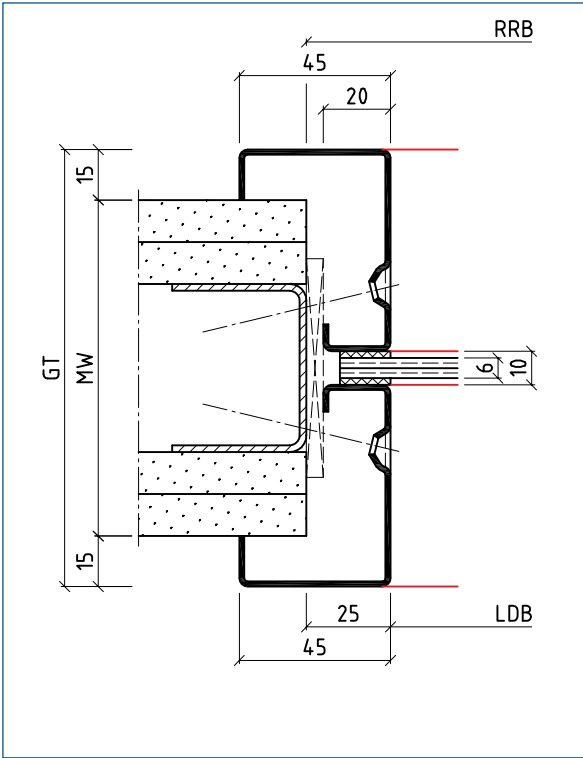
Designation code	<b>wD</b>
Product description	<ul style="list-style-type: none"><li>- Window frame for central single glazing (2 part split)</li><li>- For almost all wall types</li><li>- For subsequent installation</li></ul>



Designation code	<b>wD</b>
Product description	<ul style="list-style-type: none"><li>- Window frame for central single glazing (2 part split)</li><li>- For brick walls</li><li>- Illustration with frame dowel</li></ul>

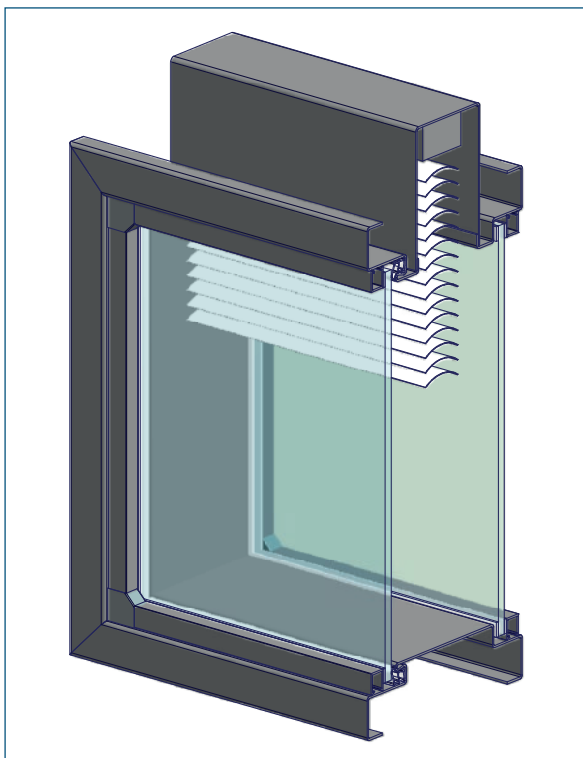


Designation code	<b>Gv</b>
Product description	<ul style="list-style-type: none"><li>- Window frame for central single glazing (2 part split)</li><li>- For almost all wall types</li><li>- For subsequent installation</li></ul>



Designation code	<b>Gv</b>
Product description	<ul style="list-style-type: none"><li>- Window frame for central single glazing (2 part split)</li><li>- For stud walls</li><li>- Illustration with frame dowel</li></ul>

Subject to technical change.  
The illustrations are not for static information.

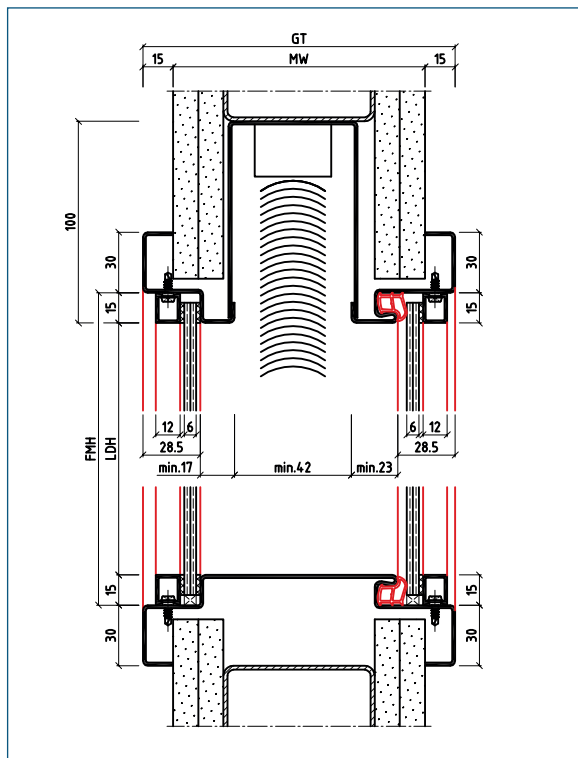


Designation  
code

**JAud/JAsd**

Product  
description

- Window frame for double glazing and Venetian blind (1 part)
- For stud walls
- For installation together with the wall

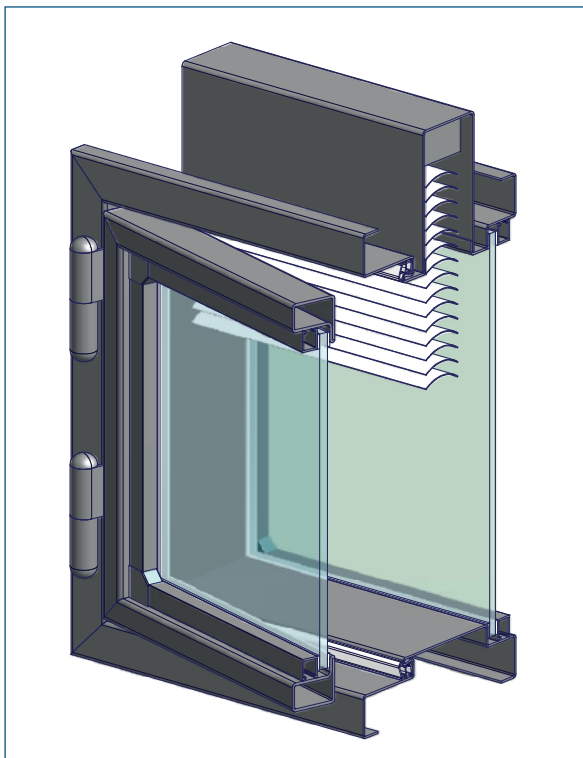


Designation  
code

**JAud**

Product  
description

- Window frame for double glazing and Venetian blind (1 part)
- For stud walls

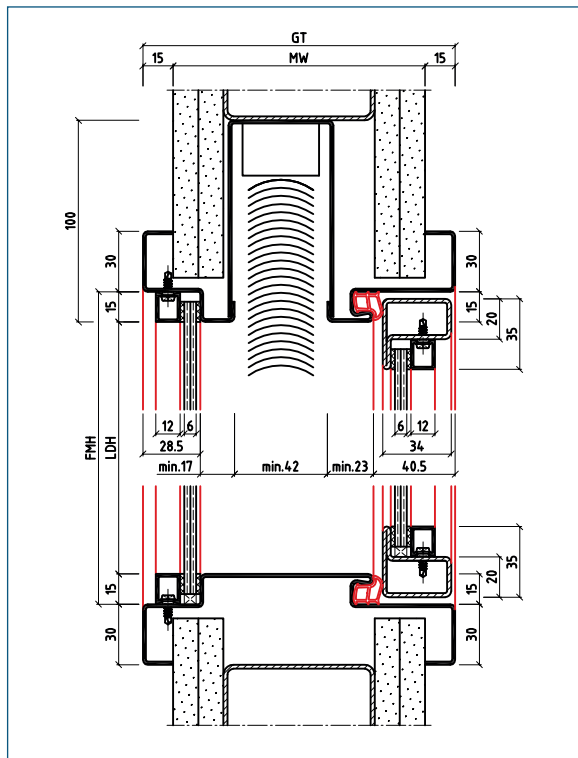


Designation  
code

**JAud/JAsd**

Product  
description

- Window frame to open (1 part)
- For stud walls
- For installation together with the wall



Designation  
code

**JAud**

Product  
description

- Window frame to open (1 part)
- For stud walls

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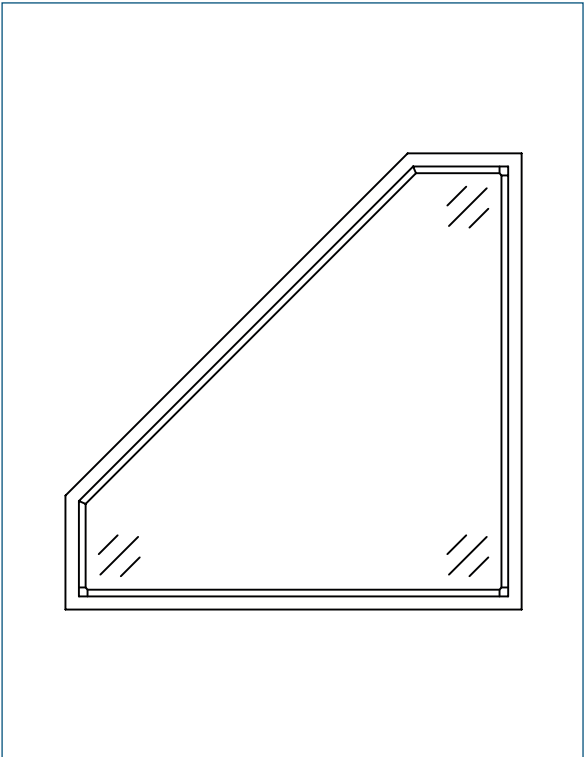
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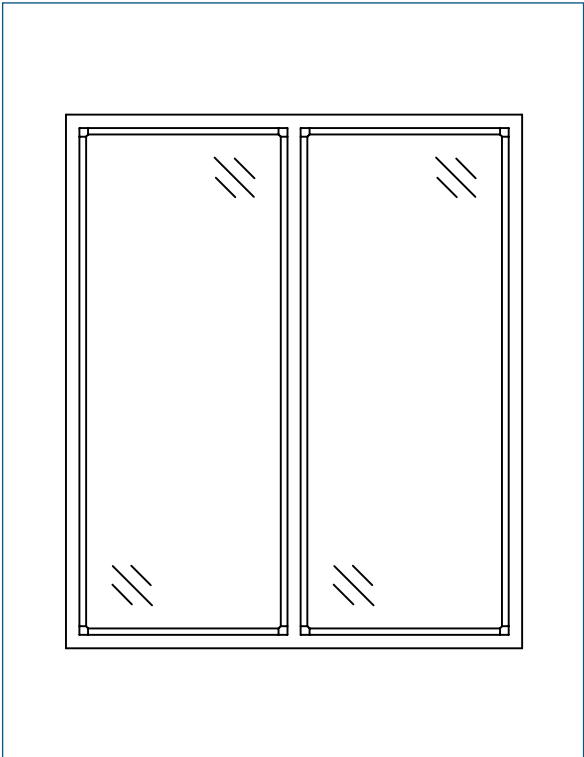
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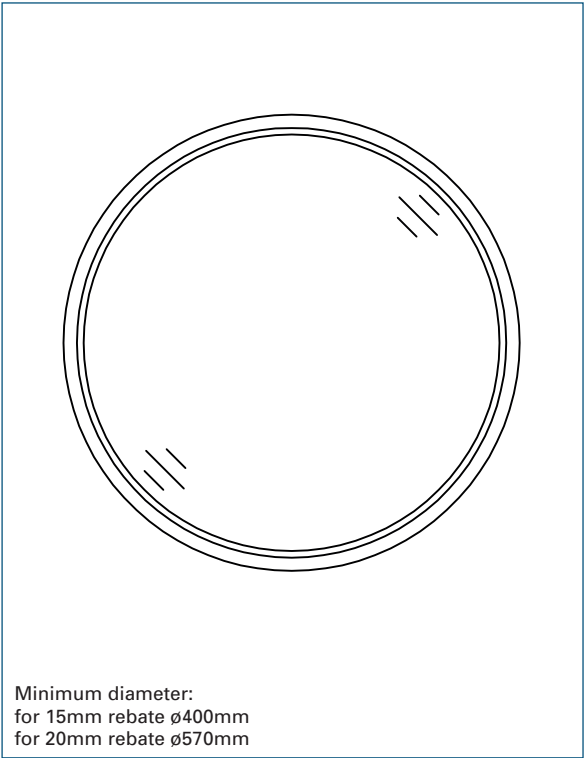
Designation code  
**Window frame (Example 1)**

Product description  
- 4 sided element with slanting headpiece  
- For brick or stud walls  
- Other versions possible



Designation code  
**Window frame (Example 2)**

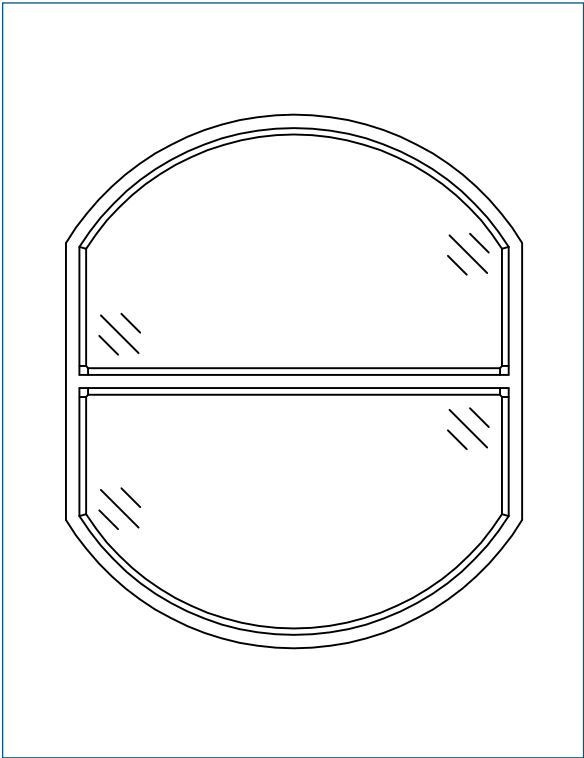
Product description  
- 4 sided element with vertical transom bar  
- For brick or stud walls  
- Other versions possible



Minimum diameter:  
for 15mm rebate  $\varnothing 400\text{mm}$   
for 20mm rebate  $\varnothing 570\text{mm}$

Designation code  
**Window frame (Example 3)**

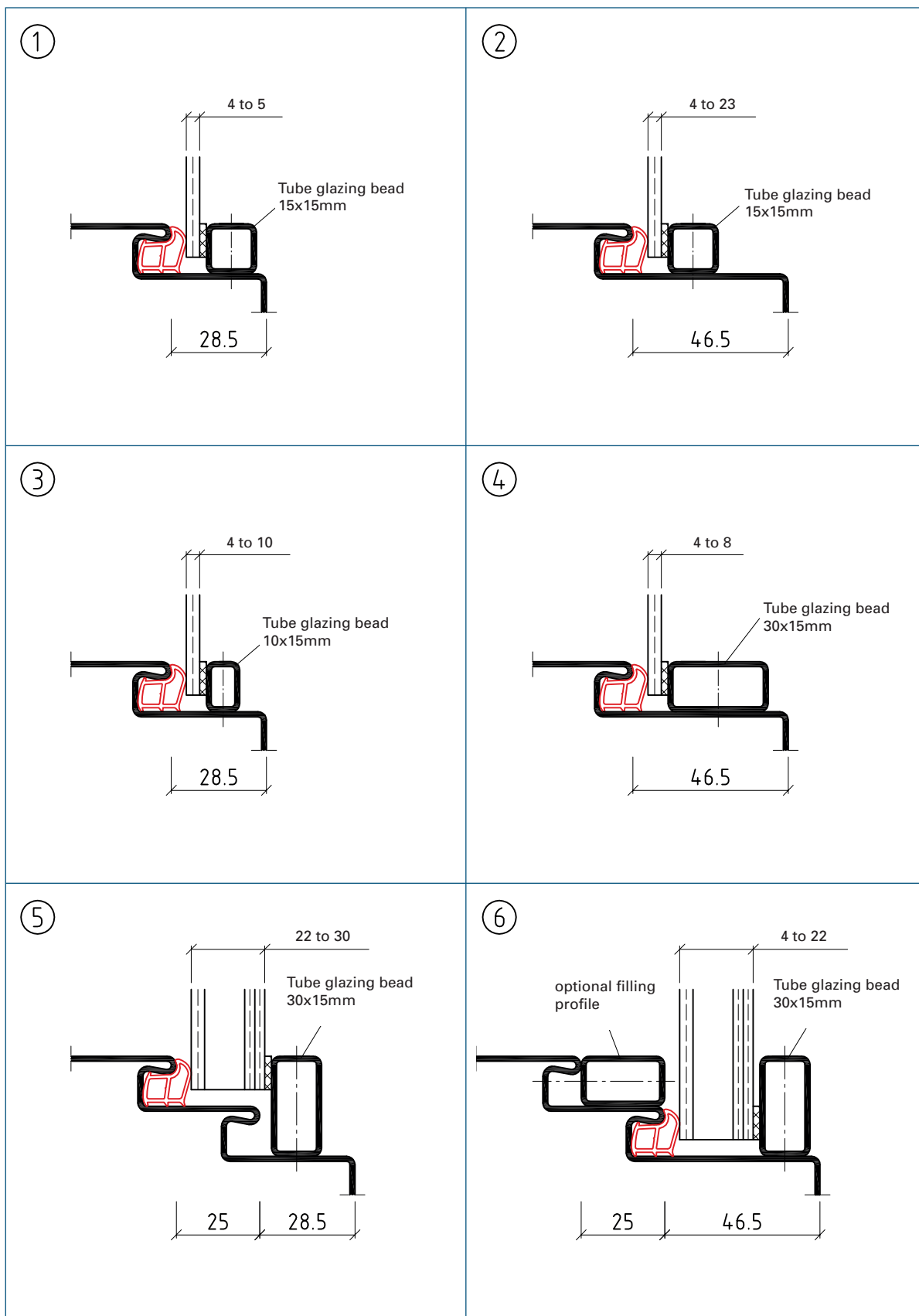
Product description  
- Round  
- For brick or stud walls  
- Other versions possible



Designation code  
**Window frame (Example 4)**

Product description  
- Round arch with horizontal transom bar  
- For brick or stud walls  
- Other versions possible

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### Designation code

#### Glazing bead examples

### Product description

- Glazing beads
- BOS recommendation: tube glazing beads welded as framework
- Other measurements, glass thicknesses and versions possible

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### BOS Architect Consulting Service:

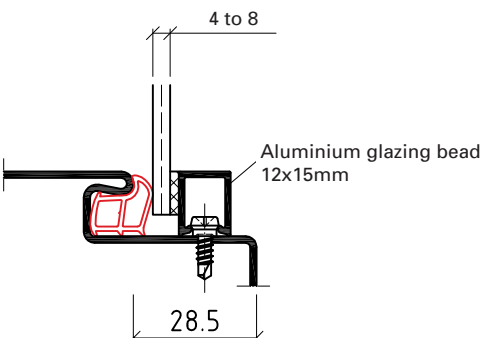
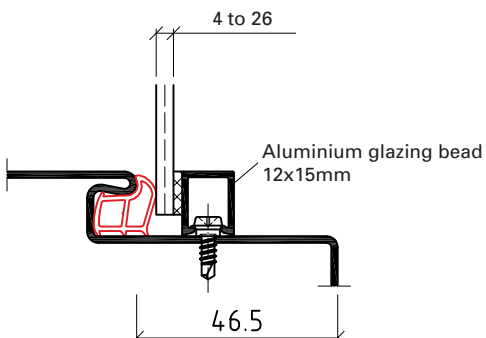
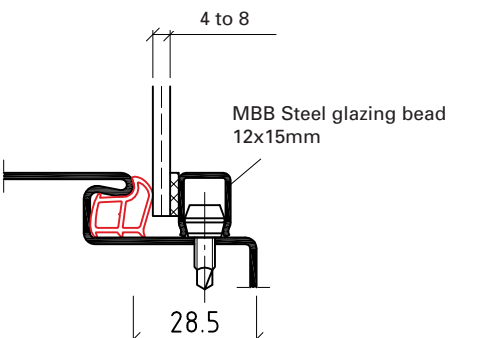
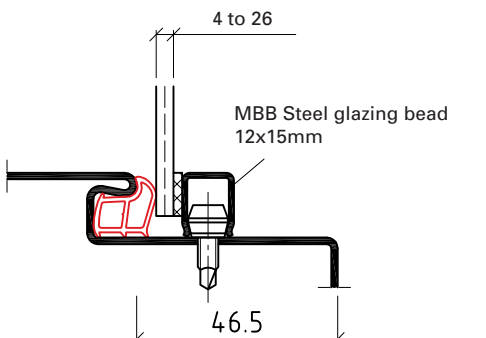
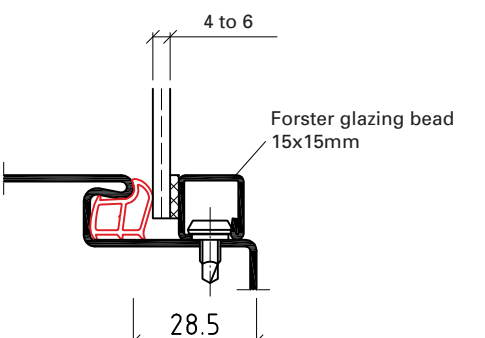
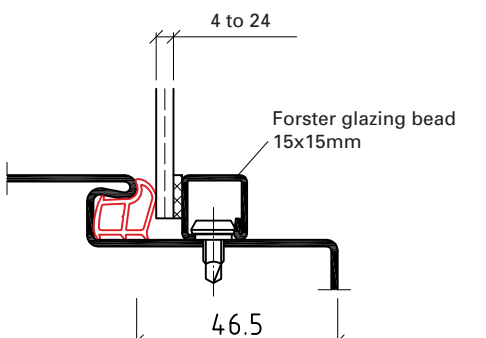
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Version 6.0

# Window Frames

## Glazing Bead Examples

<p>①</p>  <p>Aluminium glazing bead 12x15mm</p> <p>4 to 8</p> <p>28.5</p>	<p>②</p>  <p>Aluminium glazing bead 12x15mm</p> <p>4 to 26</p> <p>46.5</p>
<p>③</p>  <p>MBB Steel glazing bead 12x15mm</p> <p>4 to 8</p> <p>28.5</p>	<p>④</p>  <p>MBB Steel glazing bead 12x15mm</p> <p>4 to 26</p> <p>46.5</p>
<p>⑤</p>  <p>Forster glazing bead 15x15mm</p> <p>4 to 6</p> <p>28.5</p>	<p>⑥</p>  <p>Forster glazing bead 15x15mm</p> <p>4 to 24</p> <p>46.5</p>

Designation code

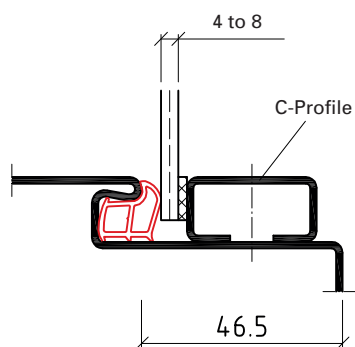
**Glazing bead examples**

Product description

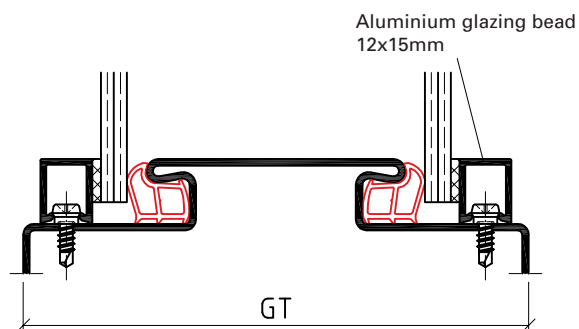
- Glazing beads with stainless steel corner covers
- BOS recommendation: tube glazing beads welded as framework
- Other measurements, glass thicknesses and versions possible

Subject to technical change.  
The illustrations are not for static information.

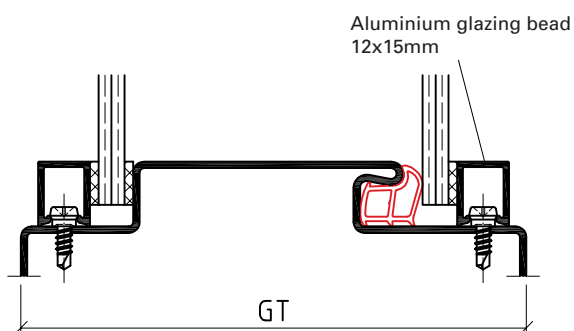
①



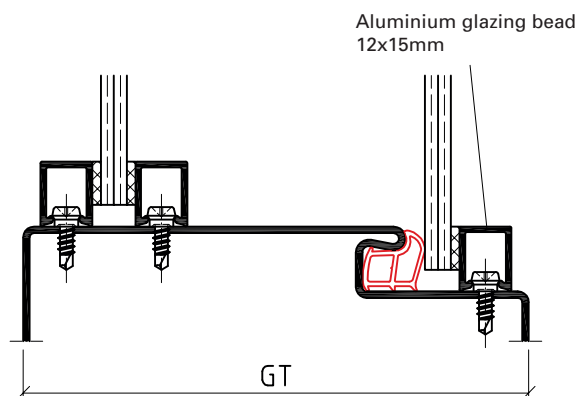
②



③



④



Designation code

**Glazing bead  
examples**

Product description

- Glazing beads with stainless steel corner covers
- BOS recommendation: tube glazing beads welded as framework
- Other measurements, glass thicknesses and versions possible

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information.

**Version 6.0**

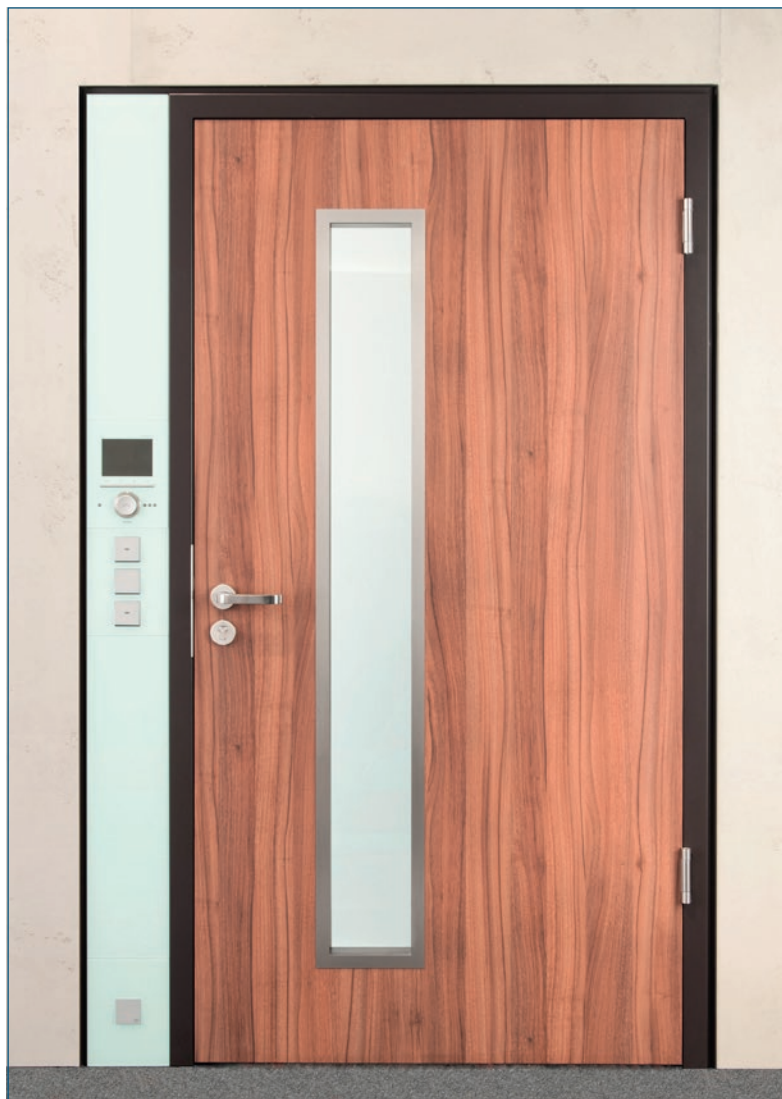




CasePlus Solutions are systems for the professional housing of technical door components and other elements of building technology.

The electronics are protected yet readily accessible for modification or maintenance.

Wall, frame and door can be harmoniously designed as the building elements are concealed within the CasePlus Solutions.



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A choice of functions	261

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The central, ever-present room element of door and frame are absolutely ideal for housing electronic functions, visualization and orientation. This is where people identify themselves, enter the room and initiate a large part of the room functions. In this way entrance areas have developed into communications hubs.



## CasePlus Design:

Design oriented glass elements protect the installation area for the electronic modules and switches. The frame is integrated.



Page 254



## CasePlus LED:

An acrylic pane protects the installation space for the LED lighting and the electronic modules and switches. The frame is integrated.

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## CasePlus Front:

A removable cover panel protects the installation space for the electronic modules and switches. The frame is integrated.

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! For further information ask for our free brochure “CasePlus Solutions” at:  
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information.

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CasePlus Design is a system for simple access to the technical components. The electronics are concealed by glass tiles and they are completely inter-changeable. Corresponding glass elements can be reordered or reused as appropriate.

Minimalist architecture – maximum function.

CasePlus Design makes it possible to house the electronic components in a uniform design – alterations or maintenance work take place without dirt, wall chasing or plastering.



#### CasePlus Design offers:

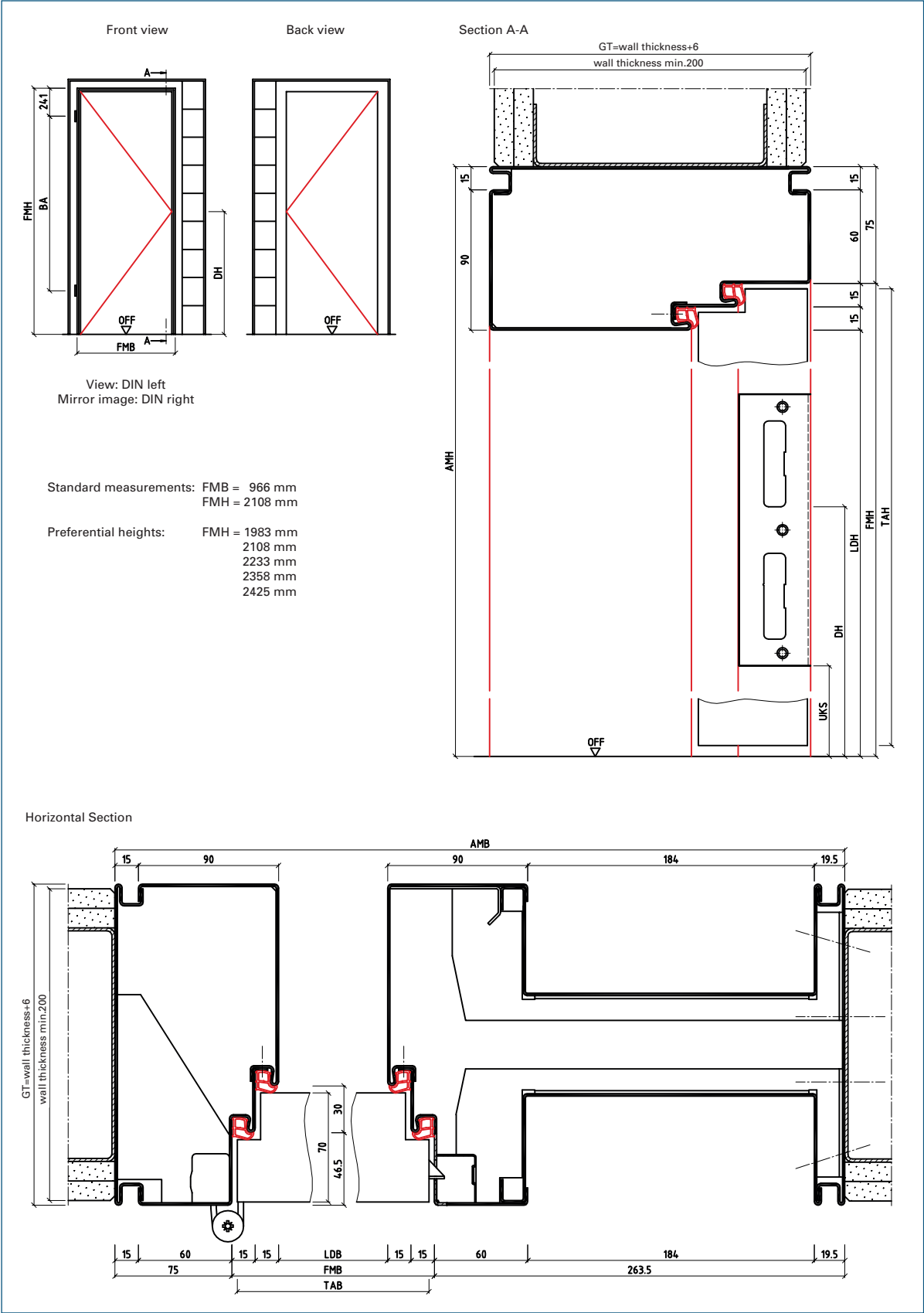
- CasePlus Design with integrated and retrofittable technology that can be exchanged or serviced at any time.
- Different lighting possibilities which can be integrated within the glass elements (escape routes, corridor lighting, guiding lights ...).
- Further materials for covering the installation area: steel, timber, glass – also in narrower measurements.
- Various designs of the installation area are possible: one, two or three sided on both the front and back sides of the door frame:



#### The glass elements can contain, for example, the following components of the GIRA Modular Function Profile:

- Door communication systems (with or without display)
- Button sensors and info displays
- Access controls
- Flush mounted radios
- Room thermostats
- Time switches
- Control and electronic keys for blinds
- Plug sockets as well as communication and network connections
- Light switches, automatic switches and dimmers





Designation code

**15Nz15ZBsFd-CPD**  
**CasePlus Design**

Product description

- Illustration: installation area "I" form on both sides
- For installation together with the wall
- For stud walls

Subject to technical change.  
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information.

CasePlus LED is an innovative system allowing lighting concepts to be put into effect. An acrylic pane around the door can be illuminated in white or in colour using LEDs, thus serving as an orientation guide, corridor lighting or as an eye catching feature.

In this design oriented system, the technical components of door and building technology are housed within the frame – the electronics are concealed behind an acrylic pane. The flush mounted frame is integrated and the LED lighting is a visual highlight, setting the scene perfectly.



#### CasePlus LED offers:

- Full surface LED lighting which serves as an orientation guide, corridor lighting and as a design element.
- Lighting which can be programmed or controlled separately.
- CasePlus LED with integrated technology.
- Various designs of the installation area are possible: one, two or three sided on both the front and back sides of the door frame:



#### A lighting concept example – CasePlus LED as an innovative product in patient care

A patient room is equipped with a CasePlus LED which can signalize red, yellow and green in a similar way to traffic lights.

- Red = Attention emergency
- Yellow = Please check soon
- Green = Everything is alright

This allows nursing staff to see the status of the patient's room at a glance.



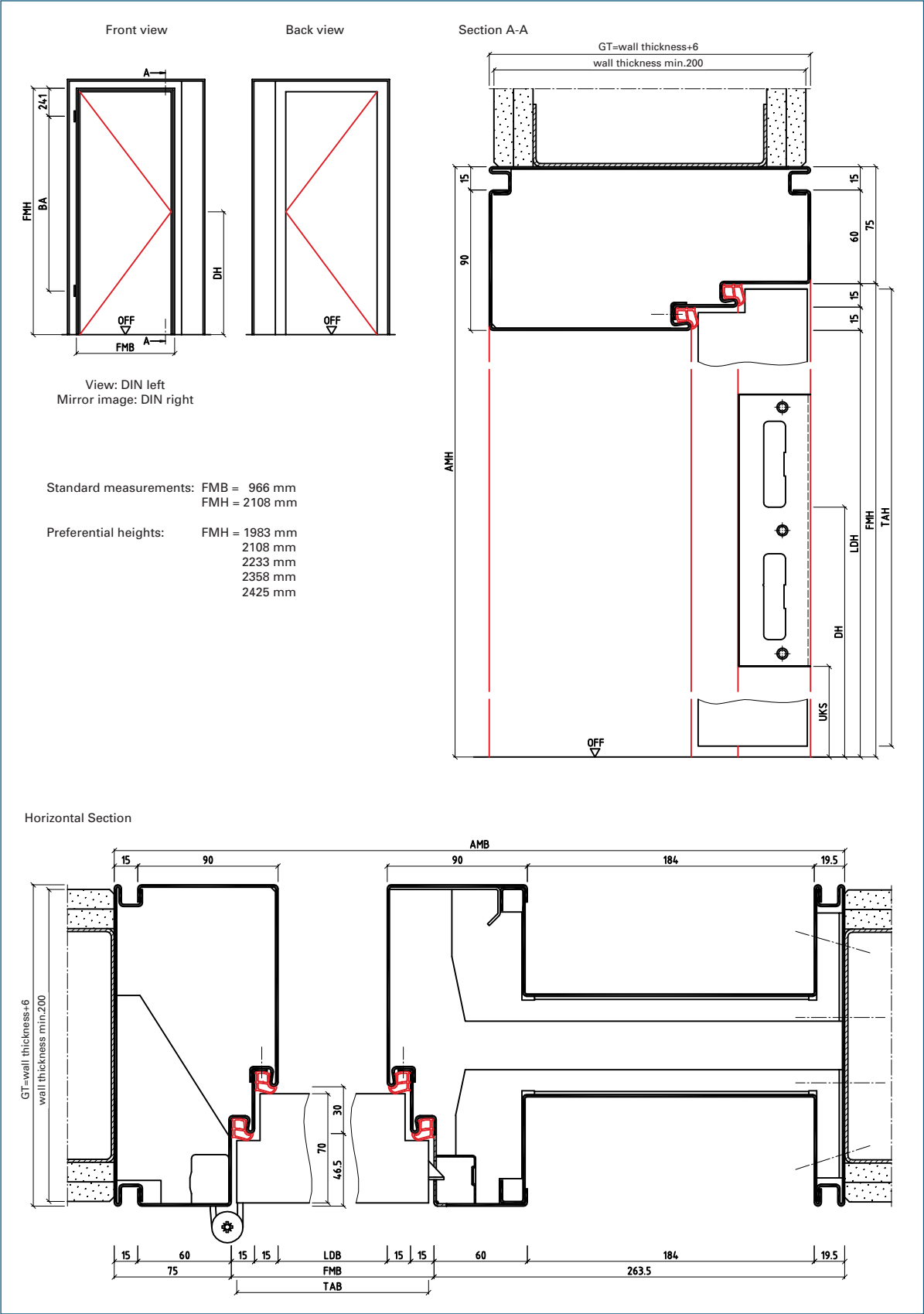
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Designation code

**15Nz15ZBsFd-CPL**  
**CasePlus LED**

Product description

- Illustration: installation area "I" form on both sides
- For installation together with the wall
- For stud walls

Subject to technical change.  
The illustrations are not for static  
information.

CasePlus Front follows the philosophy of flexibility and investment safety for the future development of housing and bus systems.

With CasePlus Front, the wiring needed for the technical components no longer has to be behind plaster, but is hidden in an installation duct within the frame adjacent to the door.

The aluminium covering panel of the installation duct can be removed for refitting and allows easy access to the technical components. Fast refitting requires only one workman, saving time and money.

In addition, an attractive appearance is ensured, as all the technical components are combined in one system.



#### CasePlus Front offers:

- Easy refitting due to the removable aluminium covering panel.
- Wiring which is easily accessible in one installation duct.
- The complete assembly is flush with the wall.
- Design of the installation area: one or two sided on both the front and back sides of the door frame:



The aluminium covering panel can contain, for example, the following GIRA central inserts from the System 55/Profile 55:

- Door communication systems
- Button sensors
- Access controls
- Flush mounted radios
- Room thermostats
- Time switches
- Control and electronic keys for blinds
- Plug sockets as well as communication and network connections
- Light switches, automatic switches and dimmers



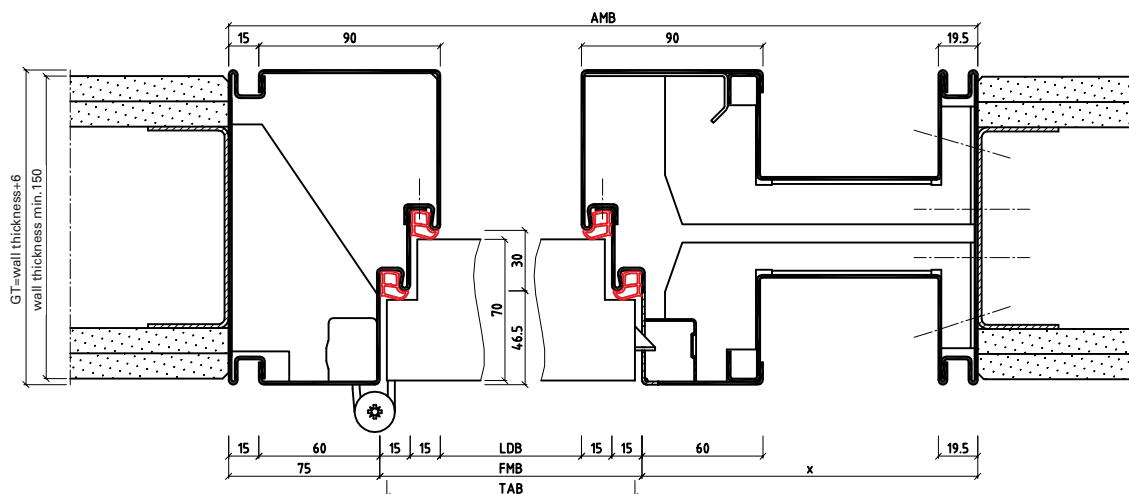
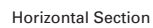
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CasePlus Solutions proves its unbeatable flexibility for all changes of use, special rental requirements or reorganisation.



**Hospitals** have a wide panoply of needs. Visitors need to be separated from operating theatres, medicines and medicinal equipment need to be **accessible but also protected**. Solutions offering flexibility, **ease of maintenance** or **upgrade** of technology are the priority. CasePlus is the natural solution.



**Hotels** are providing higher and higher levels of service to their guests and so the demands are becoming increasingly sophisticated. **Appearance and performance** of the products used in hotels are paramount in the thought process of the designer. CasePlus is the natural solution.



**Administration buildings:** From offices to corporate headquarters, the highest levels of **aesthetic design and security** are decisive. CasePlus is the natural solution.



**Banking** requires high levels of security. **Access controls** between public areas and internal departments as well as in IT and staff areas provide this **security**. CasePlus is the natural solution.



**Schools** have areas requiring **access control and automatic door opening**. Staff rooms, nursery classrooms, computer rooms and valuable accessories need **protection and security**. CasePlus is the natural solution.



**Airports** and **buildings of national security** are **constantly upgrading to the best technologies**. CasePlus is the natural solution.



Set out below is a choice of functions which can be integrated within CasePlus Solutions.

**A concealed door operator automatically opens the door when:**

- I present my transponder (fob) towards the proximity reader.
- I swipe my entry card.
- I swipe my finger through the biometric reader.
- I enter my code into a key-pad.
- I turn my key in a key-switch.
- I push a switch at the side of the door.
- I simply approach the door.

**The door automatically closes when:**

- I am through the entrance.
- I enter my card into the hotel energy saving device.
- The fire alarm is activated.

**How does the door lock?**

- By simply turning the key in the lock.
- Via an electric release housed within the door frame.
- Via remote control.

**What other functions are there?**

- A video door entry system.
- Integrated bell switch.
- Indicators such as 'please do not disturb' or 'make up room'.
- Integrated door numbers with illumination.

**More about lighting:**

- CasePlus Solutions can either be illuminated at the side or all around.
- Lighting for orientation, ideal in hotels and hospitals.
- Lighting is a creative medium. Challenge us with your idea.

**Am I limited in my choice of accessories?**

- The system for CasePlus Solutions has been developed with various system-partners, making it totally flexible.



Stainless steel meets modern aesthetic requirements and is primarily used in exclusive interior design, e.g. in hotels, wellness areas, swimming pools and in gastronomy.

At the same time stainless steel is absolutely ideal for use in extreme surroundings, as the material is corrosion resistant, has a high resistance in general and optimally fulfills diverse hygiene requirements. Stainless steel finds use in hospitals, operating theatres, areas with strict hygiene regulations, in the food processing industry etc.



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 information.

Depending on application, BOS stainless steel frames can be supplied in 1.5mm and 2.0mm material strength in inox 304 (1.4301) and inox 316ti (1.4571).

The material inox 316ti is recommended for use in extreme surroundings, as the stainless steel is more resistant to acid and brine and up to four times more resistant to chloride (swimming pools) than inox 304. Inox 316ti has a particularly high resistance to local corrosion.

BOS offers individual solutions for your requirements:

- Complete systems: co-ordinated stainless steel frames and doors
- A large choice of different frames (for active leaf and sliding doors)
- Diverse profile forms for design
- Grinding patterns: Premium, Top P, Design and Top D
- Depending on area of use stainless steel inox 304

(1.4301) or inox 316ti (1.4571) with the following surfaces:

- Visible surfaces brushed and polished grain 240
- Untreated visible surfaces for further processing on site
- Visible surfaces primed
- Visible surfaces powder coated in RAL colours
- A choice of frames are also available as 2 part split, 3 part or 6 part.

Please contact us!

	Inox 304				Inox 316ti			
	Premium Quality	Top P Quality	Design Quality	Top D Quality	Premium Quality	Top P Quality	Design Quality	Top D Quality
<b>Surroundings</b>								
normal / dry	●	●	●	●	○	○	○	○
damp	●	○	●	○	●	○	●	○
aggressive					●		●	
<b>Fittings</b>								
1.5 mm sheet		✓				✓		
2.0 mm sheet		✓				✓		

● Recommendation

○ Alternative



Note:  
All attachment parts are designed as standard in stainless steel.

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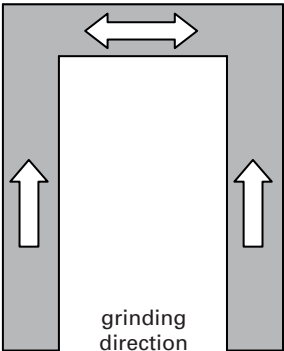
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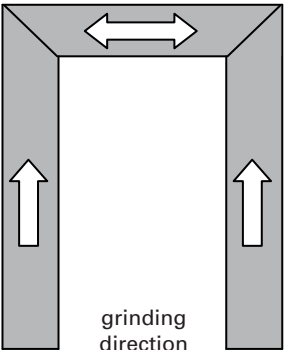
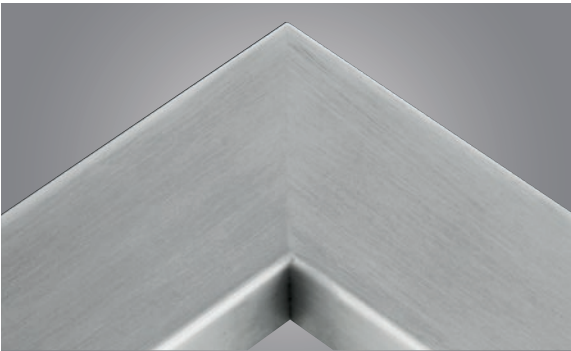
# Stainless Steel

## Grinding patterns

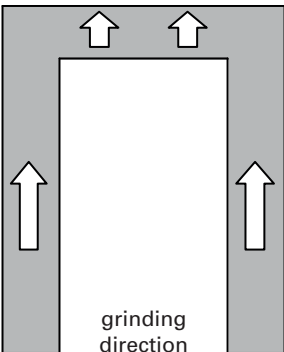
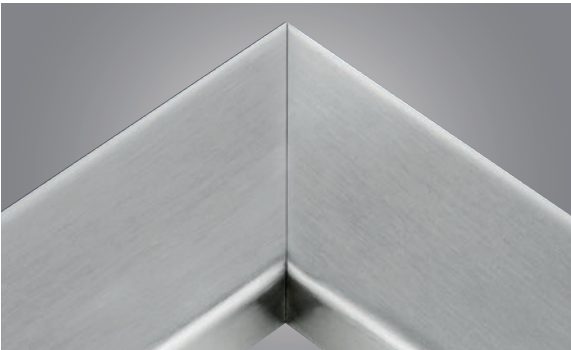


**Our recommendation:**

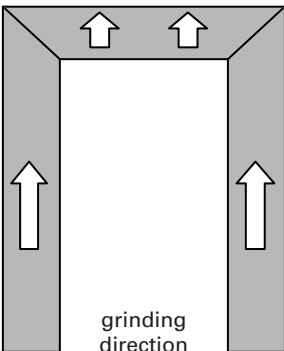
**Premium Quality**  
(mitre connection in the architrave and backbend continuously welded, brushed and polished)



**Top P Quality**  
(visible mitre)



**Design Quality**  
(mitre connection in the architrave and backbend continuously welded, brushed and polished)



**Top D Quality**  
(visible mitre)





BOS offers a wide range of anchor systems for a secure fixing of the frame to the wall.



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#### BOS Sales Department:

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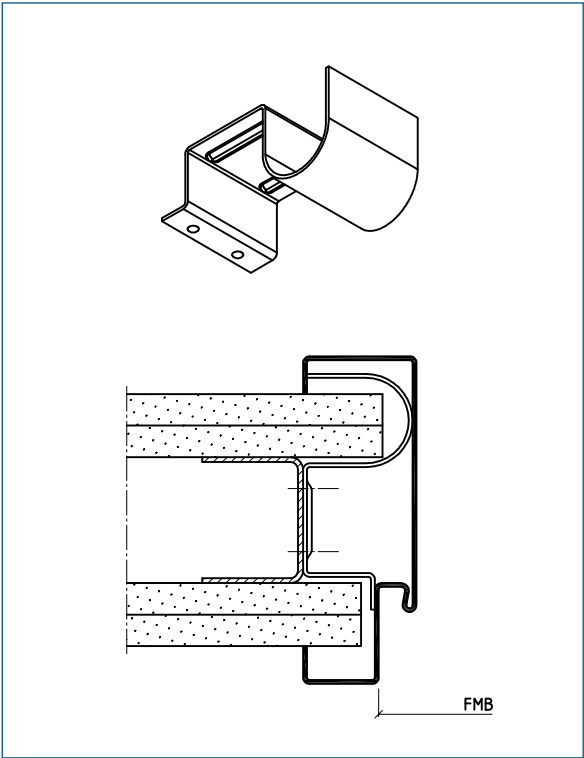
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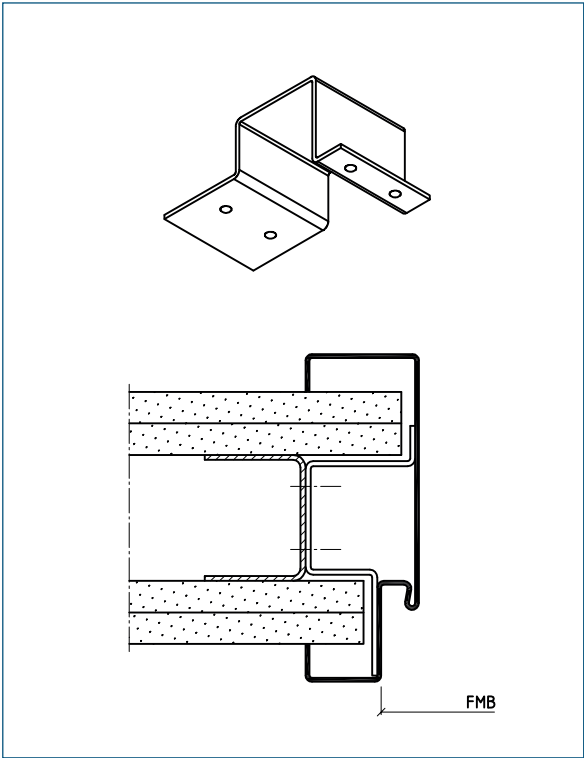




Article	BOS offers a wide programme of anchor and fixing systems for almost all wall types.
Your advantages	<ul style="list-style-type: none"><li>• Anchor systems matching the various types of wall and installation methods</li></ul>
Our recommendations	<ul style="list-style-type: none"><li>• Follow the specifications given by the wall manufacturer</li><li>• For particularly heavy door weights use XXL anchors</li></ul>

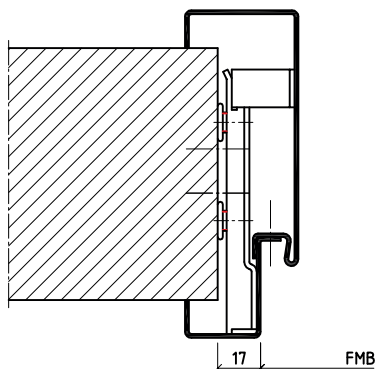
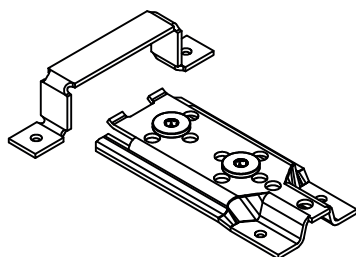


Designation code	<b>Round bracket anchor</b>
Product description	<ul style="list-style-type: none"><li>- For stud walls</li><li>- Use for 1 part frames</li><li>- (Standard for standard frames)</li></ul>



Designation code	<b>Angular bracket anchor</b>
Product description	<ul style="list-style-type: none"><li>- For stud walls</li><li>- Use for 1 part frames</li></ul>

Subject to technical change.  
The illustrations are not for static information.

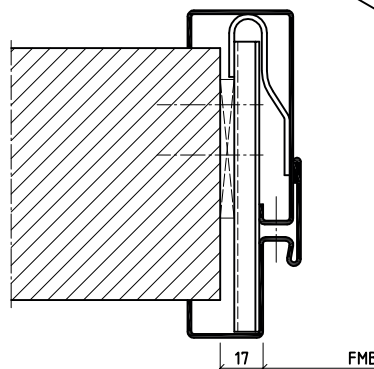
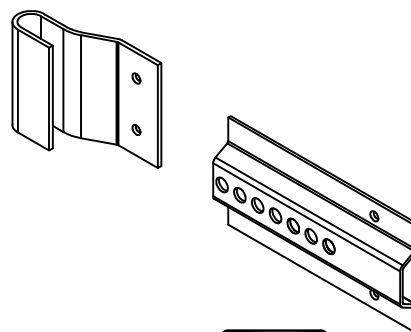


Designation  
code

### Levelling anchor

Product  
description

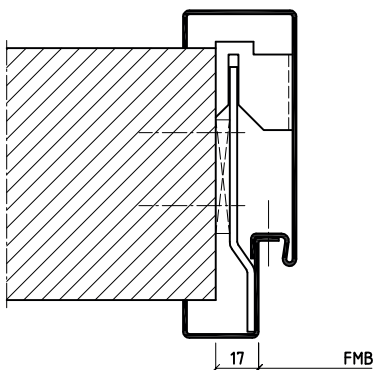
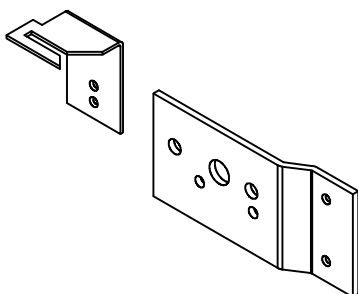
- For almost all wall types
- Use for 2 part split frames
- Illustration with guiding plate



### Trapeze anchor

Product  
description

- For almost all wall types
- Use for 2 part split frames
- Illustration with guiding plate

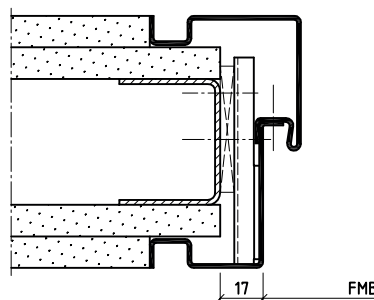
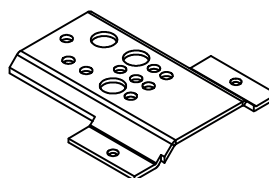


Designation  
code

### Bended flat steel anchor

Product  
description

- For almost all wall types
- Use for 2 part split frames
- Illustration with guiding plate



Designation  
code

### U-anchor Type 2

Product  
description

- For almost all wall types
- Use for shadow groove frames,  
total depth GT = 100 to 119mm

#### BOS Sales Department:

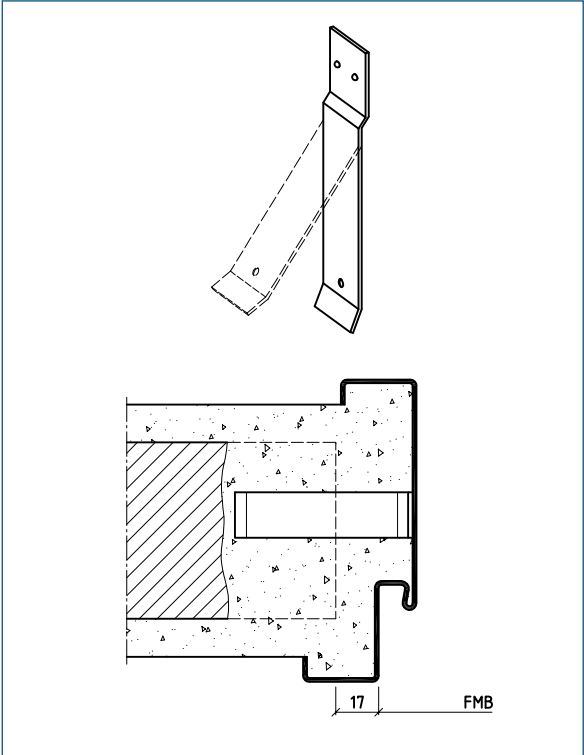
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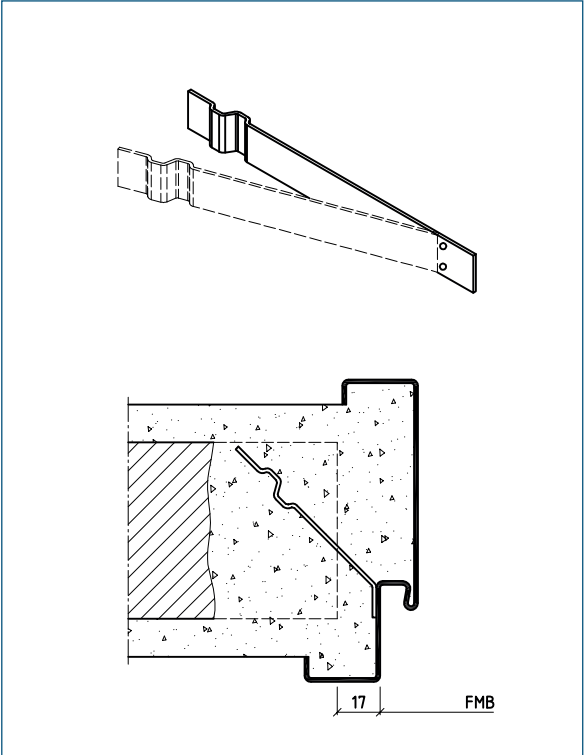


Designation code

**Pre-fixed brick anchor**

Product description

- For brick walls
- Use for 1 part frames

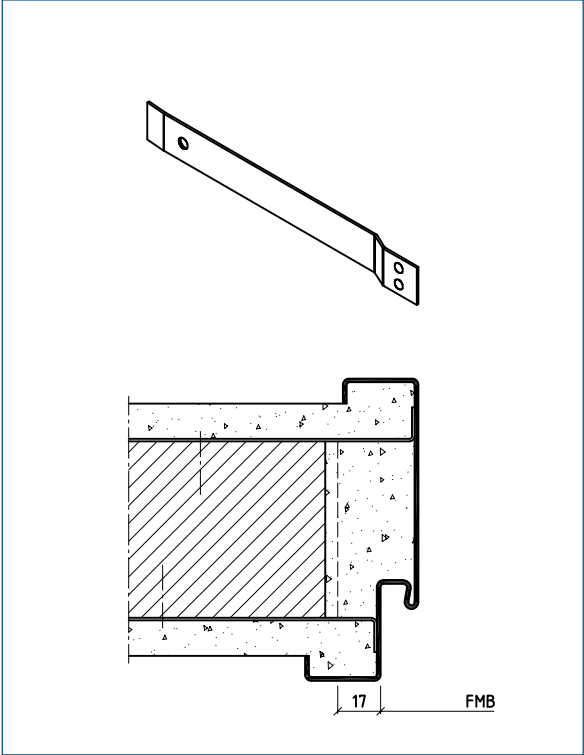


Designation code

**Corrugated brick anchor**

Product description

- For brick walls
- Use for 1 part frames

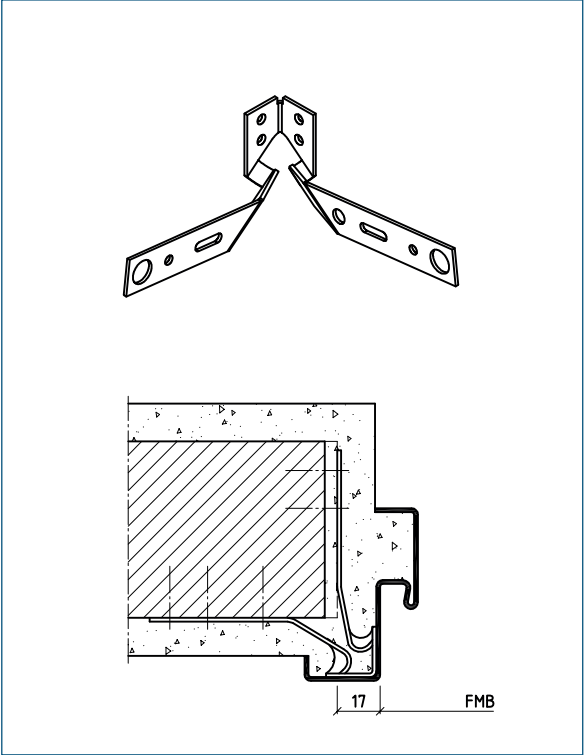


Designation code

**Pre-fixed double anchor**

Product description

- For brick and concrete walls
- Use for 1 part frames

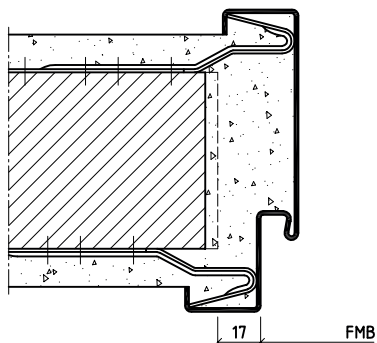
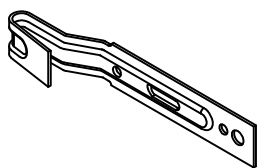


Designation code

**Corner frame nail anchor**

Product description

- For brick and concrete walls
- Use for corner frames

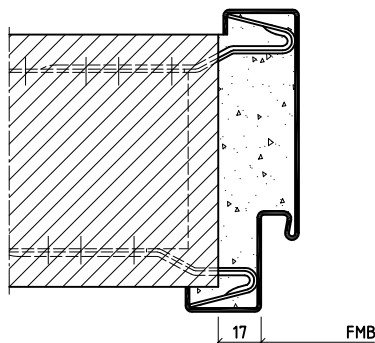
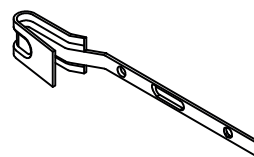


Designation  
code

### Separate nail anchor

Product  
description

- For brick and concrete walls
- Use for 1 part frames
- (Standard for standard frames)

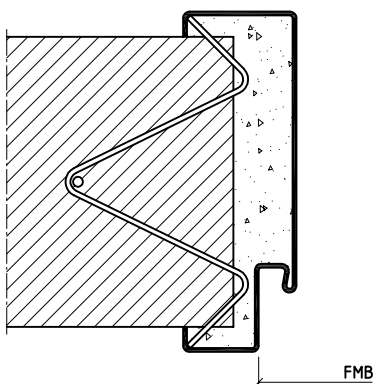
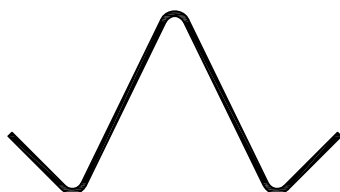


Designation  
code

### Separate joint anchor

Product  
description

- For brick walls and exposed masonry
- Use for 1 part frames

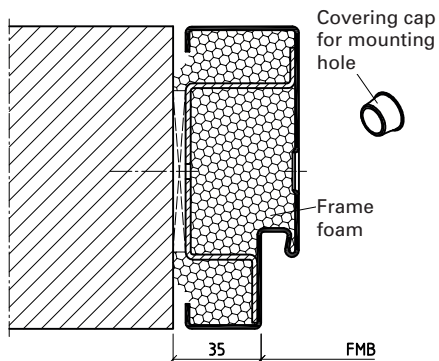
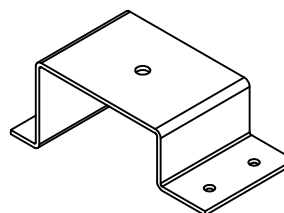


Designation  
code

### Separate wire anchor

Product  
description

- For gypsum block walls
- Use for 1 part frames

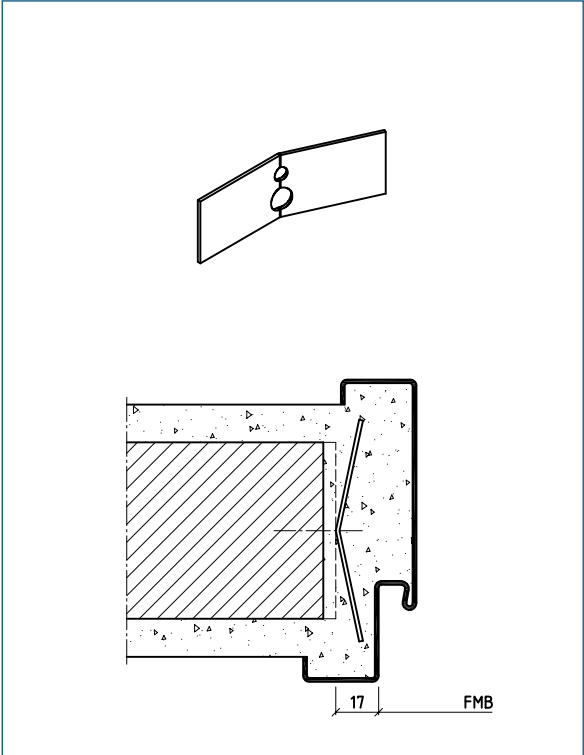


Designation  
code

### Bracket anchor with Ø14.9mm mounting hole

Product  
description

- For almost all wall types
- Use for 1 part frames

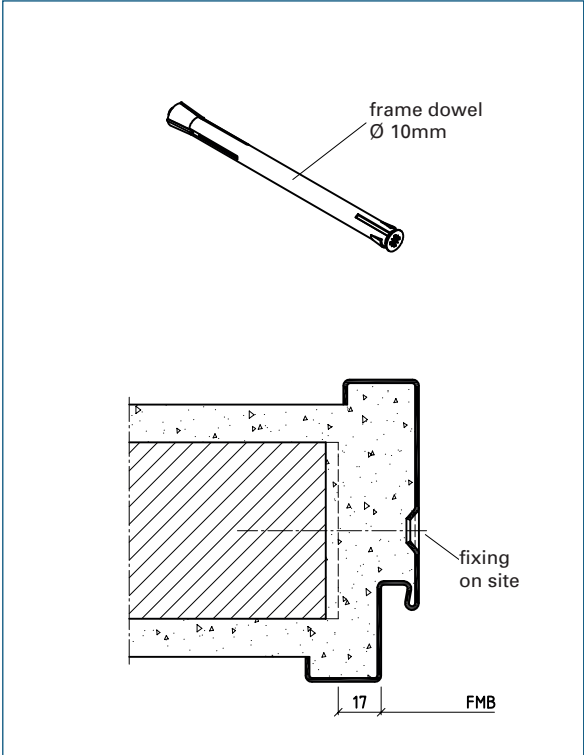


Designation code

**Separate propeller anchor**

Product description

- For solid walls
- Use for 1 part frames

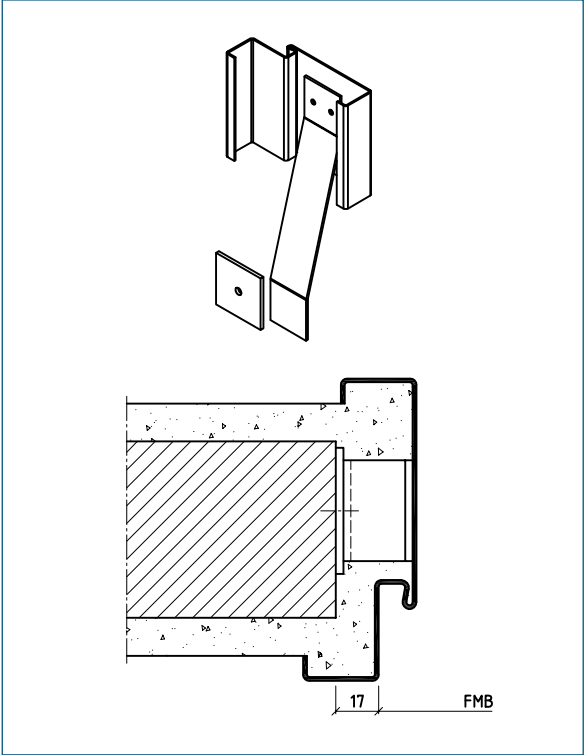


Designation code

**Deep draw hole** for frame dowel Ø 10mm

Product description

- For solid walls
- Use for 1 part frames

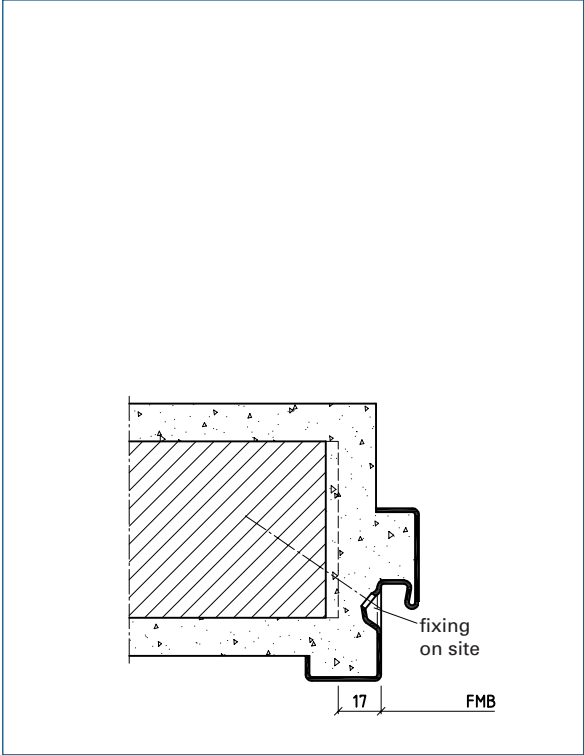


Designation code

**Z-Anchor with dowel plate**

Product description

- For almost all wall types
- Use for 1 part frames



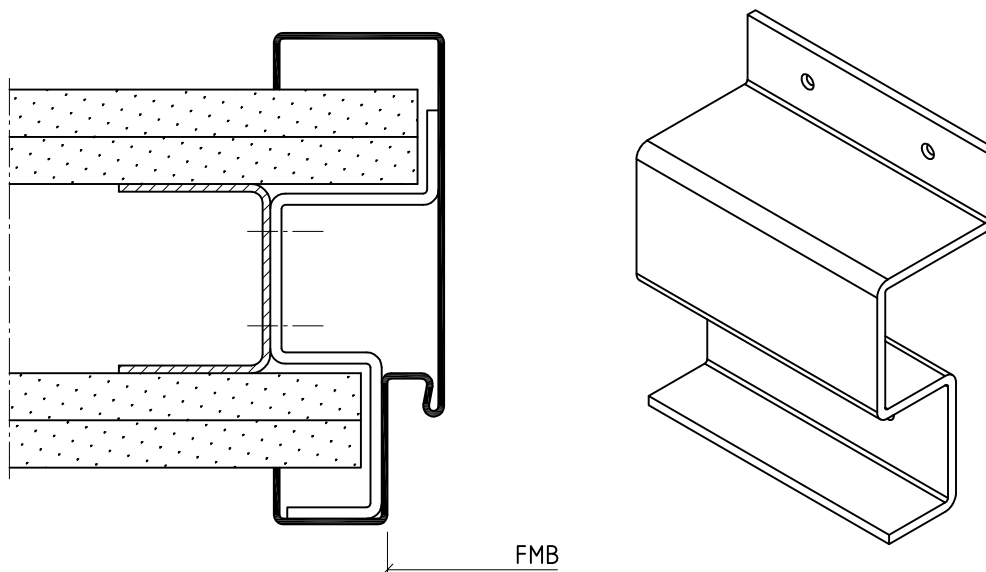
Designation code

**Deep draw hole** Ø 6mm slanting in the rebate

Product description

- For solid walls
- Use in 1 part frames

Subject to technical change.  
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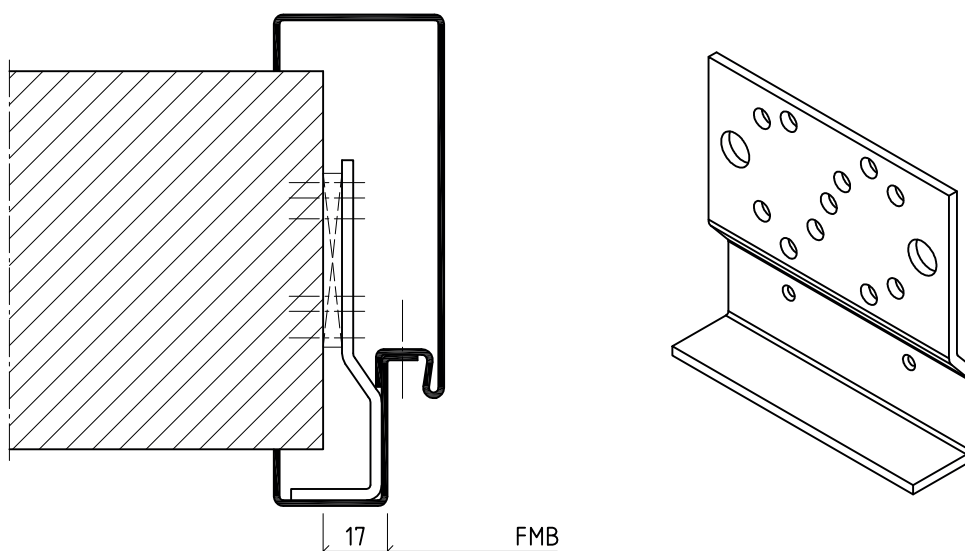


### Designation code

**XXL Bracket  
anchor**

### Product description

- For stud walls
- For use with heavy doors
- E.g. for use with 1 part radiation protection frames



### Designation code

**XXL Flat steel  
anchor**

### Product description

- For almost all wall types
- For use with heavy doors
- E.g. for use with 1 part or 2 part split radiation protection frames

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Anchor	Suitable for						Use			Installation		
	Brick walls	Stud walls	Exposed masonry	Gypsum block walls	Concrete walls	Exposed concrete walls	1 part	2 part split	Corner frame	Mortar	Mounting foam	Without backfilling
Round bracket anchor		X					X					X
Angular bracket anchor		X					X		X			X
Levelling anchor	X	X	X	X	X	X		X			X	X
Trapeze anchor	X	X	X	X	X	X		X			X	X
Bended flat steel anchor	X	X	X	X	X	X		X			X	X
U-anchor Type 2	X	X	X	X	X	X		X			X	X
Pre-fixed brick anchor	X						X			X	X	
Corrugated brick anchor	X						X			X	X	
Pre-fixed double anchor	X				X		X			X	X	
Corner frame nail anchor	X				X				X	X	X	
Separate nail anchor	X				X		X			X	X	
Separate joint anchor	X		X				X			X	X	
Separate wire anchor				X			X			X		
Bracket anchor with Ø14.9mm mounting hole	X	X	X	X	X	X	X		X	X	X	X
Separate propeller anchor	X		X		X	X	X			X	X	
Deep draw hole for Ø10mm frame dowel	X		X		X	X	X			X	X	
Z-anchor with dowel plate	X	X	X	X	X	X	X		X	X	X	
Deep draw hole Ø 6mm slanting in the rebate	X	X	X	X	X	X	X		X	X	X	X
XXL Bracket anchor		X					X					X
XXL Flat steel anchor	X	X	X	X	X	X	X	X	X	X	X	X

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BOS offers a huge choice of hinge pockets in order to meet the wide variety of demands. Whether for large or heavy doors, for areas of frequent use or if concealed hinges are required – BOS has the ideal solution for virtually every area of use!



Contents	Page
Hinge pockets	279 - 295

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## Article

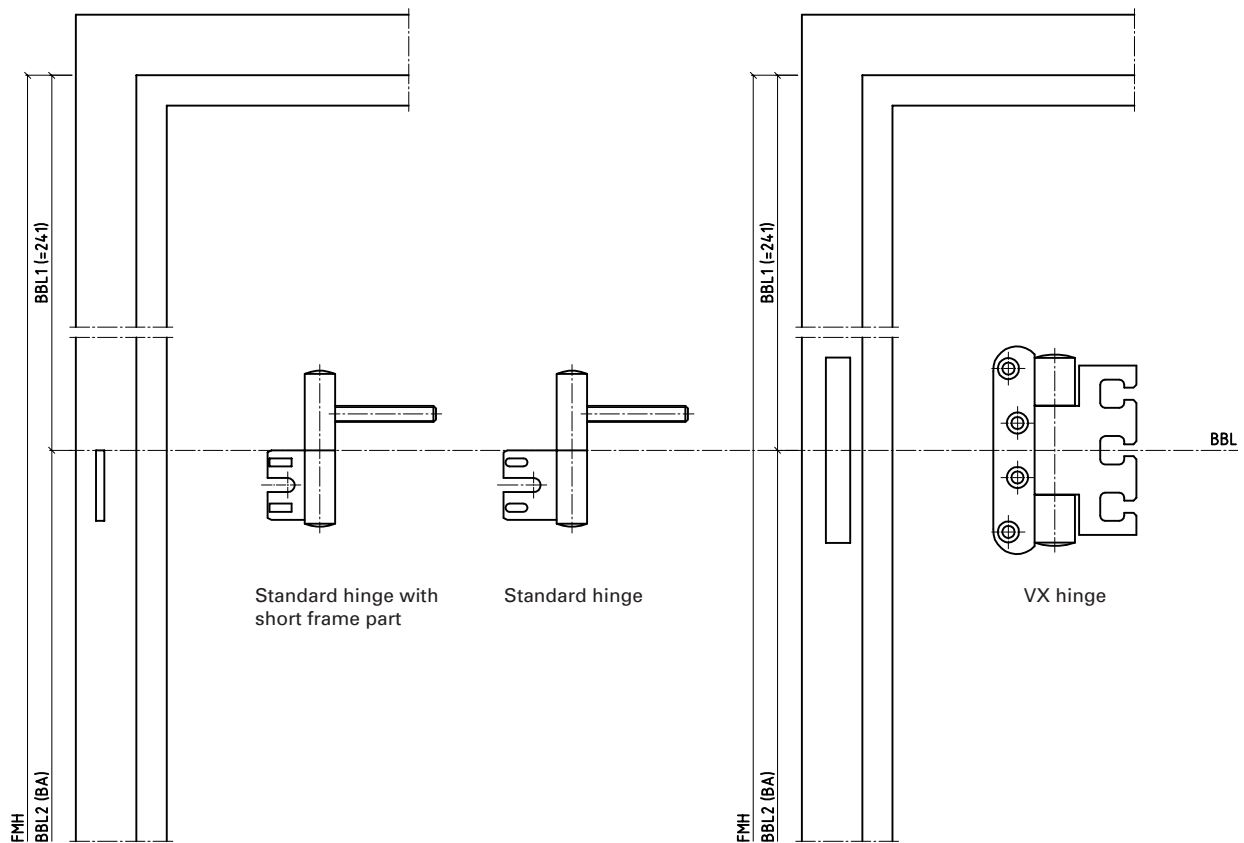
BOS supplies frames with a variety of different hinge pockets for different requirements.

## Your advantages

- Mortar impervious designs (except for hinge pocket V8618)
- Easy installation design V8618 (without cut-outs in the gypsum panels)
- Hinge pockets for concealed hinges available

## Our recommendations

- Choose suitable hinge pockets for heavy doors or those for frequent use
- Hinge pockets for VX hinges



# Hinge Pockets

## Distances Between Hinges

280

Rebate height (FMH)	Distance between hinges (BA)
in mm	in mm
1546 - 1670	1060
1671 - 1795	1185
1796 - 1920	1310
1921 - 2045	1435
2046 - 2170	1435
2171 - 2295	1685
2296 - 2420	1810
2421 - 2545	1935
2546 - 2670	2060
2671 - 2795	2185

These distances between hinges are according to DIN 18101.

Other distances between hinges (BA) and hinge positions (BBL) are possible.

Rebate height (FMH)	Distance between hinges (BA)
in mm	in mm
1358 - 1482	935
1483 - 1607	1060
1608 - 1732	1185
1733 - 1857	1310
1858 - 2108	1435
2109 - 2233	1560
2234 - 2358	1685
2359 - 2483	1810
2484 - 2608	1935
2609 - 2733	2060
2734 - 2858	2185
2859 - 2983	2310
2984 - 3108	2435
3109 - 3233	2560
3234 - 3358	2685
3359 - 3483	2810

Other distances between hinges (BA) and hinge positions (BBL) are possible.

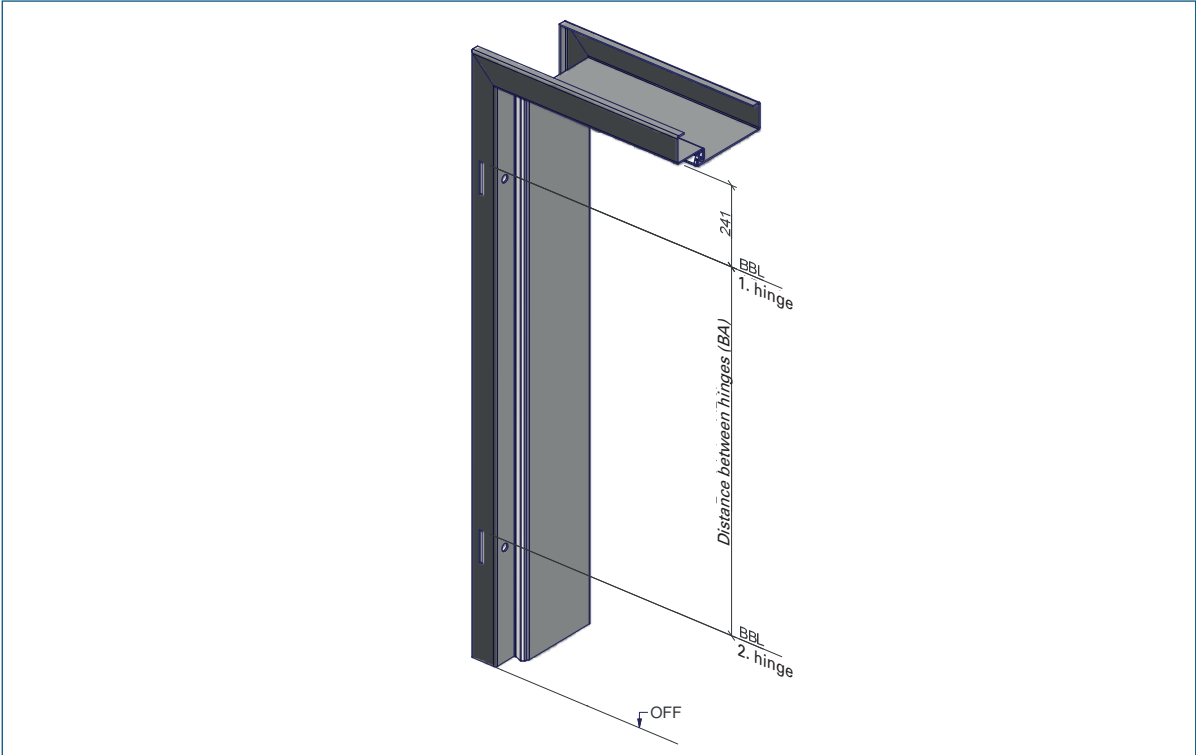
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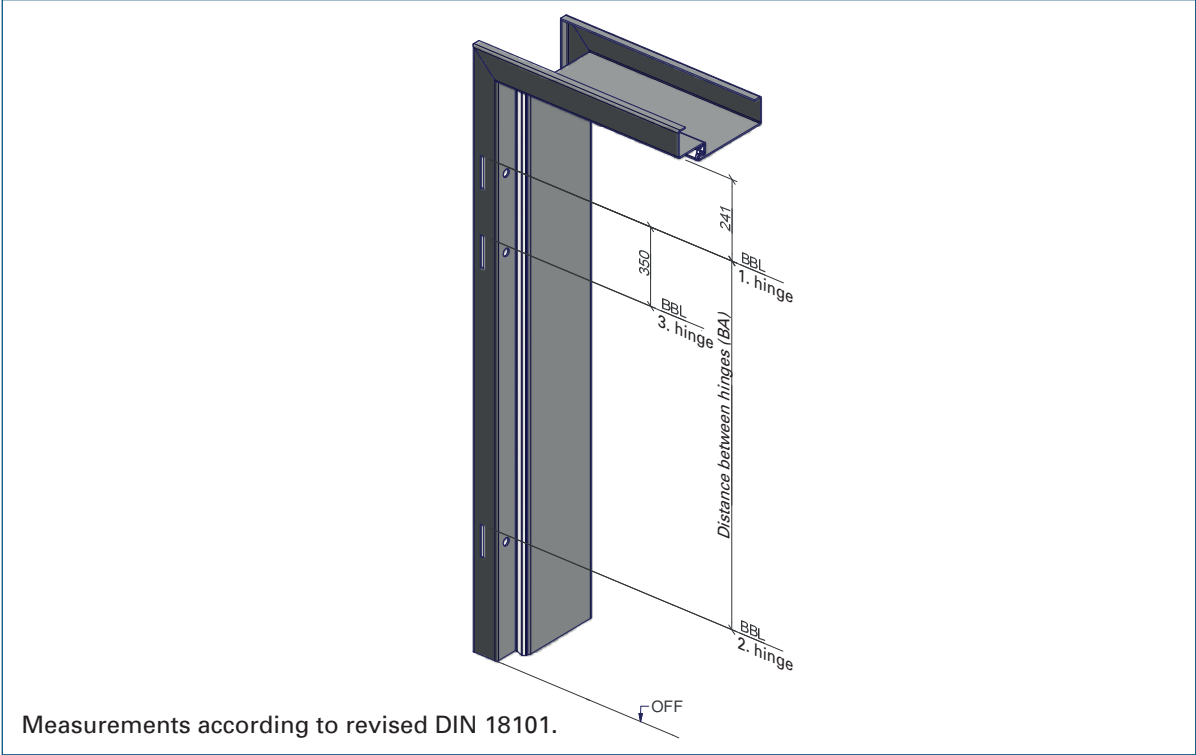


Designation code

Product description

**Hinge positions**

- Hinge pockets V8618 and BTV10200  
- Illustration: 2 hinge pockets



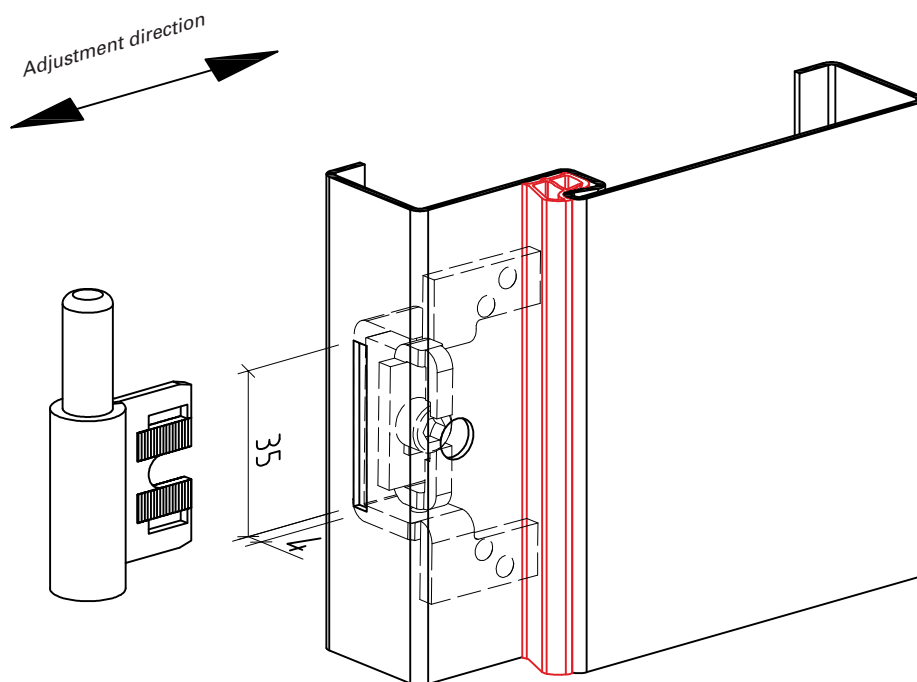
Measurements according to revised DIN 18101.

Designation code

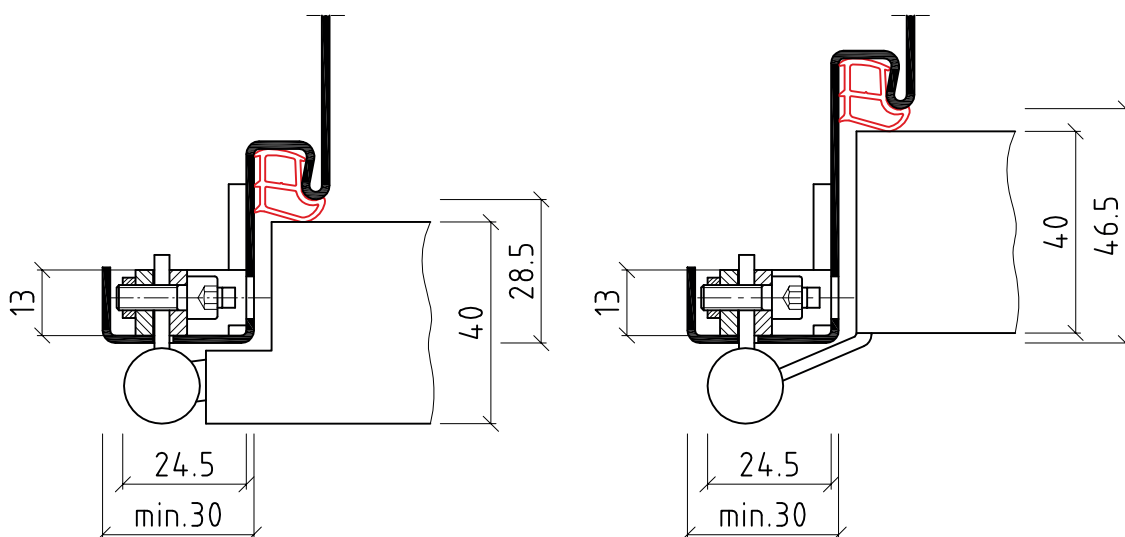
Product description

**Hinge positions**

- Hinge pockets V8618 and BTV10200  
- Illustration: 3 hinge pockets



Note the load values  
given by the door and hinge  
manufacturers!



Designation code

**Hinge pocket**

Product description

- V8618
- Illustration: standard hinge with short frame part
- Easy installation design (without cut-outs in the gypsum panels)

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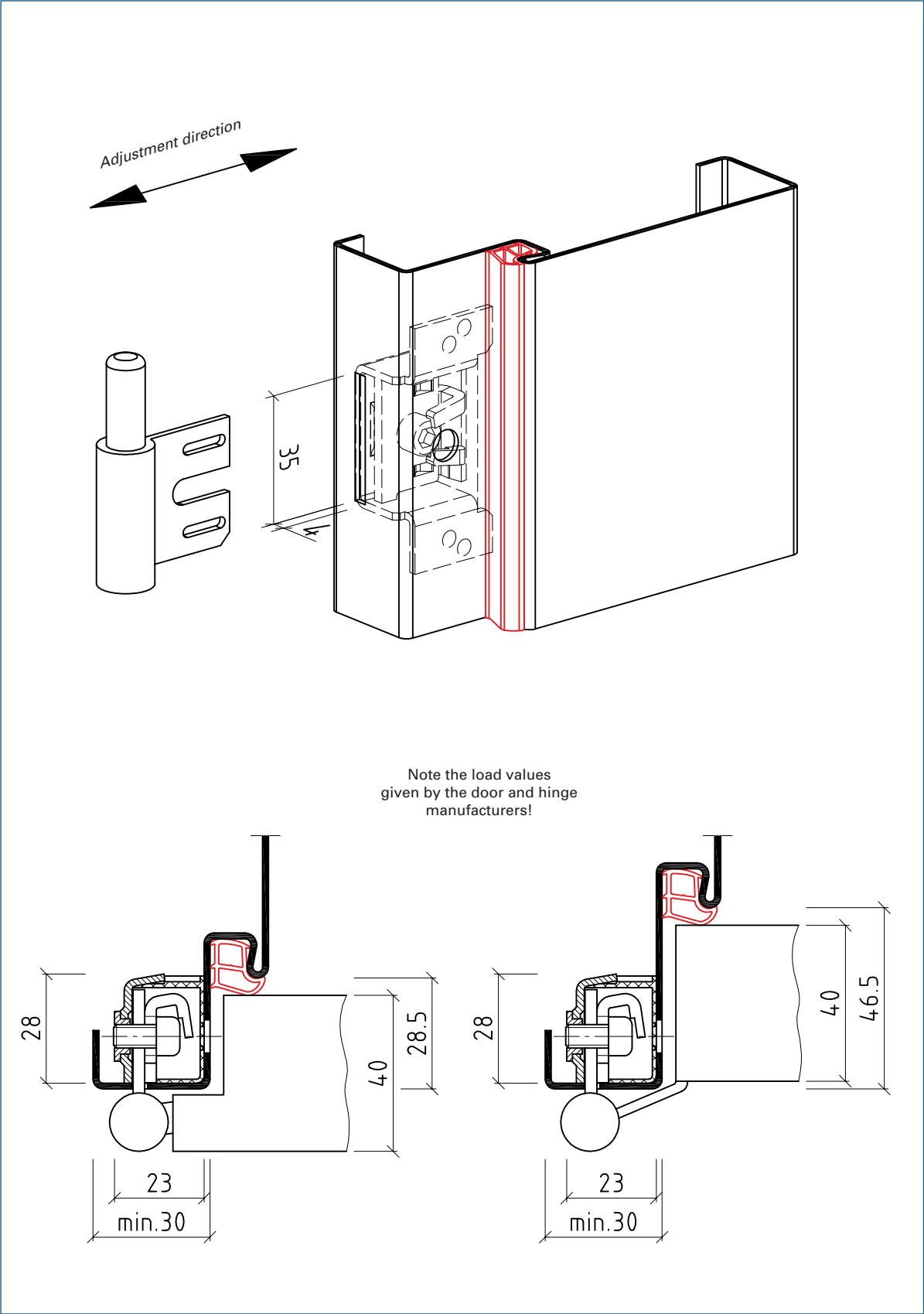
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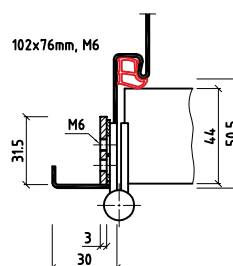
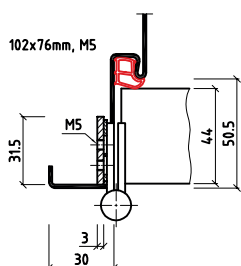
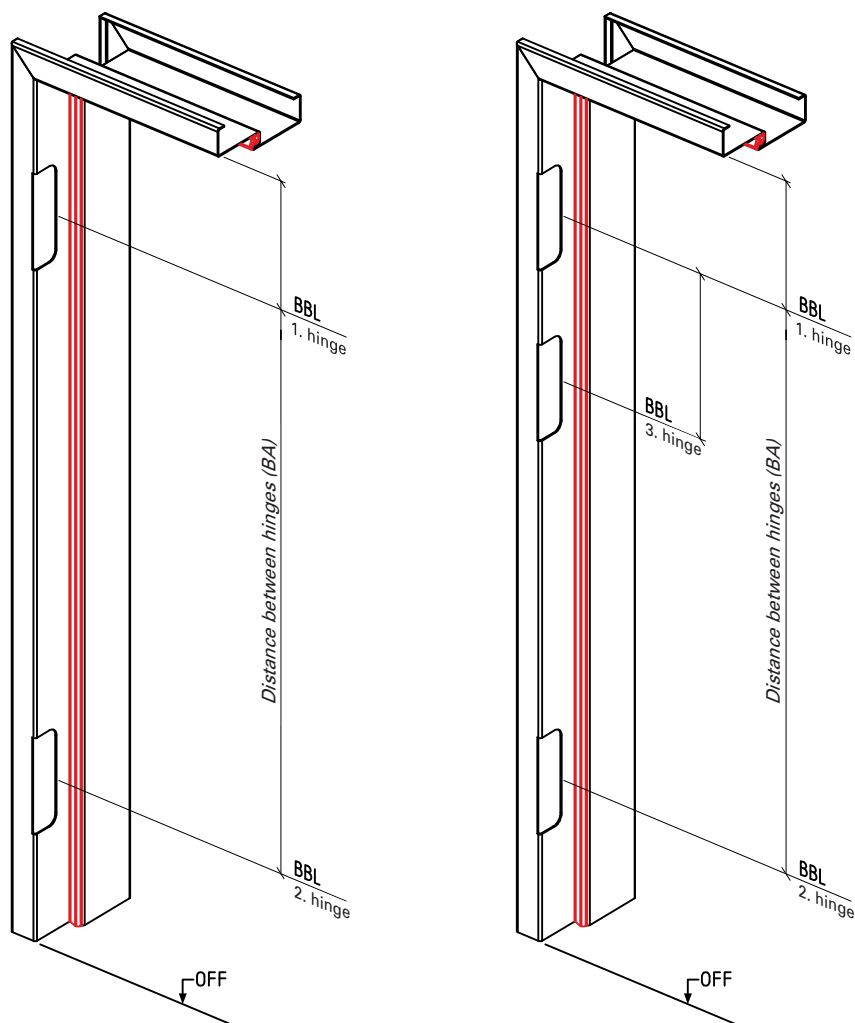
Designation code

Hinge pocket

Product description

- BTV10200
- Illustration: standard hinge
- Mortar impervious design

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information.



Note the load values  
given by the door and  
hinge manufacturers!

## Designation code

### Hinge positions

## Product description

- Hinge pocket for loop hinge 102 x 76mm
- Illustration: 2 and 3 hinge pockets
- Other versions possible

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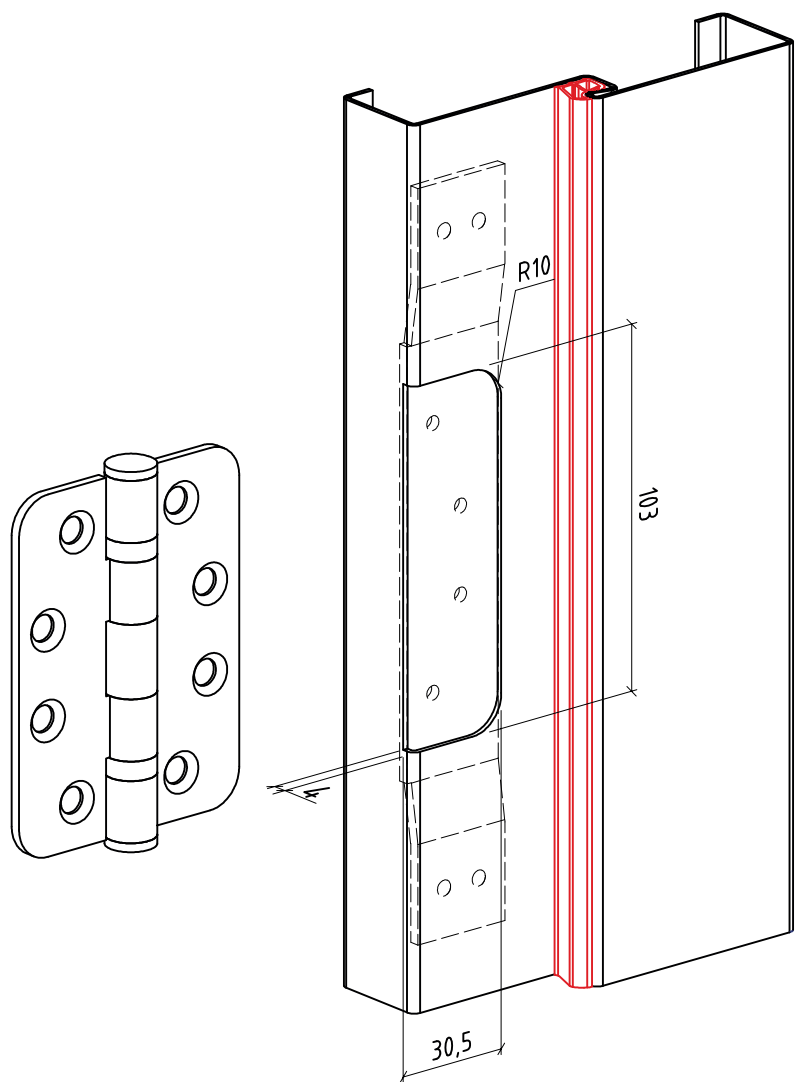
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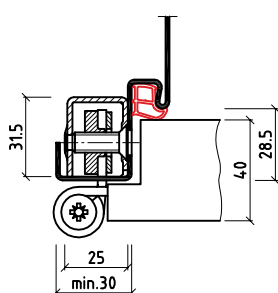
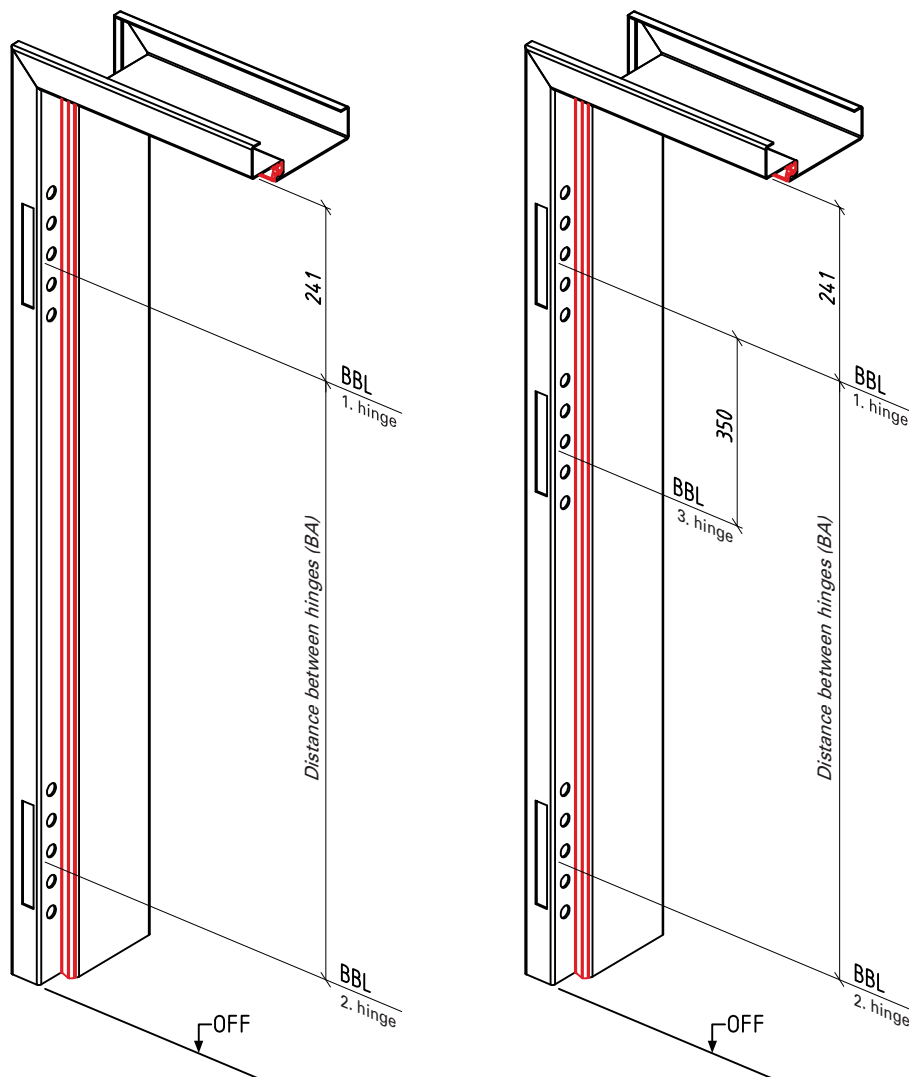
Designation code

**Hinge pocket**

Product description

- Loop hinge 102 x 76mm
- Illustration: for 4 M5 screws
- Other versions possible

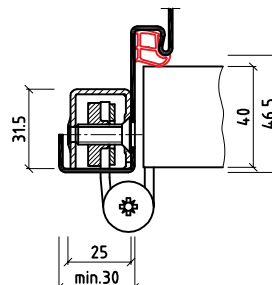
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BVX11000  
3D adjustable

Adjustment area	
Side	+/- 3.0mm
Height	+/- 3.0mm
Contact pressure	+/- 3.0mm

Note the load values  
given by the door and hinge  
manufacturers!



## Designation code

### Hinge positions

## Product description

- Hinge pocket BVX11000
- Illustration: 2 and 3 hinge pockets
- Mortar impervious design

## BOS Sales Department:

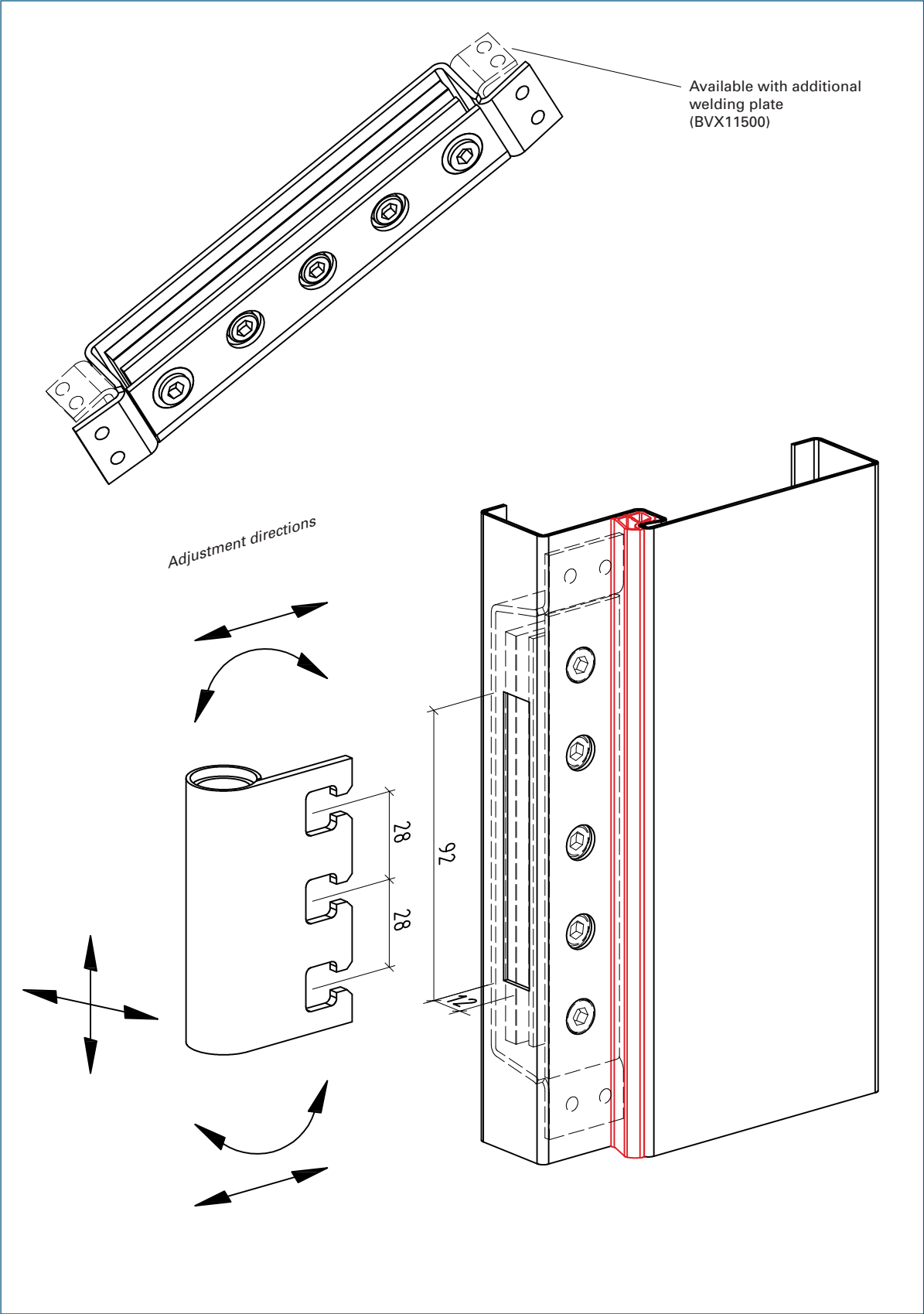
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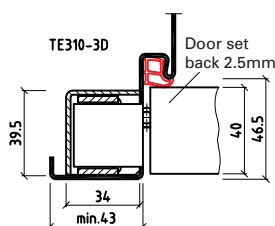
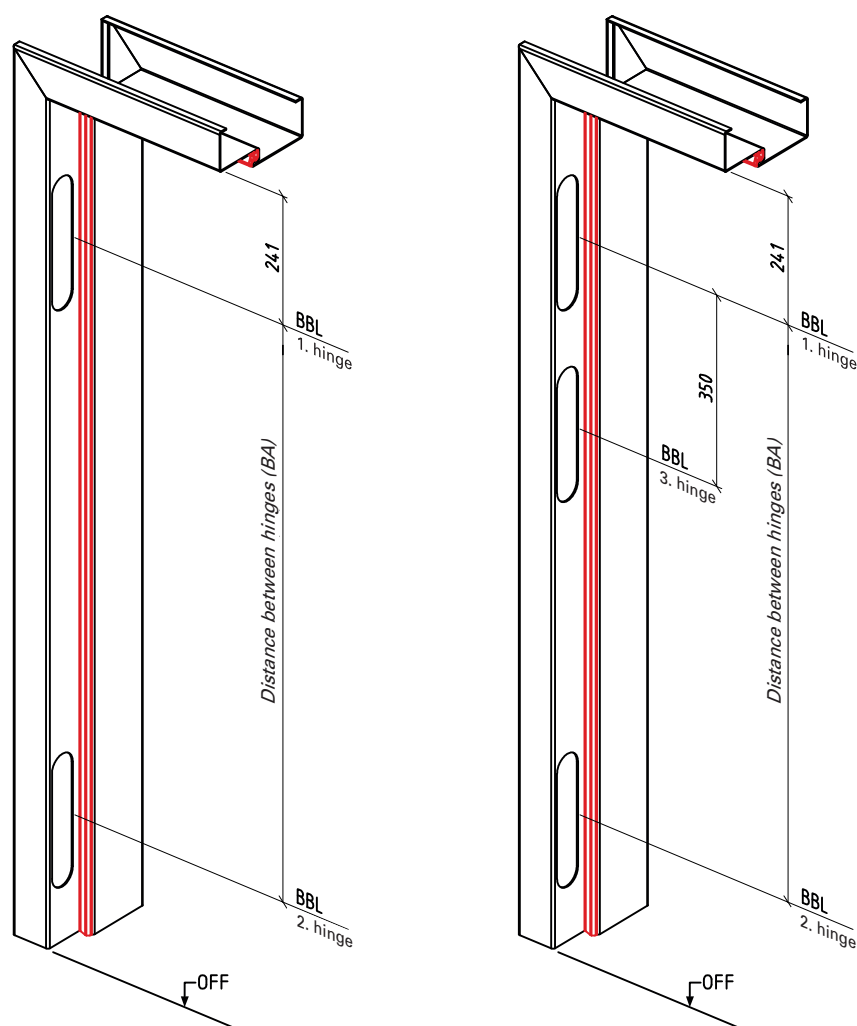
Designation code

**Hinge pocket**

Product description

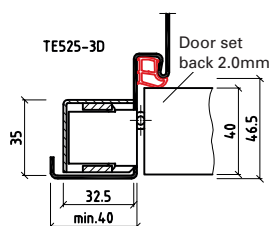
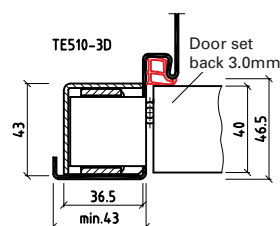
- BVX11000
- Illustration: VX hinge
- Mortar impervious design

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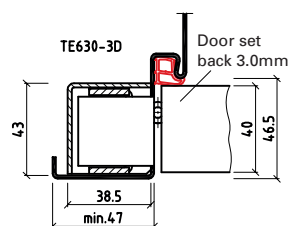


Tectus 3D adjustable

Adjustment area	
Side	+/- 3.0mm
Height	+/- 3.0mm
Contact pressure	+/- 1.0mm



Note the load values given by the door and hinge manufacturers!



## Designation code

### Hinge positions

## Product description

- Hinge pockets for Tectus concealed hinges (Simonswerk)
- Illustration: 2 and 3 hinge pockets
- Mortar impervious design

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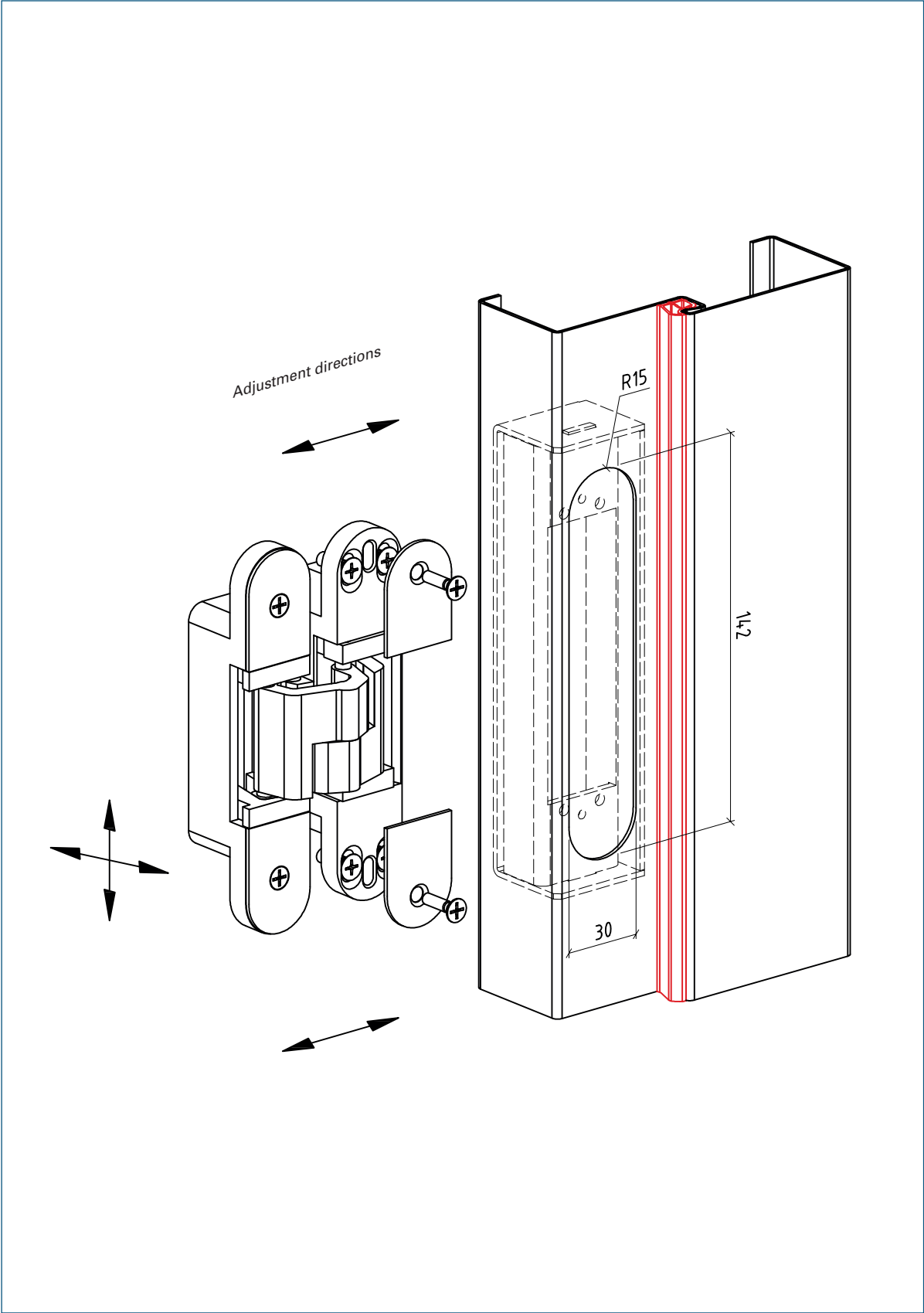
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# Hinge Pockets

## For Tectus Concealed Hinges



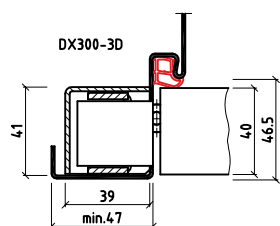
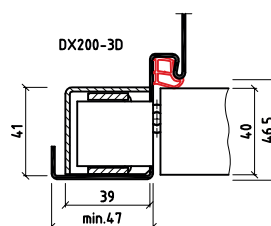
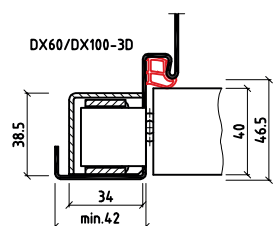
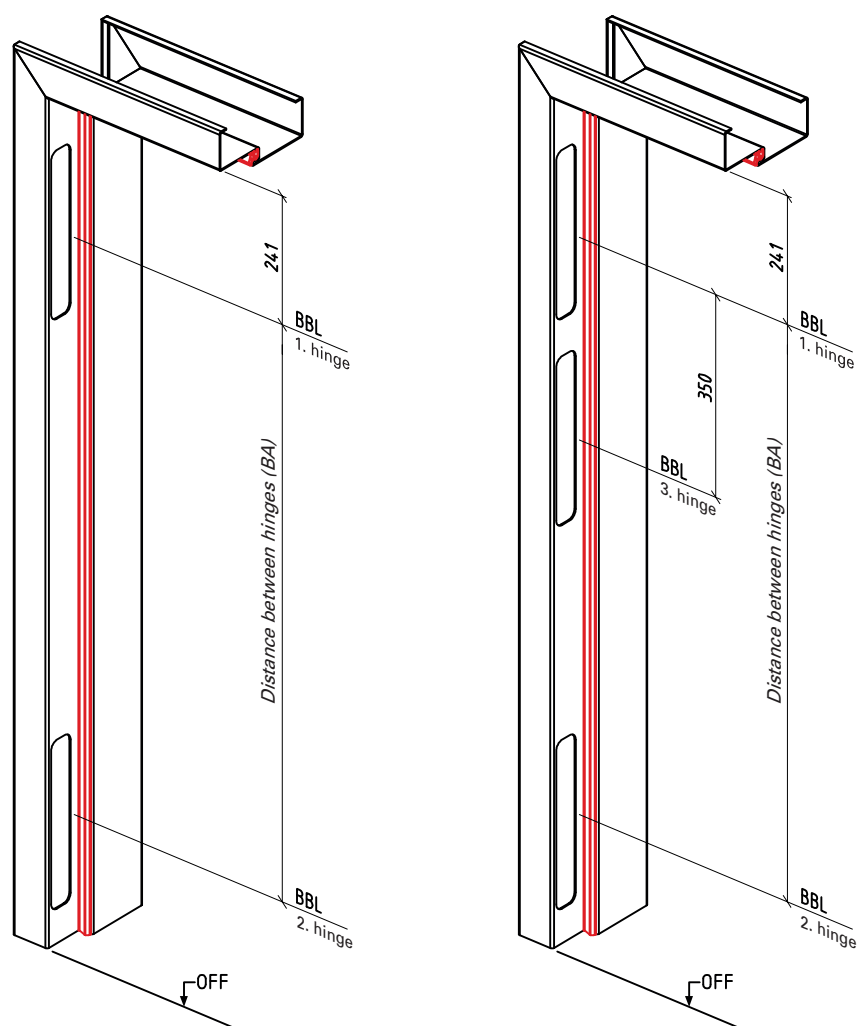
Designation code

**Hinge pocket**

Product description

- For Tectus concealed hinges (Simonswerk)
- Illustration: Tectus concealed hinge TE 310
- Mortar impervious design

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BaSys  
3D adjustable

Adjustment area	
Side	+/- 3.0mm
Height	+/- 3.0mm
Contact pressure	
DX60/DX100	+2.0/-1.0mm
DX200/DX300	+/- 1.0mm

Note the load values  
given by the door and hinge  
manufacturers!

## Designation code

### Hinge positions

## Product description

- Hinge pockets for Pivota DX concealed hinges (BaSys)
- Illustration: 2 and 3 hinge pockets
- Mortar impervious design

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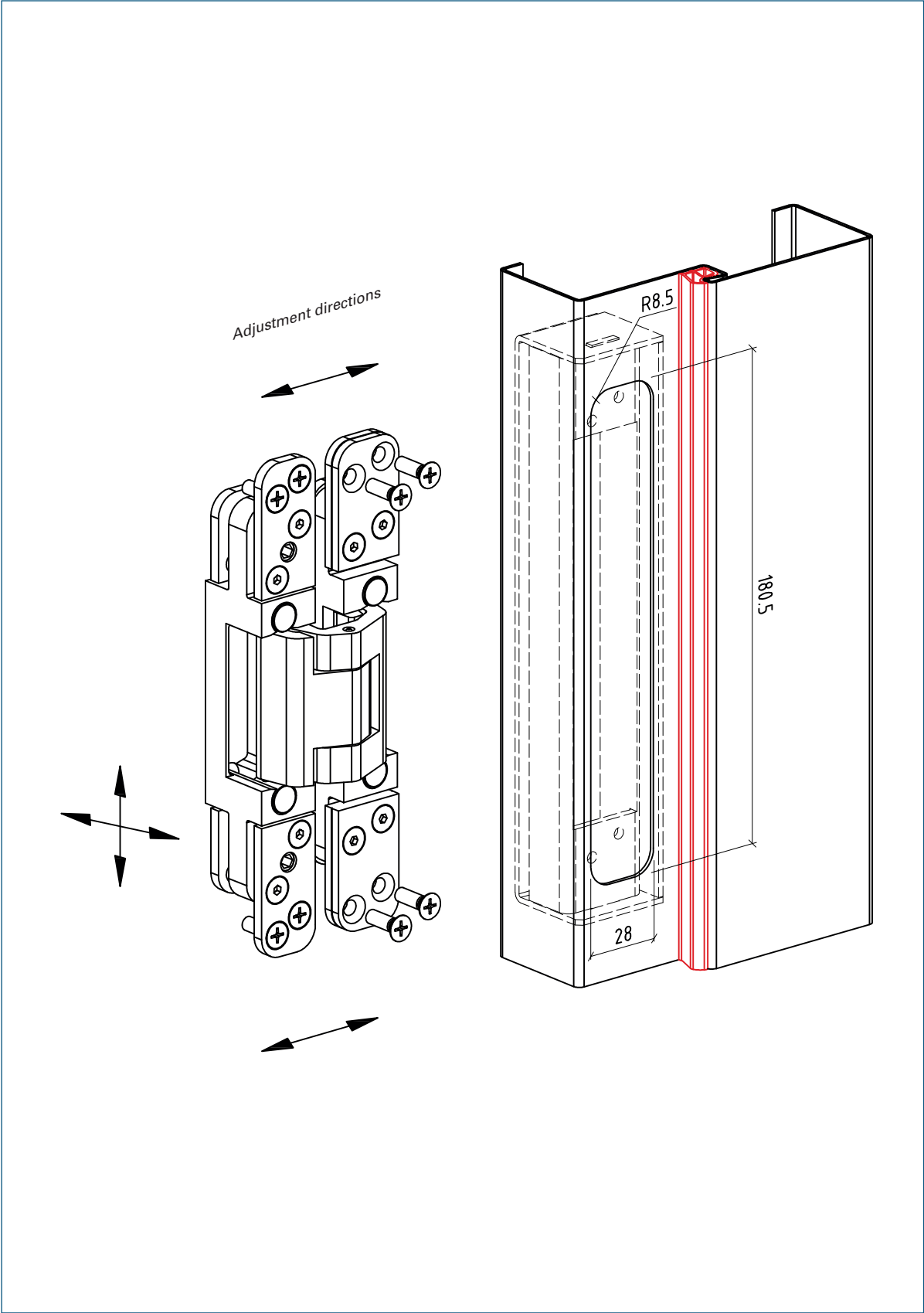
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# Hinge Pockets For Pivota DX Concealed Hinges



Designation code

**Hinge pocket**

Product description

- For Pivota DX concealed hinges (BaSys)
- Illustration: Pivota concealed hinge DX100
- Mortar impervious design

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information.

BTV10200	BVN11100	BVN11160	BVX 11 000	PIVOTA
	OBJECTA ® 2081/100/48	OBJECTA ® 2081/160/96	OBJECTA ® 2027/100/56	Pivota DX60/100-3D
COMBICA ® 1581 WF	OBJECTA ® 2081/100/48 TZ	OBJECTA ® 2081/160/96 FD	OBJECTA ® 2029/100/56 D18	Pivota DX62/102-3D
	OBJECTA ® 2086/100/48	OBJECTA ® 2081/160/96 SI	OBJECTA ® 2029/100/56	Pivota DX200-3D
COMBICA ® 2680 WF	OBJECTA ® 2086/100/48 TZ	OBJECTA ® 2082/160/96	OBJECTA ® 2029/100/56 TZ	Pivota DX300-3D
COMBICA ® 2681 WF	OBJECTA ® 2049/100/48 FD	OBJECTA ® 2086/160/96	OBJECTA ® 2039/100/56 D18	
COMBICA ® 2682 WF	OBJECTA ® 2028/120/48	OBJECTA ® 2086/160/96 TZ	OBJECTA ® 2039/100/56	
	OBJECTA ® 2029/120/48	OBJECTA ® 2027/160/96	OBJECTA ® 2039/100/56 TZ	
	OBJECTA ® 2081/120/48		OBJECTA ® 2049/100/56 FD	
OBJECTA ® 2039/2080/100	OBJECTA ® 2081/120/48 TZ		OBJECTA ® 2091/100/56 GL	
OBJECTA ® 2049/2080/100 FD	OBJECTA ® 2086/120/48		OBJECTA ® 2094/100/56 GL	
OBJECTA ® 2044/2080/100	OBJECTA ® 2086/120/48 TZ		OBJECTA ® 2027/120/56	
OBJECTA ® 2039/2080/160			OBJECTA ® 2029/120/56 D18	
OBJECTA ® 2881 WF M10 -"Reno"	OBJECTA ® 2028/160/48		OBJECTA ® 2029/120/56	
OBJECTA ® 2881 WF FD M10 -"Reno"	OBJECTA ® 2029/160/48		OBJECTA ® 2029/120/56 TZ	
	OBJECTA ® 2039/160/48		OBJECTA ® 2082/120/56	
	OBJECTA ® 2049/160/48 FD		OBJECTA ® 2039/120/56 D18	
	OBJECTA ® 2529/160/48-4		OBJECTA ® 2039/120/56	
	OBJECTA ® 2229/160/48-4		OBJECTA ® 2039/120/56 TZ	
	OBJECTA ® 2269/160/48-4		OBJECTA ® 2027/160/56	
	OBJECTA ® 2540/160/48/60-4		OBJECTA ® 2029/160/56	
	OBJECTA ® 2539/160/48-4		OBJECTA ® 2029/160/56 TZ	
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			OBJECTA ® 2039/160/56	
			OBJECTA ® 2039/160/56 SI	
			OBJECTA ® 2039/160/56 TZ	
			OBJECTA ® 2039/160/56 D18	
			OBJECTA ® 2049/160/56 FD	
			OBJECTA ® 2049/160/56 FD TZ	
			OBJECTA ® Federband 2039/160/56	
			OBJECTA ® Federband 2029/160/56	
			OBJECTA ® 2529/160/56-4	
			OBJECTA ® 2229/160/56-4	
			OBJECTA ® 2239/160/56-4	
			OBJECTA ® 2539/160/56-4	
			OBJECTA ® 2082/160/56	

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Issue: 01/2013

BSW [www.breuerundschmitz.de](http://www.breuerundschmitz.de)

BTV10200	BVN11100	BVN11160	BVX11000
060 - 9 / 100	060 - 1 / 100	060 - 1 / 160	060 - 21 / 100
060 - 9 / 100 DF	060 - 1 / 100 DF	060 - 1 / 160 DF	060 - 21 / 100 DF
060 - 9 / 120	060 - 1 / 120	060 - 3 / 160	060 - 21 / 120
060 - 10 / 100	060 - 3 / 100	060 - 4 / 160	060 - 21 / 120 DF
	060 - 3 / 120		060 - 21 / 160
	060 - 4 / 100		060 - 21 / 160 DF
	060 - 4 / 120		060 - 22 / 100
			060 - 22 / 120
			060 - 22 / 160
			060 - 24 / 100
			060 - 24 / 120
			060 - 24 / 160
			060 - 30 / 160

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Issue: 01/2014

HEWI [www.hewi.de](http://www.hewi.de)

BTV10200	BVN11100	BVN11160	BVX11000
B 8108.100	B 8106.100	B 8106.160	B 8107.100
B 8108.100 FS	B 8106.100 FS	B 8106.160 FS	B 8107.100 FS
B 9108.100	B 9106.100	B 9106.160	B 9107.100
B 9108.100 FS	B 9106.100 FS	B 9106.160 FS	B 9107.100 FS
			B 8107.160
			B 8107.160 FS
			B 9107.160
			B 9107.160 FS

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BTV10200	BVN11100	BVN11160	BVX11000	
306 A / 100 ZS / 8600	Junior-V Typ ZK / 120	Senior-V Typ ZK / 160	Junior-VI Typ ZK / 100 / UE	
Junior-V ZK / 100 / V 8600	Junior-V Typ ZS / 120	Senior-V Typ ZS / 160	Junior-VI Typ ZS / 100 / 38 / UE	
Junior-V ZS / 100 / V 8600	Junior-V Typ ZK / 120 / NUD	Senior-VI Typ ZK / 160 / NUD	Junior-VI Typ ZK / 120 / UE	
Junior-VII ZK / 120 / V 8600 NUD	Junior-S Typ ZK / 120	Senior-S Typ ZK / 160	Junior-VI Typ ZS / 120 / 38 / UE	
Junior-S Typ ZK / 100 / V 8600	Junior-S Typ ZS / 120	Senior-S Typ ZS / 160	Junior-VII Typ ZK / 120 / NUD / UE	
Junior-S Typ ZK / 120 / V 8600			Senior-VI Typ ZK / 160 / UE	
Junior-S Typ ZS / 100 / V 8600			Senior-VI Typ ZS / 160 / 38 / UE	
Junior-S Typ ZS / 120 / V 8600			Senior-VI Typ ZK / 160 / NUD / UE	

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BTV10200	BVN11100	BVN11160	BVX11000	TECTUS
V 8000	VN 7728 / 120	VN 7728 / 160	VX 7728 / 100	Tectus TE310-3D
V 8000 WF	VN 7729 / 120	VN 7729 / 160	VX 7728 / 120	Tectus TE340-3D
V 8100	VN 7748 / 100	VN 7859 / 160	VX 7728 / 160	Tectus TE510-3D
V 8100 WF	VN 7859 / 120	VN 7939 / 160	VX 7729 / 100	Tectus TE540-3D
V 8100 WF HV stop	VN 7938 / 100	VN 7939 / 160 S	VX 7729 / 120	Tectus TE541-3D FVZ
V 8535	VN 7939 / 120	VN 7939 / 160 FD	VX 7729 / 160	Tectus TE630-3D
V 8550	VNG 7990 / 100	VN 7939 / 160 FD S	VX 7729 / 160-4 N	Tectus TE640-3D
V 8700	VNG 7990 / 120	VS 7749	VX 7729 / 160-18	
VG 8790		VS 7939	VX 7729 / 160-18-3	
VN 8849 / 100		VS 7939 S	VX 7729 / 160 Planum	
VN 8939 / 100			VX 7859 / 120	
VN 8939 / 100 FD			VX 7859 / 160	
			VX 7859 / 160 FD	
			VX 7939 / 100	
			VX 7939 / 100 FD	
			VX 7939 / 120	
			VX 7939 / 160	
			VX 7939 / 160-4 FD	
			VX 7939 / 160-4 FD N	
			VX 7939 / 160-4 N	
			VX 7939 / 160-18-3	
			VX 7939 / 160-18-3 FD	
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			VX 7939 / 160 FD S	
			VX 7939 / 160 FD S WK MSTs	
			VX 7939 / 160 Planum	
			VX 7939 / 160 S	
			VX 7939 / 160 S WK MSTs	
			VXG 7780 / 100 N	
			VXG 7780 / 120	
			VXG 7990 / 100 N	
			VXG 7990 / 120	

BOS takes no responsibility for the actuality of the hinges given. Technical alterations or availability enquiries should take place directly with the manufacturer.

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Issue: 10/2009

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			ER.TB160.332.SSI	
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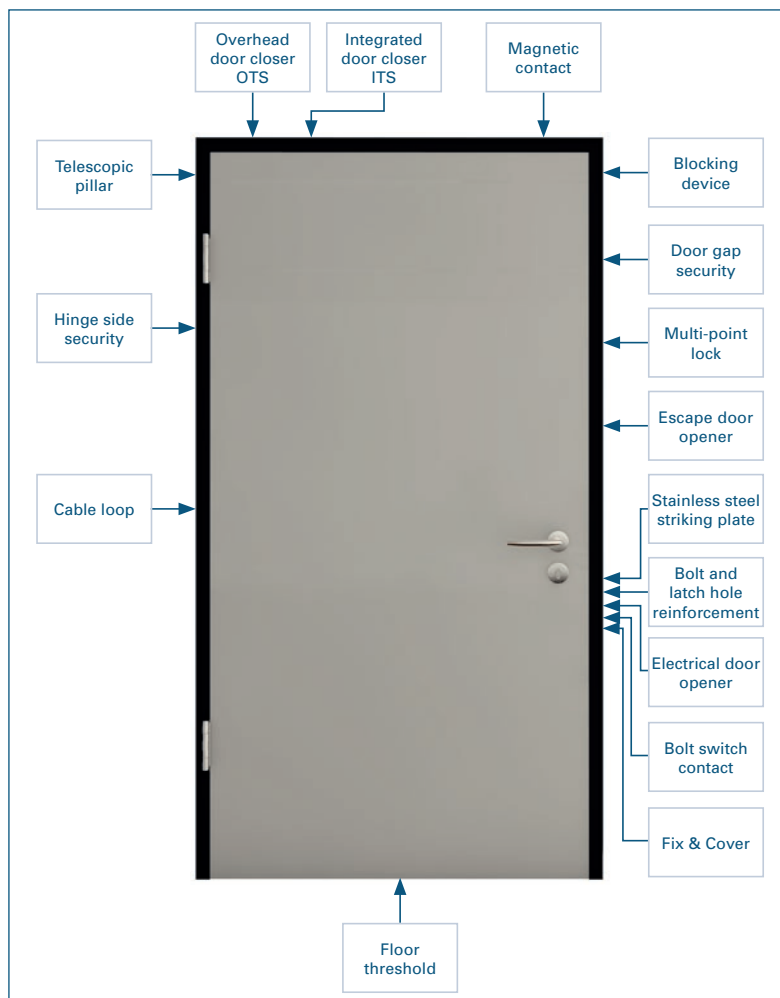
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For optimal function, BOS supplies special attachment parts (separate or mounted) as well as provisions for various attachment parts and fittings.

Whether integrated door closing systems, door operators or electrical fittings - frames can be perfectly blended into the concept of the room.



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Floor thresholds	302 - 303
Striking plates - stainless steel/Latch adjustment	304 - 305
Electrical door openers	306 - 307
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Escape door openers	309
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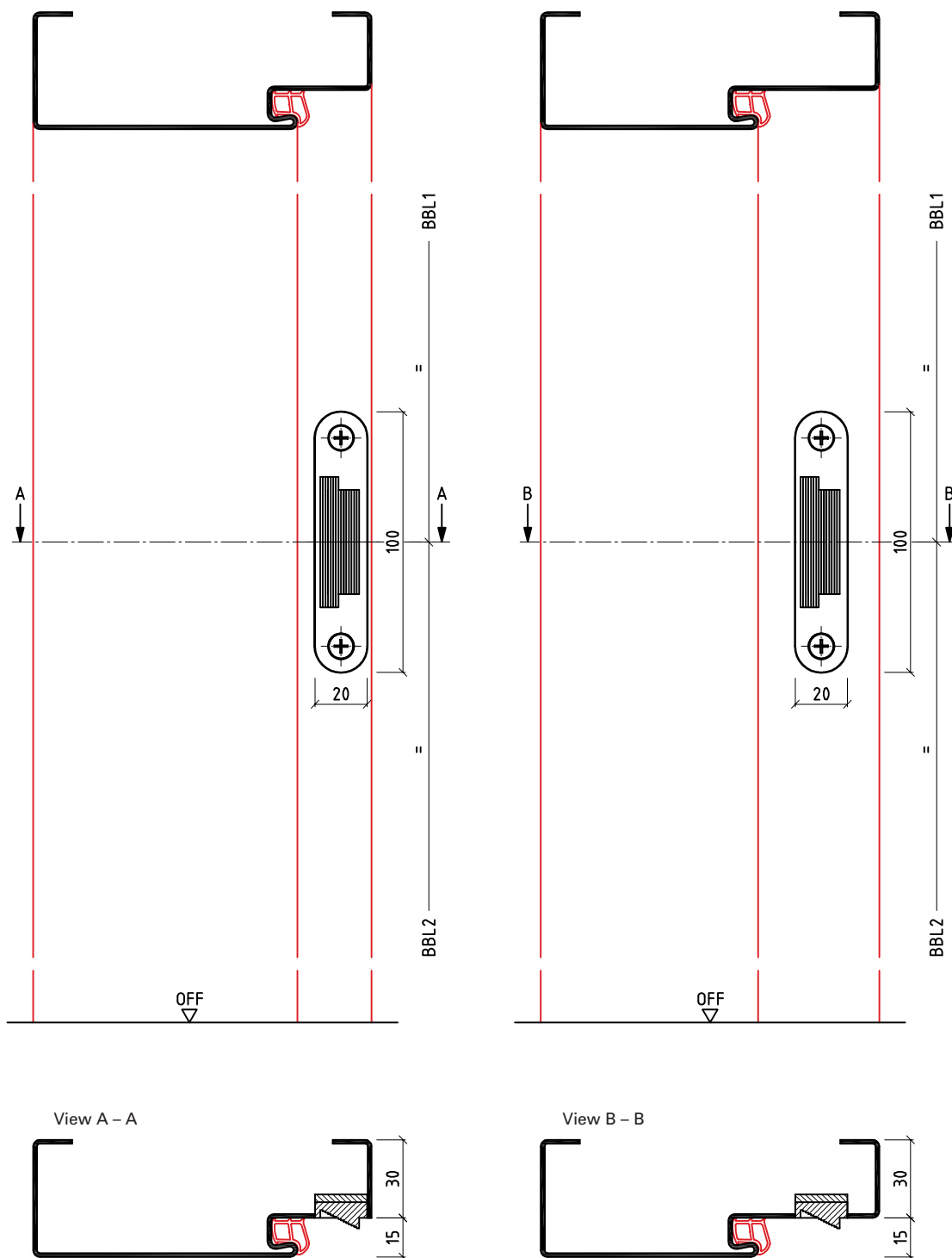
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<b>Article</b>	BOS supplies frames with special attachment parts (separate or mounted) or with provisions for various attachments and fittings.
<b>Your advantages</b>	<ul style="list-style-type: none"><li>• Exactly fitted for special technical requirements</li></ul>
<b>Our recommendations</b>	<ul style="list-style-type: none"><li>• Additional attachment parts should be considered during the planning phase, as a later installation on site is not always possible and can incur high costs and a loss of quality</li></ul>

<b>BOS can supply (mounted or separate):</b>	<ul style="list-style-type: none"><li>• Hinge pockets</li><li>• BOS stainless steel striking plates</li><li>• Earthing contacts (potential equalisation)</li><li>• Earthing screws (potential equalisation)</li><li>• Latch adjustment</li><li>• Fix &amp; Cover (latch entry guard)</li><li>• Bolt/latch hole reinforcements</li></ul>
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<b>BOS can make provisions for:</b>	<ul style="list-style-type: none"><li>• Hinge side security</li><li>• Electrical door openers</li><li>• Cable loops</li><li>• Magnetic contacts</li><li>• Multi-point locks</li><li>• Bolt switch contacts</li><li>• Striking plates</li><li>• Blocking devices</li><li>• Power transmitters</li><li>• Door closers (OTS, ITS, BTS)</li><li>• Door gap security</li><li>• Access controls</li></ul>
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Designation code

**Hinge side security**

Product description

- KFV 8041 (other designs possible)
- For rebated or flush steel frames
- Provision only

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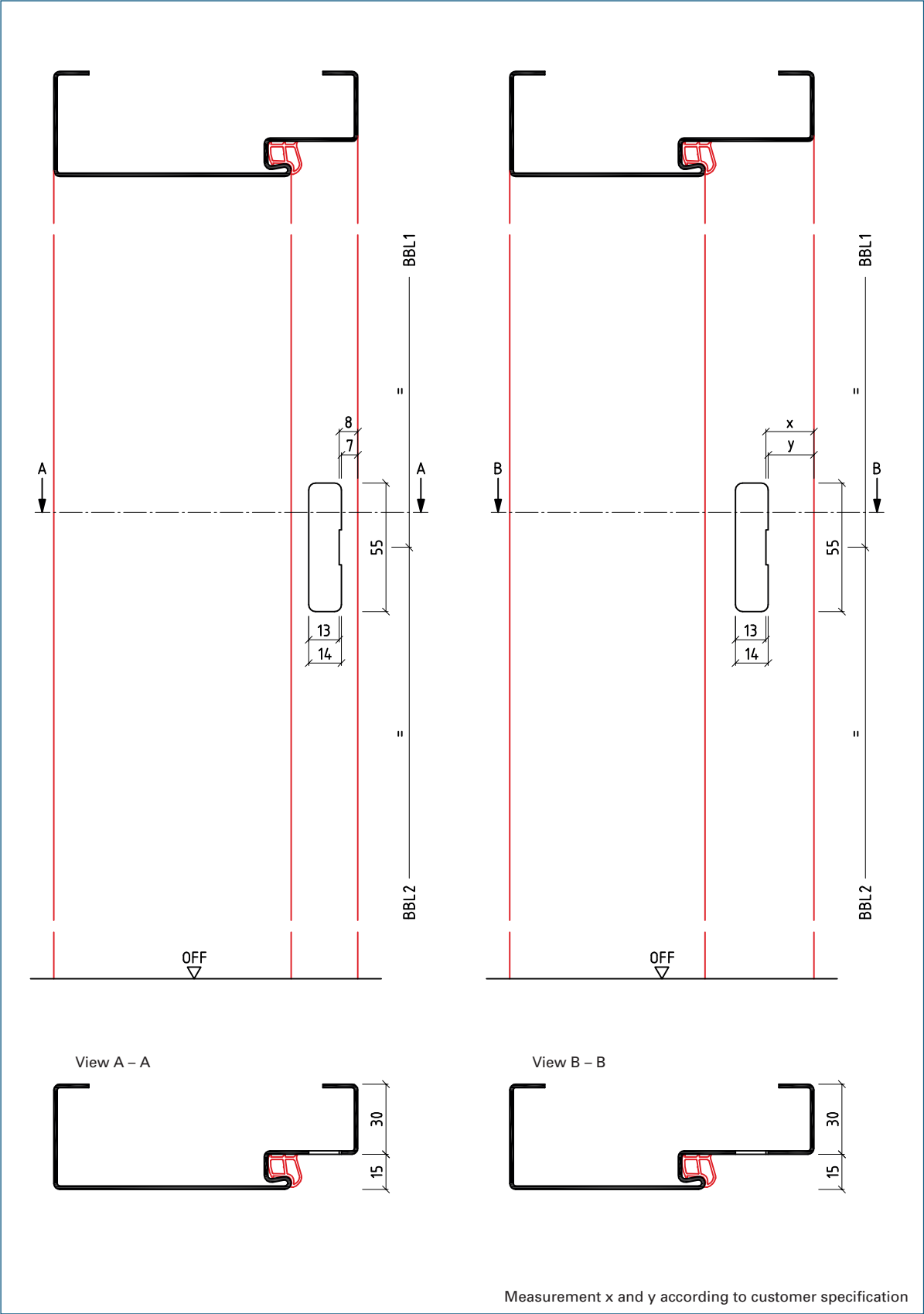
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Designation code

**Hinge side security**

Product description

- Simonswerk No. 207 (other designs possible)
- For rebated or flush steel frames
- Provision only

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**Article**

BOS supplies various floor thresholds, primed or in stainless steel/inox 304 or 316ti. Floor thresholds are supplied either unattached, screwed to the frame or welded in the frame.

**Your advantages**

- Levelling of different floor heights
- 4 sided sealing level for increased soundproofing and less draft

**Our recommendations**

- When installing the frame, line the floor threshold in the middle, then fix and mortar

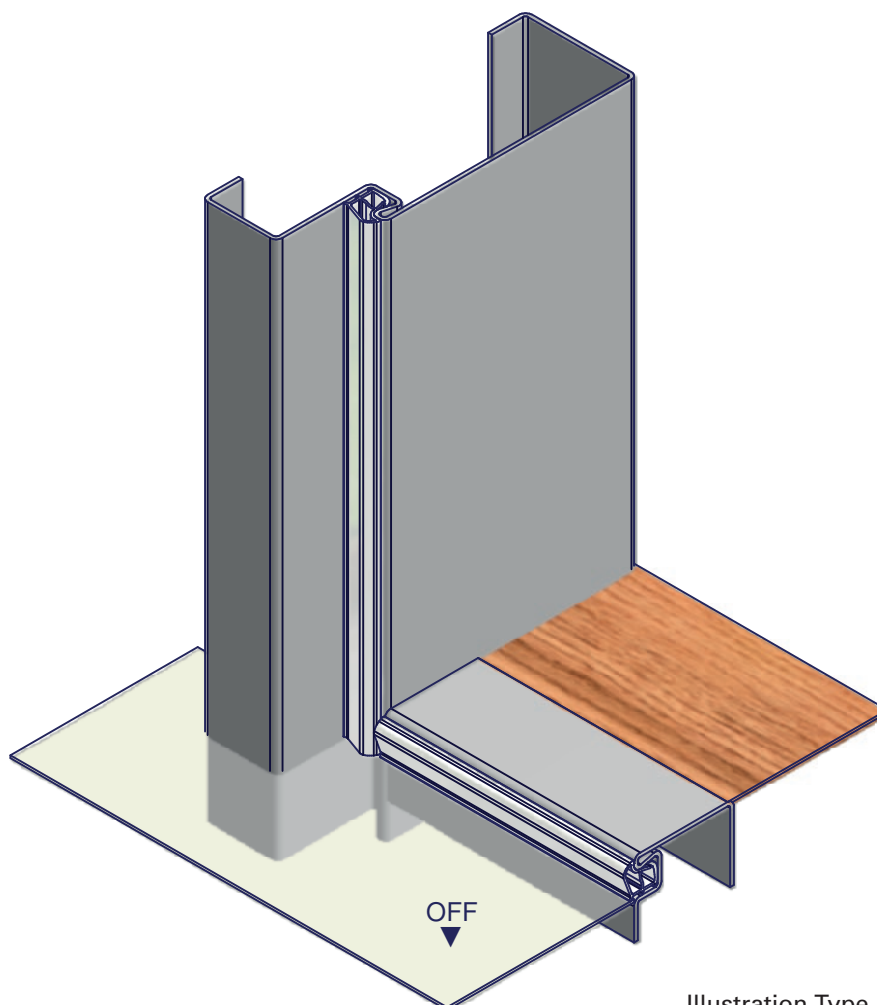


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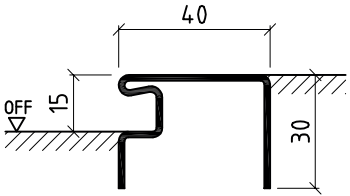
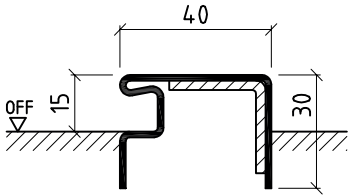
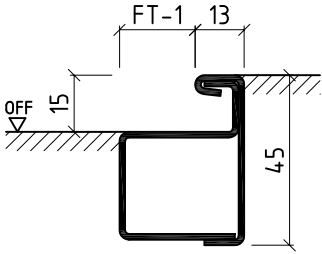
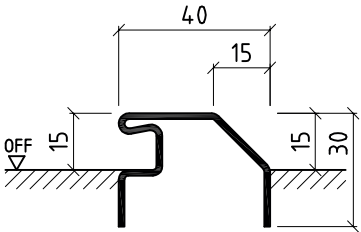
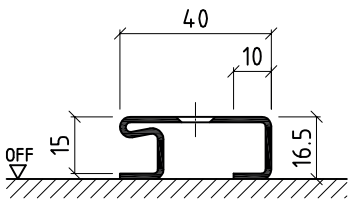
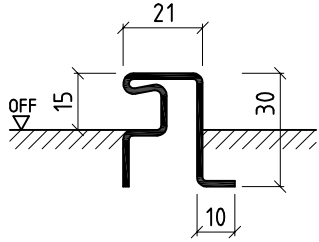
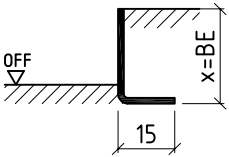
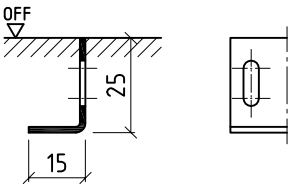
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<p>①</p>  <p>Type 1</p>	<p>②</p>  <p>Type 2 (reinforced)</p>	<p>③</p>  <p>Type 3</p>
<p>④</p>  <p>Type 4</p>	<p>⑤</p>  <p>Type 5</p>	<p>⑥</p>  <p>Type 6</p>
<p>⑦</p>  <p>Type 7</p>	<p>⑧</p>  <p>Type 8 (adjustable in height)</p>	

Designation code

Product description

<p><b>Examples</b></p>	<ul style="list-style-type: none"><li>- Floor thresholds</li><li>- Other measurements and designs possible</li><li>- Supplied unattached, screwed to the frame or welded in the frame</li></ul>
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Designation code

**Protect & Clean**

Product description

- For rebated frames
- The openings for latch and bolt are closed from the back
- Supplied with the frame (mounted)



Designation code

**Latch adjustment**

Product description

- For rebated steel frames
- Without striking plate
- Supplied with the frame (mounted)



Designation code

**Latch adjustment**

Product description

- For flush steel frames
- Without striking plate
- Supplied with the frame (mounted)

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# Fittings and Provisions

## Stainless Steel Striking Plates



Designation code	<b>Protect</b>
Product description	<ul style="list-style-type: none"><li>- For flush steel frames</li><li>- Supplied with the frame (mounted)</li></ul>



Designation code	<b>Protect &amp; Clean</b>
Product description	<ul style="list-style-type: none"><li>- For flush steel frames</li><li>- The openings for latch and bolt are closed from the back</li><li>- Supplied with the frame (mounted)</li></ul>

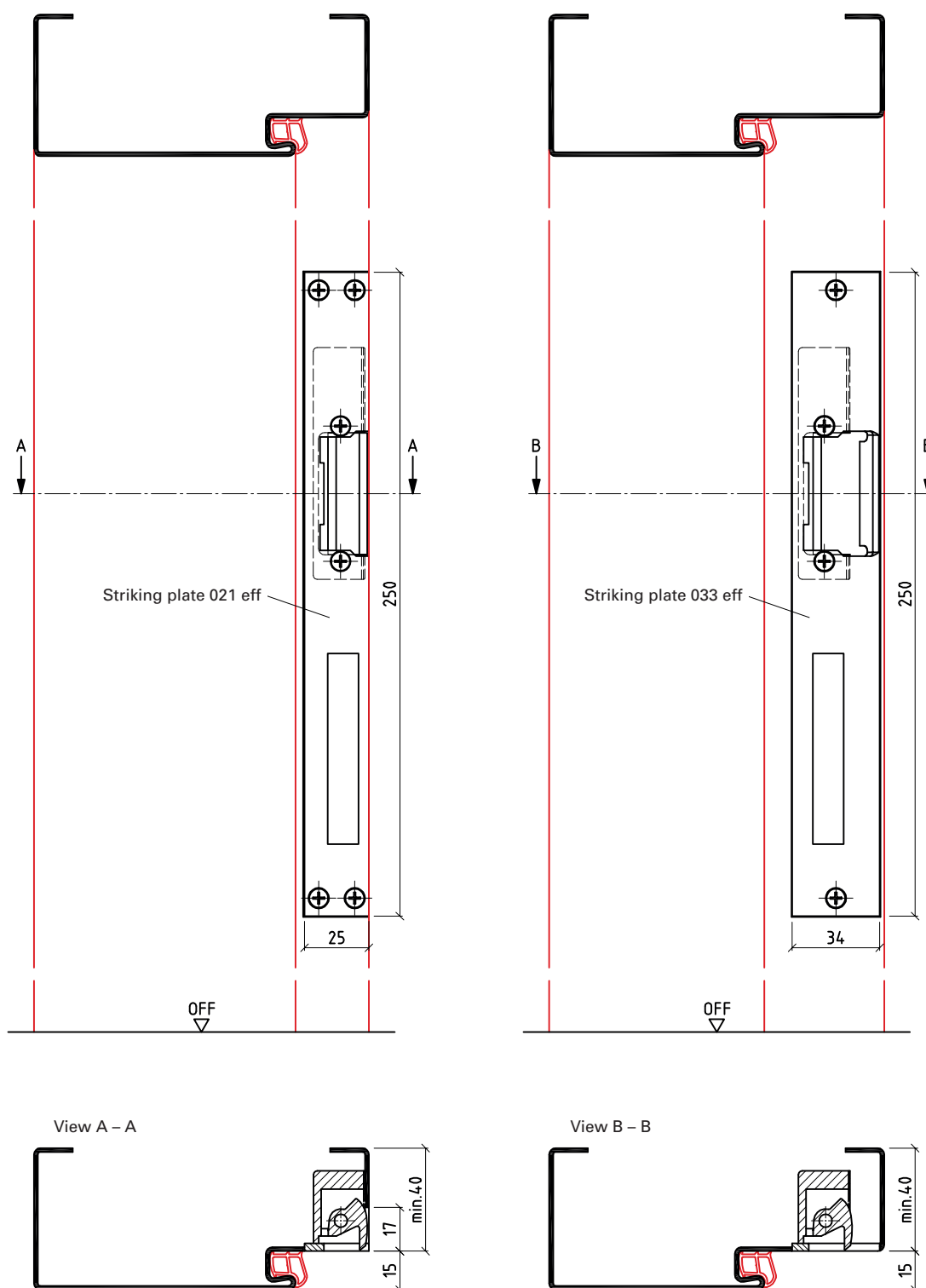


Designation code	<b>Protect</b>
Product description	<ul style="list-style-type: none"><li>- With latch adjustment</li><li>- For flush steel frames</li><li>- Supplied with the frame (mounted)</li></ul>



Designation code	<b>Protect &amp; Clean</b>
Product description	<ul style="list-style-type: none"><li>- With latch adjustment</li><li>- For flush steel frames</li><li>- Opening for the bolt is closed from the back</li><li>- Supplied with the frame (mounted)</li></ul>

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Designation code

**Electrical door opener**

Product description

- 14eff with striking plate 021/033 (other designs possible)
- For rebated or flush steel frames
- Provision only

**BOS Sales Department:**

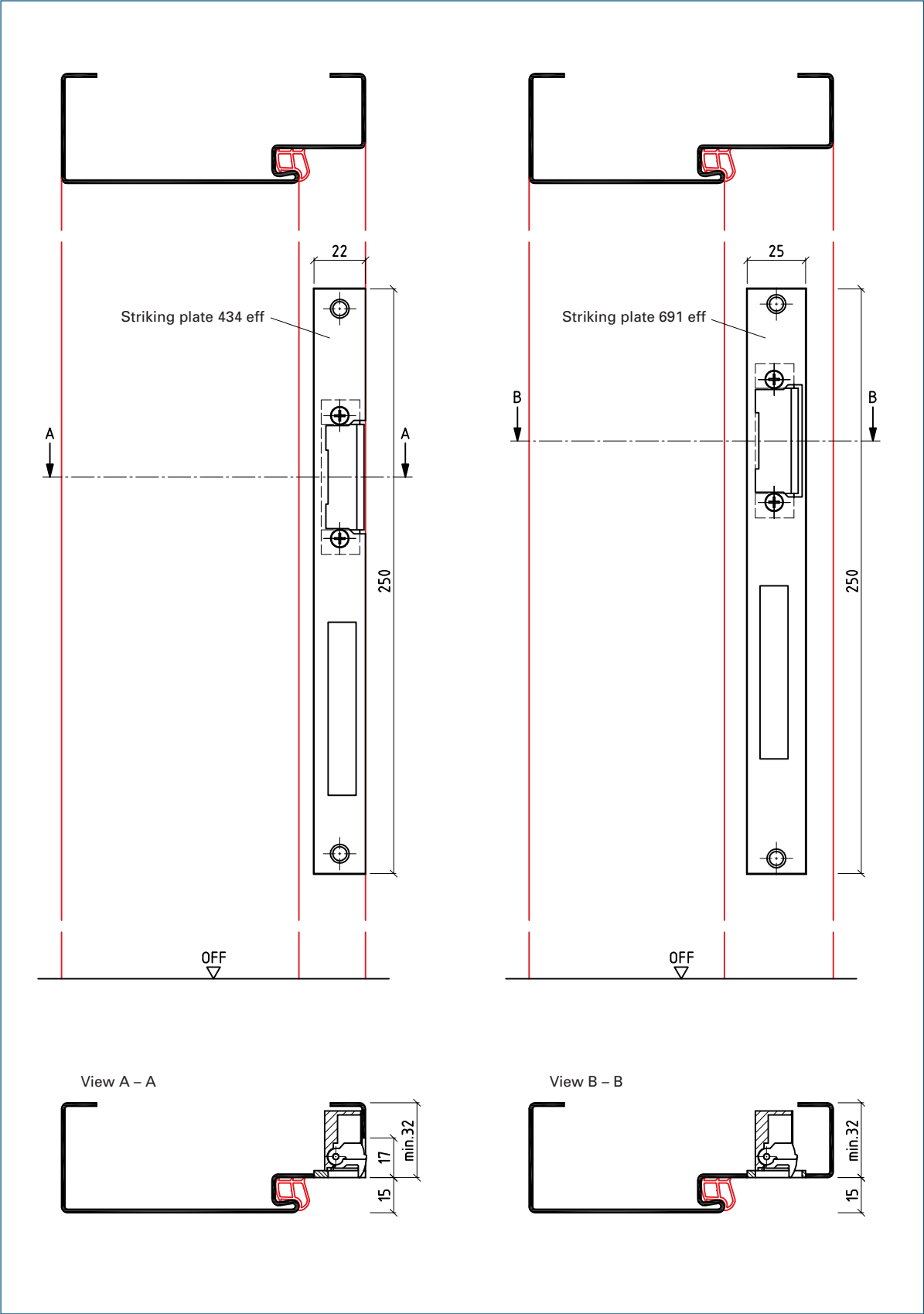
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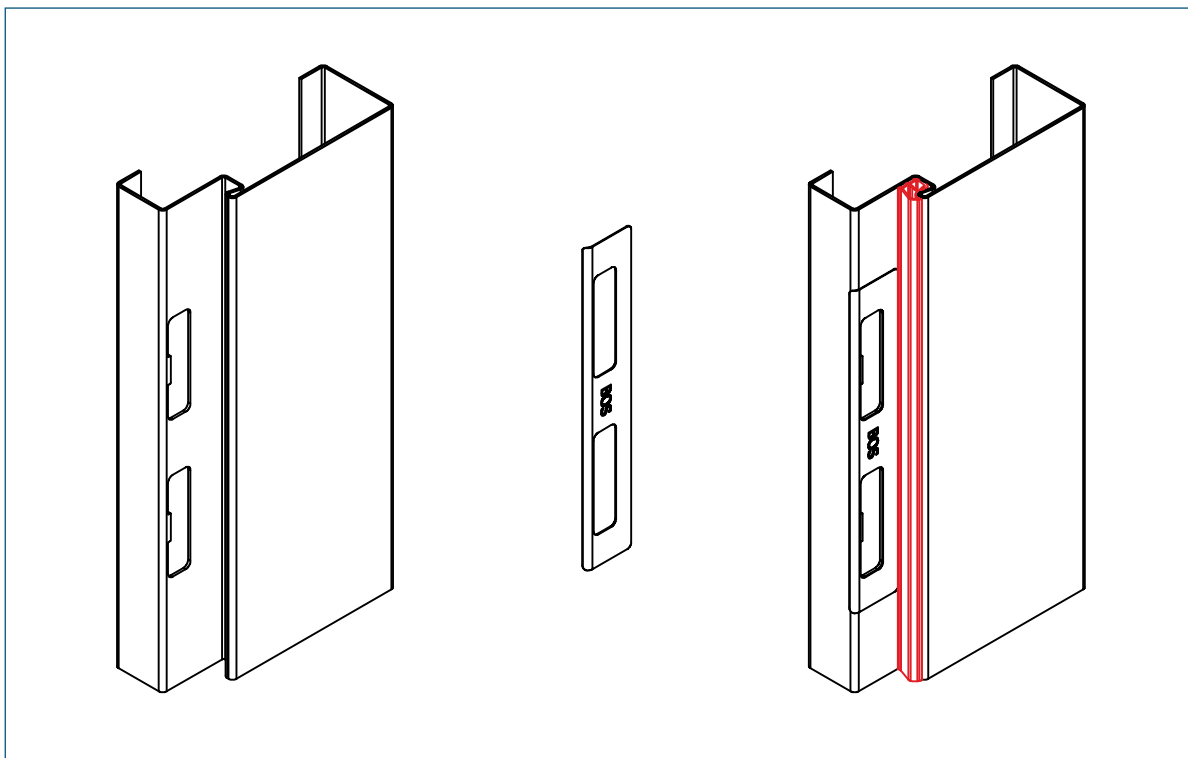
Designation code

**Electrical door opener**

Product description

- 118 eff with striking plate 434/691 (other designs possible)
- For rebated or flush steel frames
- Provision only

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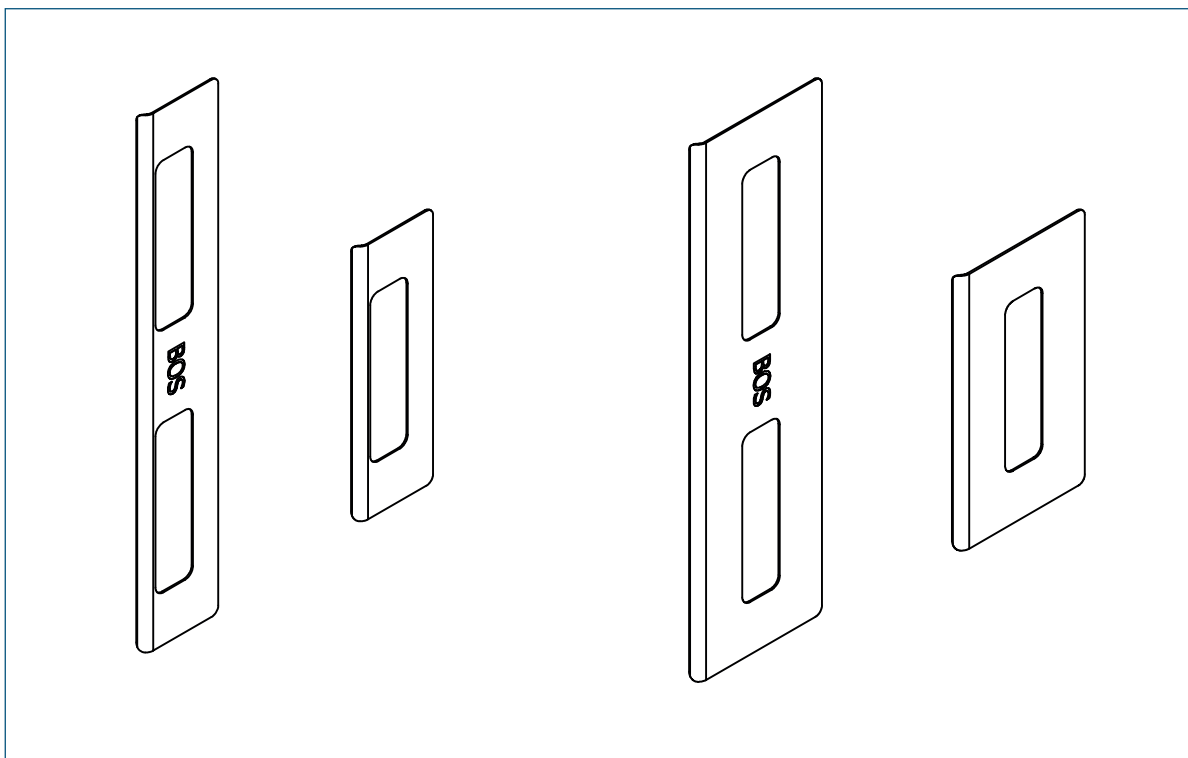


### Designation code

**Fix & Cover**

### Product description

- Stainless steel latch entry guard (to stick on)
- For rebated or flush steel frames
- Supplied with the frame (unattached)



### Designation code

**Fix & Cover**

### Product description

- Latch entry guard versions (to stick on)
- For rebated or flush steel frames
- Supplied with the frame (unattached)

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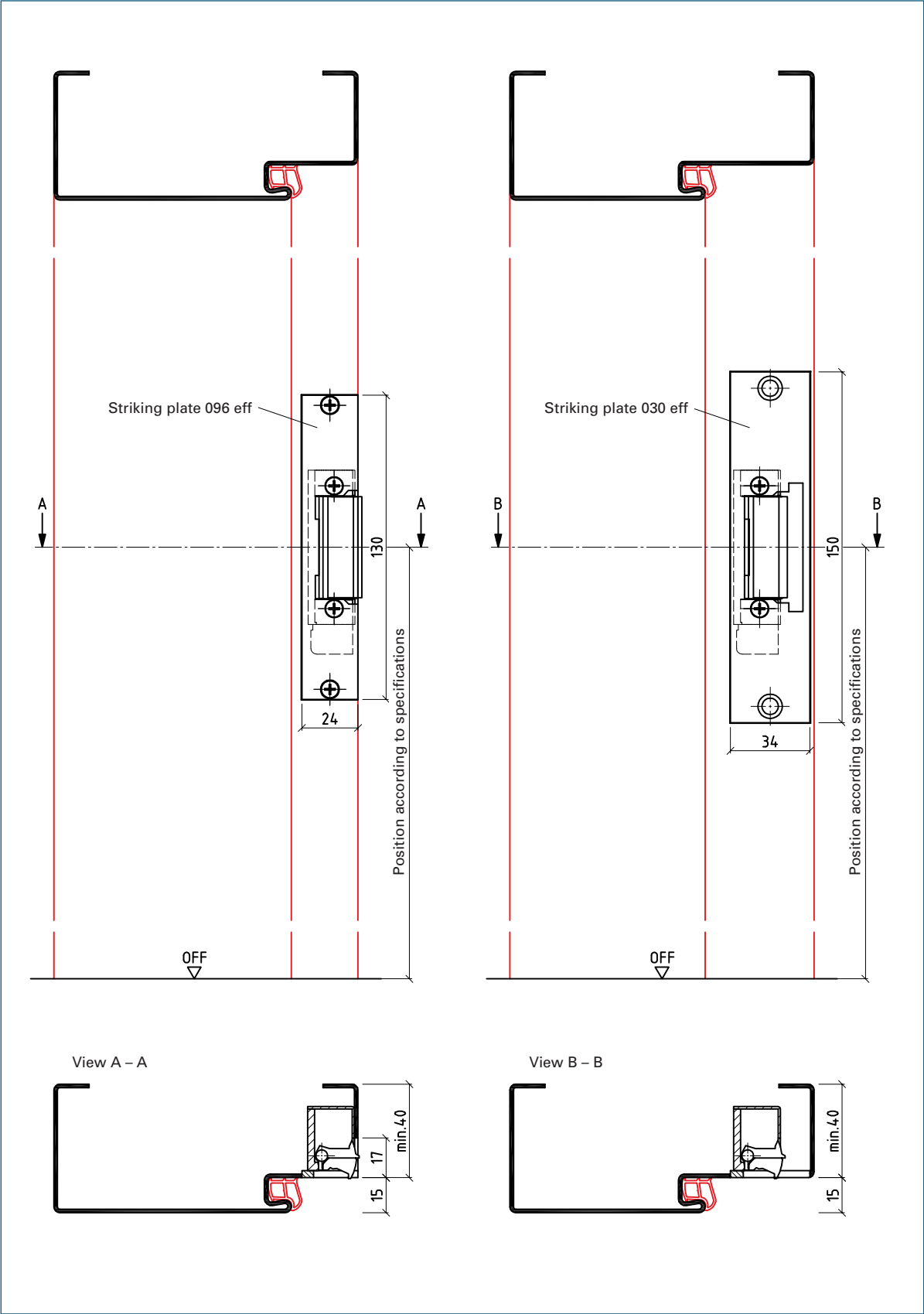
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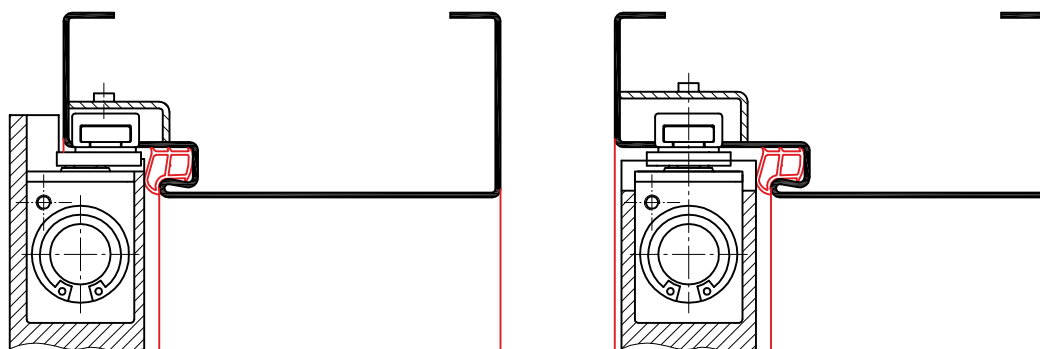
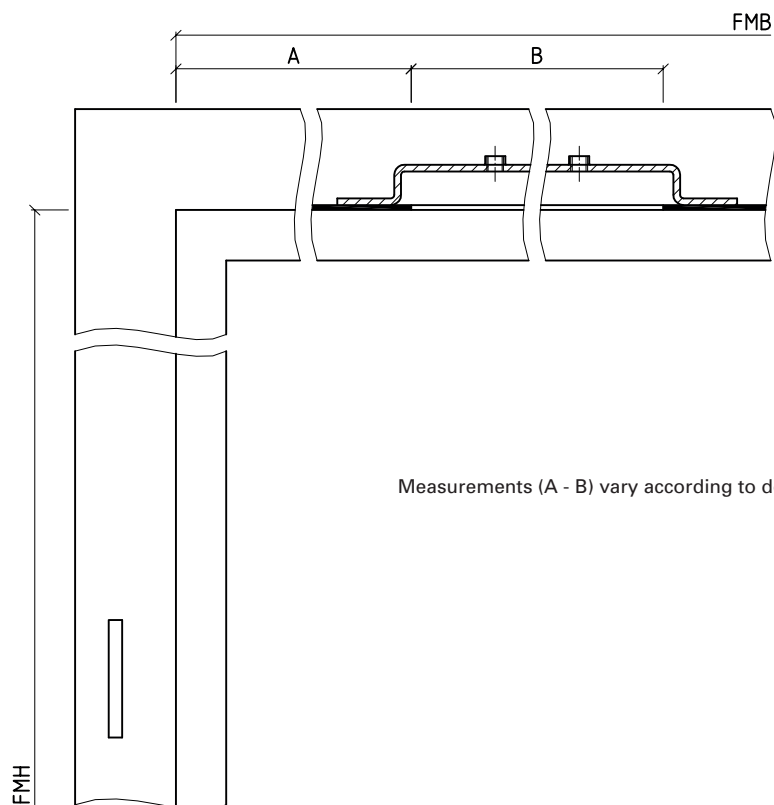
Designation code

**Escape door opener**

Product description

- 332 eff with striking plate 096/522 (other designs possible)
- For rebated or flush steel frames
- Provision only

Subject to technical change.  
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Designation code

**ITS**

Product description

- Integrated door closer (other designs possible)
- For rebated or flush steel frames
- Provision only

**BOS Sales Department:**

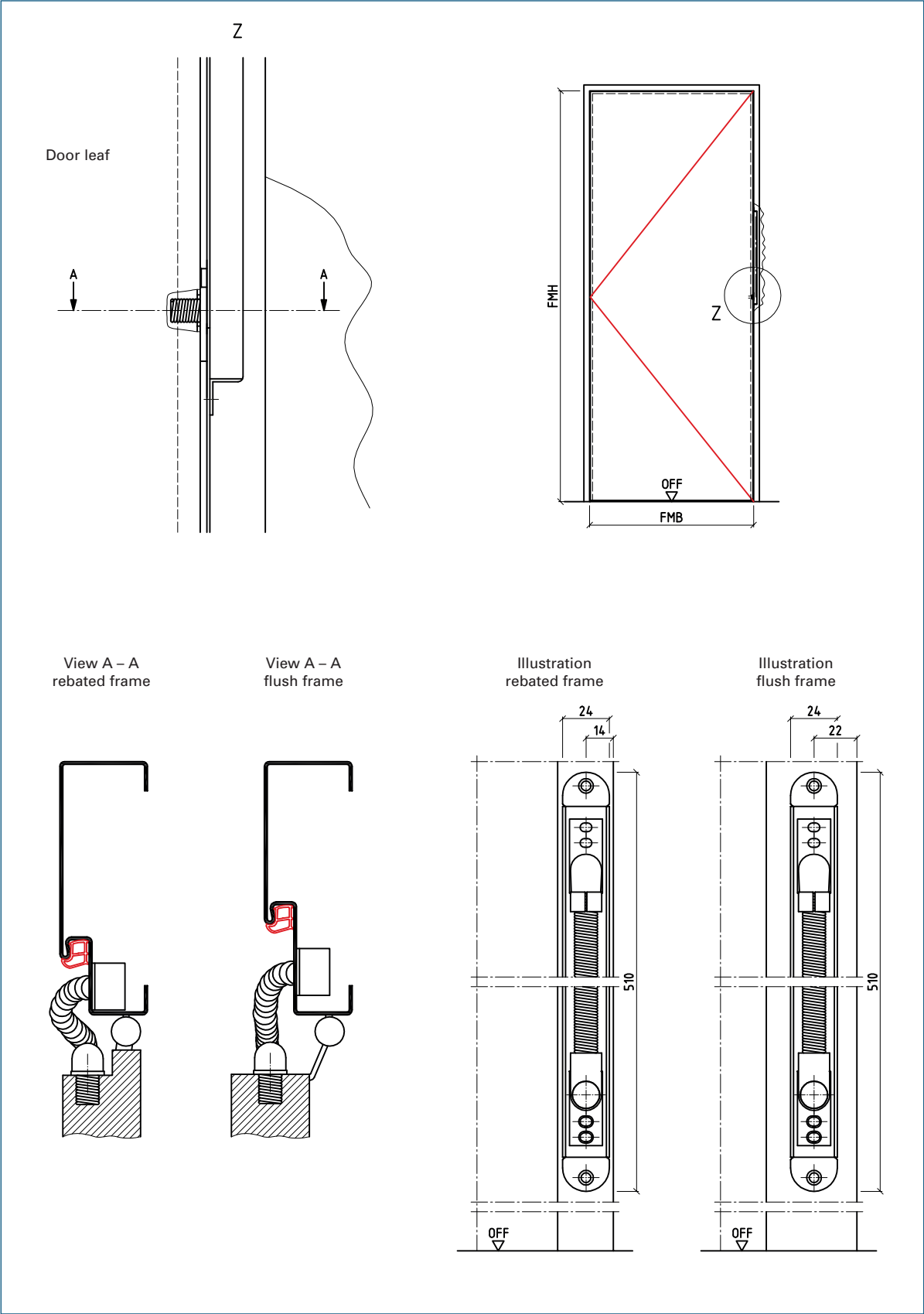
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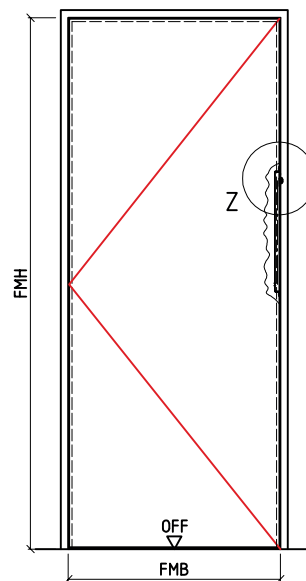
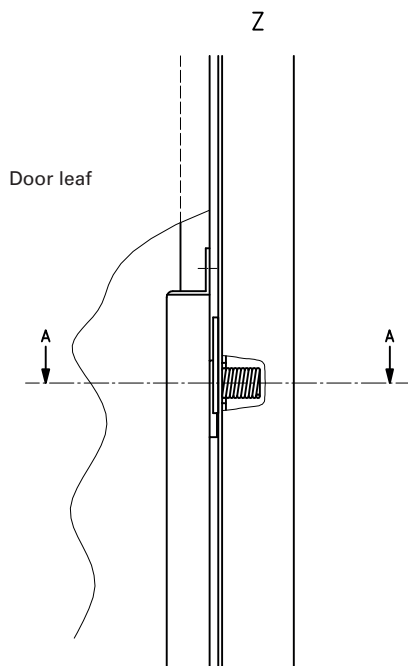
Designation code

**Cable loop**

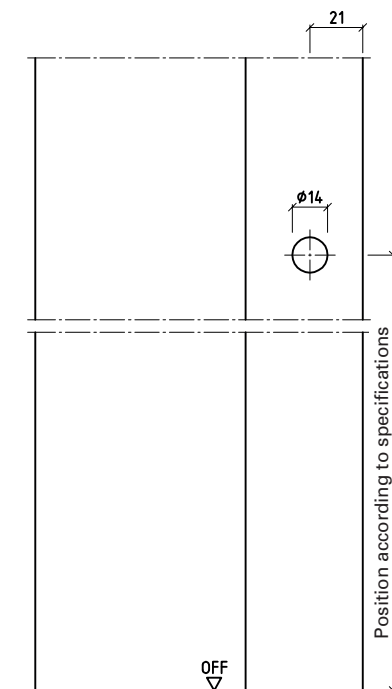
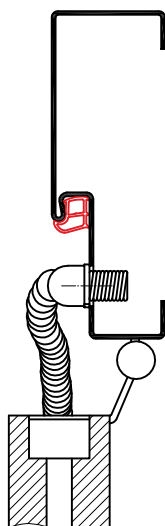
Product description

- Dorma KÜ 480 (other designs possible)
- For rebated or flush steel frames
- Provision only (mounting case in the steel frame)

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View A – A



### Designation code

**Cable loop**

### Product description

- Dorma KÜ 480 (other designs possible)
- For flush steel frames
- Provision only (drilled hole in the frame)

### BOS Sales Department:

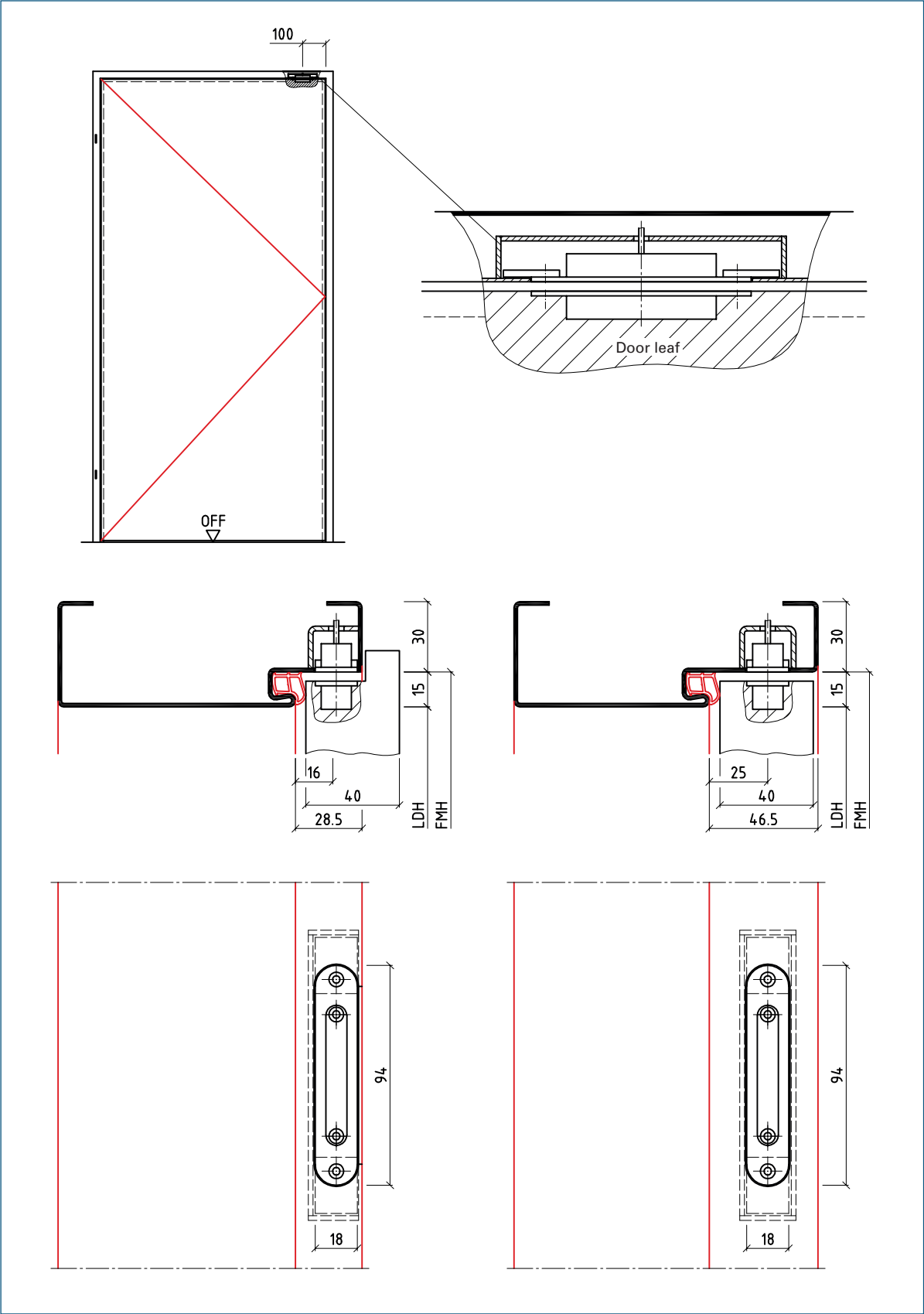
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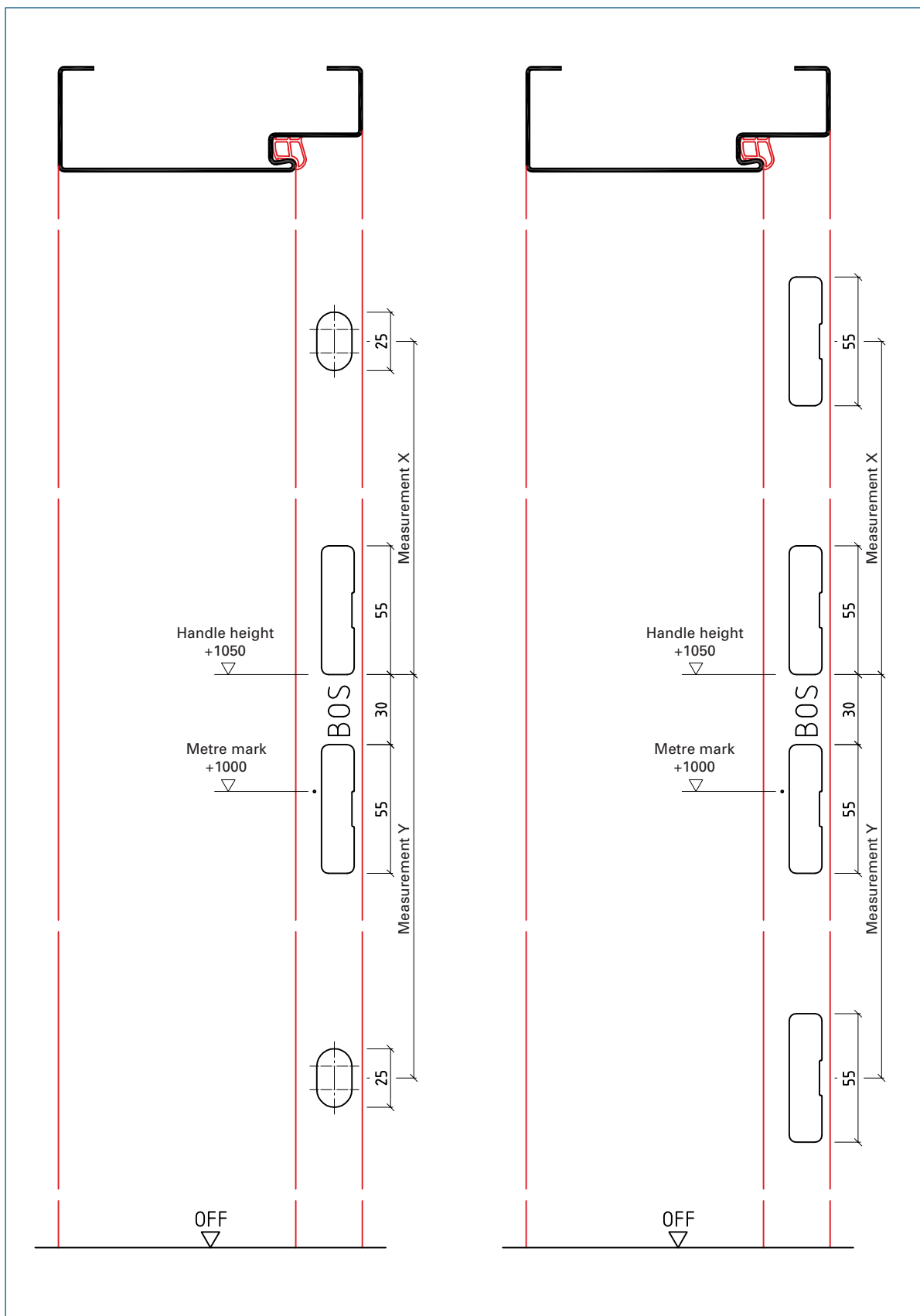
**Magnetic contact**

Product description

- Mounting 10361 eff with magnetic contact 10360 eff
- For rebated or flush steel frames
- Provision only

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Designation code

**Multi-point lock**

Product description

- Reference measurements according to manufacturer (other designs possible)
- For rebated or flush steel frames
- Provision only

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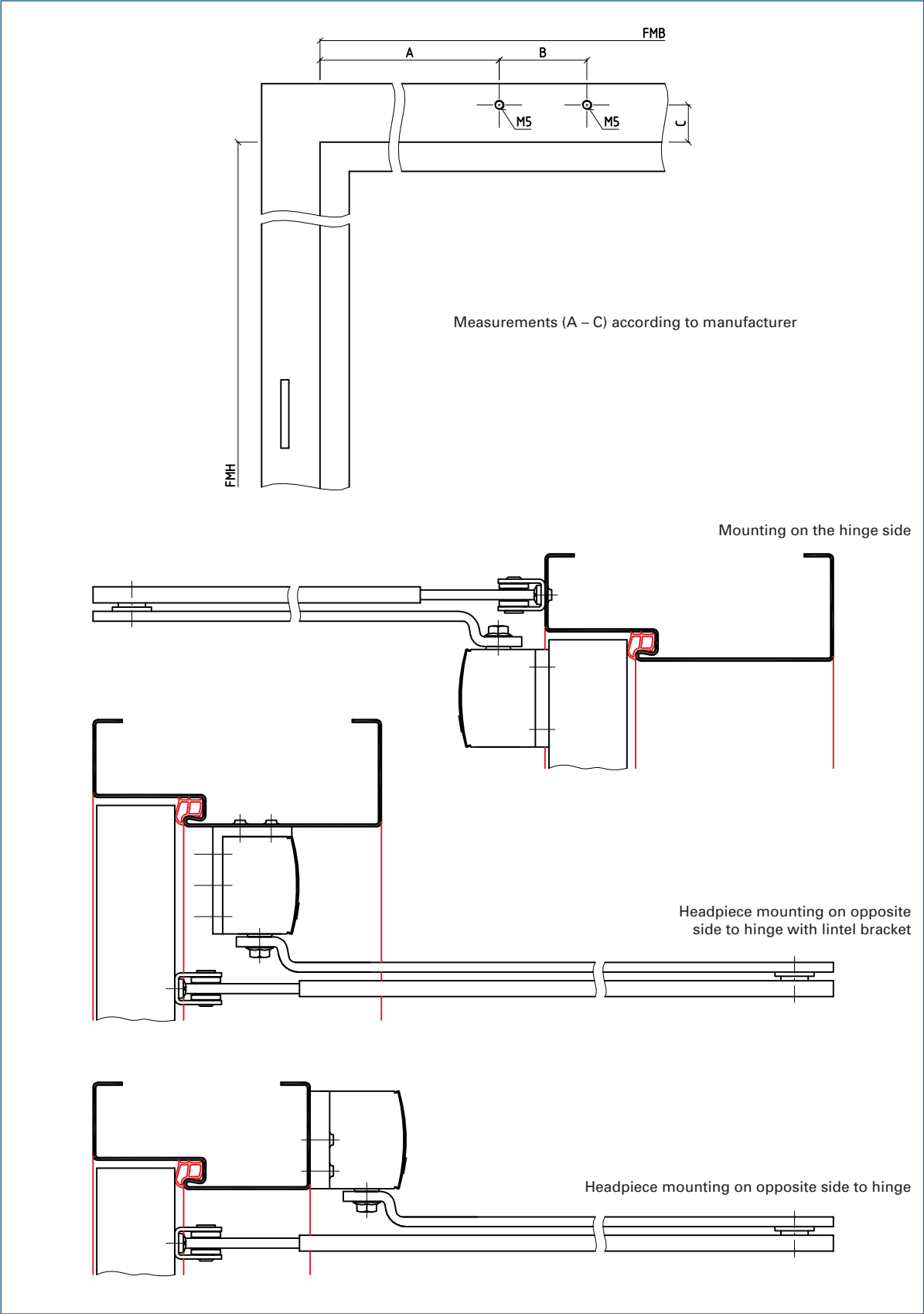
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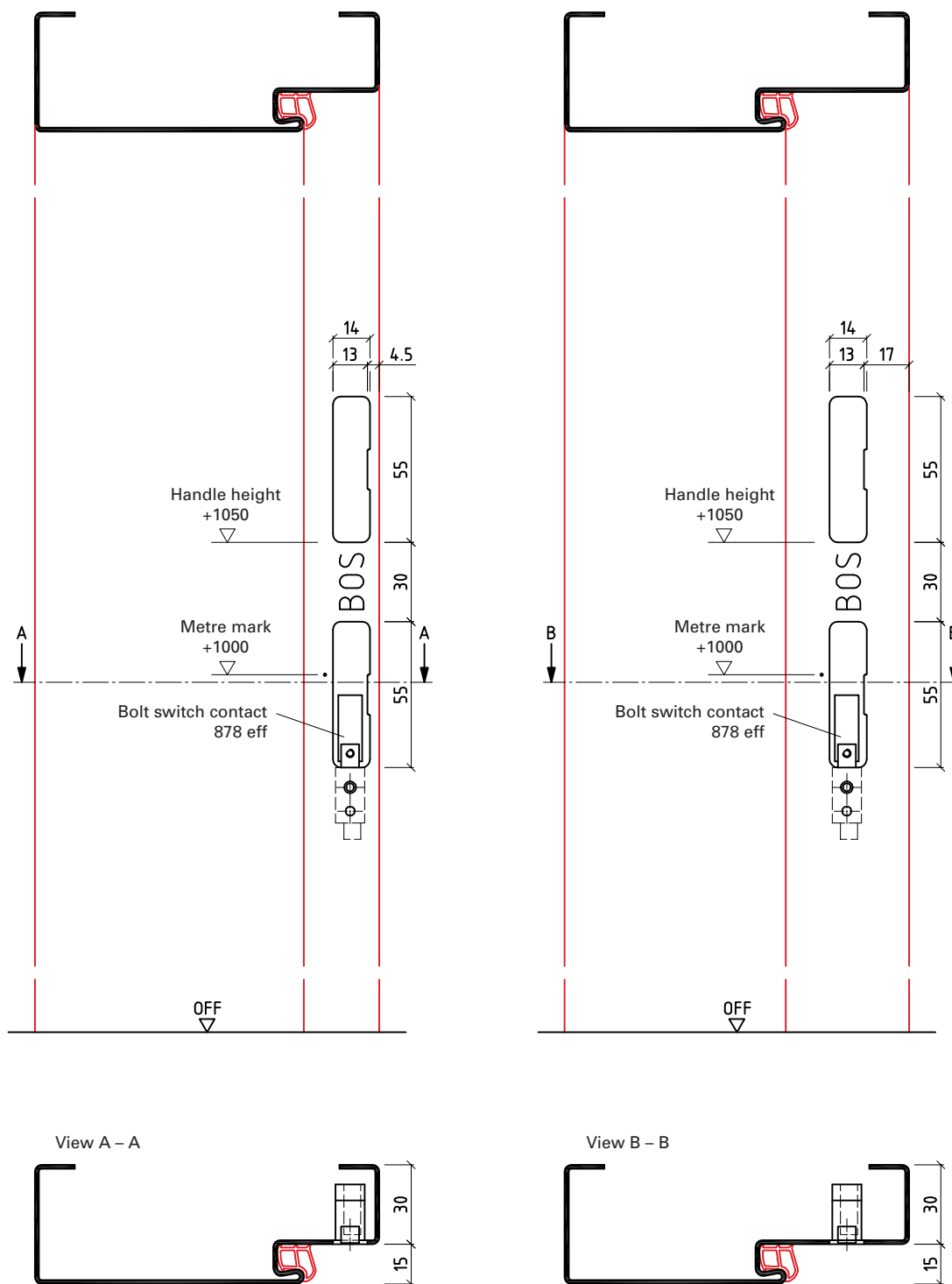
Designation code

**OTS**

Product description

- Overhead door closer (other designs possible)
- For rebated or flush steel frames
- Provision only

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## Designation code

**Bolt switch contact**

## Product description

- 878 eff without striking plate (other designs possible)
- For rebated or flush steel frames
- Provision only

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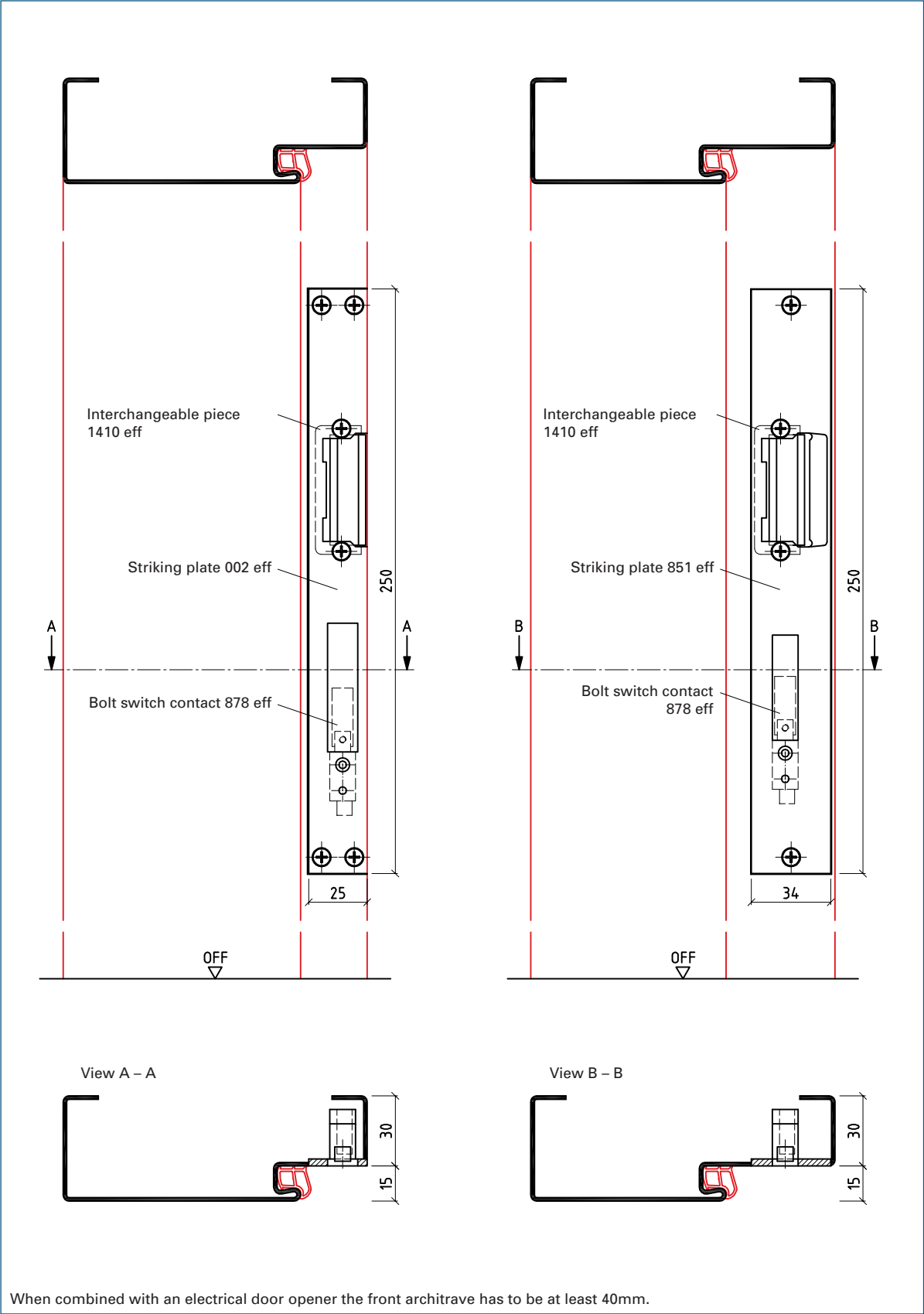
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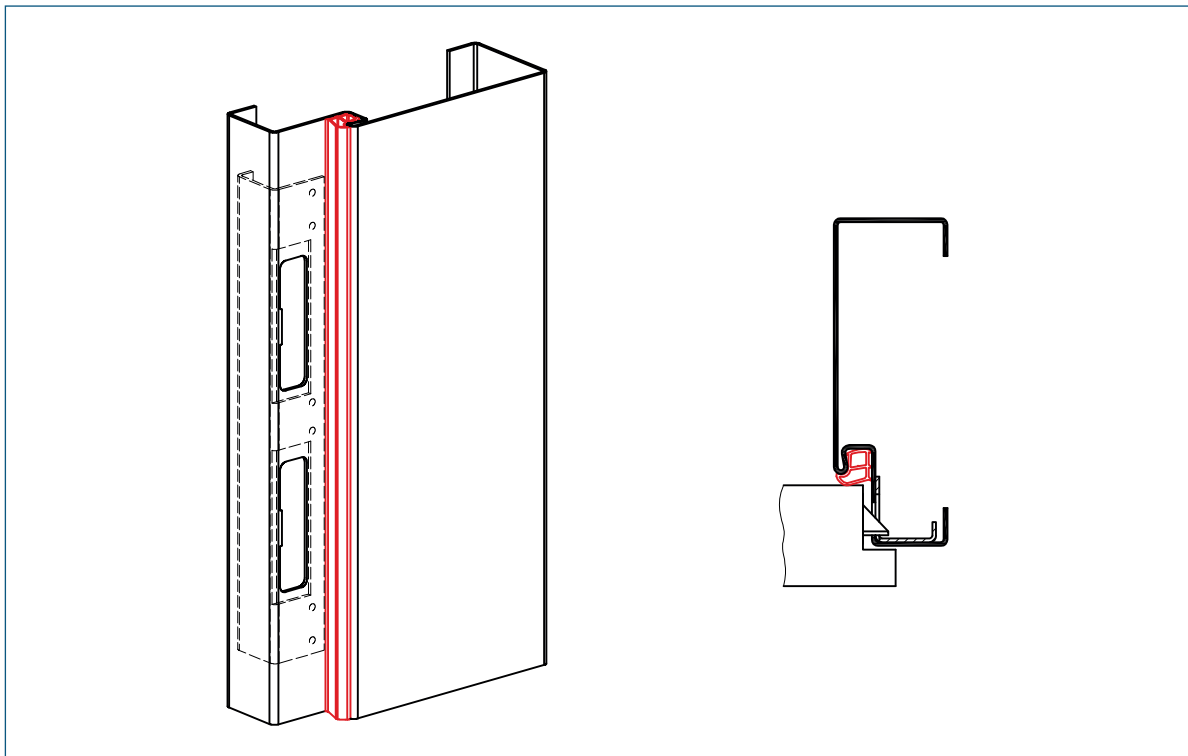
Designation code

**Bolt switch contact**

Product description

- 878 eff with striking plate 002/851 (other designs possible)
- For rebated or flush steel frames
- Provision only

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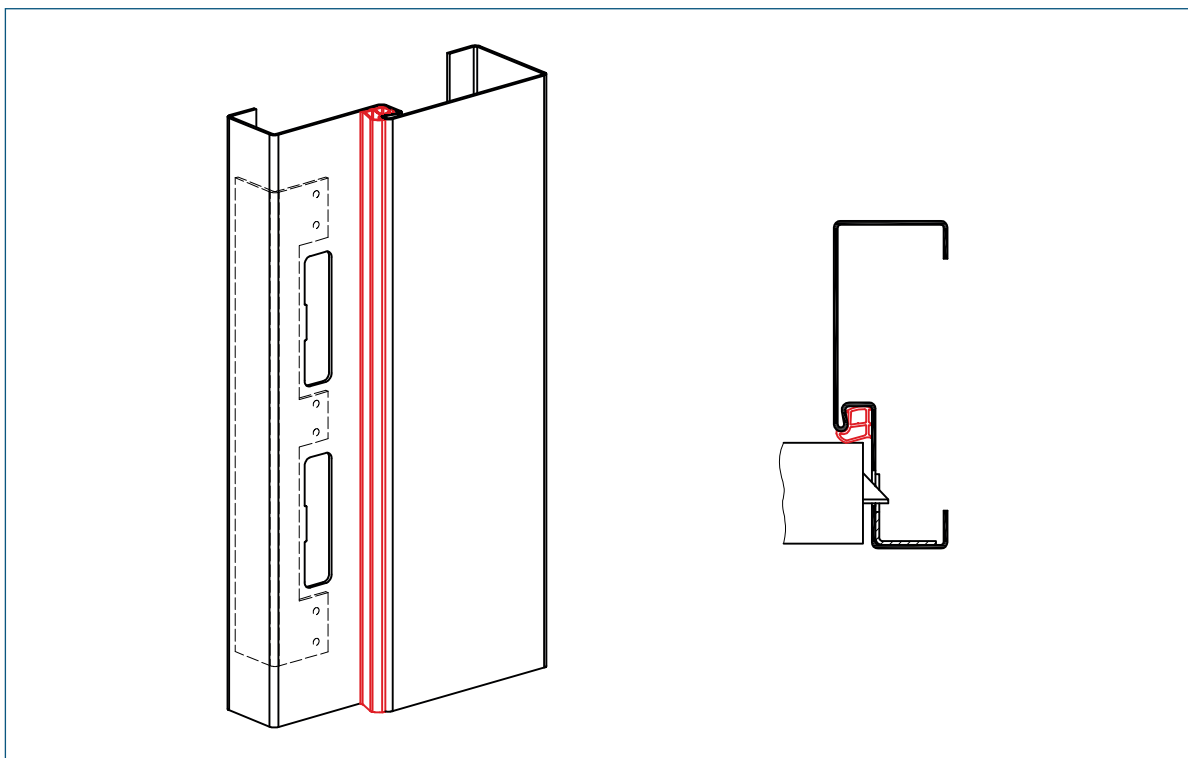


Designation code

**Bolt/latch hole  
reinforcement**

Product description

- For rebated steel frames



Designation code

**Bolt/latch hole  
reinforcement**

Product description

- For flush steel frames

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**Article**

BOS supplies telescopic pillar profiles either unattached or welded in the frame. Telescopic pillar frames are suitable for stud walls.

**Your advantages**

- Better stability for high element strain, e.g. because of heavier door weights, larger door sizes or frequent use

**Our recommendations**

- Choose telescopic pillar profiles when the frame is permanently put under high strain, e.g. in public buildings
- State the exact height measurements from the top surface of finished floor to the bottom level of the finished ceiling when ordering

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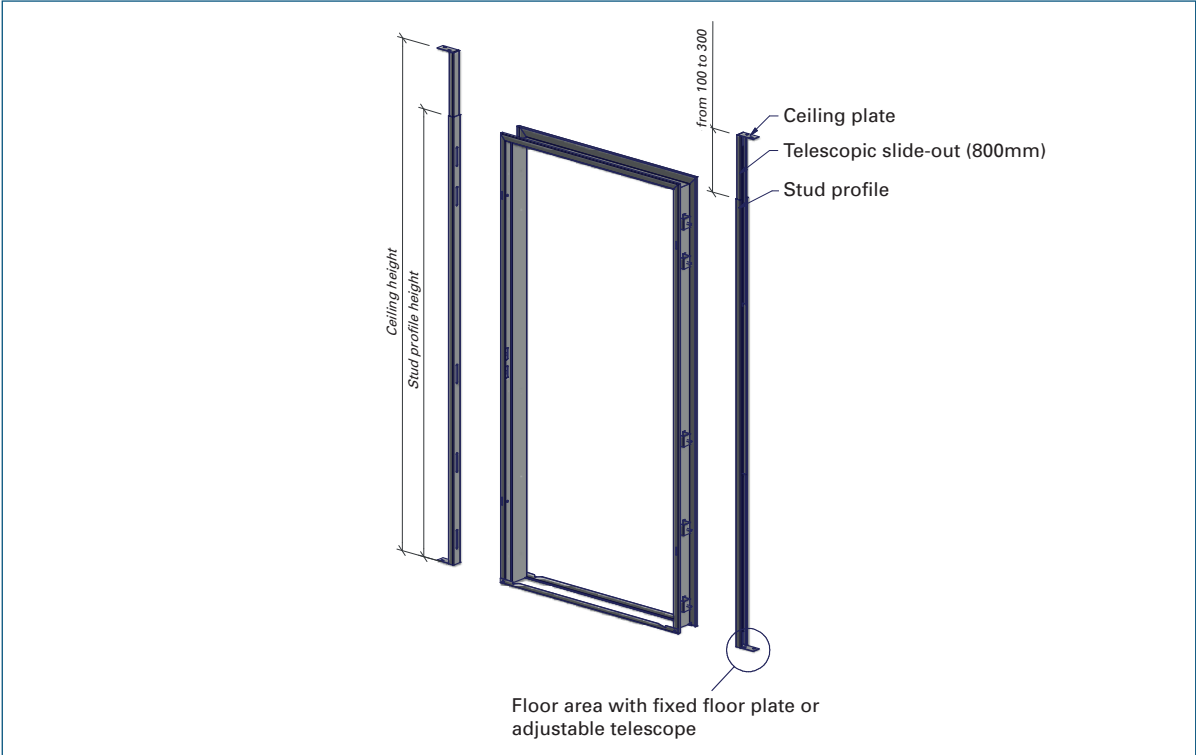
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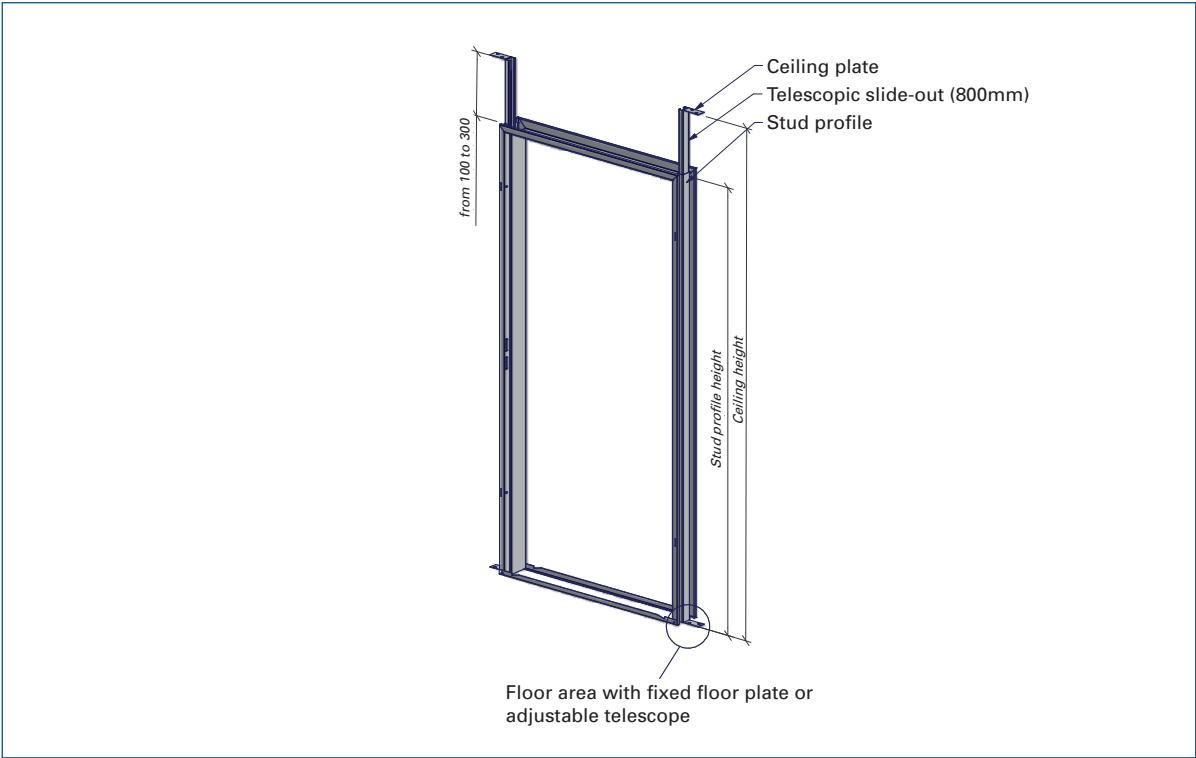
# Fittings and Provisions

## Telescopic Pillars

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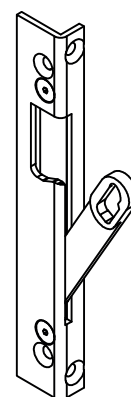
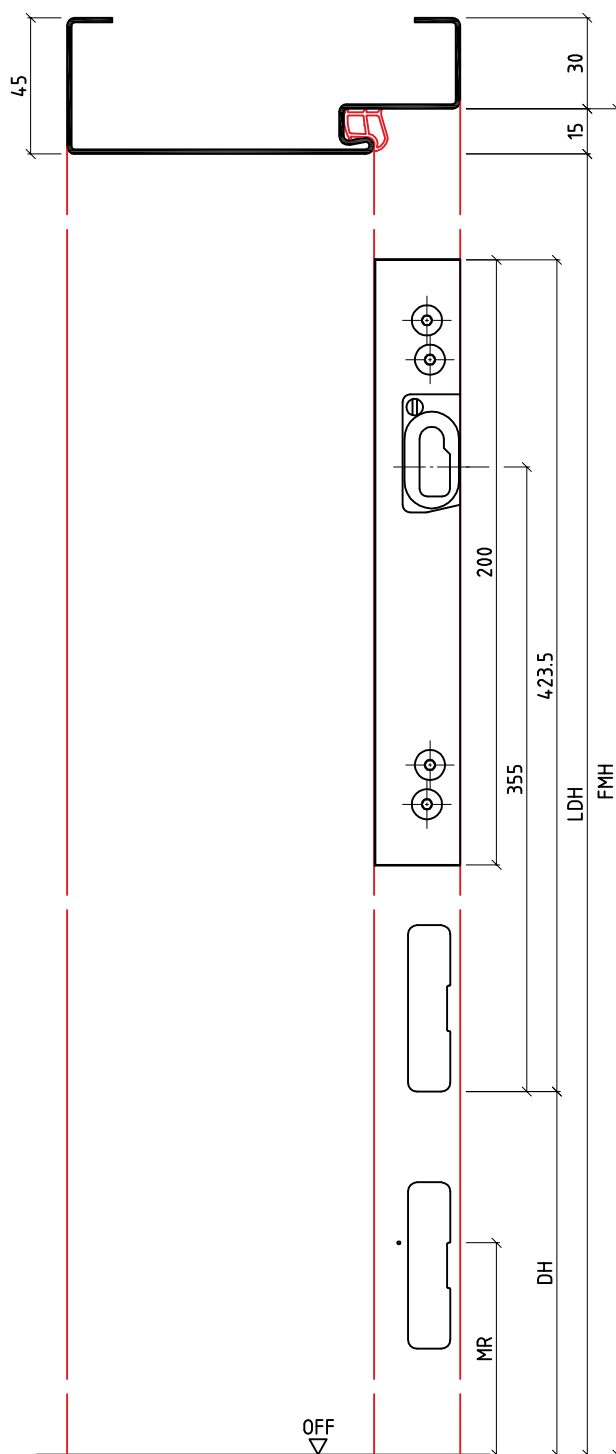


<b>Bud</b>	<ul style="list-style-type: none"><li>- Block frame with unattached telescopic pillar profile</li><li>- For stud walls</li><li>- Other measurements and profile forms possible</li></ul>
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Designation code	Product description
<b>Bud</b>	<ul style="list-style-type: none"><li>- Block frame with welded telescopic pillar profile</li><li>- For stud walls</li><li>- Other measurements and profile forms possible</li></ul>

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Angled striking plate

Designation code

**Door gap security**

Product description

- With locking bracket KfV (other designs possible)
- For rebated steel frames
- Provision only

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Only when the seal is in place frames can meet requirements in sound proofing and smoke and fire protection satisfactorily. Draughts are prevented and the door closes quietly.



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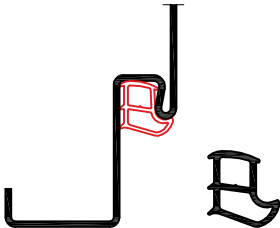
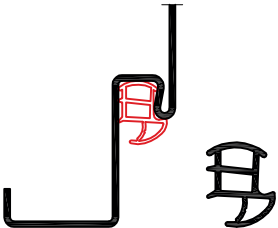
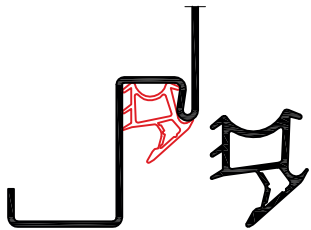


- Article

BOS supplies various seals separately. There is a choice of different materials and colours as well as raised designs.
- Your advantages

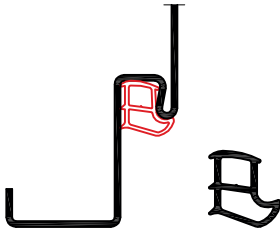
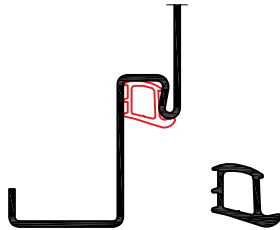
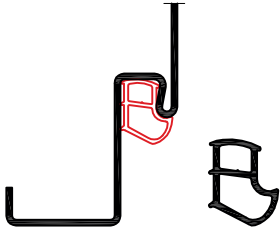
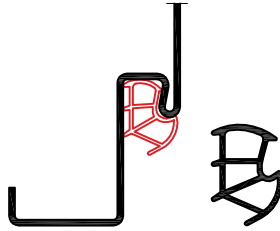
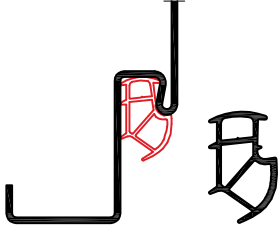
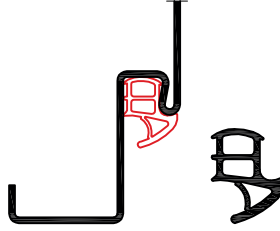
- The appropriate seal for every application, e.g. soundproofing, smoke or fire protection
  - Installation instructions can be found on the packaging of standard seals
  - The seals are inserted without mitre cut
  - A welding of the seals is not recommended as it can lead to a loss of quality
  - TPE seals are compatible with almost all paints
- Our recommendations

- Protect the seal from deformation and direct sunlight during storage
  - Use the BOS latch adjustment to accomodate any change in closing pressure caused by a weakening in the elasticity of the seal

<div><div>①</div><div>Elastic 2-chamber seal Material: TPE</div></div> <div></div> <div><div>15mm rebate AADC0037: light grey (No. 6170)</div></div>	<div><div>②</div><div>TPE lip seal</div></div> <div></div> <div><div>15mm rebate AADC0023: light grey (No. 6600) AADC0024: black (No. 6605) AADC0025: white (No. 6615)</div></div>	<div><div>③</div><div>TPE lip seal</div></div> <div></div> <div><div>20mm rebate AADC0026: light grey (No. 6700) AADC0027: black (No. 6705)</div></div>
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Designation code	Product description
Examples	- Seals supplied separately

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<p>① Elastic 2-chamber seal Material: PVC</p>  <p>15mm rebate AADC0001: light grey (No. 6150) AADC0006: black (No. 6155) AADC0008: brown (No. 6160) AADC0009: white (No. 6165)</p>	<p>② Elastic 1-chamber seal Flatbed 3mm Material: PVC</p>  <p>15mm rebate AADC0020: light grey (No. 6450) AADC0021: black (No. 6455) AADC0022: brown (No. 6460)</p>
<p>③ Elastic 2-chamber seal 2mm raised Material: PVC</p>  <p>15mm rebate AADC0016: light grey (No. 6300) AADC0017: black (No. 6305) AADC0018: brown (No. 6310) AADC0019: white (No. 6315)</p>	<p>④ Elastic 3-chamber seal 4mm raised Material: PVC</p>  <p>15mm rebate AADC0013: light grey (No. 6250) AADC0014: black (No. 6255) AADC0015: white (No. 6265)</p>
<p>⑤ Elastic 3-chamber seal 7mm raised Material: PVC</p>  <p>15mm rebate AADC0010: light grey (No. 6200) AADC0011: black (No. 6205) AADC0012: brown (No. 6215)</p>	<p>⑥ APTK lip seal</p>  <p>15mm rebate AADC0034: black (No. 6400) AADC0038: light grey (No. 6405)</p>

Designation code

Product description

**Examples**

- Seals supplied separately

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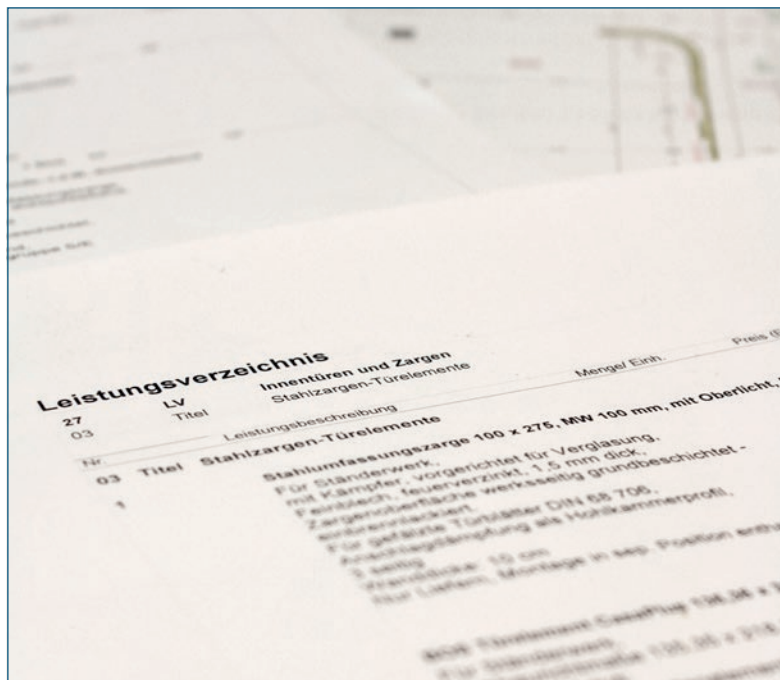
Examples of our standard tender specification sheets for all current profiles can be found on the following pages.

Should you require further assistance in the compilation of your tender specification sheets – our Architect Consulting Service is at your disposal:

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Please select the options desired and complete the necessary technical information.

For drawings see chapter 3, Standard Frames.

### Standard Corner Frame according to DIN 18111-1 for brick walls

according to the following technical data:

Quantity:	... pcs
BOS profile:	Eud (for rebated door leaf and single rebate)
Wall type:	brick
Design:	1 part
Material:	galvanized and primed
Sheet thickness:	1.5 mm
Measurements (w x ht):	(for possible measurements see chapter 3, Standard Frames)
Structural wall measurement:	..... x ..... mm
Rebate measurement:	..... x ..... mm
Receiving opening measurement:	..... mm
Total depth of frame:	68.5 mm
Architrave front / back:	30 / 0 mm
Backbend front / back:	10 / 17 mm
Rebate width:	15 mm
Rebate depth:	28.5 mm, closing level 4.5 mm
Rebate type:	single rebate
Handle height:	1050 mm (pre-punched per side)
Metre mark:	stamped in
Foundation bedding:	30 mm
Seal:	hollow chamber seal (standard seal, PVC)
Anchor:	corner frame nail anchors
Hinge pockets:	2 x BTV10200 per side (provision for DIN right / left)

### Note:

Installation should be carried out by experienced personnel only!

### LEED and DGNB Criteria

BOS Best Of Steel combines frame design with sustainable building. In the data bank of [greenbuildingproducts.eu](http://greenbuildingproducts.eu), BOS steel frames in various different designs can be found which have been evaluated according to LEED and DGNB criteria.

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Please select the options desired and complete the necessary technical information.

For drawings see chapter 3, Standard Frames.

**Standard Wrap Around Frame according to DIN 18111-1 for brick walls**  
 according to the following technical data:

Quantity:	... pcs
BOS profile:	Uud (for rebated door leaf and single rebate)
Wall type:	brick
Design:	1 part
Material:	galvanized and primed
Sheet thickness:	1.5 mm
Measurements (w x ht):	(for possible measurements see chapter 3, Standard Frames)
Structural wall measurement:	..... x ..... mm
Rebate measurement:	..... x ..... mm
Receiving opening measurement:	..... mm
Total depth of frame:	..... mm (receiving opening + 20 mm)
Architrave front / back:	30 / 30 mm
Backbend front / back:	10 / 10 mm
Rebate width:	15 mm
Rebate depth:	28.5 mm, closing level 4.5 mm
Rebate type:	single rebate
Handle height:	1050 mm (pre-punched per side)
Metre mark:	stamped in
Foundation bedding:	30 mm
Seal:	hollow chamber seal (standard seal, PVC)
Anchor:	nail anchors (separate)
Hinge pockets:	2 x BTV10200 per side (provision for DIN right / left)

**Note:**

Installation should be carried out by experienced personnel only!

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Please select the options desired and complete the necessary technical information.

For drawings see chapter 3, Standard Frames.

**Standard Block Frame according to DIN 18111-2 for stud walls, enclosing the wall**  
according to the following technical data:

Quantity:	... pcs
BOS profile:	Bud (for rebated door leaf and single rebate)
Wall type:	stud
Design:	1 part
Material:	galvanized and primed
Sheet thickness:	1.5 mm
Measurements (w x ht):	(for possible measurements see chapter 3, Standard Frames)
Theoretical structural wall opening measurement:	..... x ..... mm
Rebate measurement:	..... x ..... mm
Receiving opening measurement:	..... mm
Total depth of frame:	..... mm (receiving opening + 30 mm)
Architrave front / back:	30 / 45 mm
Backbend front / back:	15 / 15 mm
Rebate width:	15 mm
Rebate depth:	28.5 mm, closing level 4.5 mm
Rebate type:	single rebate
Handle height:	1050 mm (pre-punched per side)
Metre mark:	stamped in
Foundation bedding:	0 mm
Seal:	hollow chamber seal (standard seal, PVC)
Anchor:	bracket anchors
Hinge pockets:	2 x V8618 per side (provision for DIN right / left)

**Note:**

- 1 part stud wall frames are installed together with the wall.
- Installation should be carried out by experienced personnel only!

**LEED and DGNB Criteria**

BOS Best Of Steel combines frame design with sustainable building. In the data bank of [greenbuildingproducts.eu](http://greenbuildingproducts.eu), BOS steel frames in various different designs can be found which have been evaluated according to LEED and DGNB criteria.

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The guidelines from the German Industrial Association for doors and frames are intended to provide planning security for the quality of installation of steel frames.



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German Industrial Association  
for doors and frames

## Guidelines for the installation of steel frames

### Contents

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2	Areas of application
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4.1	General requirements
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4.2.1	Steel frames in brickwork walls
4.2.2	Steel frames in stud and mounting walls
4.2.3	Non standard steel frames
5	Measurement verification of installed steel frames
6	Recommendations / Notes

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## 1. Intent and purpose of the guidelines

The guidelines from the German Industrial Association for doors and frames are intended to provide planning security for the quality of installation of steel frames.

The information in these guidelines is based on the experience and skill of member companies of the Industrial Association and impart assistance for architects, planners and installers of steel frames.

The installation instructions from the manufacturer should be followed, the guidelines for installing steel frames is a supplement to the aforementioned documents.

## 2. Areas of application

These guidelines are applicable for the installation of frames for brick work, stud walls and for non-standard frames.

They do not replace the series of standards DIN 18111.

The steel frame designs are described in the standards DIN 18111: August 2004, Parts 1 to 3 . Part 4 of DIN 18111 determines the basics for installation (assembly) of steel frames:

DIN 18111 Part 1 – standard frames for rebated doors in brickwork

DIN 18111 Part 2 – standard frames for rebated doors in stud walls

DIN 18111 Part 3 – non-standard frames for rebated and flush door leaves

DIN 18111 part 4 – installation of steel frames

These guidelines are not applicable for steel frames for fire and smoke protection elements, for burglar resistant or sound protection elements, air raid protection doors, frames for container construction, for sandwich walls and timber-frame construction or for steel frames in concrete walls using pouring methods.

In these cases the applicable standards and/or regulations should be followed.

## 3. General information before installation

### 3.1 Steel frames

Before installation the order and state on delivery should be checked, in particular the following points:

- The **design** of the steel frame in relation to the planning specifications
- The **construction characteristics** of the steel frame – this “identity check” ensures that the “right” steel frame is used.
- The **labelling** of the steel frame (according to DIN18111) – the details stated on the delivery note can be used for checking.

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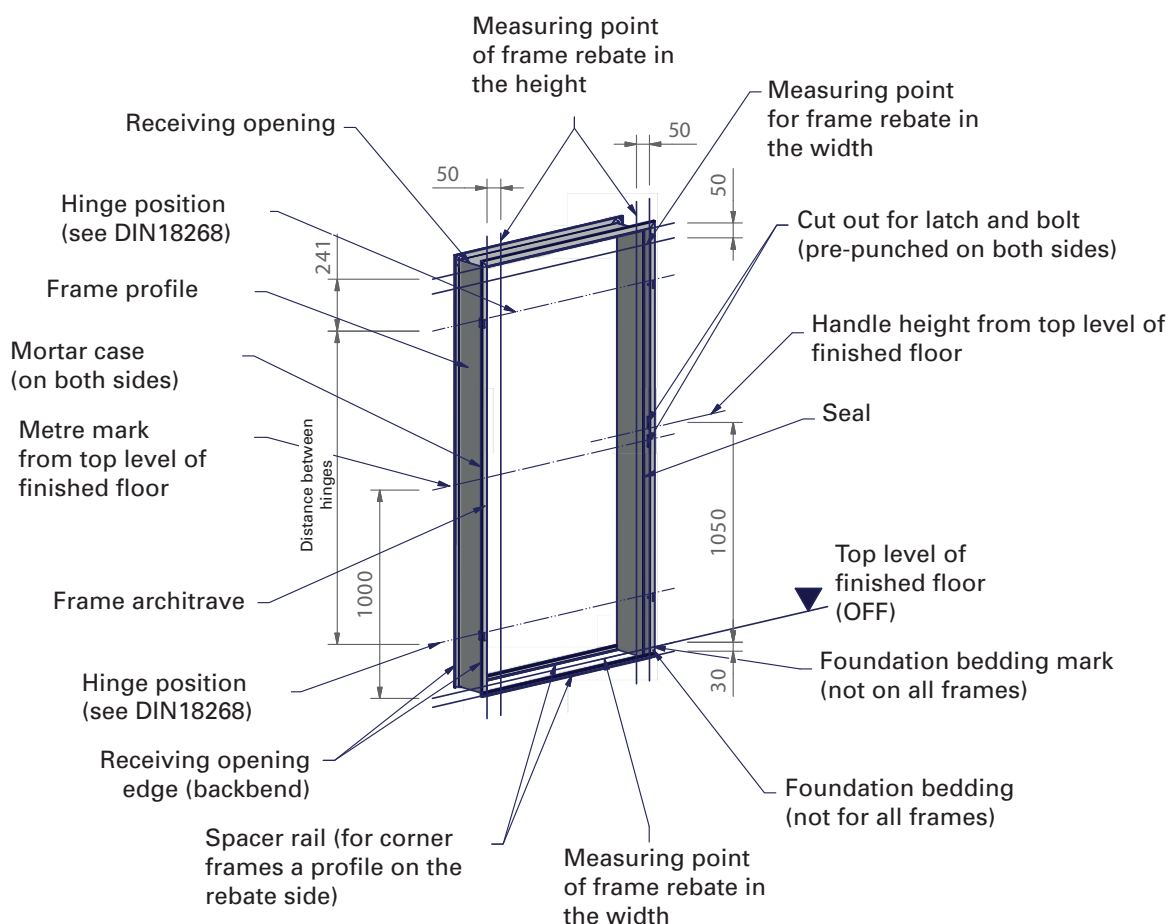
- The **completeness** of the steel frame – pay special attention to the accessories e.g. seals, installation material etc.

### 3.2 Building site/Place of Installation

Before installing the frame the state of the wall, wall opening, wall construction and materials used and the general situation on site should be inspected, special emphasis should be placed amongst others on:

- **Metre mark**  
The provision of the required metre mark and measuring points and their upkeep until approval of the work dependant on them are the responsibility of the client.
- **Wall opening measurements**
- **Wall thickness**

It should be checked whether the steel frame conforms to the planning specifications of the client (e.g. width and height measurements, hinge pockets, opening directions etc.).



Picture 1 – Terms of a steel frame

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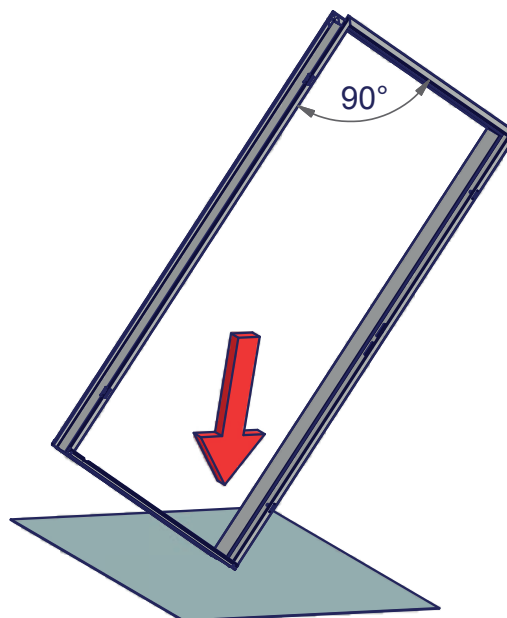


Deviations from the specifications should be notified in writing and any misgivings should be asserted before further processing or installation of the frame.

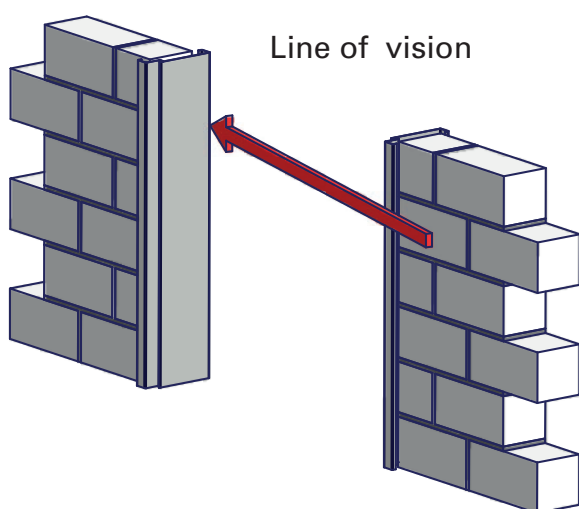
## 4. Installation

### 4.1 General requirements

The angularity of the frame should be checked before installation – if necessary, align by carefully pushing the left or right side part at the corner (see Picture 2).



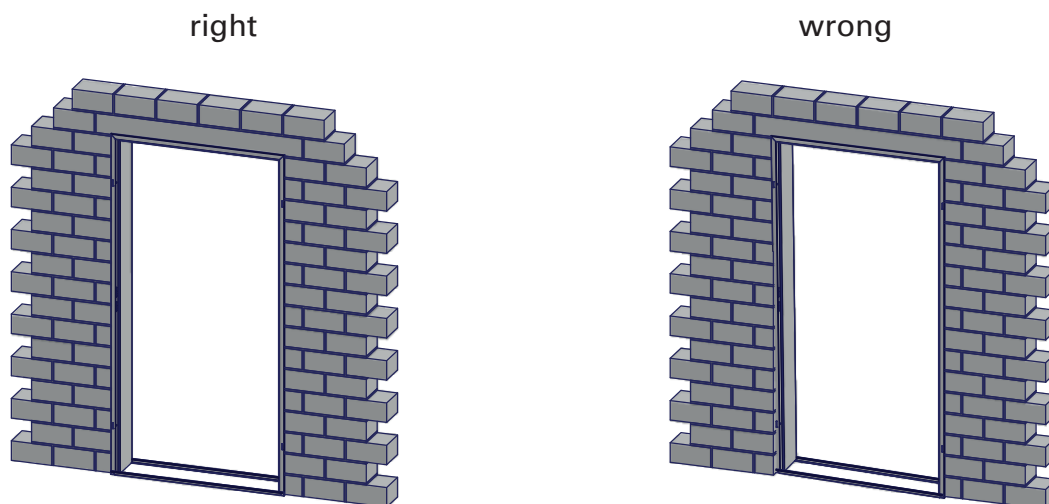
Picture 2 – Angularity of a steel frame



Picture 3a – Perpendicular installation of steel frames

The steel frame should be aligned and fixed according to the metre mark. The tolerance in height to the metre mark may not exceed  $\pm 1\text{mm}$ .

The steel frame should be aligned vertically and horizontally (see Pictures 3a and 3b). The tolerances; i.e. the deviations from the horizontal and vertical specifications may each amount to  $\pm 1\text{mm}$  per metre.

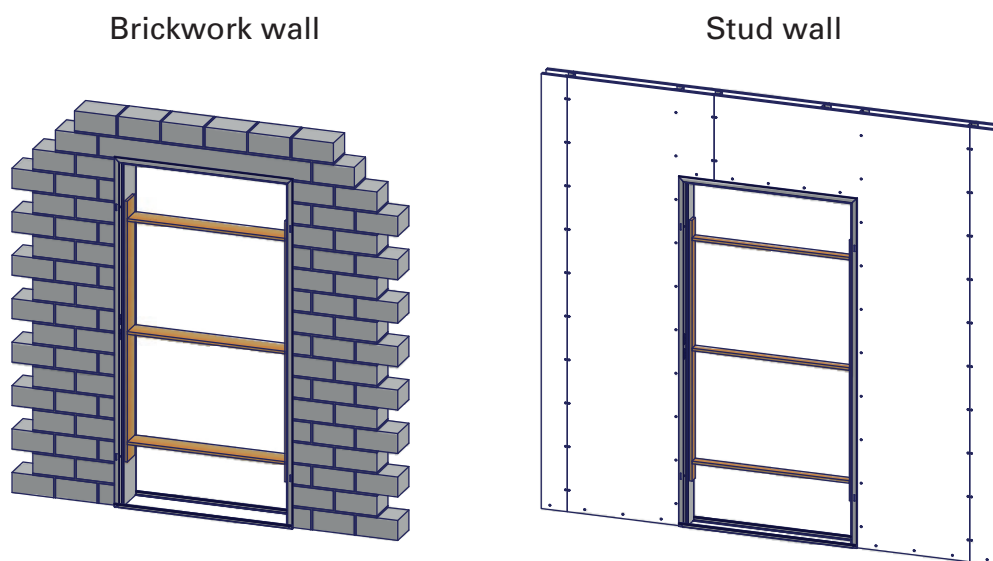


Picture 3b – Perpendicular installation of a steel frame

The required metre marks and measuring points must be adhered to up until approval – this task is the responsibility of the client.

The required measurements and tolerances should be checked with suitable measuring tools.

The slightly in X form prestressed, lightly inwardly curving steel frame should be splayed so that the steel frame rebate measurement is upheld over the whole height (see Picture 4).



Picture 4 – Evening out the deflection of a steel frame

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## 4.2 Special requirements

The installed steel frames should be further processed according to type:

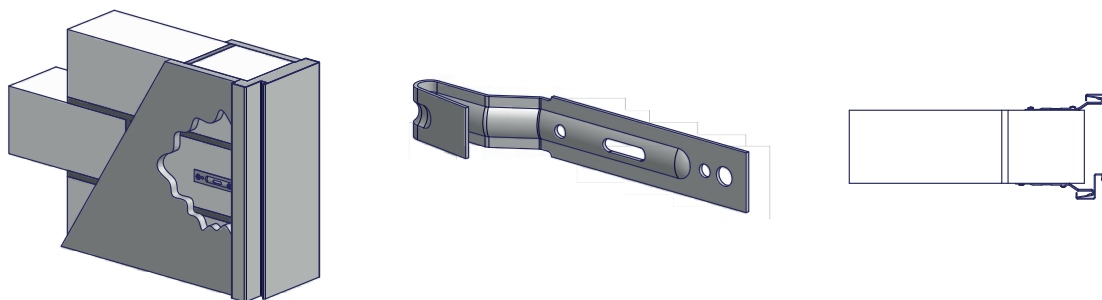
### 4.2.1 Steel frames in brickwork walls

Sequence of necessary measures:

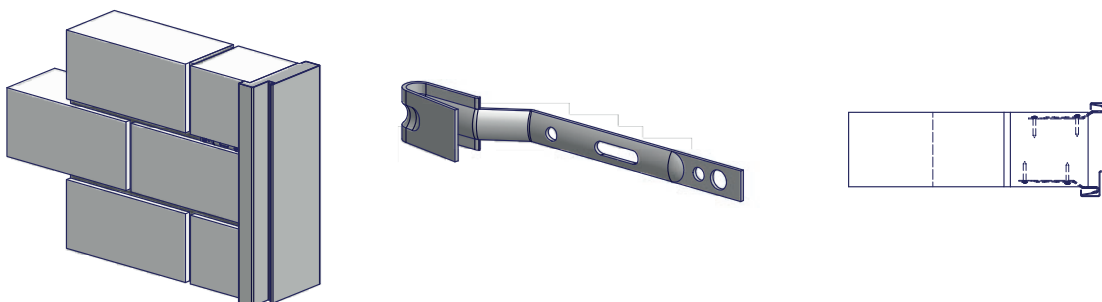
- Position the steel frame in the wall opening
- Mark/prepare the hinge pockets/lock case
- Remove the hinge pockets/lock case
- Prepare any necessary openings needed for backfilling

**Note:** Installation foam and fluid backfill materials require an additional sealing of the hinge pockets and lock cases.

- Place steel frame in position
- Align in the perpendicular and splay, line the steel frame (in accordance to the metre mark) and position spacer rails.
- Create a connection between the anchor and the brickwork

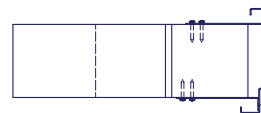
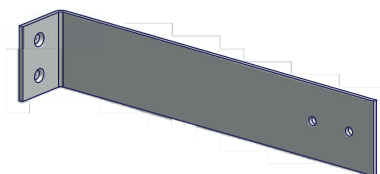
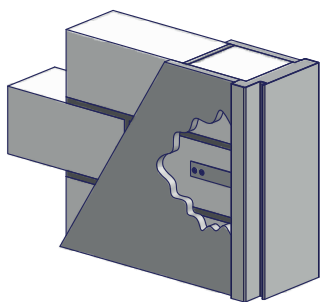


Nail anchor (supplied unattached)

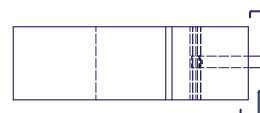
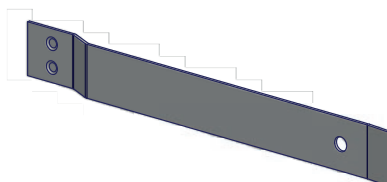
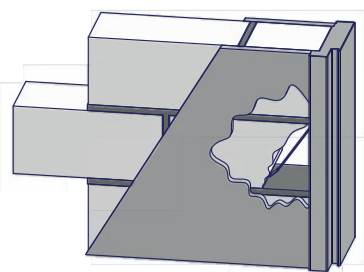


Joint anchor (supplied unattached)

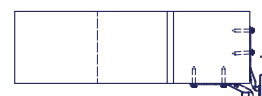
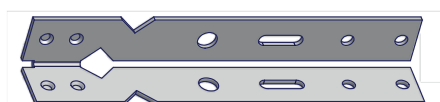
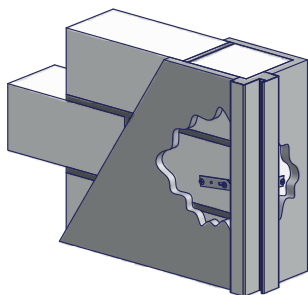
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Pre-fixed nail/dowel anchor



Pre-fixed brick anchor



Pre-fixed corner frame expansion anchor

- Control the measurements before backfilling
- Steel frame rebate measurements (width and height)
- Backfilling

The materials to be used for **backfilling** are to be stated by the client:

- Backfilling material

Standard mortar 4:1, earth-moist (DIN 1053-1)

Steel frame grouting compound

2 component expansion foam (expansion adhesive, stable in shape)

**The following may NOT be used:**

Filling materials which coalesce with other materials which could lead to corrosion or chemical reactions (e.g. antifreeze)

1 component expansion foams

Pure gypsum mortar

- Mortaring

When inserting the mortar the following points should be heeded:

- The cavity between the steel frame and the wall should be completely filled.
- A firm bond to the wall is provided, not to the steel frame
- Due to the residual stress of the cold formed sheet and the contraction process of the mortar, a separation between the sheet surface and mortar can arise in the area of the soffit. An installation fault cannot be derived as a consequence.

- Foaming

When foaming the following points should be heeded:

- The adherent surfaces should be clean and free of dust. The application temperature should not be below 5°C. The application instructions of the foam manufacturer should be followed.
- The cavity between the steel frame and the wall should be completely filled.
- Installation foams provide a firm bond to the wall and to the steel frame.

- Remove the transport aids/spacer rails and the splays

The transport aids/spacer rails and the splays must be removed once the backfilling has set. Knocking the parts should be avoided

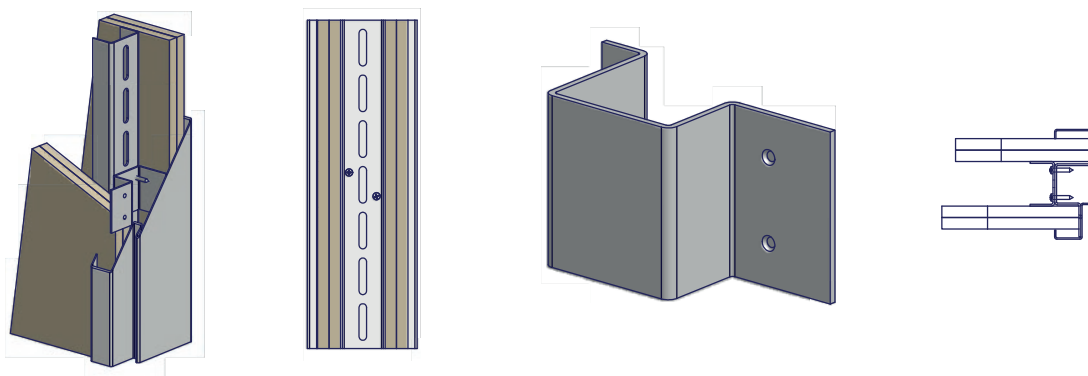
## 4.2.2 Steel frames in stud walls / mounting walls

Sequence of necessary measures:

- The steel frame should be aligned in the perpendicular and supported with splays (see Pictures 3a, 3b and 4).
- The steel frame is fastened to the UA profile on one side. Hereby the distance between the receiving opening edges and the UA profile has to be determined.
- The steel frame is fastened to the second UA profile.

Note: Self-drilling screws of a sufficient size must be used during installation in order to ensure a permanent and secure join. Two screws per anchor must be used, diagonally positioned.

- Anchor Types



Picture 5 – Use of cap anchors

- Cap anchor

- Control the measurements before panelling
  - Steel frame rebate measurements (width and height)
- Remove the transport aids/spacer rails and the splays

The transport aids/spacer rails and the splays must be removed once panelling has taken place. The fastening holes from the spacer rails should be closed during the final treatment of the steel frame.

## 4.2.3 Non-standard steel frames

The above stated installation requirements apply to non-standard steel frames according to DIN 18111-3.

For non-standard steel frames which do not fall under the area of validity of DIN 18111 Part 3 (e.g. two part split steel frames, three part steel frames...), the instructions given by the manufacturer and the planning specifications should be followed. This is particularly applicable for installation due to the different designs of the steel frames.

## 5. Measurement verification of installed steel frames

- The rebate measurement (reference size) must be measured 50mm below the horizontally lying rebate edge as well as in the middle and in the area of the foundation bedding mark (see Picture 1).  
Measurement tolerance: +2-1mm
- The rebate measurement in the height should be checked on the vertical profiles (see Picture 1). Measurement tolerance between the bottom edge of the steel frame and the lintel part:  $\pm 2\text{mm}$
- Check the height tolerance to the metre mark.  
Measurement tolerance:  $\pm 2\text{mm}$

## 6. Recommendations / Notes

- Adjustment tabs

The adjustment tabs on the lock and latch hole cut outs can be modified during the fine adjustment of the door leaf (tolerance compensation).

- Foundation bedding mark

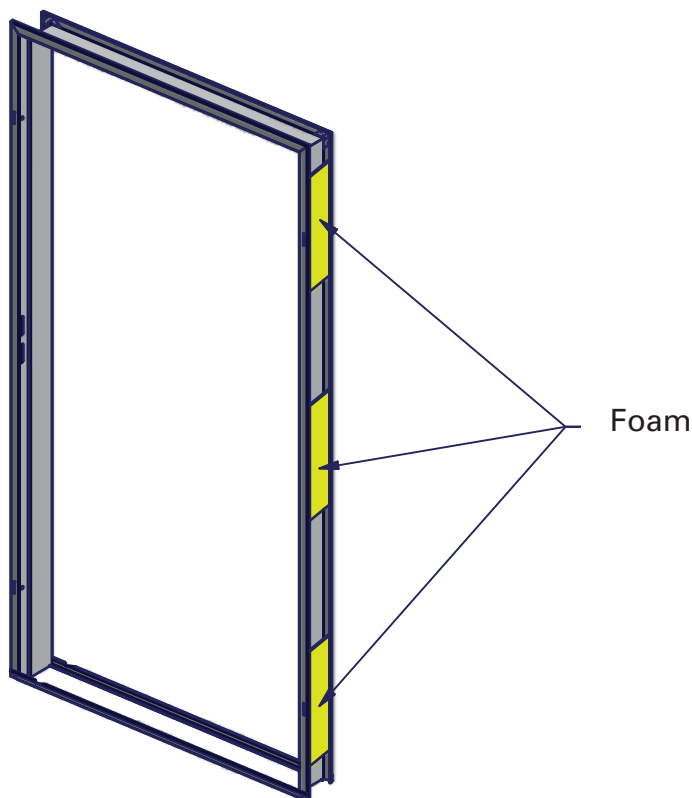
The foundation bedding mark (OFF) marks the height of the finished floor (i.e. screed + flooring material).

- Height splays

For wide steel frames (e.g. double leaf steel frames), the steel frame rebate measurement in the height should be checked and upheld by using splays before backfilling

- Backfilling with foam

A partial backfilling of at least 50% of the cavity between the wall and the steel frame can be agreed upon between the contractor and the client. In this case, the installation foam should be placed where the strain on the frame is highest, e.g. in the area of the hinges and lock (see Picture 6).



Picture 6 – Position of the areas to be foamed

- Seal(s), Paint / Paint compatibility

The seal should be checked for paint/varnish compatibility by the decorator. A compatibility test according to VOB (German Construction Contract Procedures) must be carried out. Also see the instructions of the steel frame manufacturer.

- Residual mortar/foam

Residual mortar or foam should be removed from the steel frame directly after backfilling.

- Mechanical damage

According to VOB (German Construction Contract Procedures), any mechanical damage to the primer should be corrected during the final treatment.

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Guidelines for the installation of steel frames

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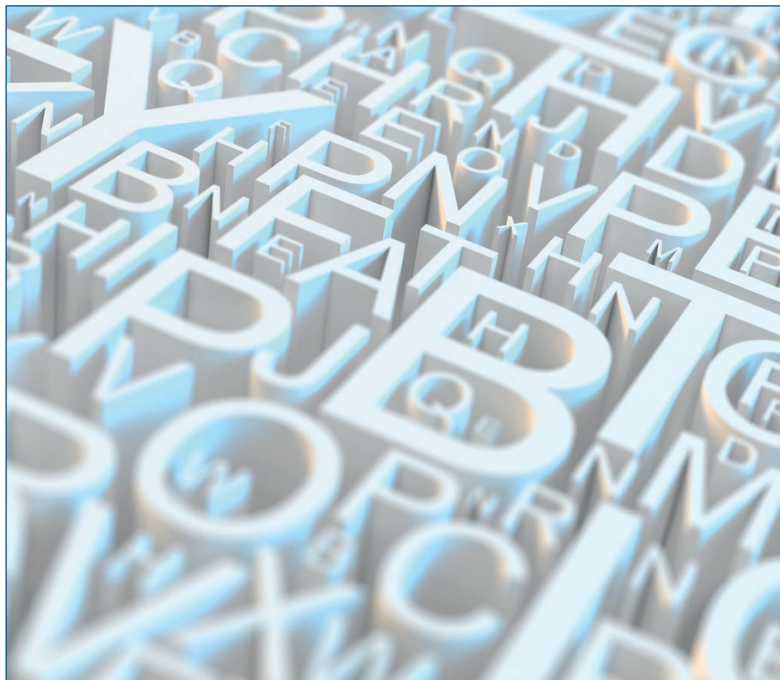
Graduate Engineer Olaf Heptner

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Here you can find extra information and explanations to the specialist terms that are used in the Compendium.



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### 2 Part Split Steel Frames

2 part split steel frames are used for subsequent installation. The front and back parts of the steel frame are placed separately into the wall opening opposing each other. The join between the two parts can be disguised (screwed in the rebate) or left visible.

(further information Chapter 5)

### 3 Part Steel Frames

3 part steel frames are delivered in three parts, the headpiece and two side parts. This is a big advantage for transport reasons in the export field. The frame is then assembled on-site and installed in the same manner as a 1 part frame. For subsequent installation: The frame can be installed in the existing wall using sinkholes in the architrave (note the structural wall measurements).

(further information Chapter 6)

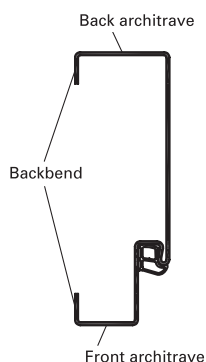
### Anchors (Anchor Systems)

The steel frame is fastened to the wall using anchors. Various types of anchors are used, depending on the type of wall and design of the steel frame. Some anchors are pre-fixed, others are supplied separately.

(further information Chapter 13)

### Block Frames

BOS block frames have different architrave measurements so that the backbends at the front and back are level. These can be installed flush with the wall as well as encompassing the wall.



As a rule, block frames are installed in stud walls during the completion of the wall.

(further information Chapter 3)

### Burglar Resistant Steel Frames

Burglar resistant steel frames are mainly used for entrance doors. Additional attachment parts such as multi-point locks, hinge side security or lock hole reinforcements and the corresponding provisions in the steel frame give the door element a high level of protection against breaking and entering.

### CasePlus Solutions

CasePlus Solutions are systems for the professional housing of technical door components and other elements of building technology. The electronics are protected yet readily accessible for modification or maintenance. Wall, frame and door can be harmoniously designed as the building elements are concealed within the CasePlus Solutions.

(further information Chapter 11)

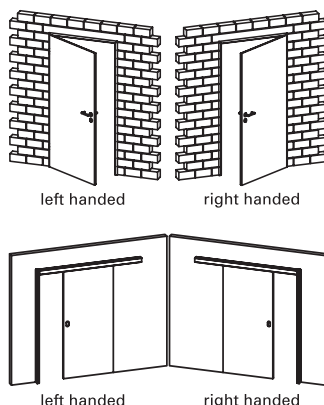
### Concealed Hinges

These hinges are not visible when the door is closed and the lack of a hinge knuckle gives an attractive appearance.

(further information Chapter 14)

### DIN Directions

DIN directions are the opening directions of the door leaves.



(further information Chapter 2 and 9)

### Earthing Contact or Screw (Potential equalisation)

The earthing contact or screw deflects static charge.

### Fire Protection

(FlamTec; F30; F90; G30, G90)

The term fire protection covers all measures which are taken to prevent the outbreak of a fire and the spreading of fire and smoke. In some buildings the glazing elements must fulfill certain fire protection requirements according to DIN 4102 Part 13. The demands on the building elements are different depending on the certification.

#### F30:

Glazing which protects from smoke and fire for at least 30 minutes and additionally prevents the passage of heat (fire retardant building elements).

#### F90:

Glazing which protects from smoke and fire for at least 90 minutes and additionally prevents the passage of heat (fire retardant building elements).

#### G30:

Glazing which protects from smoke and fire for at least 30 minutes but does not prevent the passage of heat (fire resistant building elements).

#### G90:

Glazing which protects from smoke and fire for at least 90 minutes but does not prevent the passage of heat (fire resistant building elements).

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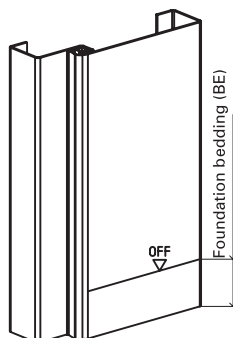
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## Foundation Bedding (BE)

The foundation bedding is the part of the frame which sits below the top level of the finished floor (OFF). Later it is covered by the finished floor surface.



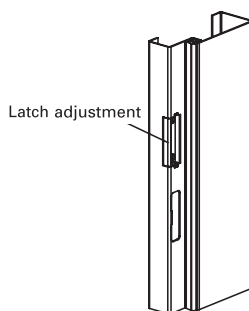
## Hinge Pockets

The frame parts of the hinges are fastened in the hinge pockets. Hinge pockets are chosen according to the hinge version and are firmly attached to the frame. There is a choice of hinge pockets depending on the type of hinge, maximum load and adjustment areas.

(further information Chapter 14)

## Latch Adjustment

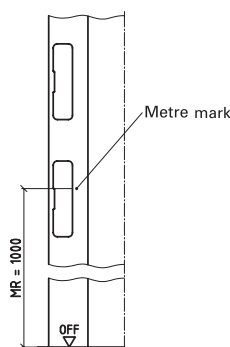
The latch adjustment is a universal door closing mechanism that is installed at manufacture. Through its adjustment the lock area can be re-aligned at a later date.



(further information Chapter 16)

## Metre Mark

The metre mark lies a distance of 1000mm from the top level of the finished floor mark (OFF) and can also be made as a notch. The installation of the steel frame takes place according to the metre mark.



(further information Chapter 2)

## Multi-point Locks

Multi-point locks are used for security doors or in entrance doors. With the corresponding provisions in the steel frame, the door element is provided with a high level of protection against breaking and entering.

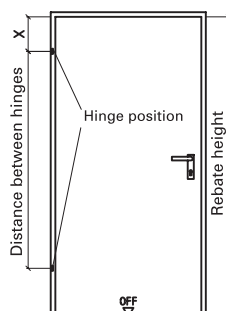
(further information Chapter 16)

## Hinge Position (BBL)

Distance between hinges (BA)

The hinge positions establish the vertical positioning of the hinges. The first hinge position (X) is measured from the rebate measurement of the frame. The distance between the hinges, which is specified by the rebate height of the frame, is the distance between the first and second hinge position.

The hinge position for a third hinge is a pre-set value.



(further information Chapter 14)

## Radiation Protection

Radiation protection frames are lined with lead (full or partial lining). Different lead equivalents (lead layers) are used depending on the type of radiation protection required. BOS steel frames with a suitable

lead lining and an approved door leaf can pass the radiation protection tests.

(further information Chapter 7)

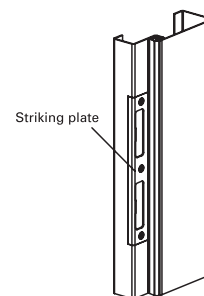
## Spacer Rails

Spacer rails are transport aids which are attached to the side parts at the bottom of the steel frame.

## Striking Plate

The stainless steel striking plate is positioned in the frame to replace the bolt and latch hole cut-out.

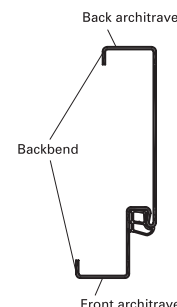
The high quality material prevents a tear-out of the bolt and latch hole cut-out as well as the peeling of the powder coating in this area, which can be caused by the opening and shutting of the door.



(further information Chapter 16)

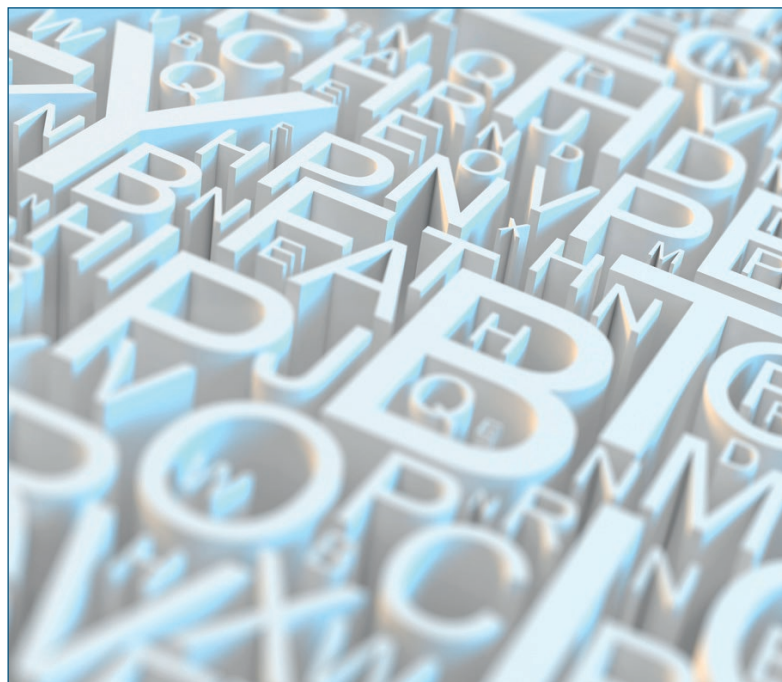
## Wrap Around Frames

BOS wrap around frames have the same architrave measurements, so that the backbends at the front and at back are not level. As a rule, wrap around frames are installed in brick walls.



(further information Chapter 3)





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