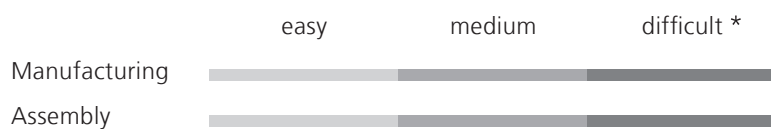


ASSEMBLY AND INSTALLATION INSTRUCTIONS

FOLDING DOOR COMFORT VERSION



*Base for the degree of difficulty is a standard sliding door without slant.
This is to be classified as ,easy' in respect of production and installation.

raumplus

_INDEX

6th edition Bremen, February 2007

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Preparation / Assembly_pages 5-8

A_Cut frame profiles

B_Affix frame around panel /screwing it on

C_Special case dividing rails

D_Plugs for punch holes

E_Affix hinges

F_Affix concealed hinges

G_Special case covering profile (optional)

H_Special case vertical handle (rod)

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Detail Drawings_pages 11-18

_GENERAL INFORMATION / TOOLS

ASSEMBLY INSTRUCTIONS FOLDING DOOR SYSTEM:

GENERAL INFORMATION

The **raumplus** folding door offers a wide range of variety and is ideal for small openings or narrow niches since it only has the possibility of opening on one side. Like with the **raumplus** sliding door a great number of different designs for panels are available: wood, glass, laminate, fabric, wall paper or metal panels and these also in possible combinations such as on top of each other, side by side or one after another.

These directions were created by people for people. We have made an effort to develop the instructions and pictures so that they are logical and easy to understand. If you should nevertheless find something to be unclear, please let us know so that we may revise that section.

Technical details are subject to change.

Get a general idea about what you want to assemble/to install. Please make sure that one pair of folding doors has a minimum width of 700 mm to 1200 mm and is not higher than 2,75 m, and not heavier than 50 kg. Do not use felt or other flexible fillings, so that a firm seat of the filling is guaranteed. Due to technical reasons, the pair folding doors cannot be completely folded together. The size is dependent upon the width dimension.

First of all, please check to see if you received all items by checking the delivery sheet. Please pay also attention to possible transport damages. In case of any damages please contact your supplier immediately.

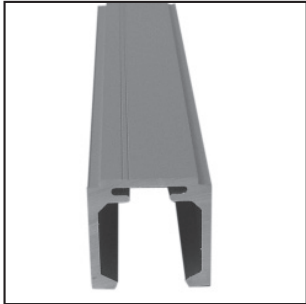
NOTE: For the exact measures please first read the Measurement Instructions (page 16). The plugs for the folding door-profile and the close top rail are unavailable at the moment. Transparent glass should not be used, because due to technical reasons the drill hole of the concealed hinge may be visible inside the guiding channel.

SAFETY ADVICE: The danger of crushing exists in the wall and center regions.

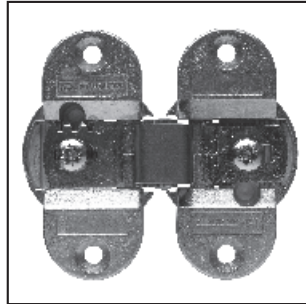
TOOLS:

Slotted screwdriver for driving band
Cross tip Screwdriver (Phillips) size 2
Allen wrench 4 mm and 5 mm
Allen wrench 2 mm (for mounting of vertical (handle) rod)
Drill, 6 mm, 3,5 mm, 2,5 mm drill bits
Drill 35 mm for concealed hinge for aluminium
Rivet tongs
Rubber mallet
Metal saw

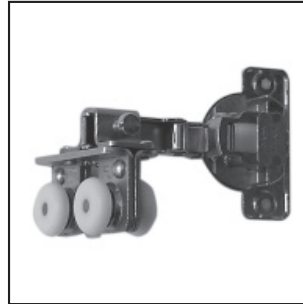
_TECHNICAL TERMS



1_



2_



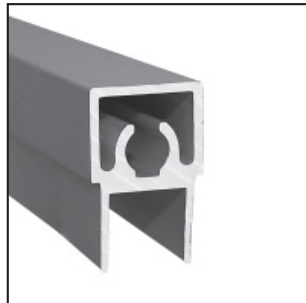
3_



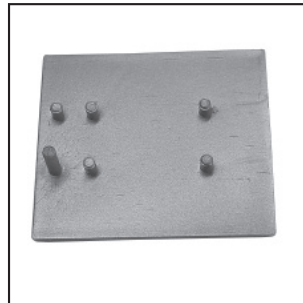
4_



5_



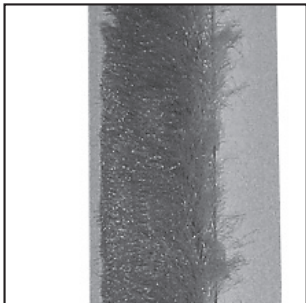
6_



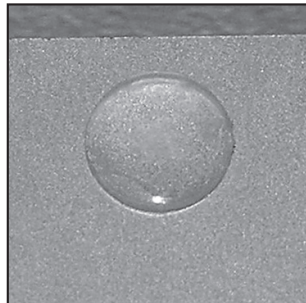
7_



8_



9_



10_

1_ Folding door track (15.55.020)_to guide the folding door at the top.

2_ Hinge (door connection for folding door (10.02.013))_to connect both door elements.

3_ Top guiding for folding door (10.02.010)_

4_ Concealed hinge (lateral connection) for folding door (10.02.012)_to fasten the door, is to be clipped onto the mounting plate.

5_ Vertical profile asymmetrical (15.51.020)_forms the folding door frame together with top / bottom rail (15.12.020).

6_ Top / bottom rails (15.02.020)_form the folding door together with the vertical profile frame.

7_ End cap folding door (10.08.15x)_

8_ Stopper for top guiding (10.05.060) (also for top roller „AIR“)_prevents the doors from slipping out.

9_ Dust excluding brush for folding door (10.07.520)_serves as protection during the opening / closing of doors, from impact of the doors with the outer sides, and to seal the crevices (spaces) between the door and the wall and between doors.

10_ Rubber impact buffer (10.02.017)_to protect the door and wall against impact.

Panels_the door panels are available in many different colors and materials. In this case the panels are dependent upon the dimensions and weight.

_PREPARATION / ASSEMBLY

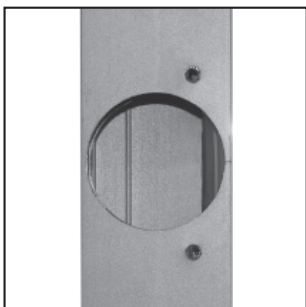
PREPARATION:

After having unpacked and checked the items you can start your assembly work. We recommend reading these instructions carefully before starting.

ASSEMBLY / INSTALLATION:

You will find detailed descriptions of the assembly steps in the following chapters. It is important that you follow these steps in correct order otherwise your sliding door system could get damaged.

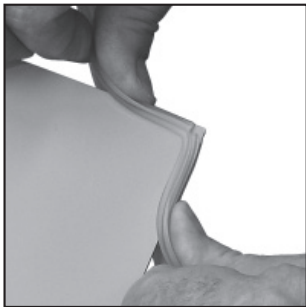
A_CUT FRAME PROFILES:



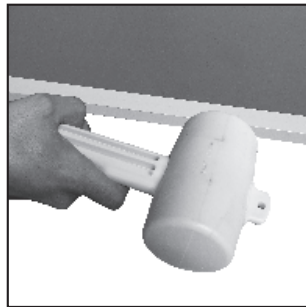
- 1**_Mark the cutting points.
- 2**_Cut profiles – in any case please use a metal chop saw with a negative-hook blade. For determination of the measures please take in to account that the bottom rail rests against the vertical profile.
- 3**_Clean the cut surfaces carefully.
- 4**_Cut dividing rails (according to the top / bottom rails).
- 5**_Punch or drill holes for profiles and top guidings (rollers).

_ASSEMBLY

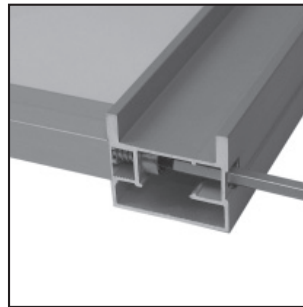
B_AFFIX FRAME AROUND THE PANEL / SCREWING IT ON:



1_



2_



4_

1_Put the panel on a table (**Special case: Only for mirror and glass panels:** Pull the gasket around the glass panel: Start in the middle of the top rail, cut a bit into the gasket approx. 2 mm before the corner, pull it around the corner).

2_Put the top rail onto the panel and attach it with the help of a rubber mallet.

3_Affix the bottom rail.

4_Press the stiles onto the panel and screw them together with top / bottom rail.

Fasten all profiles with a rubber mallet!

C_SPECIAL CASE DIVIDING RAILS:



1_Put profiles, panels and dividing rails together (see picture), but do not screw them together yet.

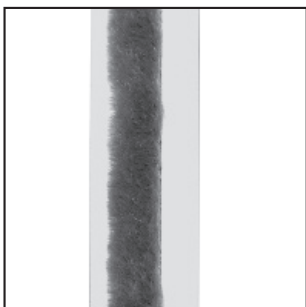
2_Mark place for the drill holes with a pencil.

3_Drill the outer side with a 6 mm drill and then with an 8,5 mm drill.

4_Now screw them together.

NEW: Plugs for dividing rail (10.07.35x) and screw (10.07.008).

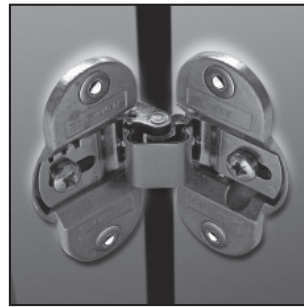
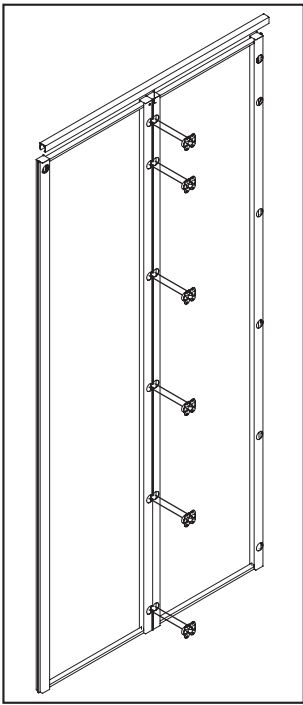
D_PLUGS FOR PUNCH HOLES:



Glue the dust excluding brush onto the side of the profile that touches the wall. Front doors need an additional dust excluding brush on the rear side. Cover the remaining punch holes with plugs.

_ASSEMBLY

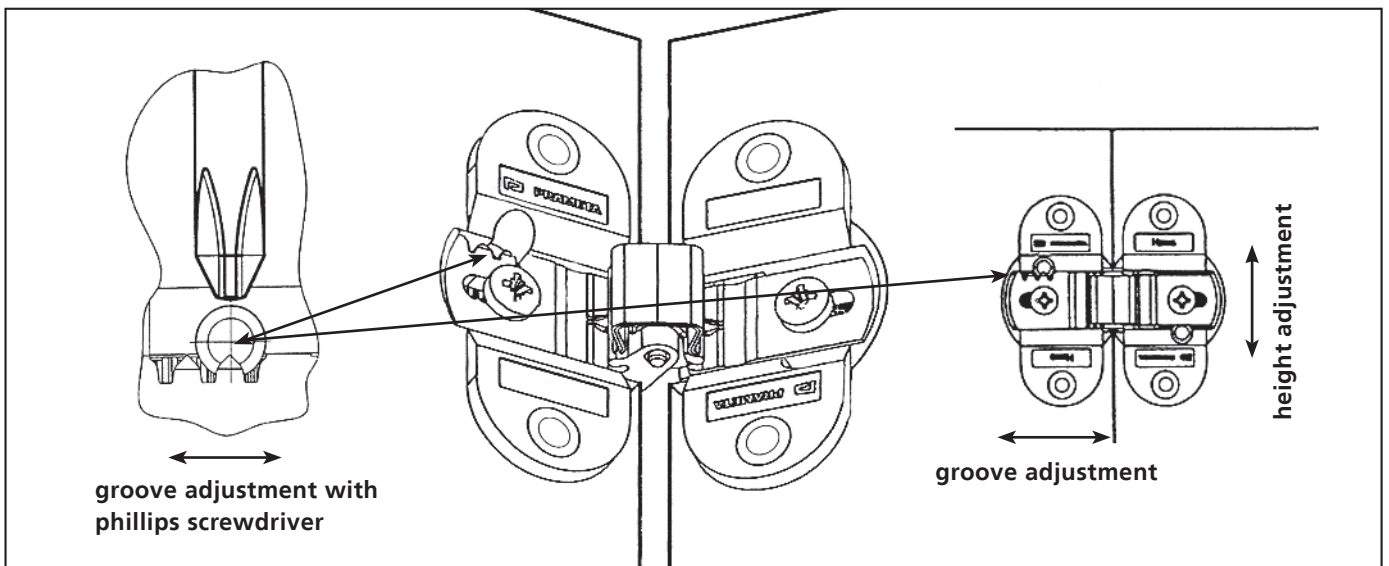
E_AFFIX HINGES:



1_The number of hinges for the doors is determined by the door height /width (see page 16). With especially narrow doors there is the possibility of reducing the number of hinges and concealed hinges used (see page 13).

2_Drill holes and affix hinges. The hinges are to be affixed with aluminium blind rivet counter sunk W-937 2, 4,0 x 9,5.

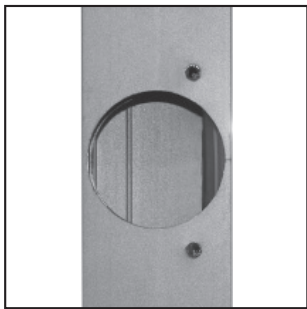
NOTE: Please pay attention when adjusting the groove (1,0 mm) that the axis of the above mentioned hinge is in the center of the groove. All hinges must be aligned equally.



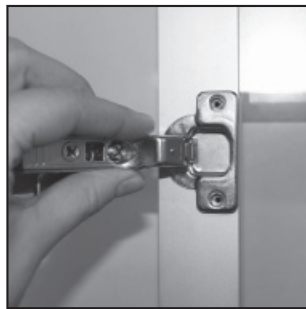
3_Hinge position options for the adjustment of the door.

_ASSEMBLY

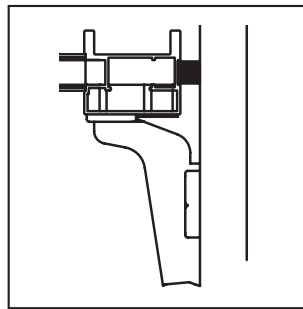
F_AFFIX CONCEALED HINGES:



1_



2_



3_



4_

_Clamp the profile and drill a hole into the profile with the 35 mm drill for concealed hinges. Then put the concealed hinge (without mounting plate) and screw them in (see pages 12 and 16).

_The concealed hinges are to be affixed with a counter sunk screw C, DIN 7982, 3,8 x 13 mm.

G_SPECIAL CASE COVERING PROFILE (OPTIONAL):



In case the folding door shall be used as an ordinary door, you can cover the concealed hinges with a covering profile (see detail drawings pages 14-15).

H_SPECIAL CASE VERTICAL (HANDLE) ROD:

Please note: The exact assembly / installation is found in the handle instructions.

The centre handle is not necessary however it facilitates the ease of use when closing the door or drawer (see page 12).

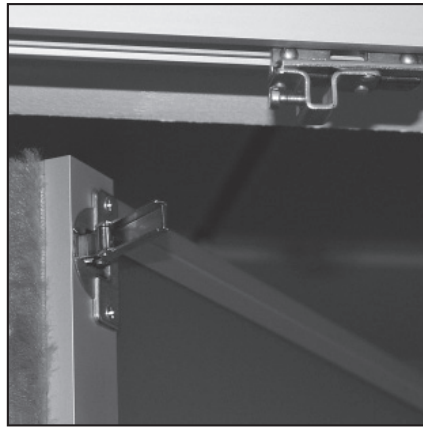
_INSTALLATION

INSTALLATION INSTRUCTIONS FOLDING DOOR SYSTEM:

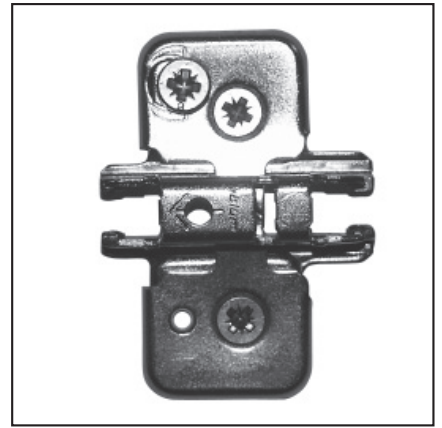
Detailed descriptions for the single installation steps are found in the following chapters. It is important that you follow these steps in correct order; otherwise your folding doors could be damaged.



1_



2_



3_



4_



5_



6_

Before installing the folding door track you have to push the top guiding into it. (picture 1).

_Then install the folding door track with great accuracy. The position is determined by the folding door (detail drawing page 11).

_Position the folding door (hinge side) on the wall so that the middle of the concealed hinge can be drawn on.

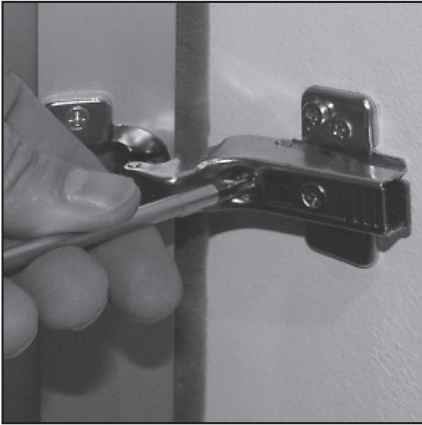
Attention: When doing this please compensate for the height at the bottom of the doors - up to 10 mm!

The points needed for attaching the mounting plates (picture 3) are set one above the other, in one line (see page 11).

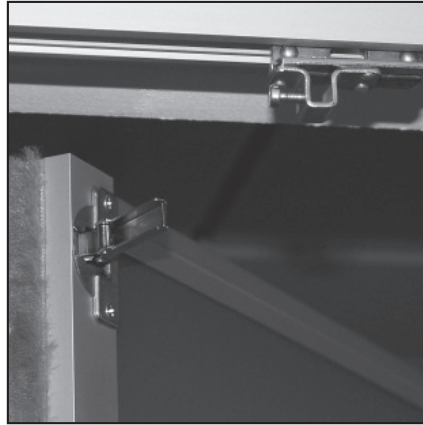
_Depending on the condition of the wall now fasten the mounting plates with great accuracy.

Take the screws for distance adjustment out and clip the concealed hinges onto the mounting plates (picture 6).

_INSTALLATION



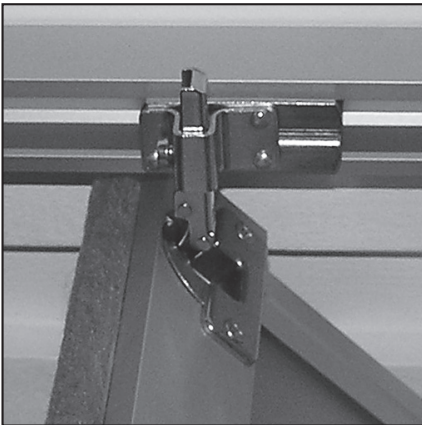
7_



8_



9_



10_



11_



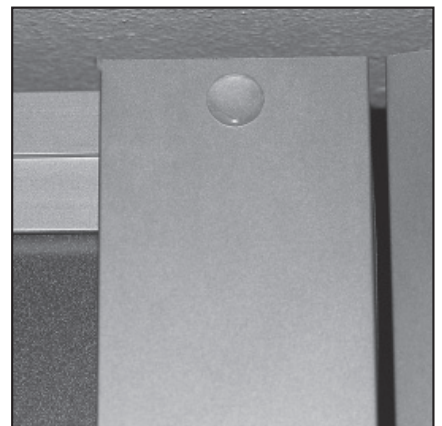
12_

Now adjust the concealed hinges (picture 7).

Connect the door guiding with the guiding roller fastener (pictures 8 to 10_).

Insert the stopper into the guiding track and place it into a position so that the door wings do not collide when they are opened and closed (pictures 11 and 12_).

Glue on the dust excluding brush and rubber impact buffer (picture 13).

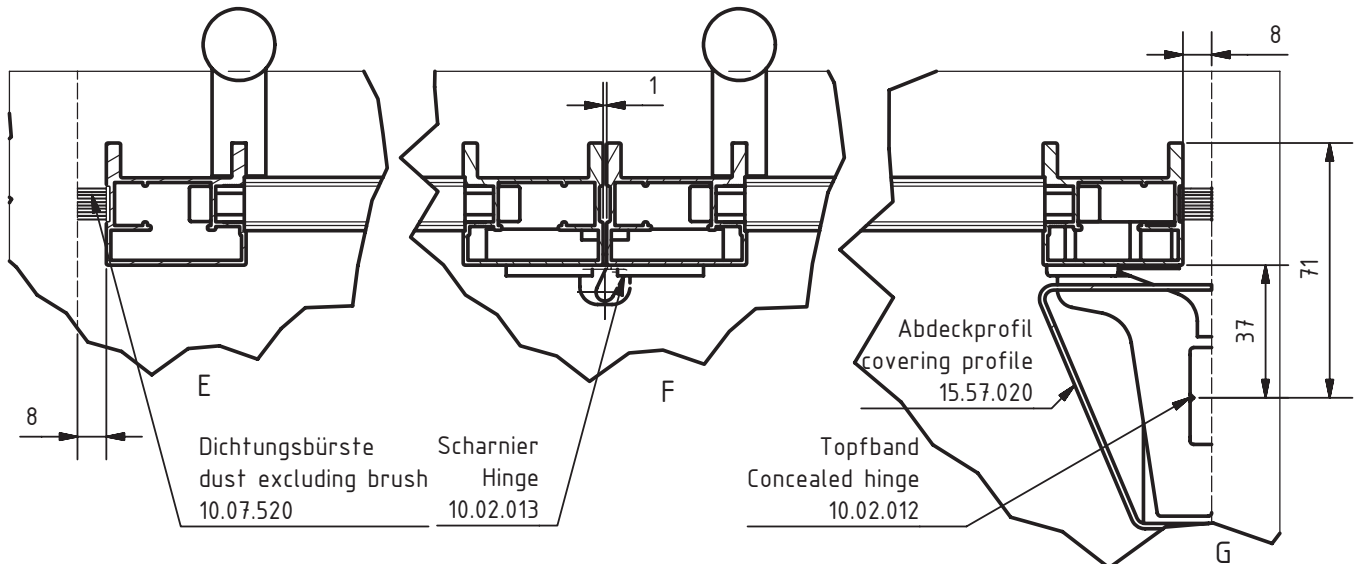
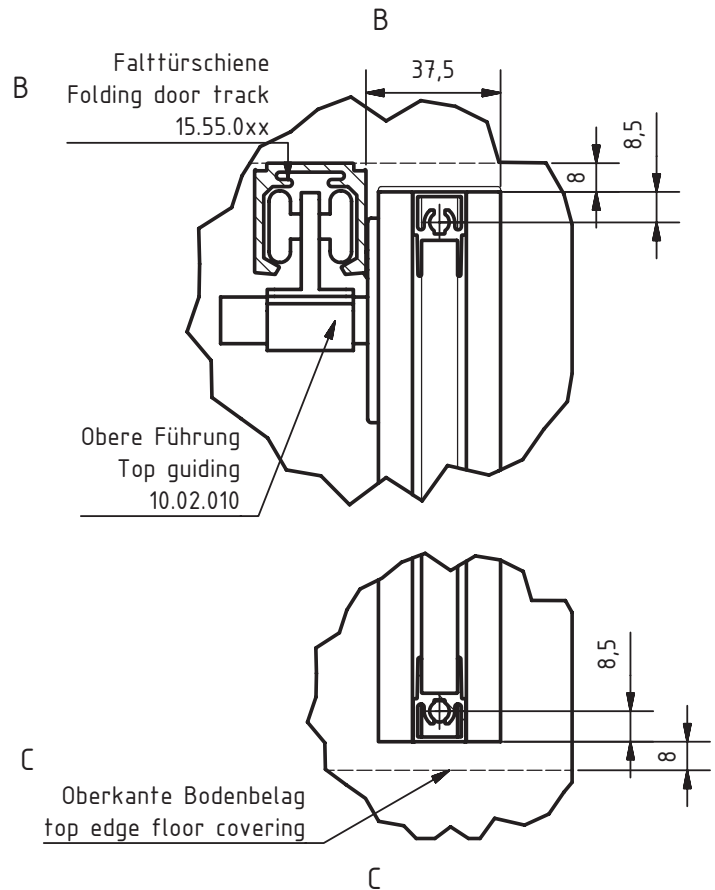
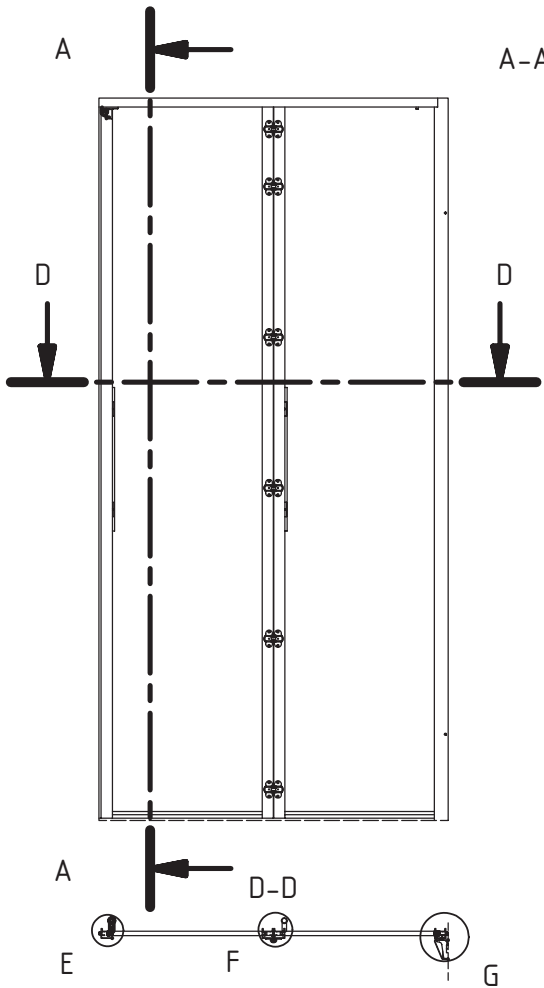


13_

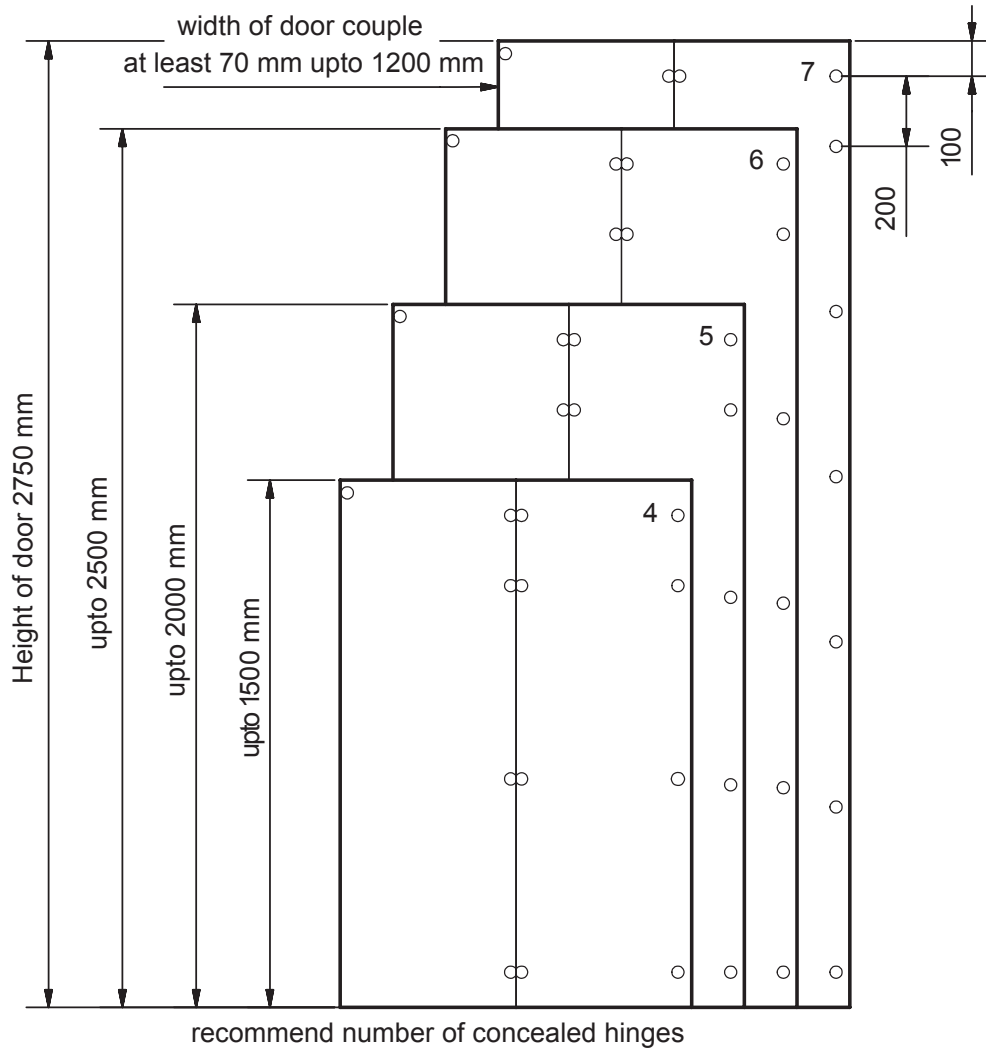
DETAIL DRAWING



_DETAIL DRAWING



_DETAIL DRAWING



Remarks:

1. Cutting measure:

width of door = (opening width - 17 mm) : 2
height of door = opening height - 16 mm

2. Measure of panel (ref. size of door):

cutting measure height of door - 33 mm
cutting measure width of door - 65 mm

3. Measure of stile:

cross section, diving rail = width of door - 78 mm

4. Weight:

max. 50 kg

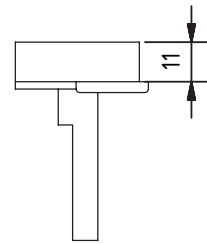
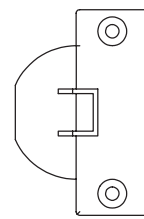
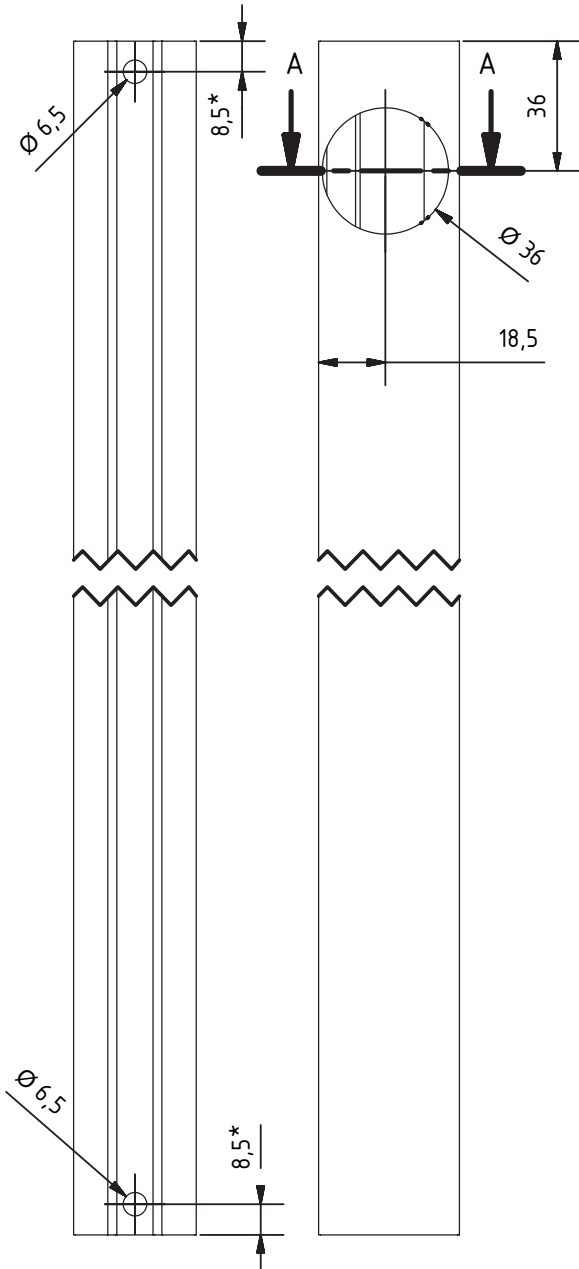
5. Measures:

max. 2750 mm x 1200 mm (at least 700 mm)

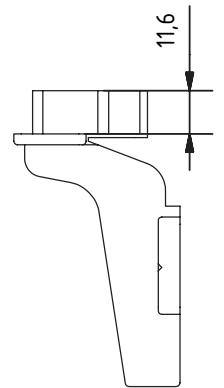
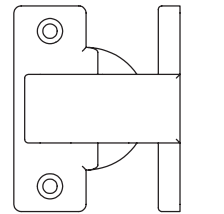
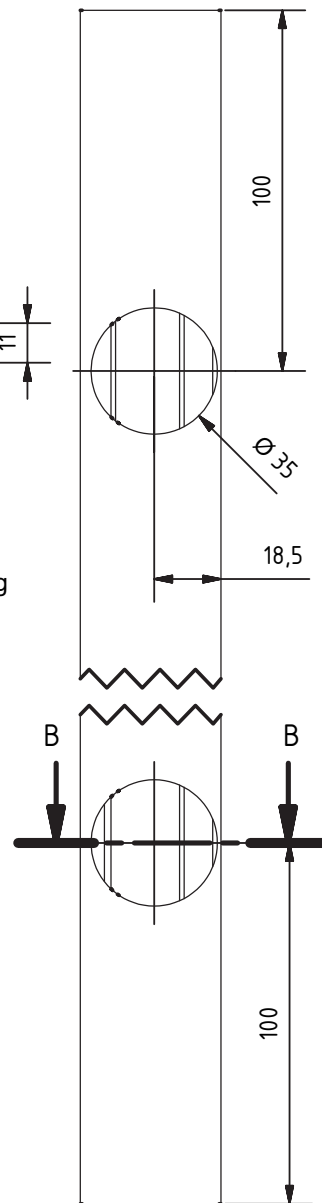
_DETAIL DRAWING

Bohrbild Führungsseite
drilling image guiding side

Bohrbild Anschlagseite
stopping side

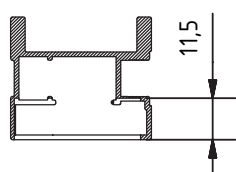
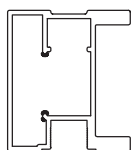


Obere Führung
Top guiding
10.02.010



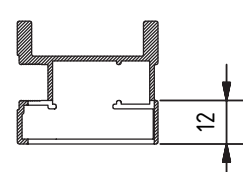
Topband
Canceled hinge
10.02.012

14_15



A-A

Tiefe der Bohrung
depth of drilling

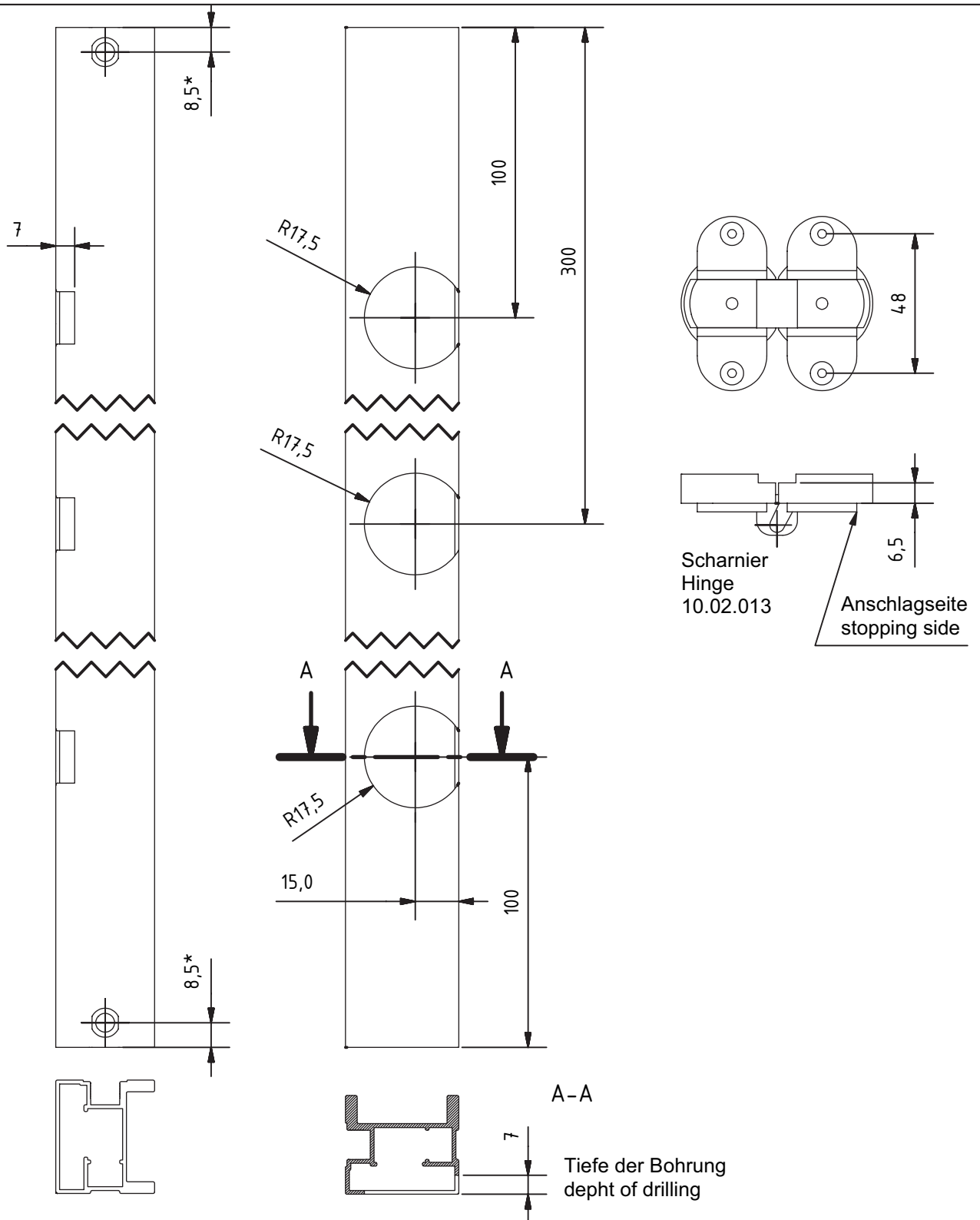


B-B

*ACHTUNG! Standard Gleittürmaß (7,0 mm) zuzüglich 1,5 mm.

*NOTE! standard sliding door measure (7,0 mm) plus 1,5 mm.

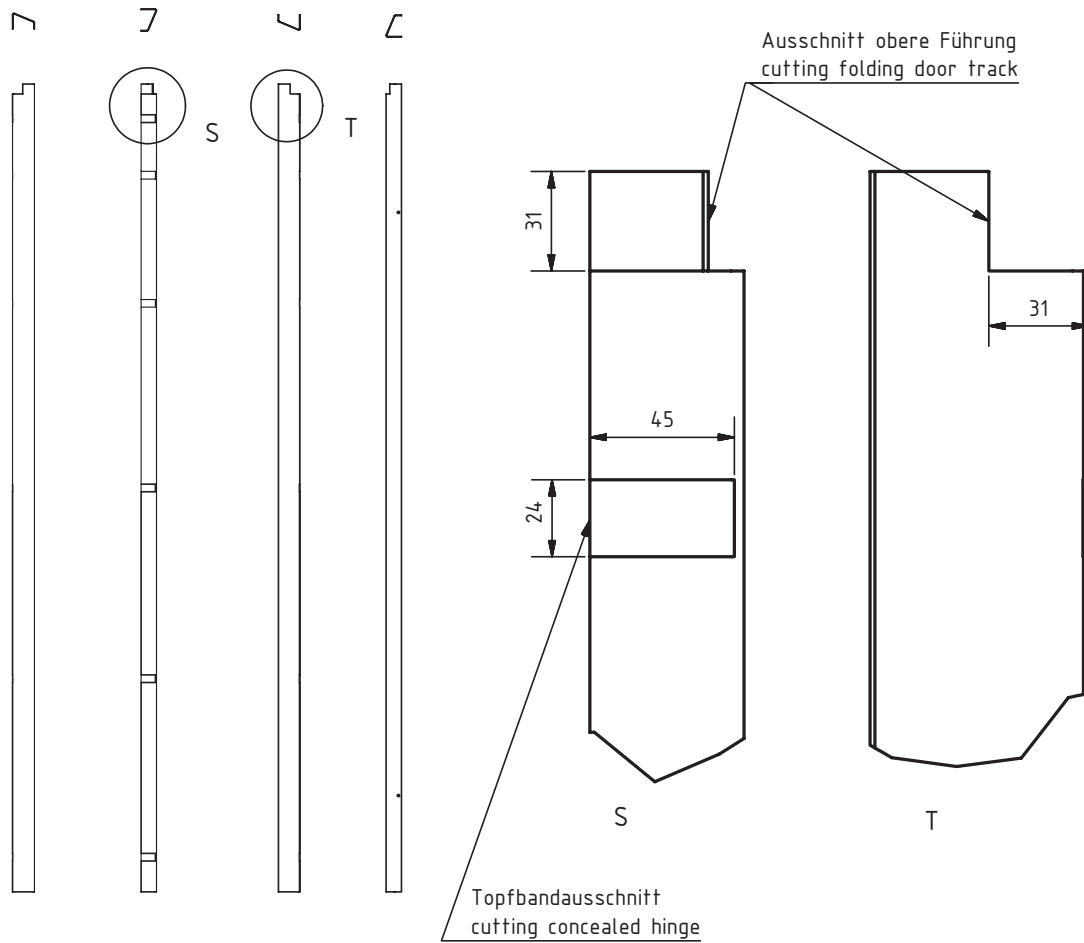
_DETAIL DRAWING



*ACHTUNG! Standard Gleittürmaß (7,0 mm) zuzüglich 1,5 mm.

*NOTE! standard sliding door measure (7,0 mm) plus 1,5 mm.

_DETAIL DRAWING

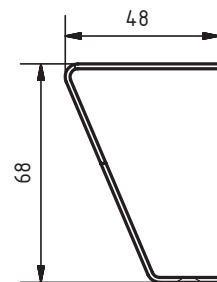


Anlieferungszustand (manufacturing store):

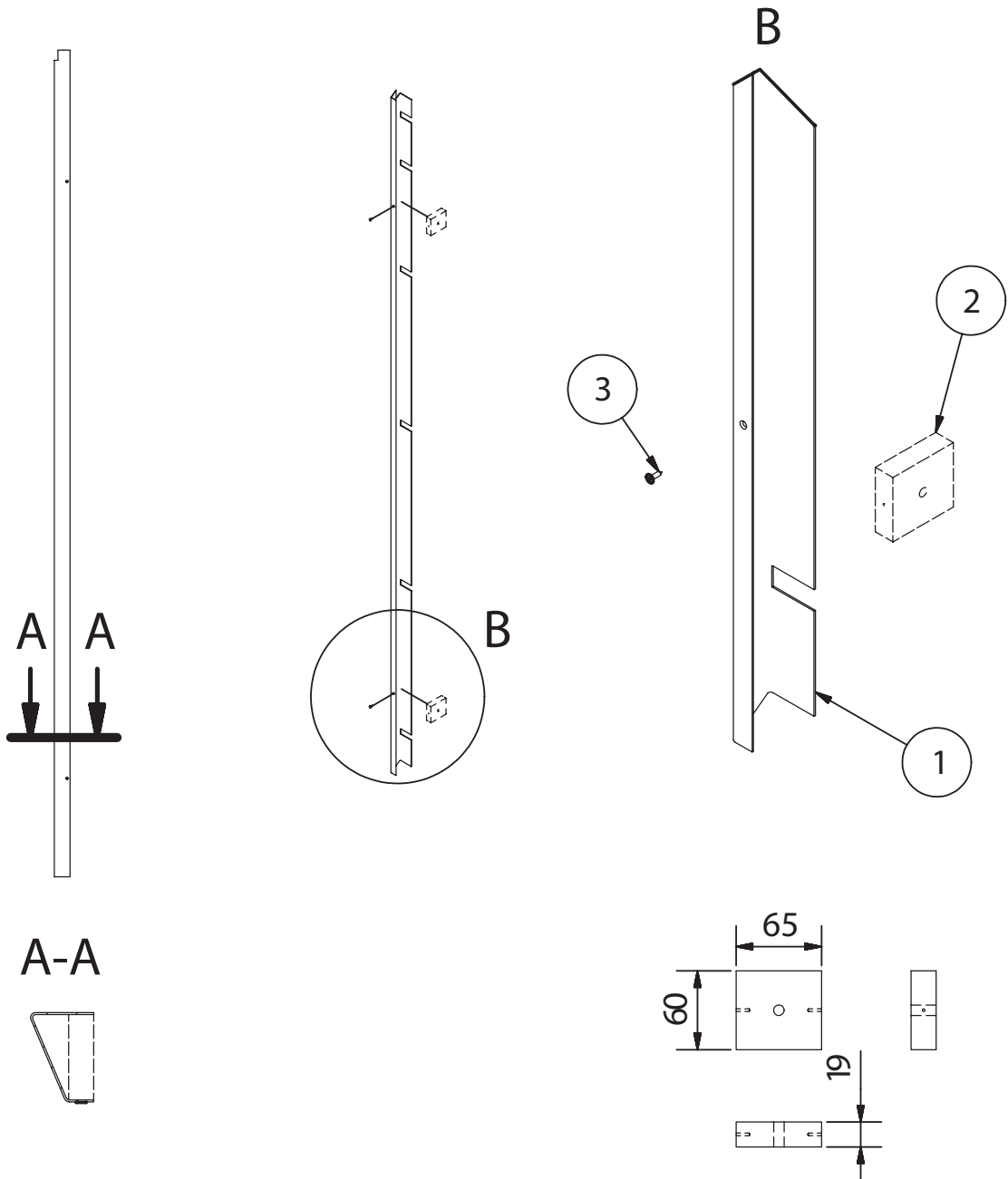
- * Länge (length): 3000mm
- * Oberfläche (surface): silber (silver) E6/EV1
- * ohne Ausschnitte, Bohrungen und Befestigungsmaterial
without cuttings, borings and mounting material

Bemerkungen (remarks):

- * Abdeckprofil entsprechend der lichten Höhe anpassen.
remarks cover profile adjusted according to the opening height
- * Ausschnitte gem. Topfbandaufteilung
cuttings according to the partition of concealed hinge



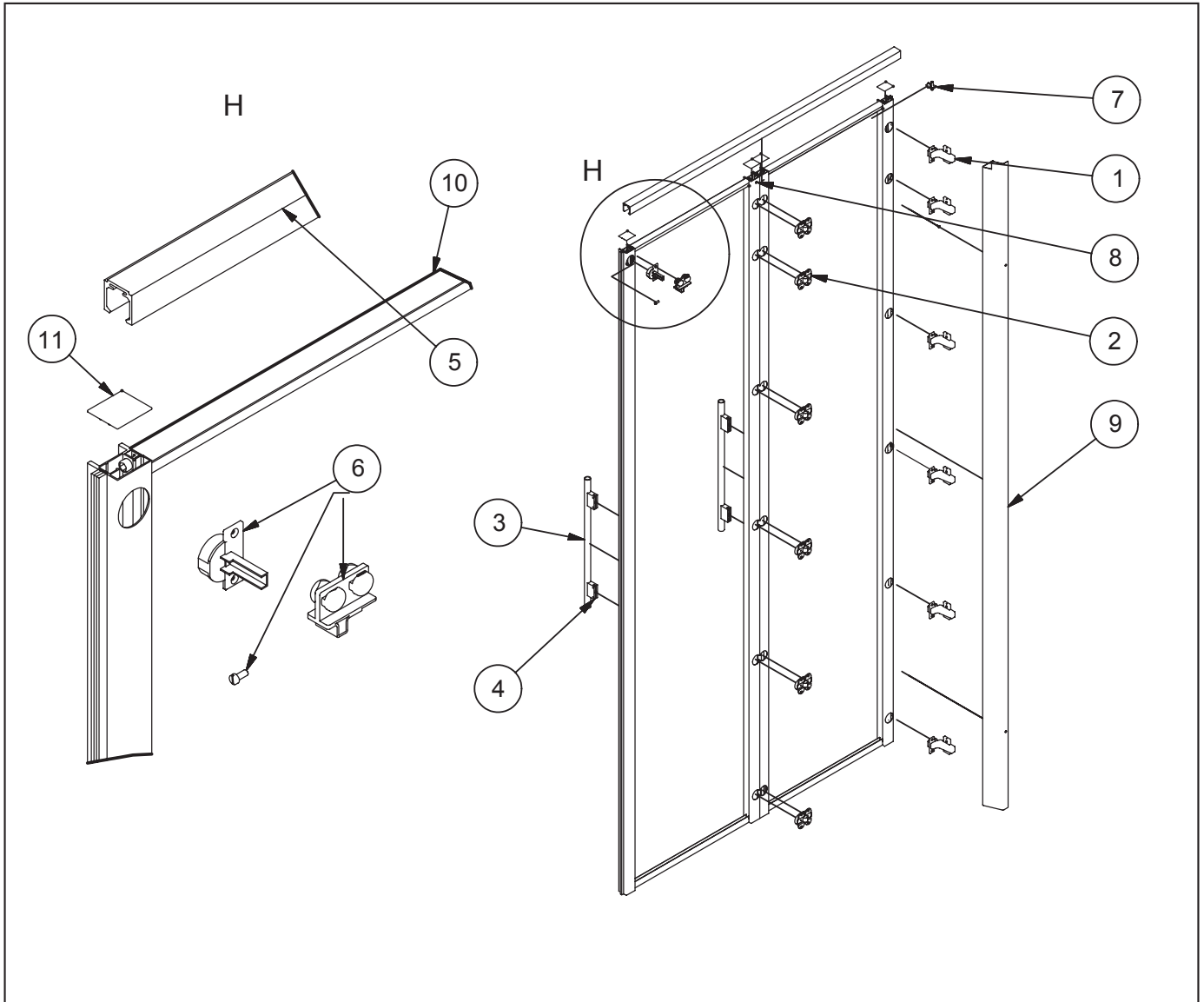
_DETAIL DRAWING



Item list

OBJECT	QUANTITY	UNIT NUMBER	DESCRIPTION
1	1	15.57.020	Covering profile
2	2	none	Mounting plate
3	2	none	Topping screw DIN 7982; 3,9 x 13 A2

_DETAIL DRAWING



Item list

OBJECT	QUANTITY	UNIT NUMBER	DESCRIPTION
1	6	10.02.012	Concealed hinge
2	6	10.02.013	Hinge
3	2	14.30.0xx	Round tube Ø 20 mm
4	4	10.04.020	Connection for vertical rod S300/3000
5	1	15.55.0xx	Folding vertical rod
6	1	10.02.010	Folding door track
7	1	10.05.060	Stopper for top roller Air
8	1	10.02.017	Rubberbuffer (clear)
9	1	15.57.020	Covering profile
10	4	15.02.0xx	Stile closed
11	4	10.08.15x	End cap