item

Access Door

Notes on Use and Installation

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Warning! Failure to observe this safety instruction is likely to result in material damage, serious injury or death

Danger! Failure to observe this safety instruction can result in material damage, serious injury or death

Caution! Failure to observe this safety instruction can result in material damage or injury

General safety instructions

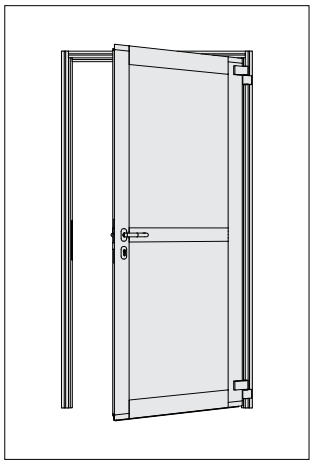
CAUTION! Sharp edges may be present – wear safety gloves during assembly and installation work.The details and information in this guide are provided for the purposes of describing the product and its assembly only. This information does not discharge users from the obligation to conduct their own assessments and checks.
It is also important to bear in mind that components exposed to mechanical loads are subject to a natural process of wear and ageing. Check all components for obvious defects prior to assembly/installation. The Access Door must only be used in accordance with the technical data and safety requirements set out in this documentation.

Terms and definitions

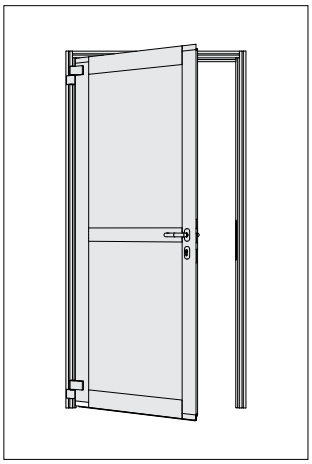
Access Door DIN left and DIN right

This terminology refers to European standard DIN 107, which governs the opening direction of doors in the construction sector and the placement of hinges.

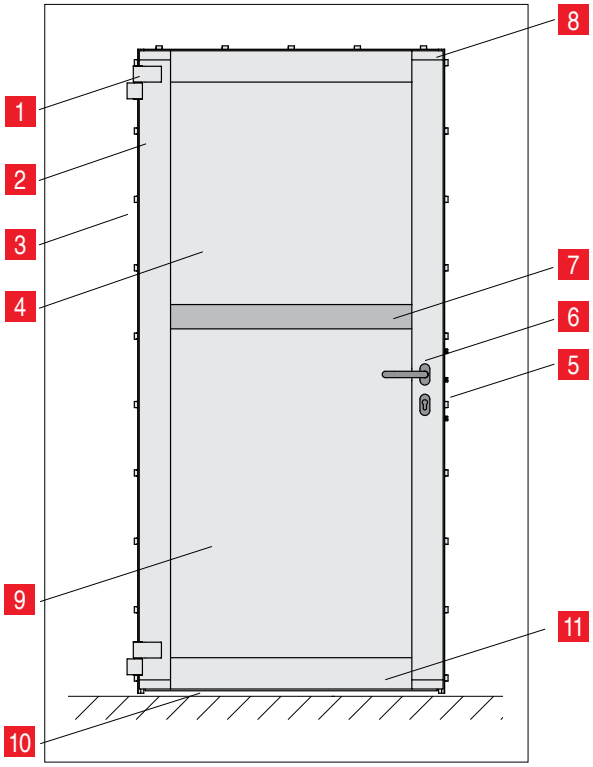
Access Door
DIN right

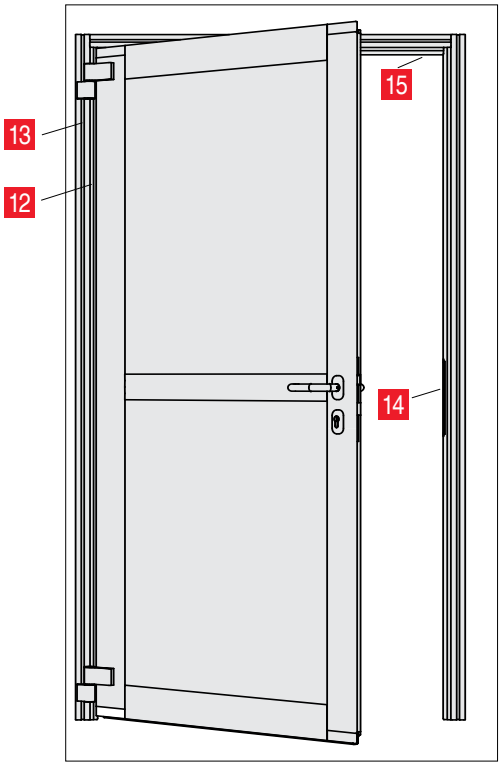


Access Door
DIN left



Product description





1	Door Profile Hinge 8	Art. No. 0.0.706.68
2	Door Profile 8 103x40 (vertical)	Art. No. 0.0.706.51 (cut-off)
3	Clip 8 St	Art. No. 0.0.428.97
4	Top panel of door with Double-Lip Seal 8 4-6 mm	
5	Mortise Lock 40/9 mm	Art. No. 0.0.711.45
6	Door Handle Set 9 mm	Art. No. 0.0.711.15
	and Cylinder Lock DZ 30/30	Art. No. 0.0.716.90
7	Profile X 8 80x40 4NO180 light	Art.-Nr. 0.0.666.77 (cut-off)
8	Door Profile Cap Set 8 103x40	Art. No. 0.0.711.62
9	Bottom panel of door with Double-Lip Seal 8 4-6 mm	
10	Drop Down Seal 24x1085	Art. No. 0.0.711.50
	or Drop Down Seal 24x 960	Art. No. 0.0.711.83
	or Drop Down Seal 24x835	Art. No. 0.0.711.84
11	Door Profile 8 103x40 (horizontal)	Art. No. 0.0.706.51(cut-off)
12	Frame Profile 8 31x20 (vertical)	Art. No. 0.0.707.73 (cut-off) and
	and Frame Profile Seal 10x4.8	Art. No. 0.0.702.57 (one piece, 3 m)
13	Outer door frame made from a light or standard Line 8 profile (e.g. Profile X 8 40x40 2NO180 light)	
14	Strike plate 245x22x3	Part of the Mortise Lock
15	Frame Profile 8 31x20 (horizontal)	Art. No. 0.0.707.73 (cut-off) and
	and Frame Profile Seal 10x4.8	Art. No. 0.0.702.57 (one piece, 3 m)

The design of the Access Door

Specified basic dimensions				
Designation	**Symbol**	**Dimension**	**Formula**	**Comments**
Outer frame height	H1			Maximum of 2120 mm
Height of door opening	H2		H1 - 20 mm	
Height of door handle from ground	H3			Recommendation: 1050 mm
Height of cross profile from ground	H4			Recommendation: At height of door handle
Outer frame width	B1			Minimum of 760 mm, maximum of 1135 mm
Width of door opening	B2		B1 - 40 mm	
Door gap from floor	s			Using a Drop Down Seal: s = 10 mm

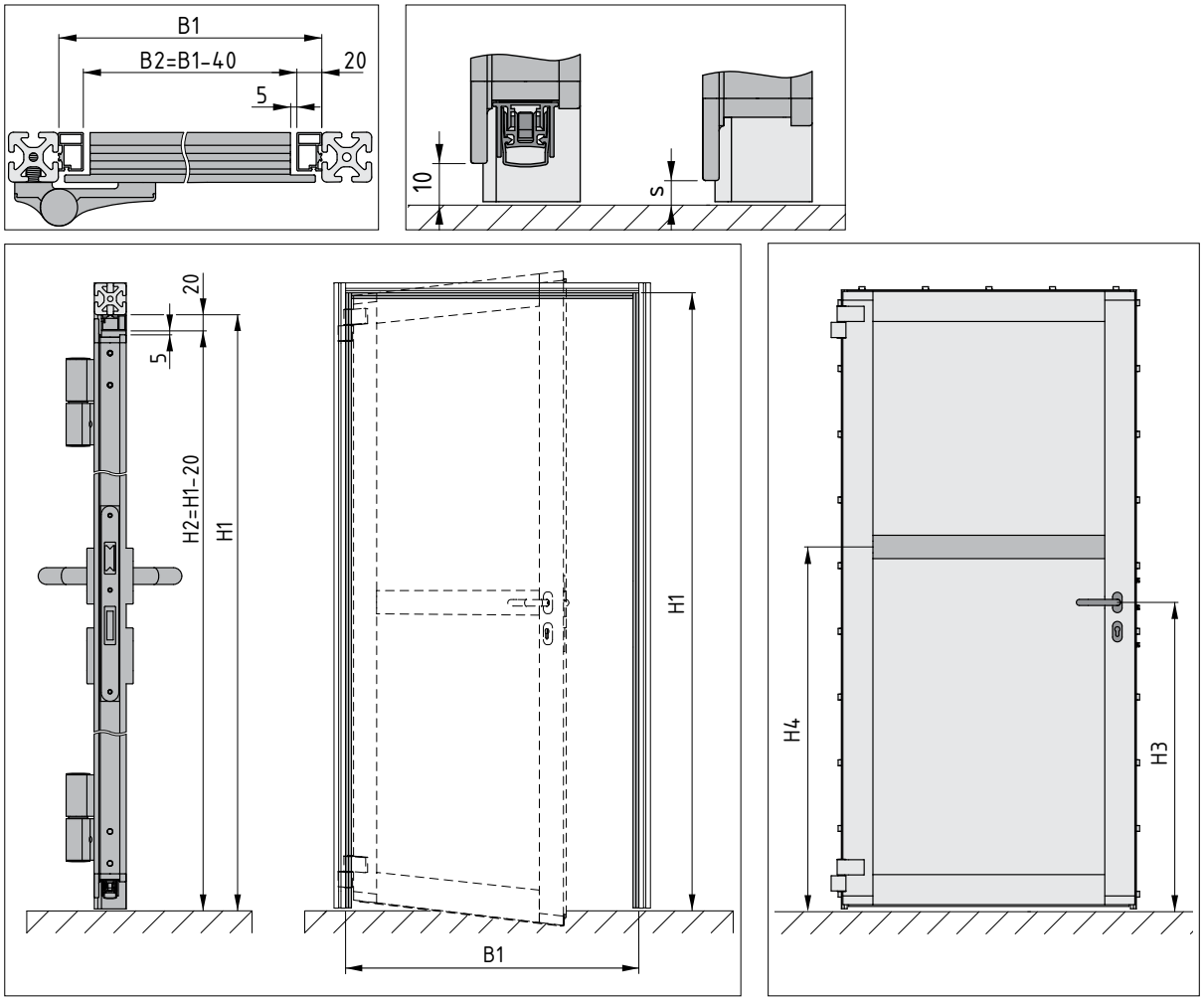
Dimensions determined by basic dimensions				
Designation	**Item No.**	**Dimension [mm]**	**Formula**	**Comments**
Door Profile 8 103x40	2	Length	H1 - s - 65	Vertical
	11	Length	B1 - 216	Horizontal
Profil X 8 80x40 4NO180 light	7	Length	B1 - 216	Horizontal
Frame Profile 8 31x20	13	Length	H1 - 1	Vertical
	15	Length	B1 - 41	Horizontal
Frame Profile Seal 10x4.8	13	Length	H1 - 1	Vertical
	15	Length	B1 - 41	Horizontal
Top panel	4	Height	H1 - H4 - 126	
		Width	B1 - 194	
Bottom panel	9	Height	H4 - s - 121	
		Width	B1 - 194	
Lip Seal 8 4-6 mm, top panel**	4	Height	H1 - H4 - 128	
		Width	B1 - 196	
Lip Seal 8 4-6 mm, bottom panel**	9	Height	H4 - s - 123	
		Width	B1 - 196	
Drop Down Seal 24*	10	Width	B1 - 50 mm	

*Drop Down Seal 24 is available to order in three variants of different lengths. Each variant can be shortened to the size of the next length variant down.

- 1085 mm (0.0.711.50) for door opening widths (B2) greater 970 mm to 1095 mm
- 960 mm (0.0.711.83) for door opening widths (B2) greater than 845 mm to 970 mm
- 835 mm (0.0.711.84) for door opening widths (B2) up to 845 mm

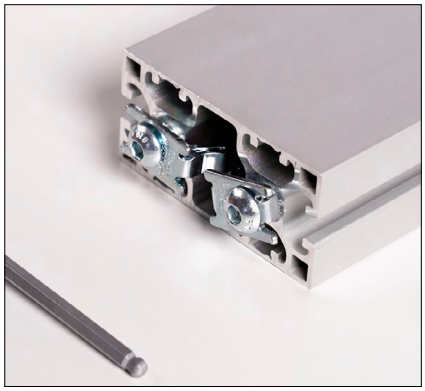
** The lengths of the Lip Seal profiles were calculated 20 mm too long to allow for suitable cutting on site.

The size of the door is largely determined by the height of the door opening (H2) and the width of the door opening (B2).



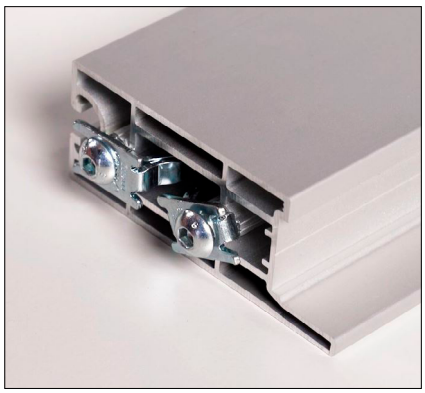
Assembling the door leaf

Certain machining steps need to be carried out before assembling the cut-to-size Access Door components. The machining directions can be found in the Annex.



Start with the cross profile 7 (0.0.666.77). Take the profiles, which have already been cut to the calculated lengths, tap two M8x20 threads into each end and fit one-sided Standard Fastening Sets. Ensure the fasteners are correctly oriented (orientation as shown in the picture) to prevent any collisions when the panels are fitted later on.

To make it easier to insert the profiles into the vertical Door Profile, do not screw the fasteners fully into place.



Next, follow the same procedure to tap threads and fit one-sided Fastening Sets to the horizontal Door Profiles 2.

To make it easier to insert the profiles into the vertical Door Profile, do not screw the fasteners fully into place.

Start by carefully sliding the cross profile 7 into the Line 8 groove on one of the vertical Door Profiles.

When you reach the desired position for the cross profile, tighten the one-sided Standard Fastening Sets. To do so, use the Ø7 mm through holes previously drilled into Door Profile 8 103x40 (see Annex).

5 A/F Allen key

Tightening torque M_T = 25 Nm

CAUTION! Ensure the profile is not damaged when being slid into place.

Now carefully insert the horizontal Door Profiles 11 of the Access Door into the Line 8 groove on the vertical Door Profile.

Fix the one-sided Standard Fastening Sets in place at the relevant installation positions, but do not tighten them, so that you can adjust them later on.

Fit the relevant Cap 8 to all four corners of the door. When doing so, align the Door Profiles to achieve a smooth transition.

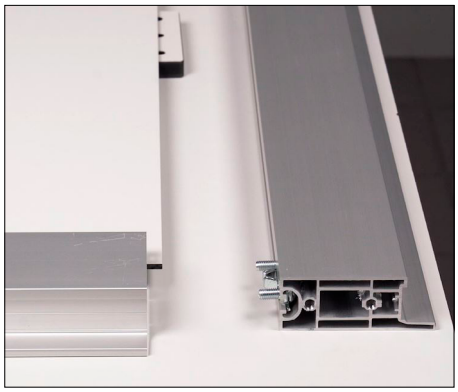
Next, tighten all the screws.

5 A/F Allen key

Tightening torque M_T = 25 Nm

Now, carefully slide the panels into the top 4 and bottom 9 part of the door through the side of the door that is still open. Measuring 4 to 5 mm thick, the panels have adequate space in the 8-mm-wide groove.

CAUTION! Ensure the panels are not damaged when being slid into place.



Once the panels have been inserted, you can seal the door frame. It is advisable to position the one-sided Standard Fastening Sets in the groove first, since sliding the long Door Profile into place would be unwieldy and could result in damage.

To make the fitting process easier, use an assembly aid to support the panels, e.g. a piece of a surface (approx. 16 mm thickness), which can easily sag. Finally, tighten all the screws by hand.

Fit missing caps in place, align them, then tighten everything.

5 A/F Allen key

Tightening torque M_T = 25 Nm

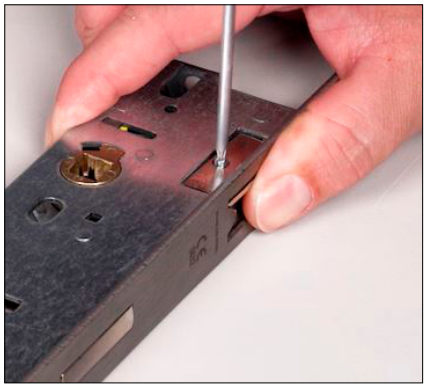
Now secure the top and bottom panel in place using Lip Seal 8 4-6 mm, which has already been cut to size. To do so, first dampen the clamping position (profile surface) with soapy water. Next, press the Lip Seal into place, starting at the ends and moving towards the centre.

Cut the Lip Seals 8 4-6 mm to 45° at the end.

TIP! Use Lip Seal Assembly Tool 6-12 (0.0.493.28) for this installation work.

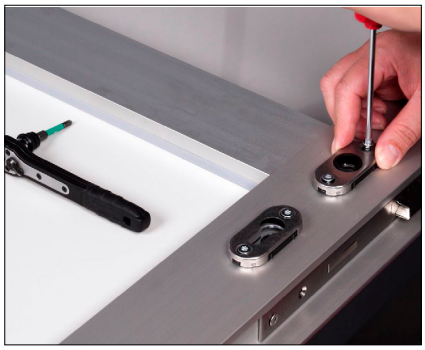
Mortise Lock and Door Handle Set

Mortise Lock 40/9 mm 5 has an adjustable door latch that can be reversed depending on whether the door is configured as DIN right or DIN left.



To reverse the latch and adapt its functionality, first remove the Torx grub screw TX8 and take out the sprung latch, then turn the Mortise Lock over, insert the latch on the side of the lock and screw the latch into place.

Next, insert the Mortise Lock into the cut-out cavity on the Door Profile and carefully tighten it by hand with a TX25 screwdriver.



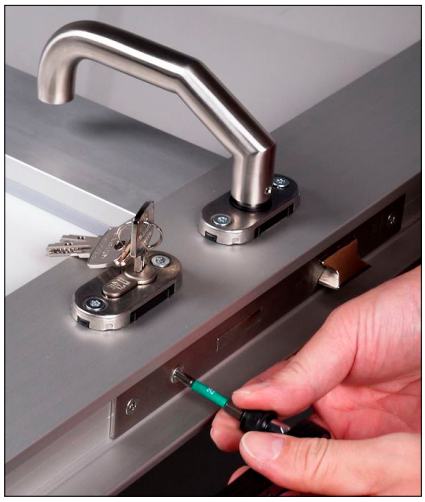
Fasten the covers for the Cylinder Lock and door handle on both sides. Tighten them by hand with a TX25 screwdriver and align them.

Push the Cylinder Lock into its opening. To do that, you will need to turn the key so that the locking elements don't get in the way. Using a screwdriver, drive the M5x50 screw into the Cylinder Lock from the side and also tighten it by hand.

Prepare the door handle. To do that, introduce the graduated square spindle into the opening on the door handle, up to the marking. Next, tighten the previously loosened grub screw.

Allen key 3 A/F

Tightening torque M_T = 6 Nm



Now insert the door handle through the escutcheon on one side and through the Mortise Lock up to the limit stop. Both the escutcheon and the Mortise Lock will need to have sufficient free play.

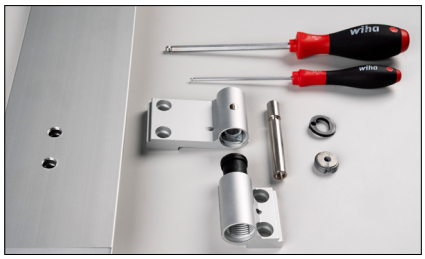
> CAUTION! The door handle has a prepared latching mechanism that you should only engage (by tapping with a mallet) once the door has been installed. Once the door handle is latched in place, it is exceptionally difficult to remove it again.

Please check that the door handle and Cylinder Lock are working as they should. Now tighten the screws of the escutcheons and Mortise Lock.

Once the functionality of the door handle has been checked, clip the escutcheons into place on both sides and remove the handle, as it could otherwise get in the way during the subsequent door assembly process and could get damaged.

The notch on the escutcheons should be facing down and can be used to remove the escutcheons, if necessary.

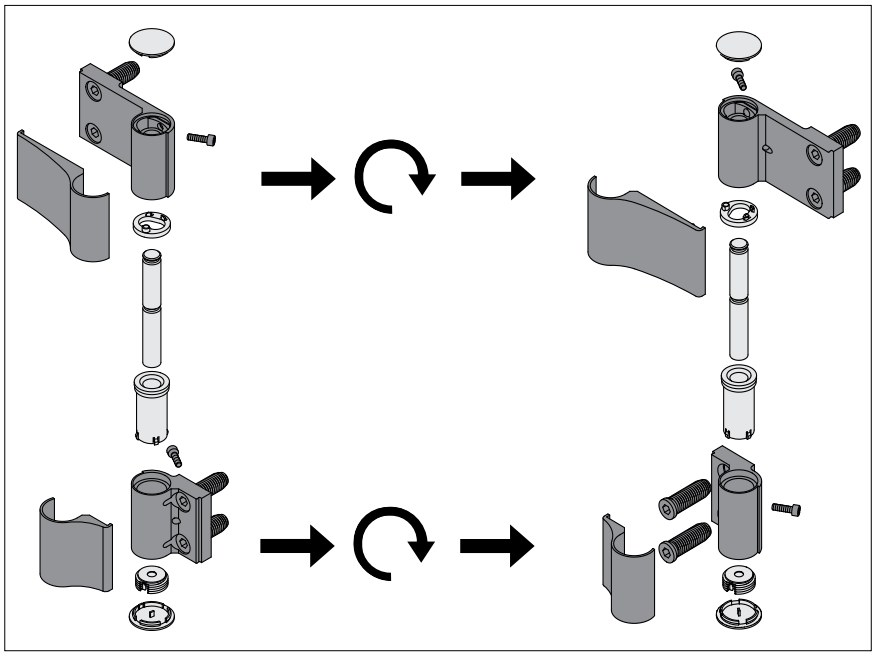
Preparing the Hinge



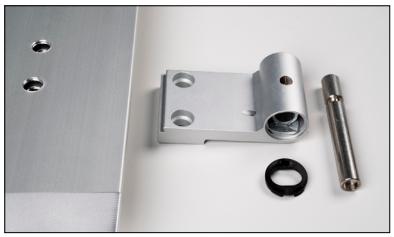
The Hinge consists of:

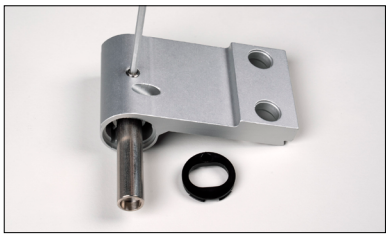
- Two hinge halves of different lengths – the shorter one (frame hinge part) is fitted to the outer door frame profile and the longer one (leaf hinge part) is fitted to Door Profile 8 103x40
- One notched hinge pin
- One bearing bush made of plastic that slots into an adjustment geometry inside the short hinge half
- One plastic mating washer
- One pressure spindle (flat screw)
- Fixings and caps

Door Profile Hinge 8 can be used to create a DIN right or DIN left door.



Preparing the hinge half for Door Profile 8 103x40



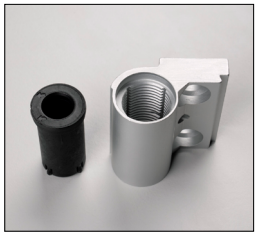


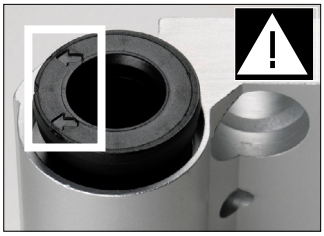
Insert the notched end of the hinge pin into the hinge half and secure it in place by driving the hexagon socket grub screw (3 A/F) on the hinge half into the notch.

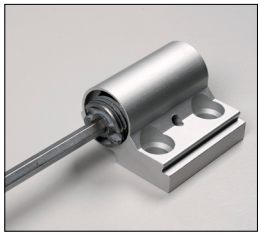
Tightening torque: M_T = 6 Nm

Next, slip the plastic ring over the hinge pin and press it into the hole in the hinge half until it clips into place. The hole in the plastic ring provides access for the adjustment screw in the Hinge.

Preparing the hinge half for the outer door frame



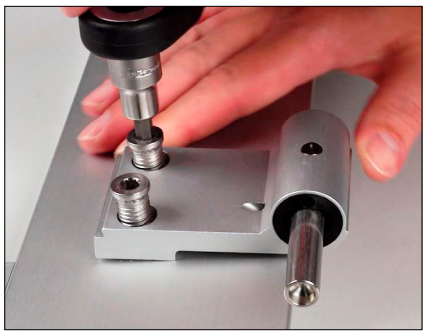




The short hinge half is fastened to the outer door frame. Insert the plastic bearing bush into the adjustment geometry inside the hinge half. The arrows on the edge of the plastic bearing bush should be pointing away from the hinge wing and toward where Door Profile 8 103x40 will be. This is the “zero setting” for adjusting the depth of the door to make the door and the frame flush. Next, screw the pressure spindle – flat side first – into the bottom of the hinge half (6 A/F hexagon socket). The pressure spindle is used to adjust the hinge pin in order to alter the height setting of the Access Door. The bearing bush should protrude approx. 2 mm out of the hinge half.

Fitting the hinge half to Door Profile 8 103x40

Both halves of the Hinge are now ready for fitting. Fasten the larger hinge half to Door Profile 8 103x40.



Screw the self-tapping hexagon socket head cap screws included in the scope of supply into the Ø11 mm holes on Door Profile 8 103x40 alternately and in stages.

Repeat this process for the other Hinge.

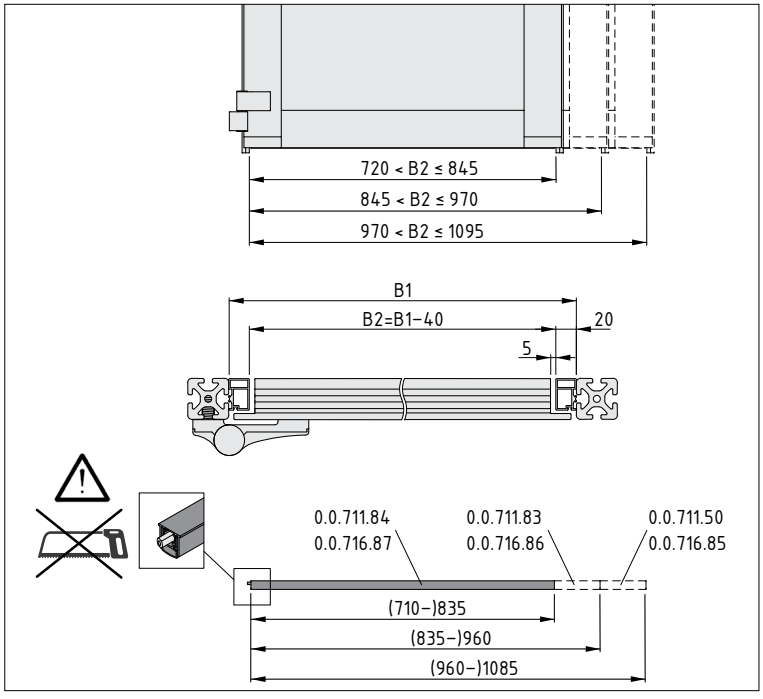
Allen key 6 A/F

Tightening torque M_T = 25 Nm

Drop Down Seal

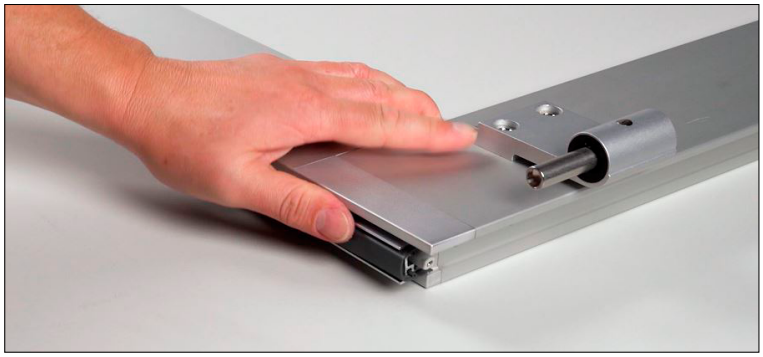
First, identify the correct length for the Drop Down Seal as per your requirements and then cut it to length if necessary.

The Drop Down Seal for the door consists of a spring-mounted rubber seal that can be shortened on one side with a standard metal hacksaw. The light-colored plastic pin is part of the actual drop-down mechanism. Do not cut through it.



NOTE! Hacksaw. After sawing to size, check the functionality of the Drop Down Seal by pressing and releasing the movable plastic pin at the side.

Apply the adhesive strip included in the scope of supply to the reverse of the Drop Down Seal profile. Pull off the protective covering and line up the Drop Down Seal with the corresponding recess on the Door Profile. When lining up the Drop Down Seal, ensure the light-colored plastic pin is on the hinge side of the door.

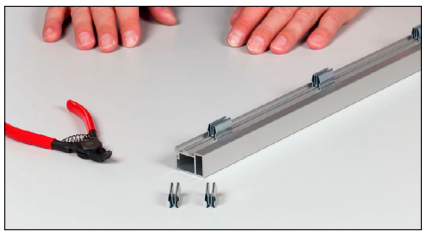


Firmly press the Drop Down Seal into place along its entire length.

CAUTION! The seal's position cannot be corrected later on.

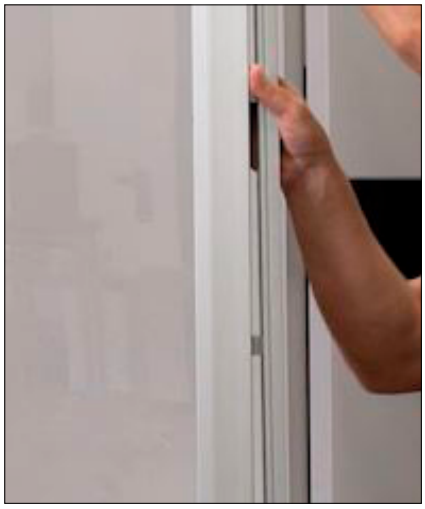
NOTE! The adjustment of the sealing function of the Drop Down Seal by using the plastic pin with an Allen key SW3 can only be carried out on the finished door after the hinge adjustment.

Fitting Frame Profile 8 31x20



Fit Clip 8 St securely into place on the corresponding aluminium geometry. You can use circlip pliers to make this easier.

Place the first Clip approx. 40 mm from the edge of the profile, then add a new clip approximately every 200 mm further along the profile. If necessary, the spacing of the Clips can be adjusted to distribute them evenly.



First, press the vertical Frame Profiles by hand into the Line 8 grooves on the outer door frame that is formed by the surrounding construction.

Economy profiles (Profiles E) with the Line 8 E groove geometry are not suitable for use as outer door frame profiles due to the loads likely to be involved. To allow for tolerance problems, the Frame Profiles should be approx. 1 mm shorter than the height of the door opening.

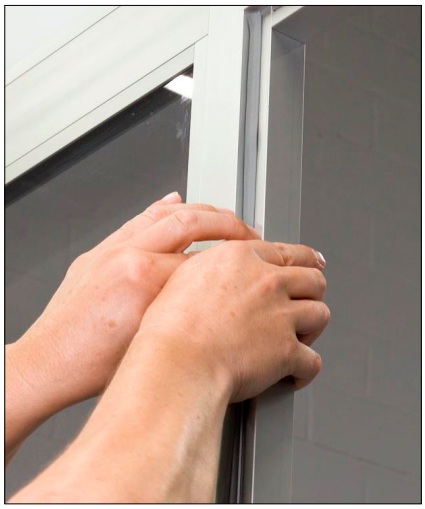
Fit the horizontal overhead Frame Profile last.

Now prepare the strike plate 14.

Introduce the three M5x30 screws through the holes in the strike plate and fit a T-Slot Nut Zn M5 to the end of each screw.

Next, feed the T-Slot Nuts through the previously machined Frame Profile and then screw the strike plate firmly to the Line 8 groove of the outer door frame profile.

Tightening torque M_T = 10 Nm



Next, press Frame Profile Seal 10x4.8 into Frame Profile 8 31x20 15. Once cut to size, this sealing profile can be installed dry. An integral wire ensures the sealing profile will not stretch or shrink.

CAUTION! The open side of the seal should be facing the outer door frame, i.e. the surrounding construction.

Now use the self-tapping hexagon socket head cap screws to screw the second, shorter hinge half to the outer door frame profile of the surrounding construction. In this example, it is a Profile X 8 with closed grooves.

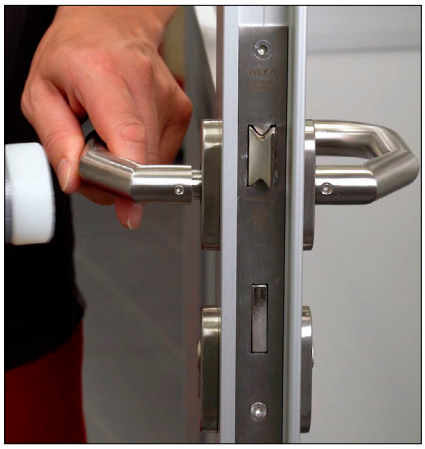
Holes with a diameter of 11.5 mm need to be drilled into the outer door frame profile for this purpose. The location of these holes is dictated by the basic dimensions of the opening and can be taken from the machining drawings in the Annex.

Allen key 6 A/F

Tightening torque M_T = 25 Nm

The Access Door, which is now almost complete, can be fitted into the outer door frame (the surrounding construction) for the subsequent installation steps.

CAUTION! Two-person installation

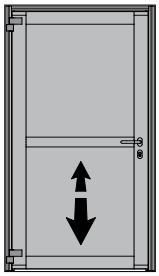


Now fit the door handles on both sides, tapping them carefully with a mallet to drive them into the Mortise Lock. As soon as the door handle clips into place, tighten the second grub screw.

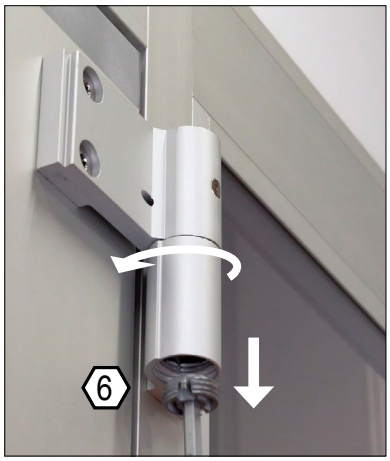
After installation, check that the door handle and Cylinder Lock are working as they should.

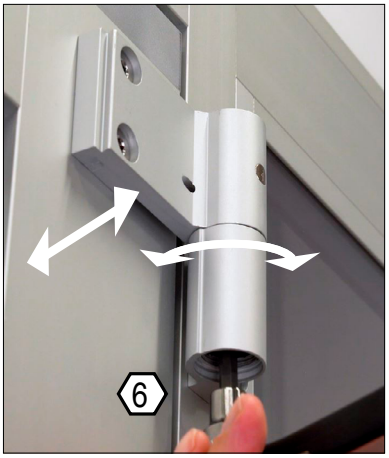
CAUTION! Once the door handle is latched in place, it is exceptionally difficult to remove it again.

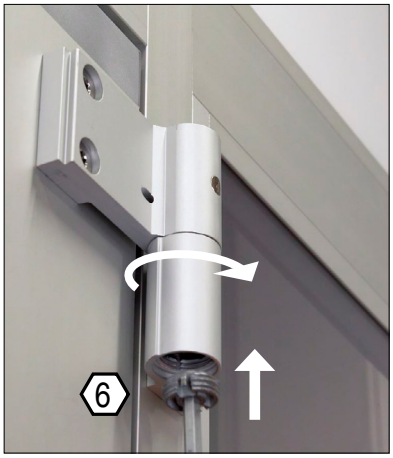
Adjusting the Access Door



Depth adjustment (in/out)





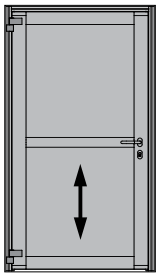


The caps and covers of the Hinges have not yet been fitted.

Start by adjusting the depth of the Access Door to ensure it is flush with the surrounding frame. To do that, first remove the pressure spindle (6 A/F).

Turning the plastic bearing bush either clockwise or anti-clockwise by a maximum of 90° actuates the internal adjustment mechanism of the Hinge. This moves the Access Door a total of 0.5 mm in or out in its frame.

After adjusting the Access Door, refit the pressure spindle, driving it against the bush (6 A/F). Please note that both Hinges may need to be adjusted.

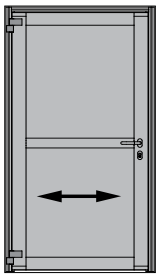


Vertical adjustment

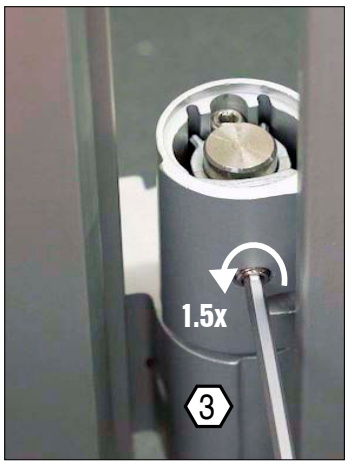
CAUTION! This adjustment can only be made after adjusting the depth of the door.

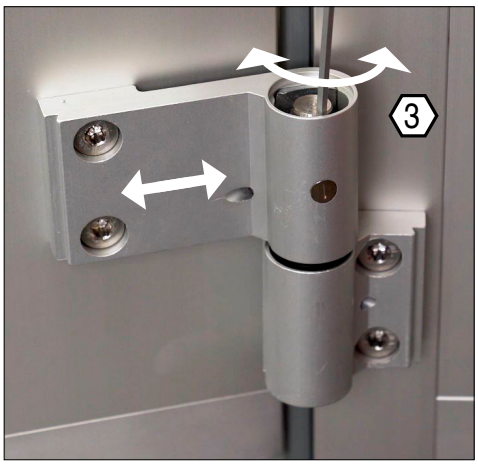
The caps and covers of the Hinges have not yet been fitted.

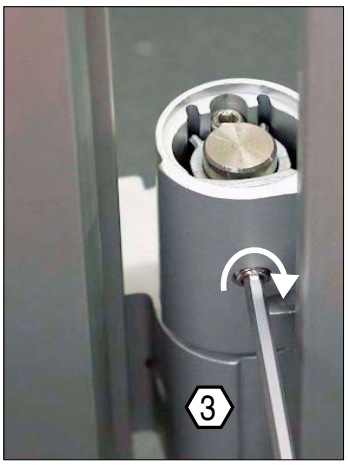
Turning the pressure spindle clockwise or anti-clockwise with a 6 A/F Allen key moves the plastic bearing bush and therefore the Access Door out of its zero position, either raising it by a maximum of 3 mm or lowering it by a maximum of 2 mm. Once the correct position has been set, readjust all other Hinges so that the adjustment is as even as possible.



Horizontal adjustment







M_T = 6 Nm

The caps and covers of the Hinges have not yet been fitted.

To move the hinge pin and therefore the Access Door to either side, you will first need to release the hinge pin fixing.

CAUTION! 3 A/F hexagon socket, 1.5 turns to release. Do not fully loosen the grub screw.

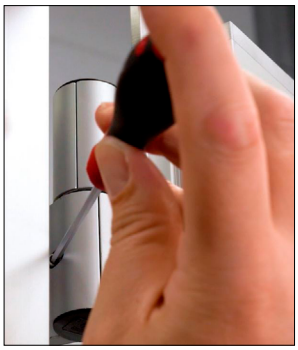
Turning the internal 3 A/F hexagon socket grub screw clockwise or anti-clockwise moves the hinge pin and therefore the Access Door ±2.5 mm out of its zero position, to the right or left.

Next, retighten the hinge pin fixing.

Allen key 3 A/F

Tightening torque: M_T = 6 Nm



Once the Access Door has been satisfactorily adjusted and tested to ensure it is working properly, push on the aluminium covers and clip the caps into place. Next, secure the aluminium covers with the M4x14 Hexagon Socket Head Cap Screws included in the scope of supply.

NOTE! If a Drop Down Seal is installed, the sealing function can now be adjusted on the light-colored hexagon socket pin of the Drop Down Seal using an Allen key SW3.

Maintenance

Every year, check for functionality, soiling, wear and noise. Clean if necessary.

When using a Drop Down Seal, do not grease the seal.

Locks must be lubricated with a non-hardening oil at least once a year.

The Hinges feature a maintenance-free plastic bearing bush that must not be greased.

Disposal

The materials used are environmentally friendly.

The product can be recycled or re-used (after any necessary refurbishment and replacement of parts). The use of appropriate materials and easy dismantling ensure the product can be recycled.

Careless disposal of the Access Door can pollute the environment.

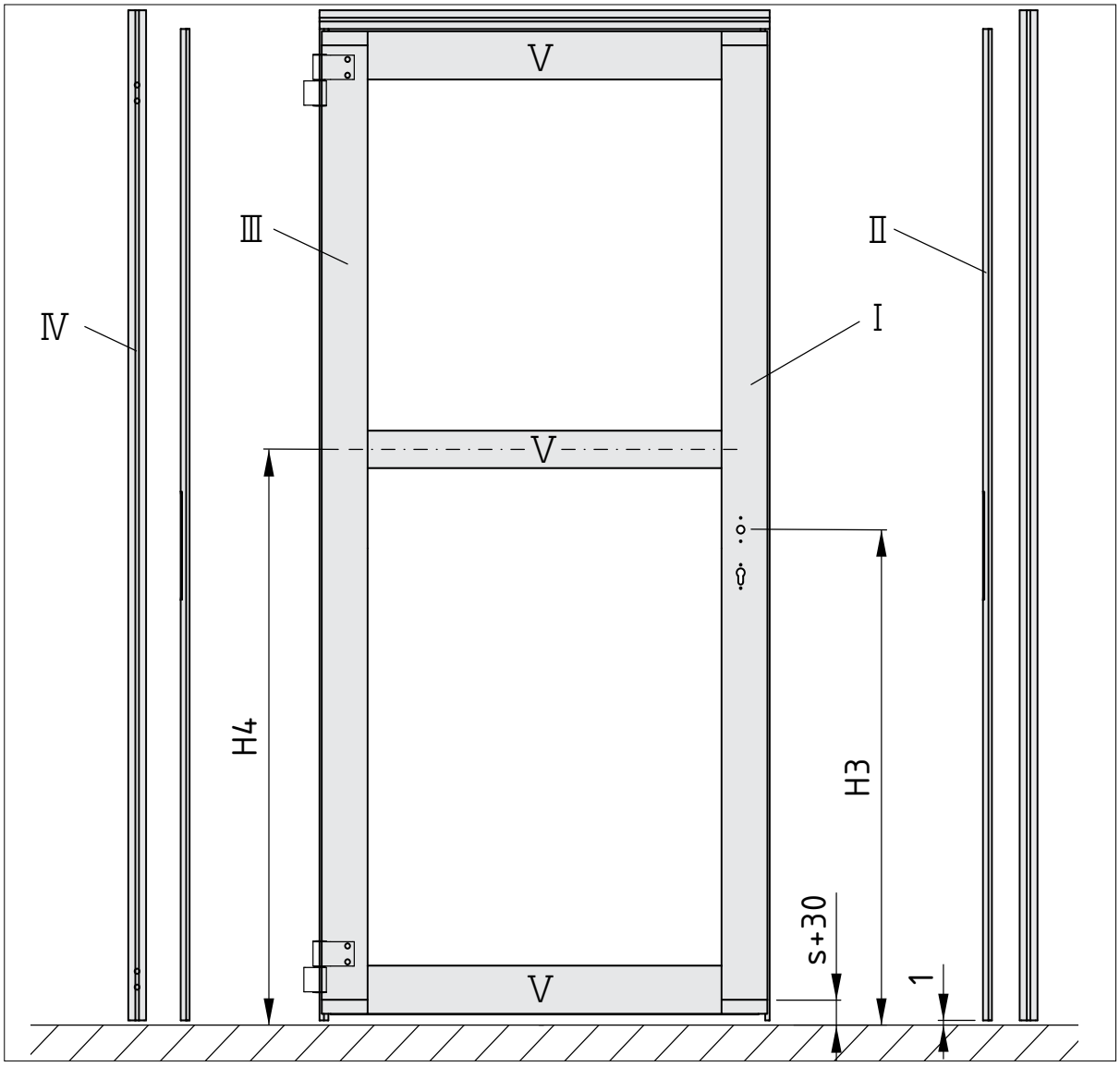
Dispose of the Access Door in accordance with the national regulations that apply in your country.

Product development and documentation

A process of continuous product development ensures that products from item Industrietechnik GmbH always exhibit a high standard of innovation. Consequently, there could be inconsistencies between this guide and the product you have acquired. item Industrietechnik GmbH can also not exclude the possibility of errors. We therefore ask for your understanding that the information, illustrations and descriptions provided here cannot constitute an entitlement to any claims. You can find the latest version of this user guide at www.item24.com

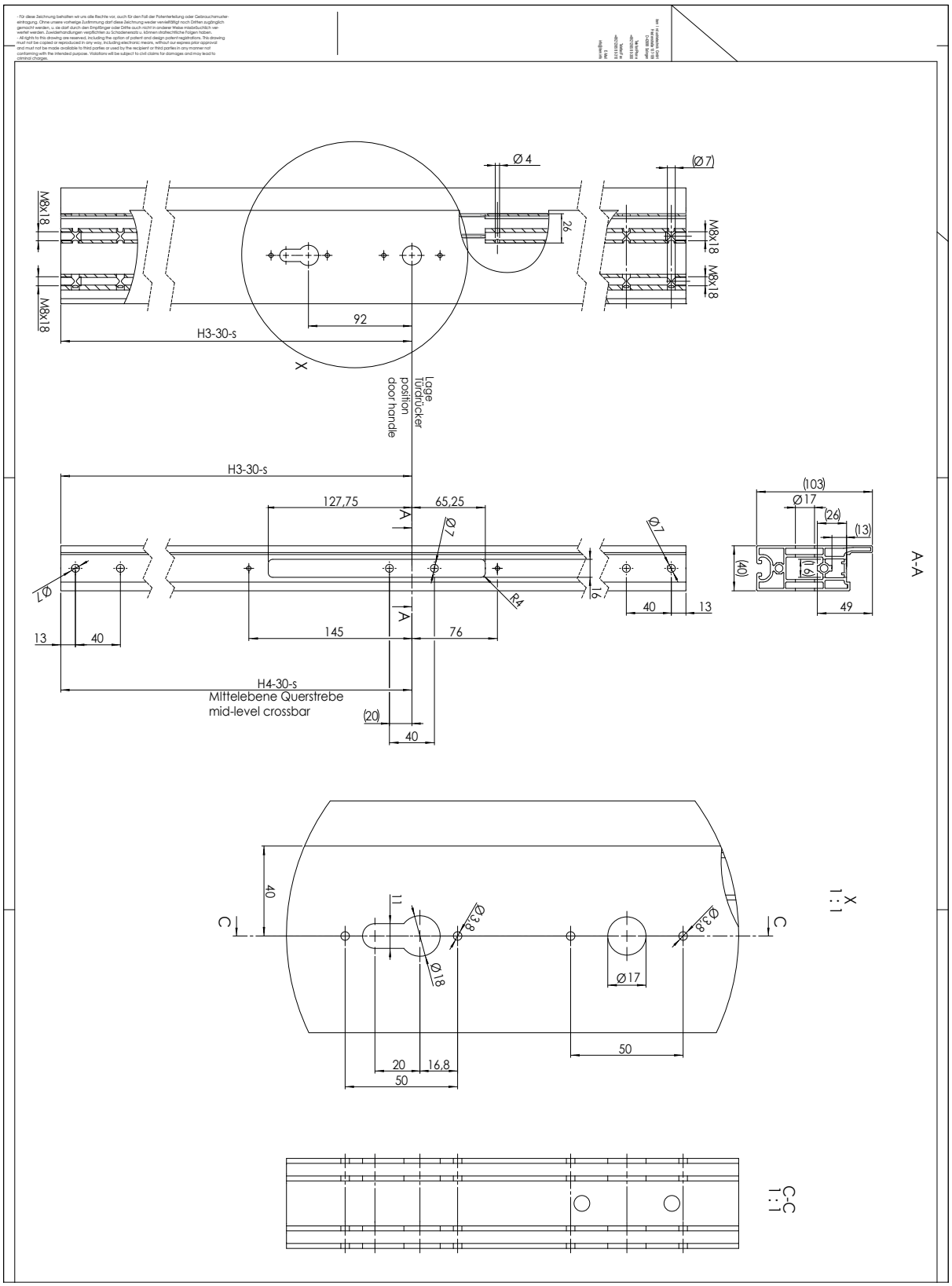
Annex

The Annex describes the necessary profile machining:



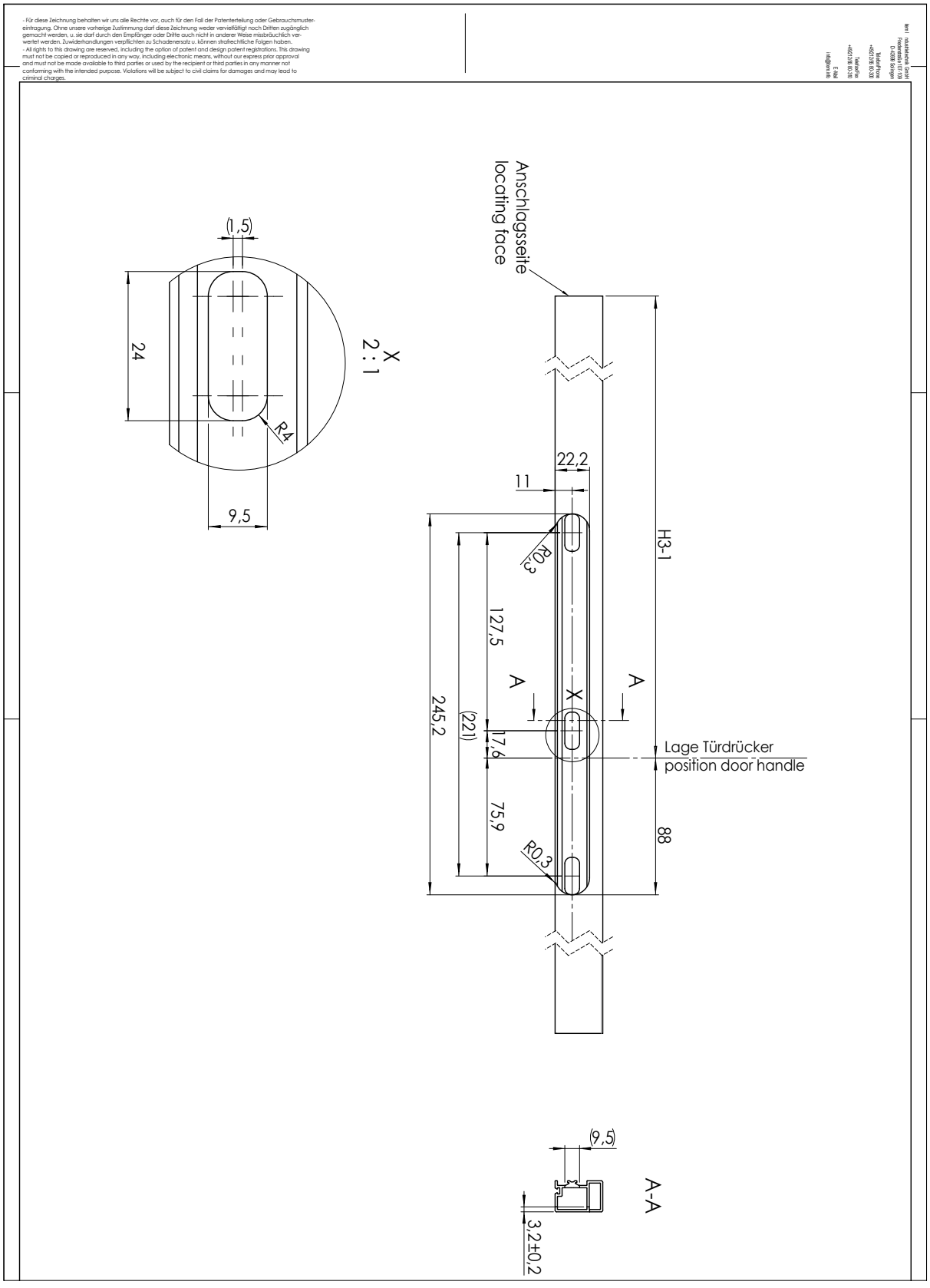
Machining step I – Door Profile 8 103x40:

- Door Handle Set 9 mm
- Mortise Lock 40/9 mm
- 6x Ø7 mm holes to allow access for Allen keys
- 4x M8x18 threads tapped into core bores for caps



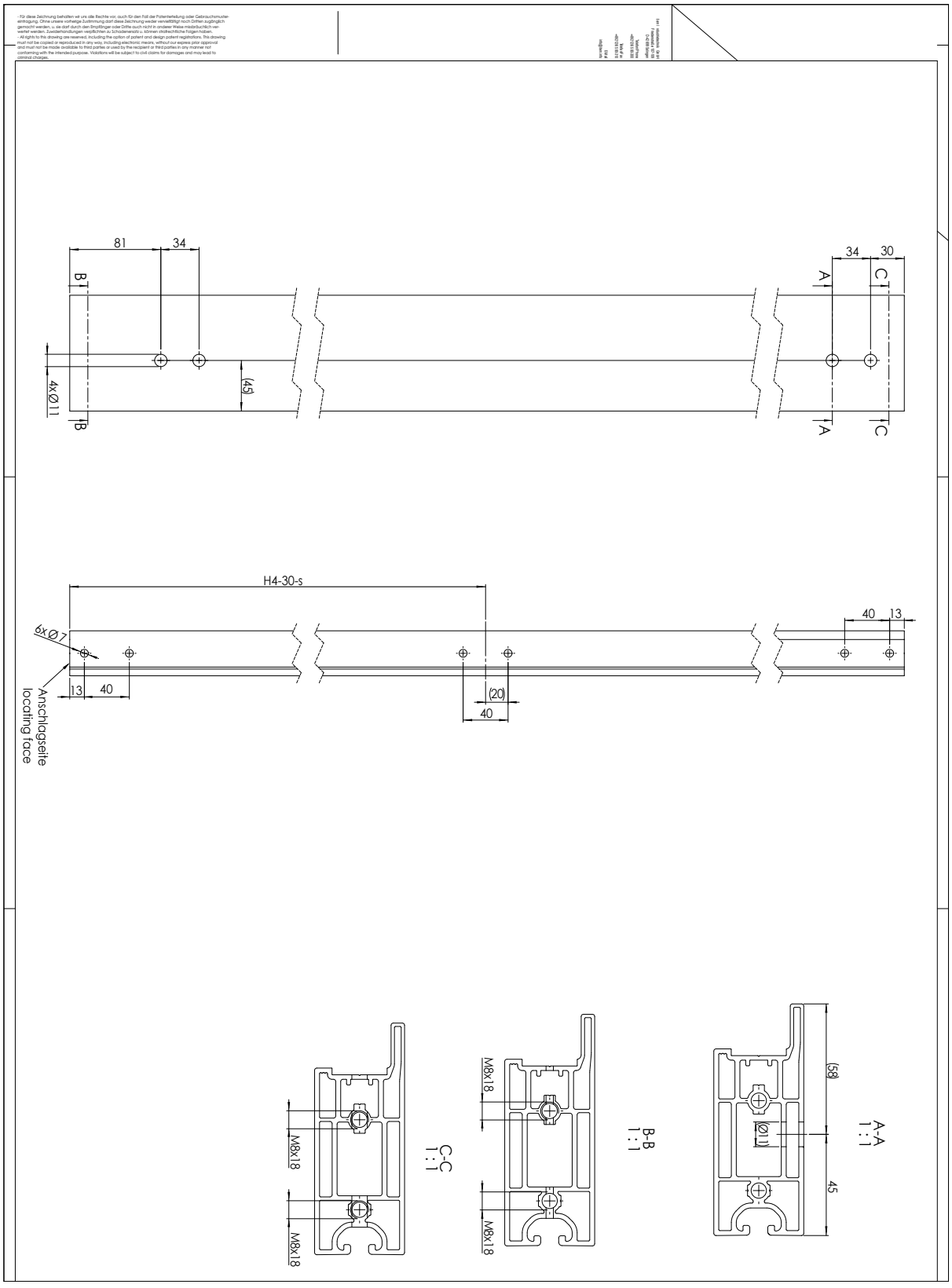
Machining step II – Frame Profile 8 31x20:

- 3x access slots
- Cut-out section for strike plate



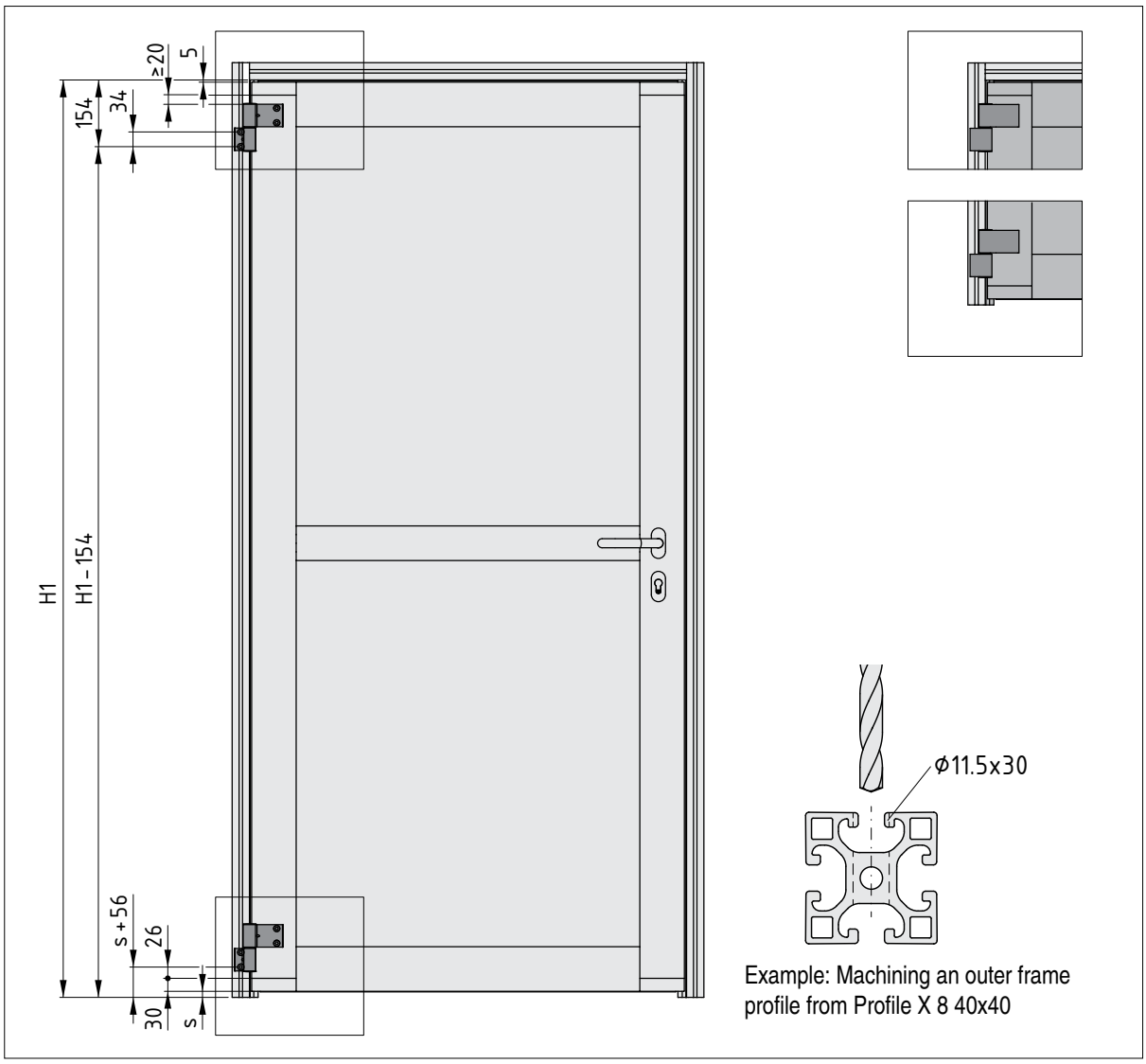
Machining step III – Door Profile 8 103x40:

- 4x drilled holes for Door Profile Hinge 8
- 6x Ø7 mm holes to allow access for Allen key 5 A/F
- 4x M8x18 threads tapped into core bores for caps



Machining step VI – Line 8 profile (do not use profiles from Line 8 E) – Hinge side

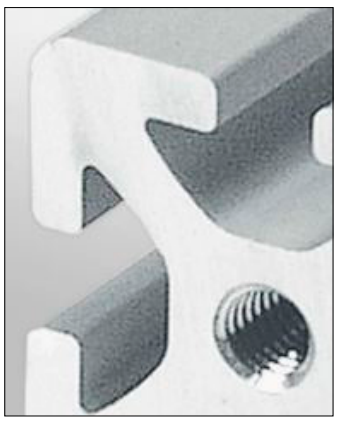
- 4x Ø11.5x30 holes



Example: Machining an outer frame profile from Profile X 8 40x40

Machining step V – cross profiles:

- Cross profile 7 4x M8x18 threads in the core bores



All cross profiles are given M8x18 threads to accommodate a Standard-Fastening Set 8, one-sided

item

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