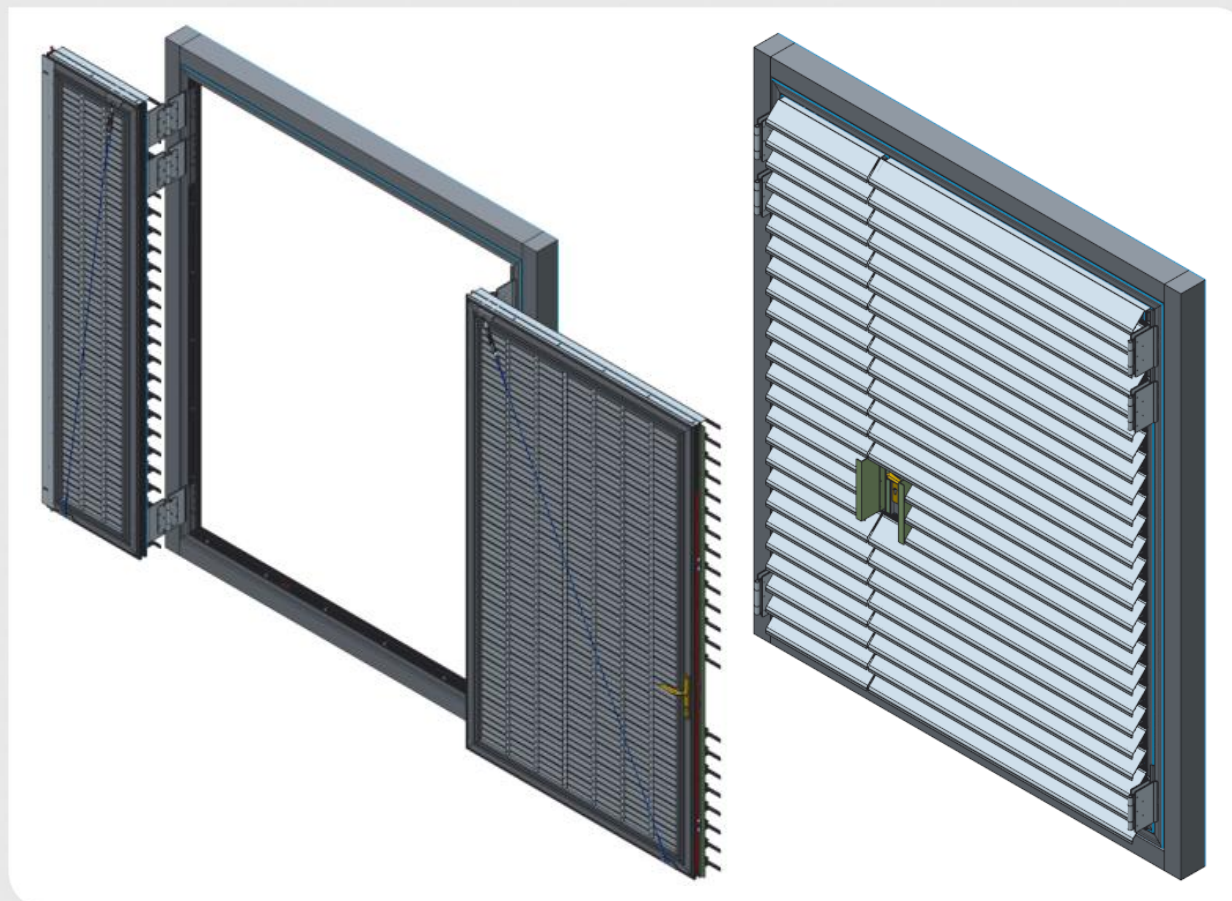


# DucoDoor Grille-Louvre

3/02/2025

## CONTENTS

1. Installation options
2. Overview dimensions
3. Parameters
4. Installation
5. Cross section



## A) Introduction:

- These doors are designed to meet the requirements for burglar resistance class RC2, (Resistance Class 2), according to the standards EN 1627:2011 and NEN 5096:2007+C2:2011.
- If the parts that are provided to meet this class are replaced or omitted, then what we have is an ordinary door (NRC2).
  
- These doors can be built into a wall opening or be attached to/built into a louvre wall.

It is important to enter the correct dimensions in the spreadsheet.

When entering the wall opening, a clearance is taken into account around the door frame of 10 mm.

(Total of 20 mm)

For special applications, the clearance may be modified in the spreadsheet.

# 2

## Overview dimensions


29/06/2017

**OVERZICHT MOGELIJKE RC2 DEUREN**

HBOHT (Doortime)	WIDTH (ACTIEF Doorframe)																		Scharnieren	MPS* Type	
	0,60	0,65	0,70	0,75	0,80	0,85	0,90	0,95	1,00	1,05	1,10	1,15	1,20	1,25	1,50	1,60	1,70	2,90			3,00
1,925																				2 scharnieren	Type B001
2,0																					
2,1																					
2,2																					
2,3																					
2,4																					
2,5																					
2,572																					
2,7																					
2,8																					
2,872																					
<b>FAM</b>	<b>50</b>	<b>65</b>	<b>80</b>																		

enkele deuren      dubbele deuren

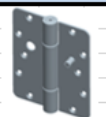
2 scharnieren en geen Trekkabel  
MPS\* = Meerpuntsluiting



**Type Scharnier**  
Scharnieren FAM 50

DGS	DWC	DWS	DWA

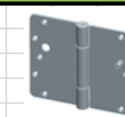
Toepassingsgebied



**Type Scharnier**  
Scharnieren FAM 65

DGS	DWC	DWS	DWA
	V20Z	V30Z	
	V20Y		
	V35Y		


Toepassingsgebied



**Type Scharnier**  
Scharnieren FAM 80

DGS	DWC	DWS	DWA
	V50Z	DWSC 35	
	V50S		
	V50Z33*		
	V50HP + V45HP		

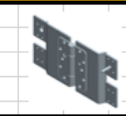
Toepassingsgebied



**Type Scharnier**  
Scharnieren FAM 150

DGS	DWC	DWS	DWA
	V130HP		150A

Toepassingsgebied



## Maximum - Dimensions

Speling Breedte	20							
Speling Hoogte	20							
	<b>RC2</b>							
Bouwtype:	Max. Muuropening		Max.Buiten kader:		Max.Nuttige opening		Max. DEURBLAD	
<b>RC2</b>	Breedte	Hoogte	Breedte	Hoogte	Breedte	Hoogte	Breedte	Hoogte
Enkele deur Volledig_Kader	1628	3000	1608	2980	1473	2845	1500	2872
Dubbele deur Volledig_Kader	3137	3000	3117	2980	2982	2845	1500	2872
Enkele deur Onvolledig_Kader	1628	2955	1608	2935	1473	2867,5	1500	2872
Dubbele deur Onvolledig_Kader	3137	2955	3117	2935	2982	2867,5	1500	2872
	<b>NRC2</b>							
Bouwtype:	Max. Muuropening		Max.Buiten kader:		Max.Nuttige opening		Max. DEURBLAD	
<b>NRC2</b>	Breedte	Hoogte	Breedte	Hoogte	Breedte	Hoogte	Breedte	Hoogte
Enkele deur Volledig_Kader	1628	3128	1608	3108	1473	2973	1500	3000
Dubbele deur Volledig_Kader	3137	3128	3117	3108	2982	2973	1500	3000
Enkele deur Onvolledig_Kader	1628	3083	1608	3063	1473	2995,5	1500	3000
Dubbele deur Onvolledig_Kader	3137	3083	3117	3063	2982	2995,5	1500	3000

### A) Single Door Complete

A = Frame width (mm)

B = Useful width (mm)

C = Door width (mm)

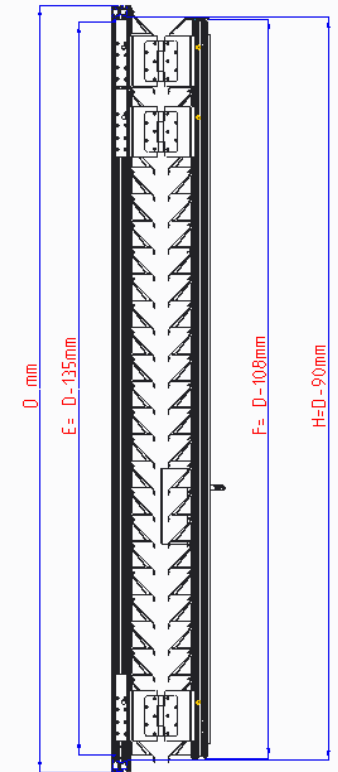
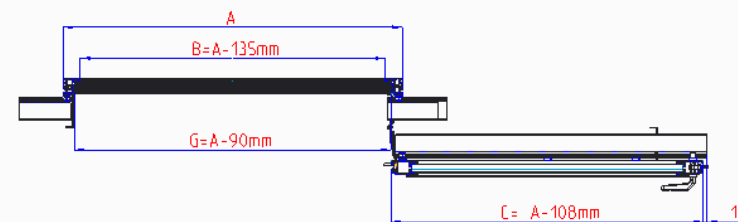
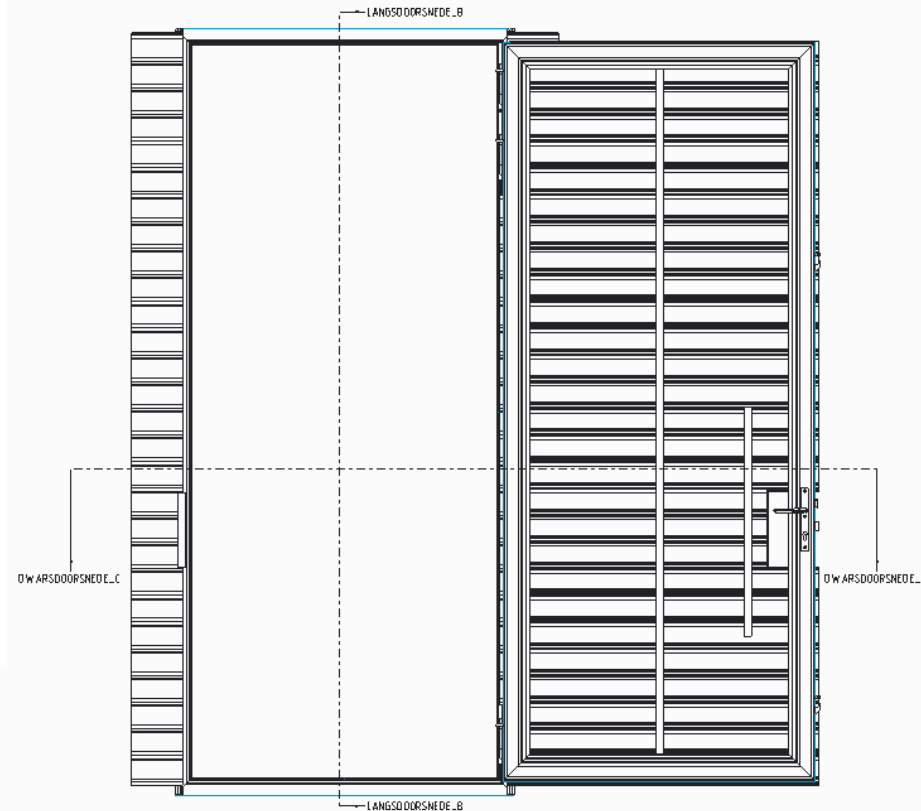
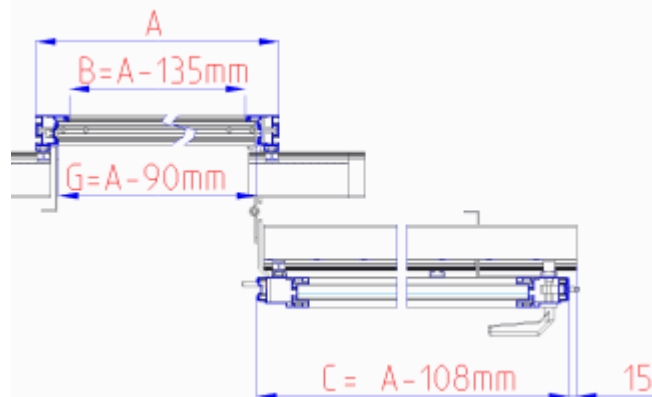
G = Rebate width (mm)

D = Frame height (mm)

E = Useful height (mm)

F = Door height (mm)

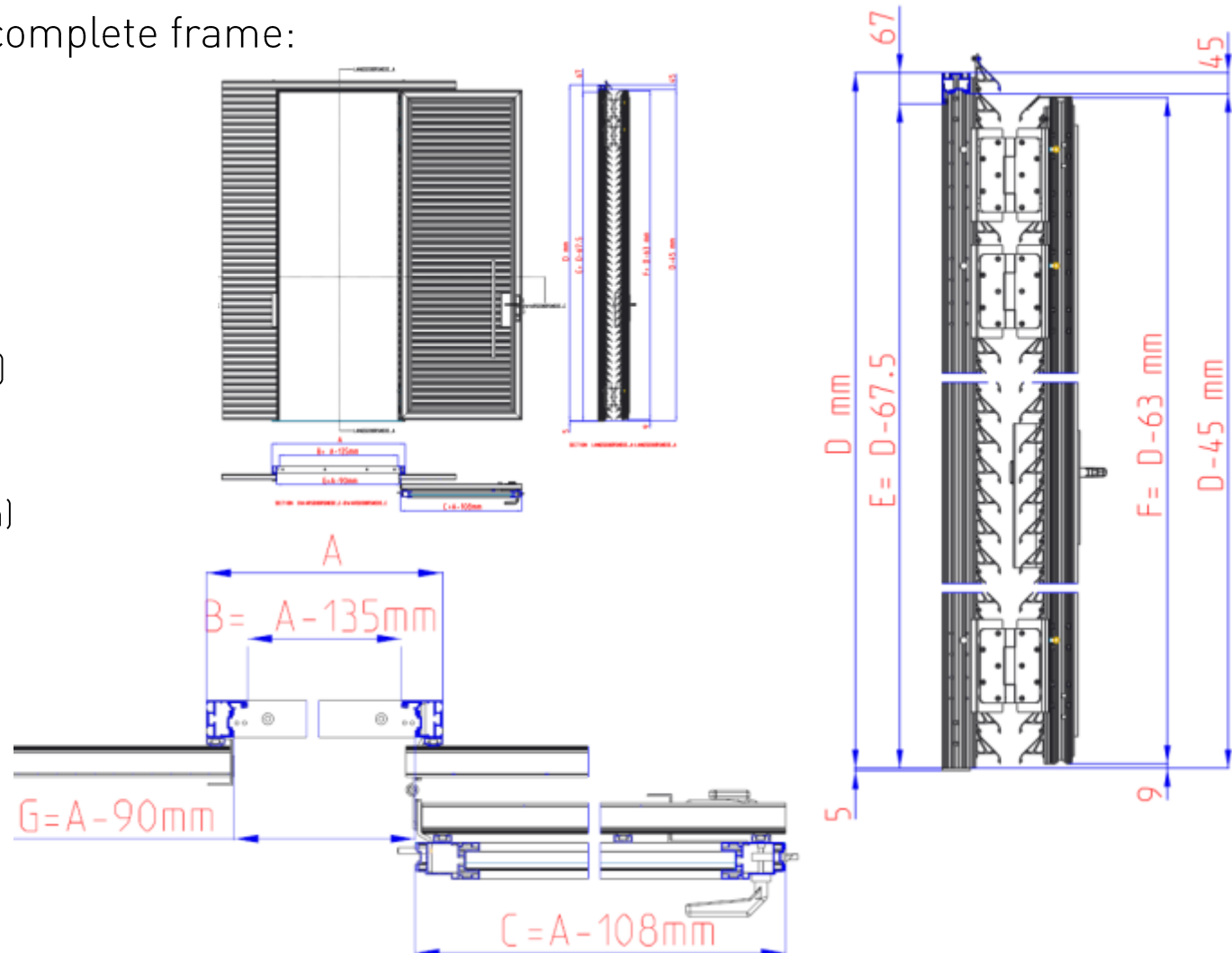
H = Rebate height (mm)



SECTION LANGSDOORSNEDE\_B-LANGSDOORSNEDE\_B

## B) Single Door Incomplete frame:

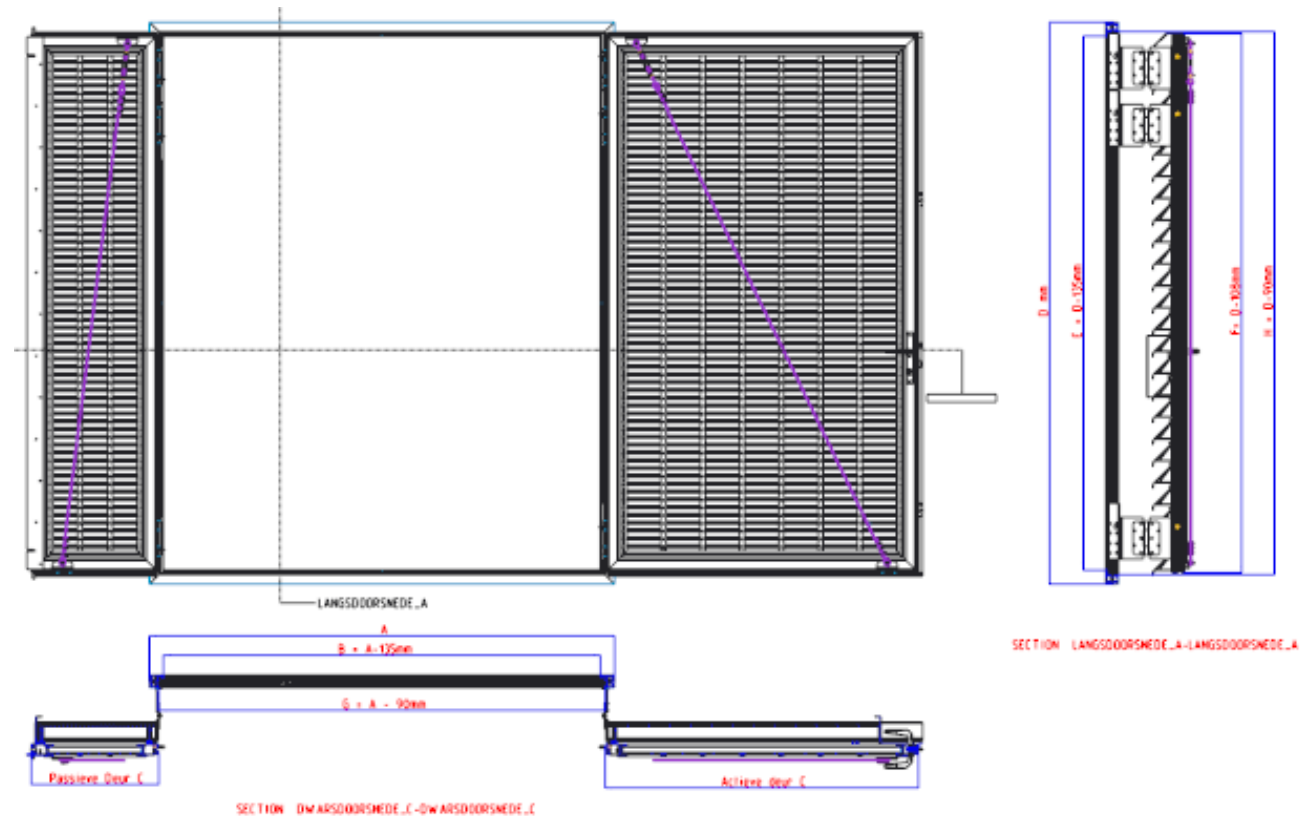
- A = Frame width (mm)  
 B = Useful width (mm)  
 C = Door width (mm)  
 G = Rebate width (mm)  
  
 D = Frame height (mm)  
 E = Useful height (mm)  
 F = Door height (mm)  
 H = Rebate height (mm)



### C) Double Door Complete frame:

A = Frame width (mm)  
 B = Useful width (mm)  
 C = Door width (mm)  
 G = Rebate width (mm)

D = Frame height (mm)  
 E = Useful height (mm)  
 F = Door height (mm)  
 H = Rebate height (mm)



### C) Double Door Complete frame:

A = Frame width (mm)

B = Useful width (mm)

C = Door width (mm)

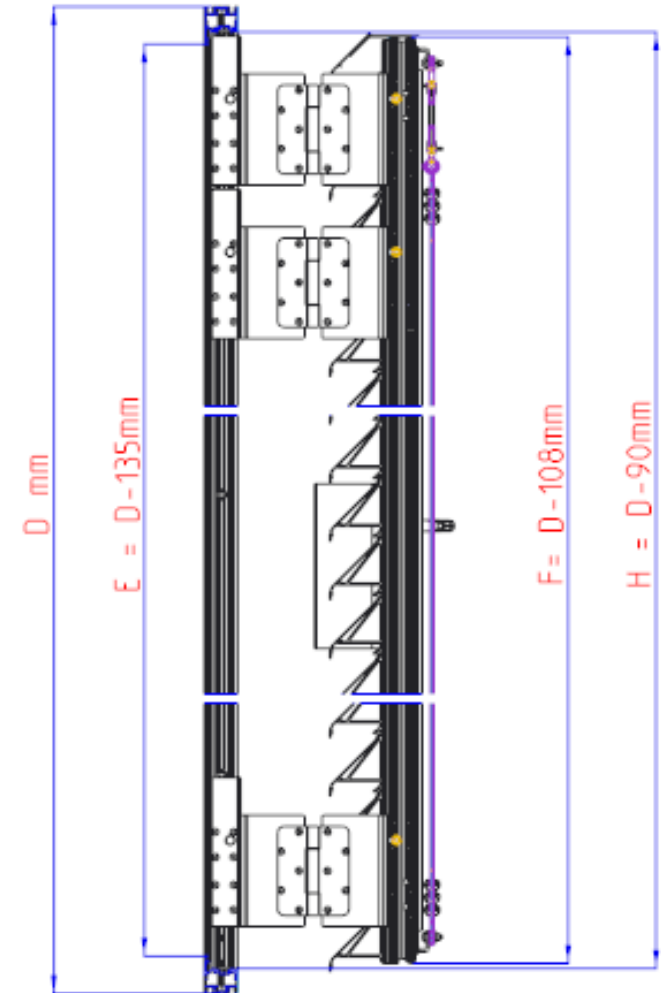
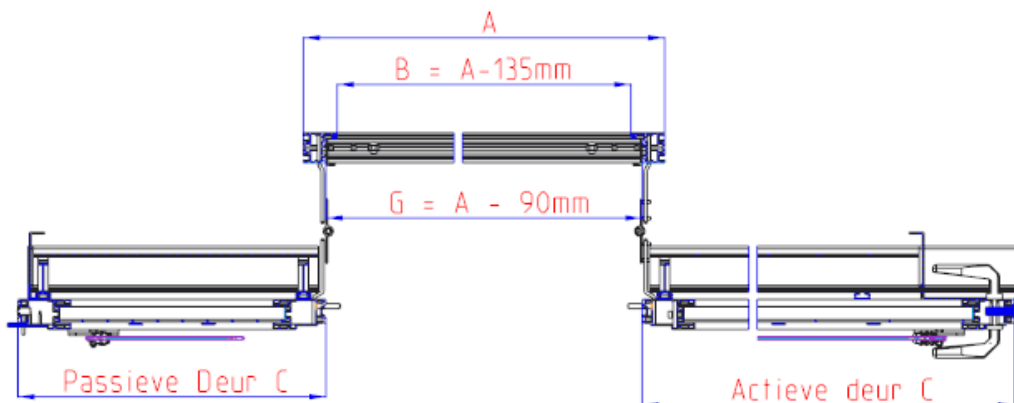
G = Rebate width (mm)

D = Frame height (mm)

E = Useful height (mm)

F = Door height (mm)

H = Rebate height (mm)





### D) Double Door Incomplete frame:

A = Frame width (mm)

B = Useful width (mm)

C = Door width (mm)

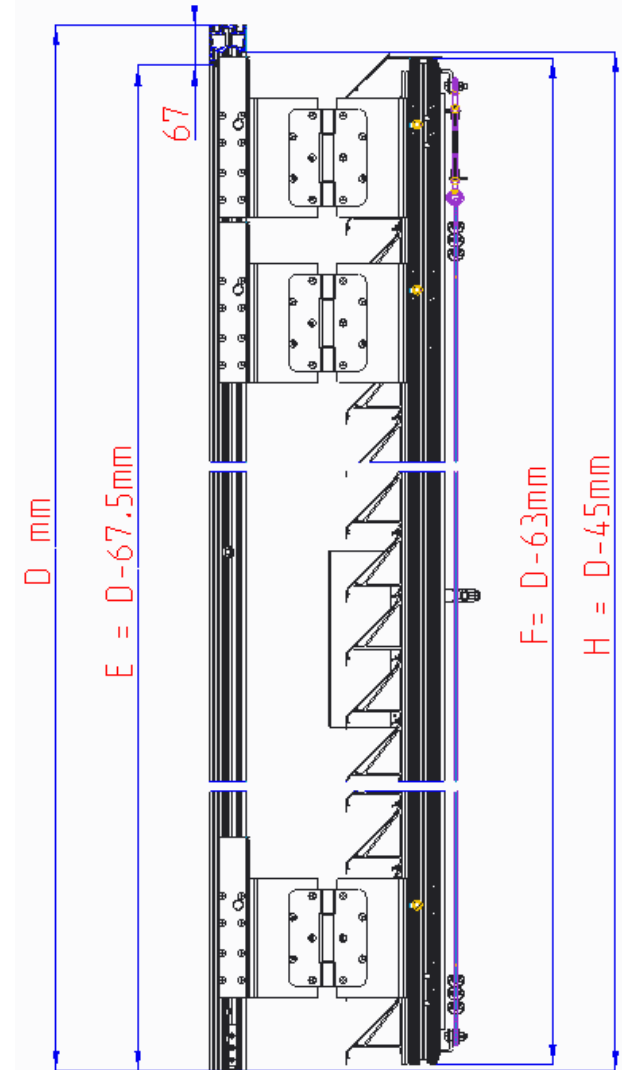
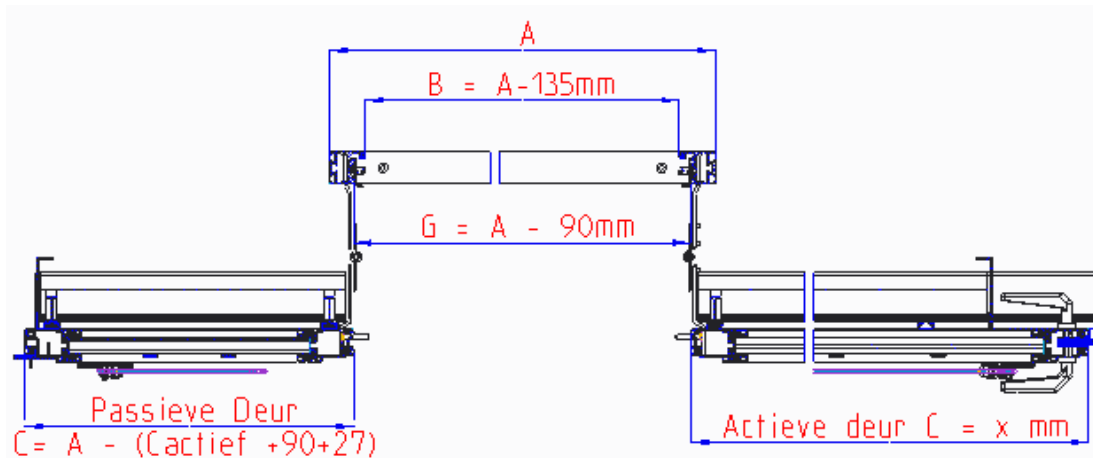
G = Rebate width (mm)

D = Frame height (mm)

E = Useful height (mm)

F = Door height (mm)

H = Rebate height (mm)



Fixing options frame profile:

1. External fixing lugs:

- For external fixing lugs, the frame profile is affixed with rectangle thin nuts, hexagon head bolts and a fixing lug (G0105012).

2. Internal fixing lugs:

- For internal fixing lugs, a drilled hole of Ø8.5 and Ø22 is provided in the frame profile.
- In this way, a screw can be fixed right through the frame profile.

3. Corner connections:

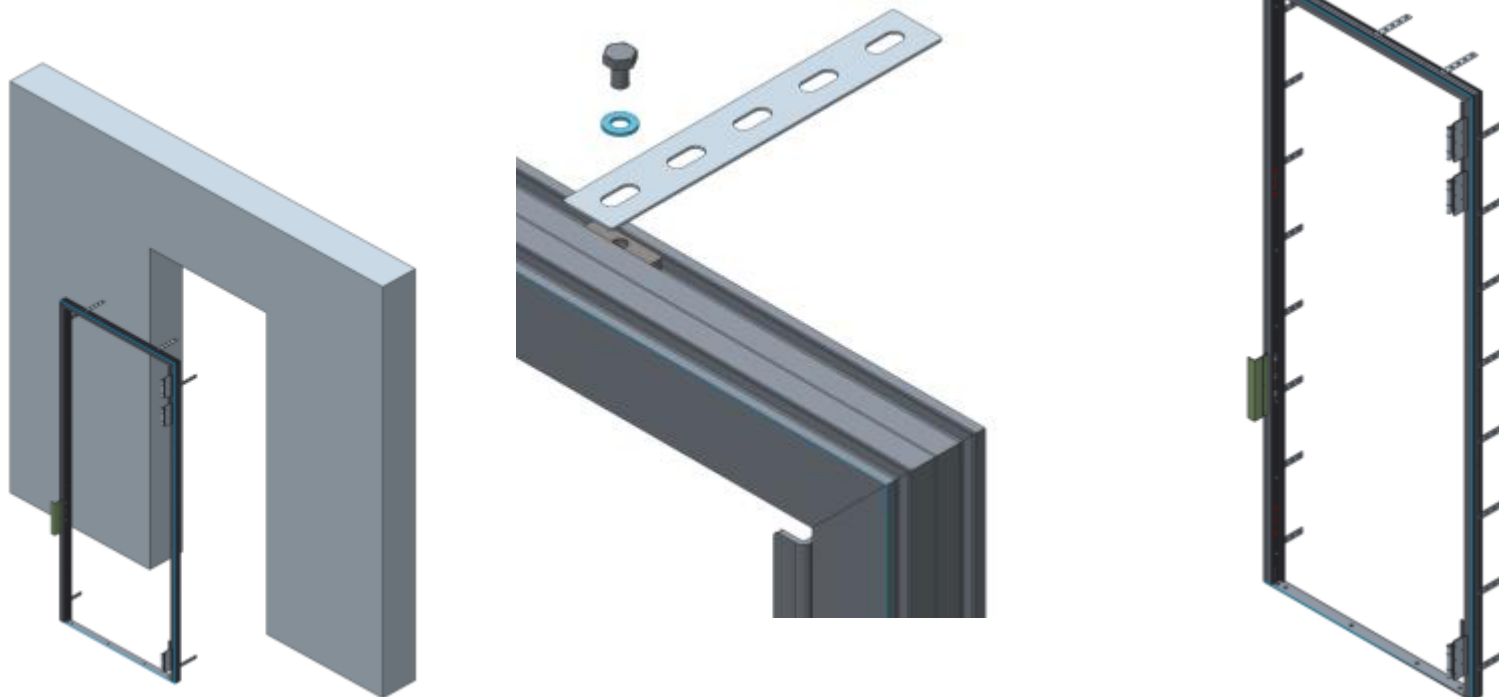
- For DWC/DWA profiles, a stainless steel L-bracket is supplied to realise a smooth connection with a mullion 50/50 (P11188-10) or mullion 21/50 Multi (P11436-10) or rafter 30/12 (P11390-10).
- Also for the profiles DWSolid and Screening mullion 40/70 Double punched (T15404-10)

- A) Installation in a wall opening

- 1) External fixing lugs:

For external fixing lugs, we use rectangle thin nuts M8 (G0000182) hexagon head bolt M8x12 DIN 933 SS A2 with washer Ø8 mm (G0000174) and external fixing lug Flat 30/1.5 length 250 mm (G0105012). When assembling the door, the rectangle thin nuts have already been fitted in the door frame.

The first fixing lugs are placed at +/- 190 mm from the corner, both in width and in height. Then the other fixing lugs are fitted with a spacing of +/- 390 mm for RC2 and +/- 780 mm for NRC2.



- A) Installation in a wall opening

- 1) External fixing lugs:

Next the frame is built into the opening provided. Make everything level and use spacer plates - the clearance all around is 10 mm (unless modified), in order to position the whole.

Then the holes to be drilled are marked off.

The screws to fix the fixing lugs must be at least  $\text{Ø}8$  mm. The choice of screw type depends on the nature of the underlying structure (concrete, brick, wood, metal, etc.).

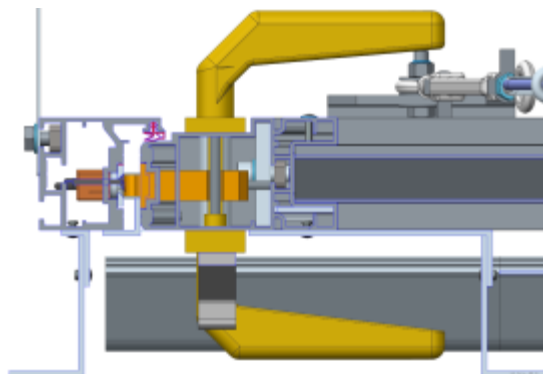
To make drilling easier, the fixing lugs may be bent slightly.

Then secure the frame with the appropriate screws. With an incomplete frame, you will first have to mark off and drill the holes at the bottom and then adjust the whole with spacer plates.

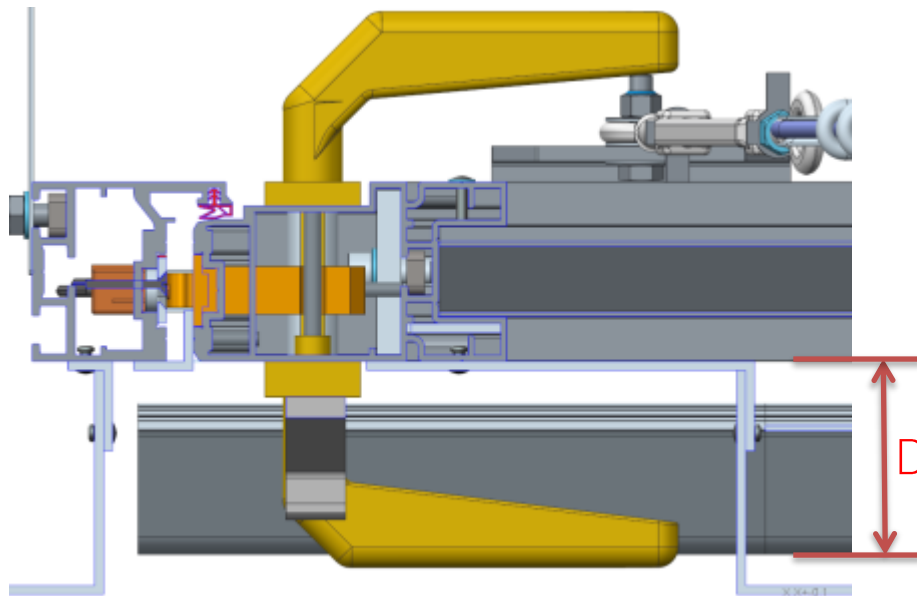
If a louvre wall is to be mounted on the wall, it will be necessary to first position the support profiles on the wall and align them, to determine the depth of the frame.

On the next page, you can find the depth of each blade mounted on the door leaf.

Door leaf and frame profile lie in the same plane.



### A) Installation in a wall opening

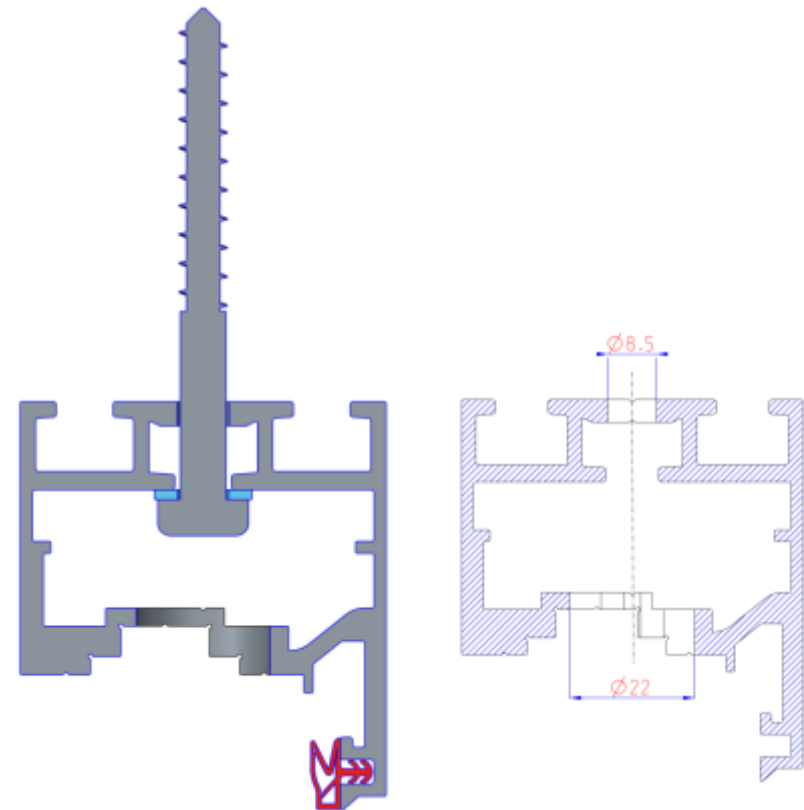
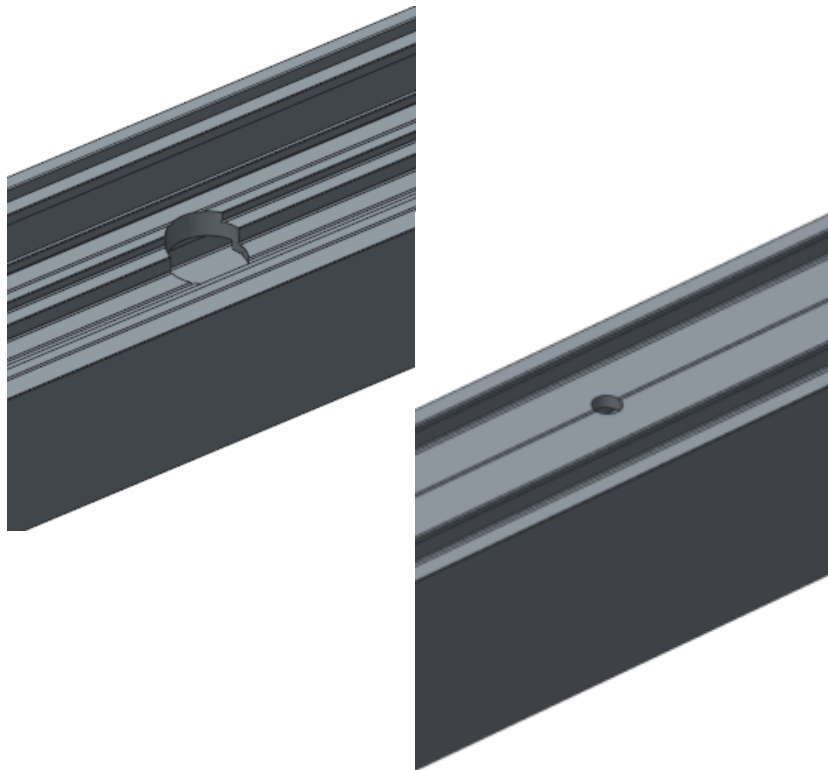


#### OVERVIEW OF BLADE DEPTH WITH MULLION

TYPE DUCOWALL	BLADE TYPE	D - DEPTH WITH MULLION (MM)
CLASSIC WITH RAFTER 30/12	20V, 20Z	35
	35V	50
	45HP	60
	50HP	68
	50S, 50Z, 50Z30°	65
	60C	89
	70V	87
	80HP	96
	130HP	144,6
	SOLID WITH MULLION 40/21	30Z
SOLID WITH RAFTER 30/12	75L	86,7
	75Z	78,1
	150	153,8

- A) Installation in a wall opening
  - 2) Internal fixing lugs:

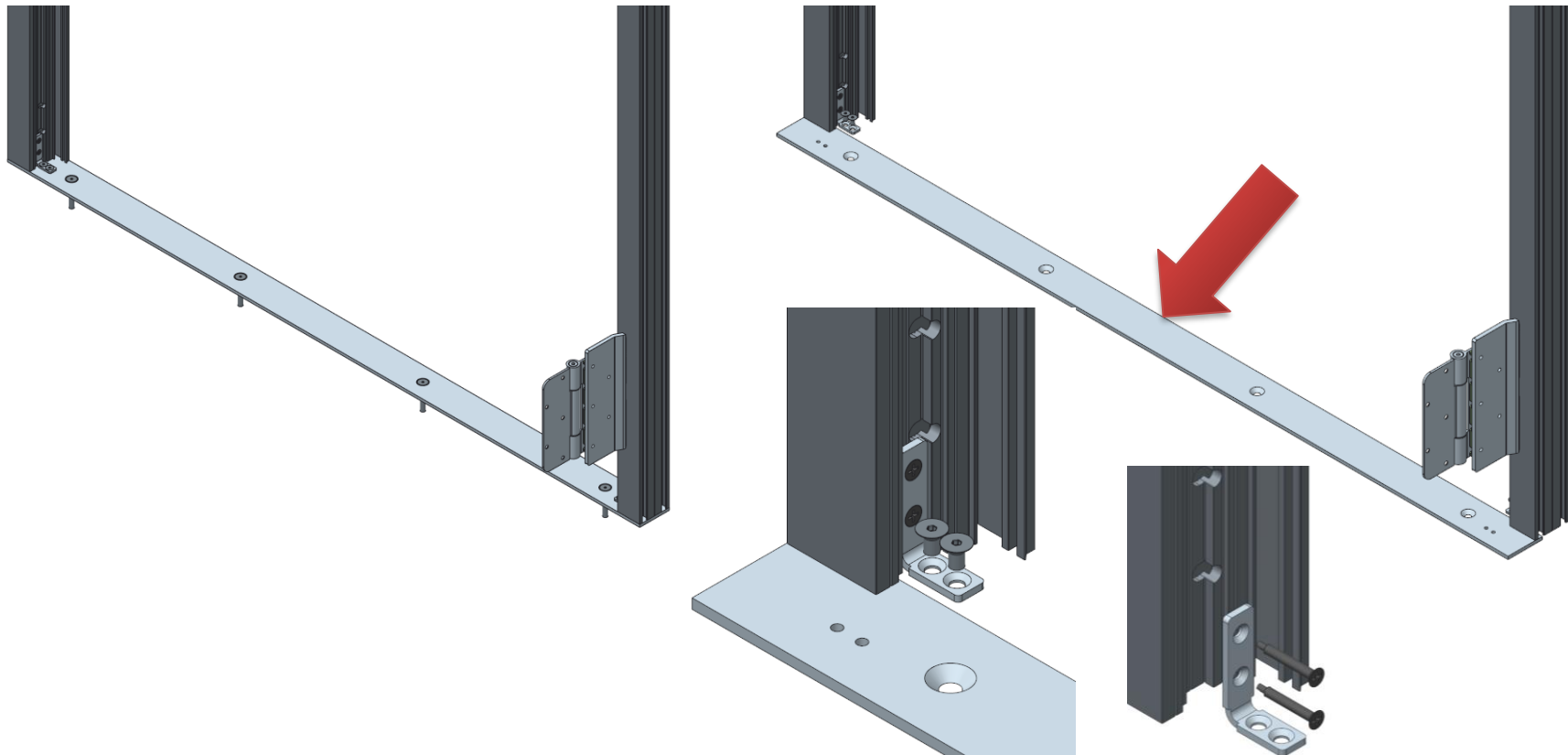
For internal fixing lugs, the frame profiles are pre-drilled and these are drilled directly into the underlying structure (see cross-section below). Installation and method as for external fixing lugs.



- A) Installation in a wall opening

- 2) Internal fixing lugs:

For a door with an incomplete frame, you have the choice to retain the bottom strip or to remove it after affixing the door posts. First loosen the screws M6x10, then slide the bottom strip away and then remove the L-brackets by unscrewing the screws (G0105007).

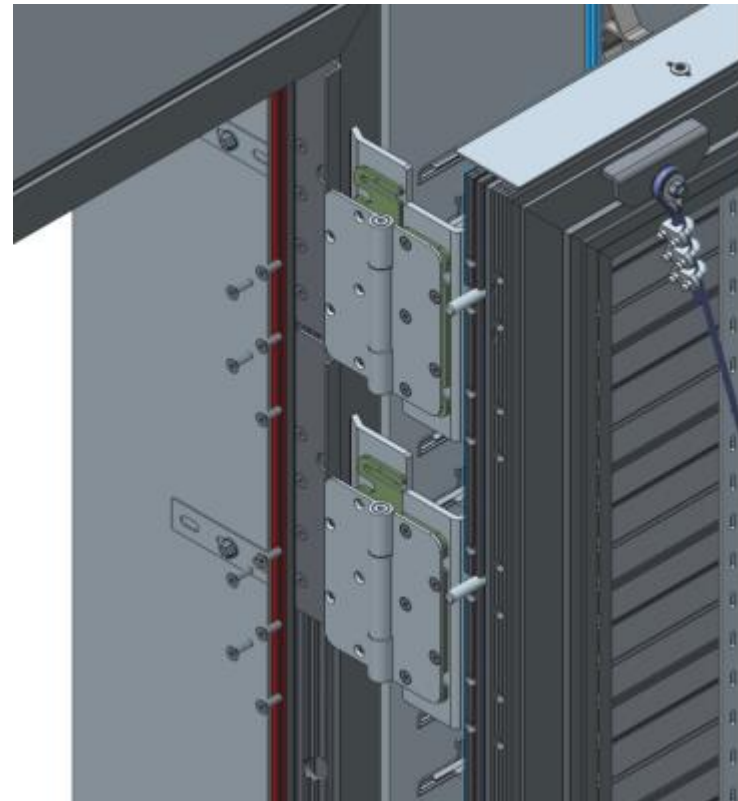
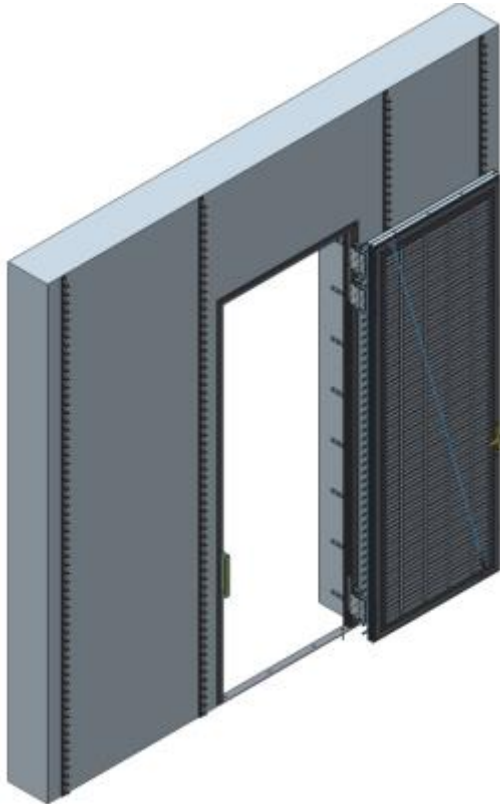


- A) Installation in a wall opening

- 1) External fixing lugs / Internal fixing lugs:

The door portal is now mounted in the opening provided. Now mount the door leaf with the hinges to the frame using the screws M6x20 (G0100677) and the spacer plates.

Use Molykote 1000 spray lubricant when fitting the screws.

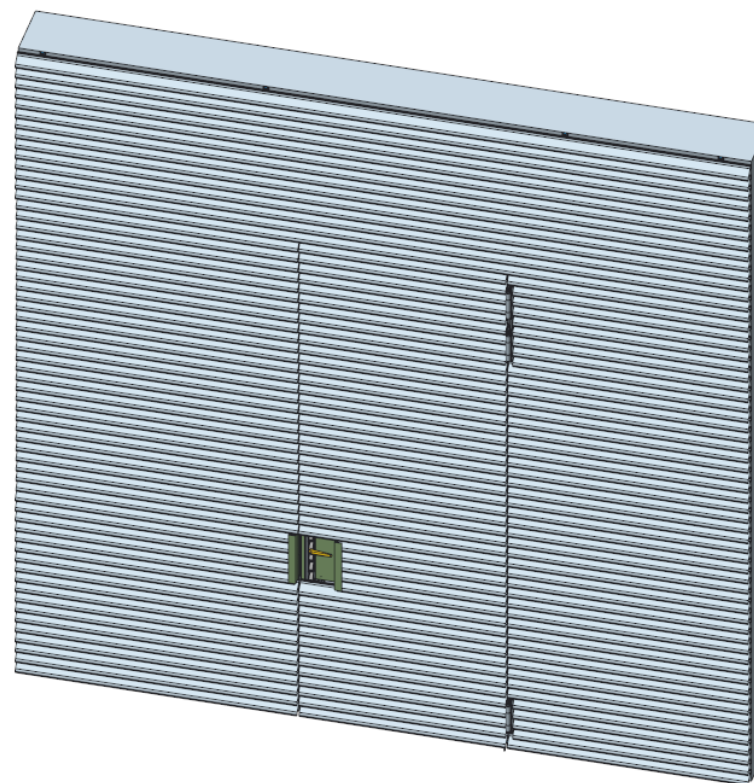
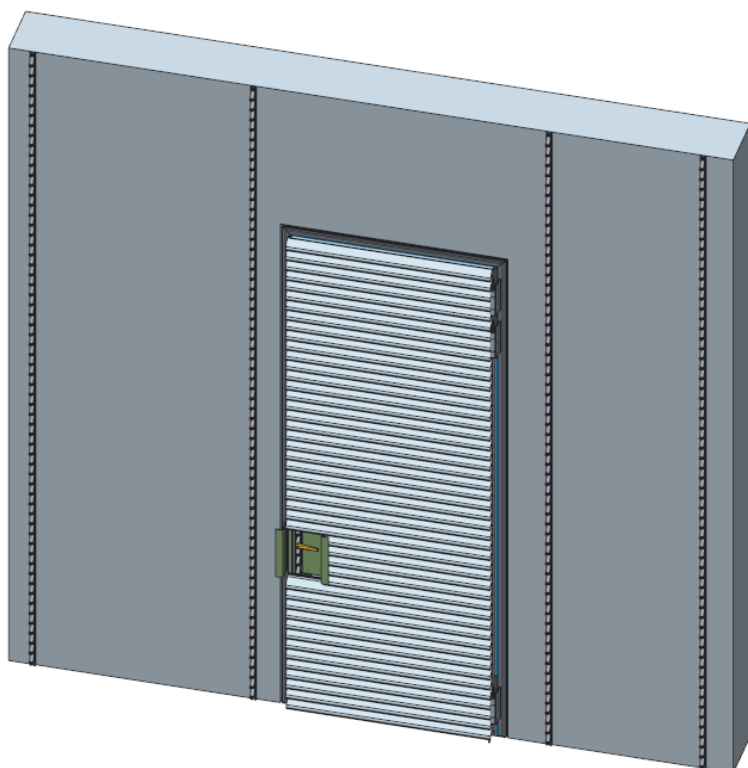




- A) Installation in a wall opening

- 1) External fixing lugs / Internal fixing lugs:

Align the door leaf using the spacer plates (remove plates at the top and add them at the bottom, if the door is sagging). If the door leaf is sagging due to its own weight, this can be compensated for by tightening the traction cable. Check the proper operation of the lock and adjust the strikers. Finish the wall.

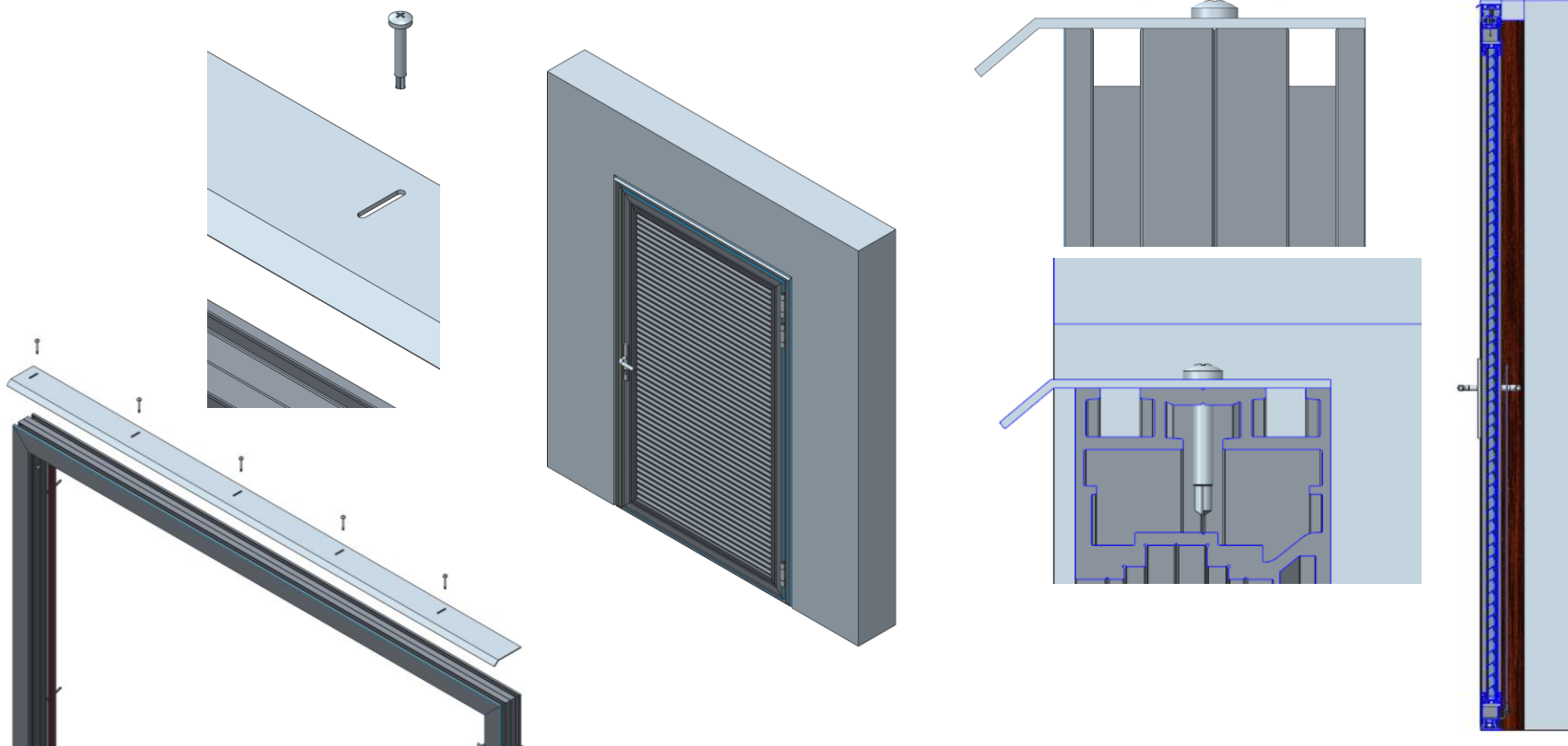


- A) Installation in a wall opening

2) Using a drip sill (P1204030) with a DucoDoor Grille (option):

This drip sill is mounted on top of the frame profile and preferably fixed with a self-drilling screw, e.g. Self-drilling screw 4,2 x 32 DIN 7504-O RVS-A2 PH-2 (G0105007).

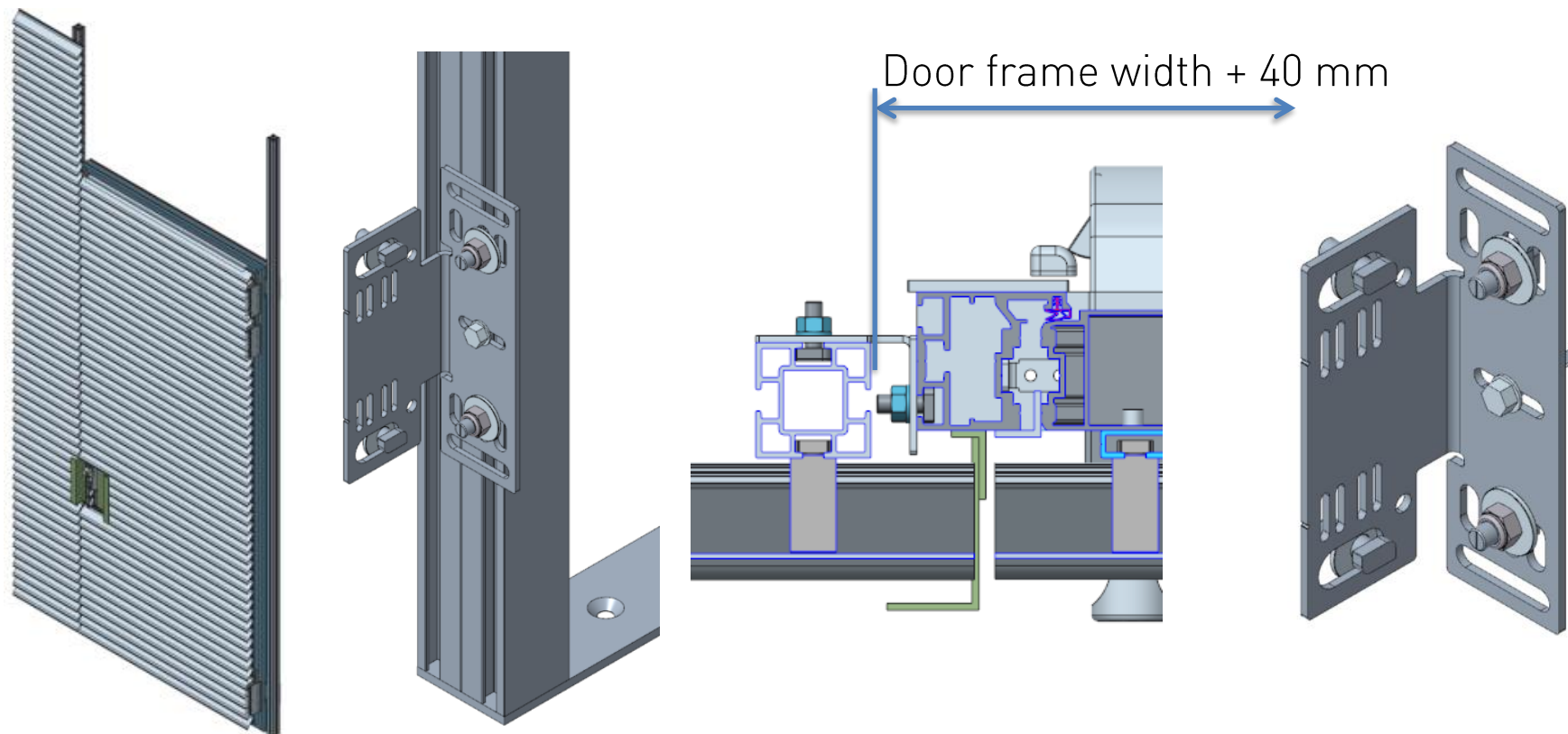
The slotted hole allows the drip sill to be adjusted as required.



- B) Installation in a louvre wall

### 1) DucoWall Classic and DucoWall Acoustic with mullion 50/50:

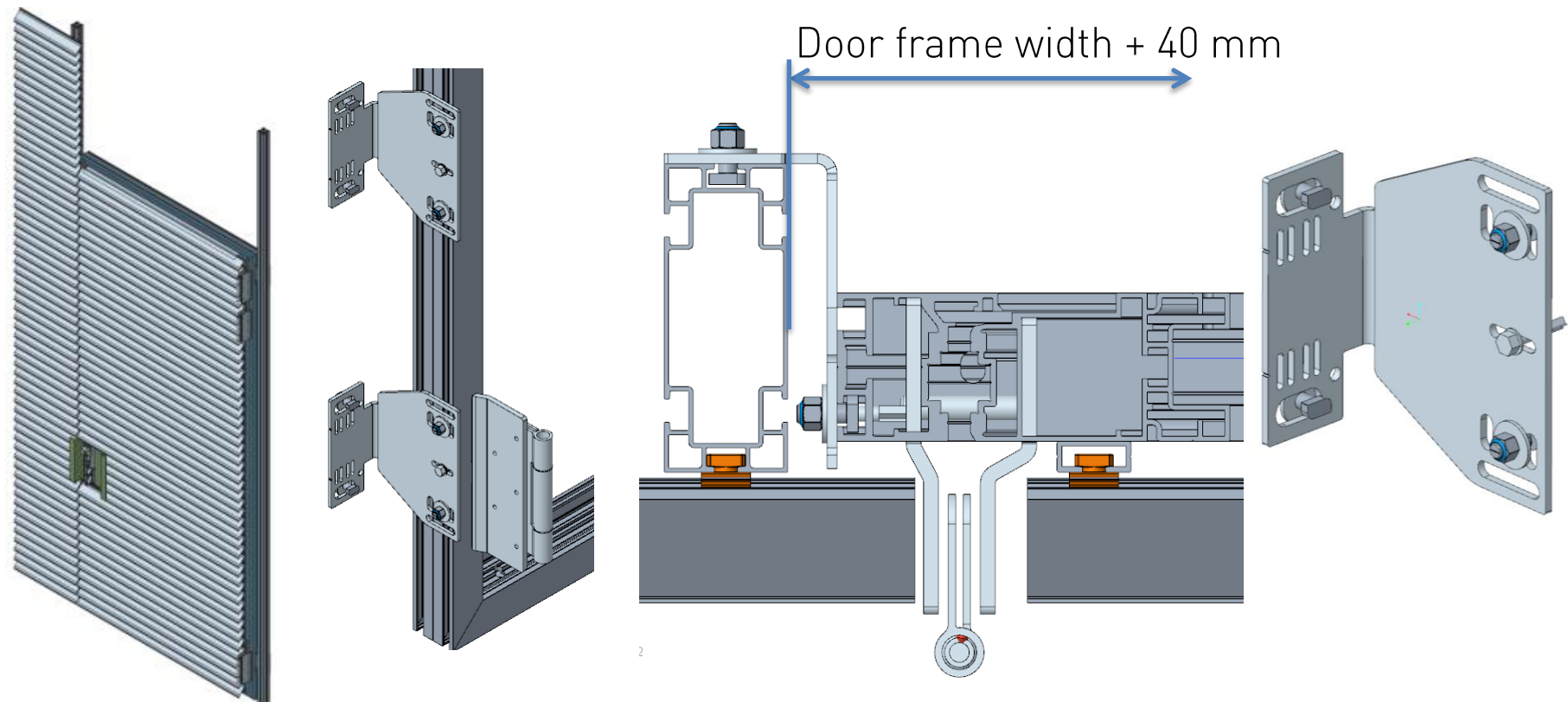
To ensure the door portal fits correctly, we use L-70x51.5x140x3 (G0105031). For a DucoWall Classic with mullion 50/50, the L-profile is mounted as shown below. Secure with T-bolt M8, washer and nut M8, securing the footplate with selftaping bolt 6.3X32MM (G0000300).



- B) Installation in a louvre wall

### 1) DucoWall Classic and DucoWall Acoustic with mullion 50/125:

To ensure the door portal fits correctly, we use L-70x127.5x170x4 (G0105042). For a DucoWall Classic with mullion 125/50, the L-profile is mounted as shown below. Secure with T-bolt M8, washer and nut M8, securing the footplate with selftaping bolt 6.3X32MM (G0000300).



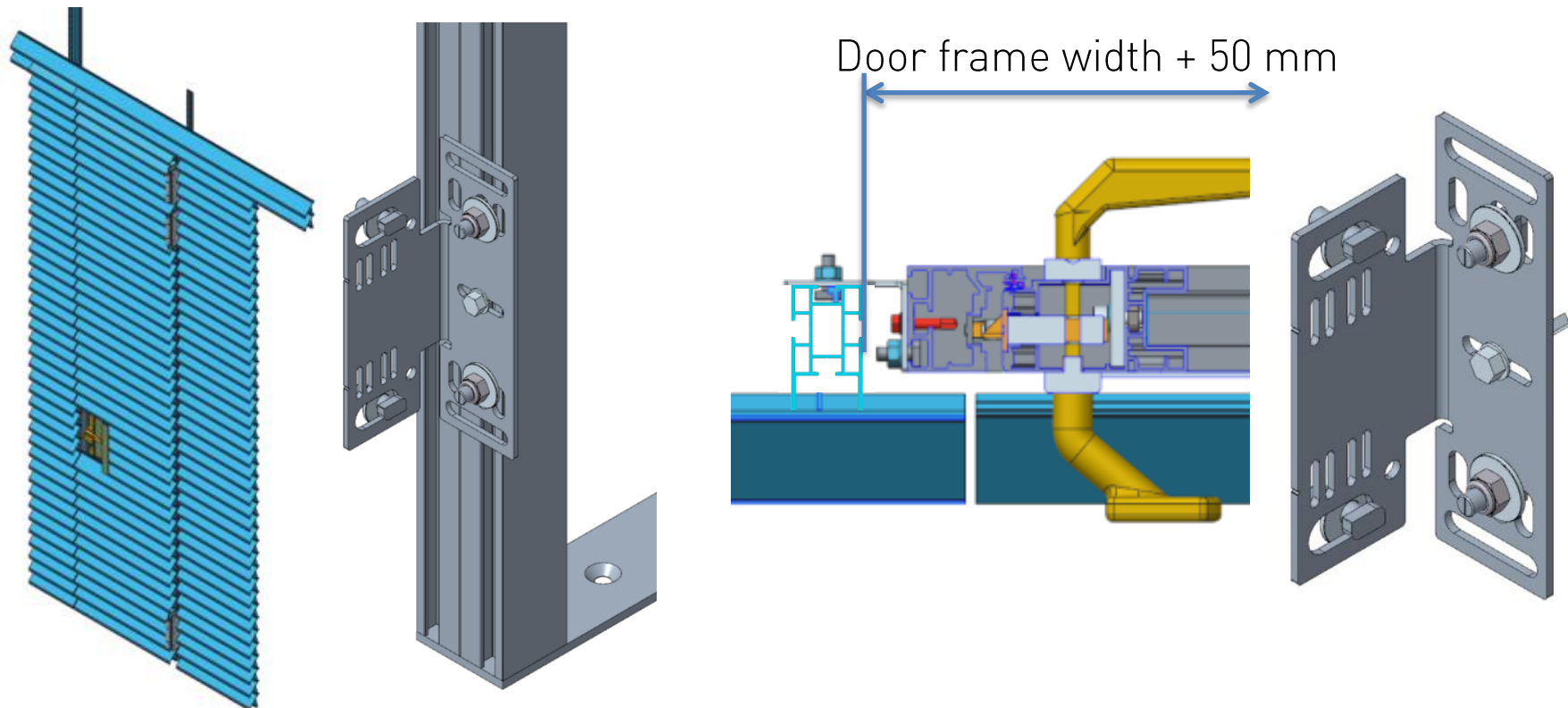
2



- B) Installation in a louvre wall

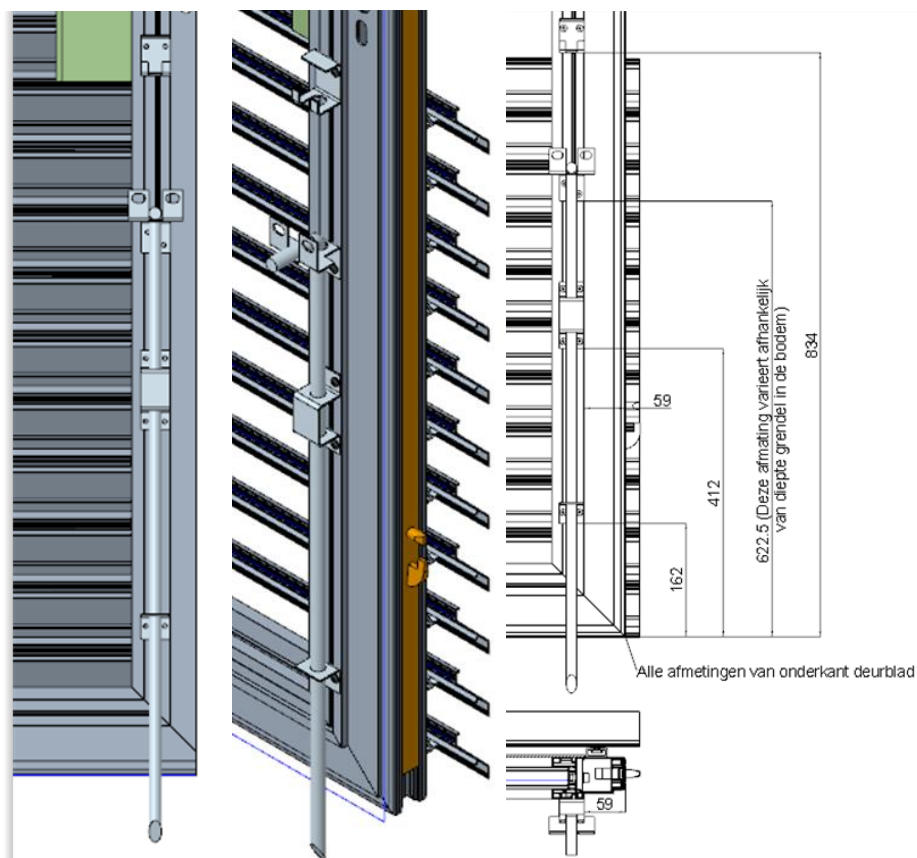
### 3) DucoWall Solid + DucoWall Screening:

To ensure the door portal fits correctly, we use L-70x51.5x140x3 (G0105031). For a DucoWall Solid with mullion 40/70 Double (T1540410), the L-profile is mounted as shown below. Secure with T-bolt M8, washer and nut M8, securing with selftaping bolt 6.3X32MM (G0000300). Installation dimensions = Door frame width + 50 mm



## B) Installation in a louvre wall:

If a door stop cannot be fitted, a stainless steel bolt can be fitted on the inside of the door (S5000084). Fasten using selfdrilling screws DIN Ø4,8x16 (G0000227).

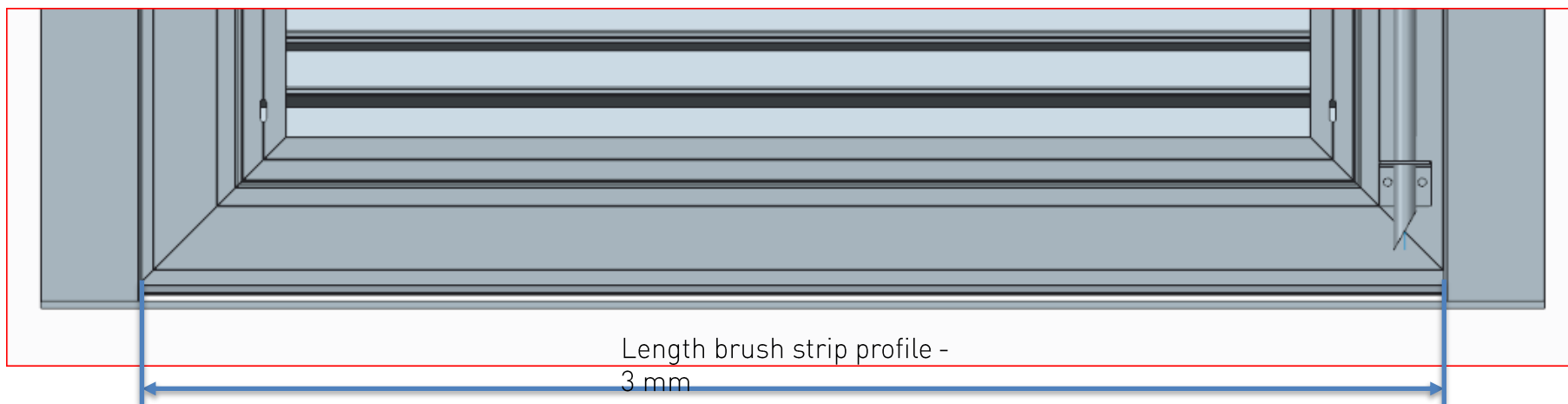


## B) Installation in a louvre wall: Fitting the brush strip profile

A brush strip profile is also supplied with a door with an Incomplete frame (G0004110).

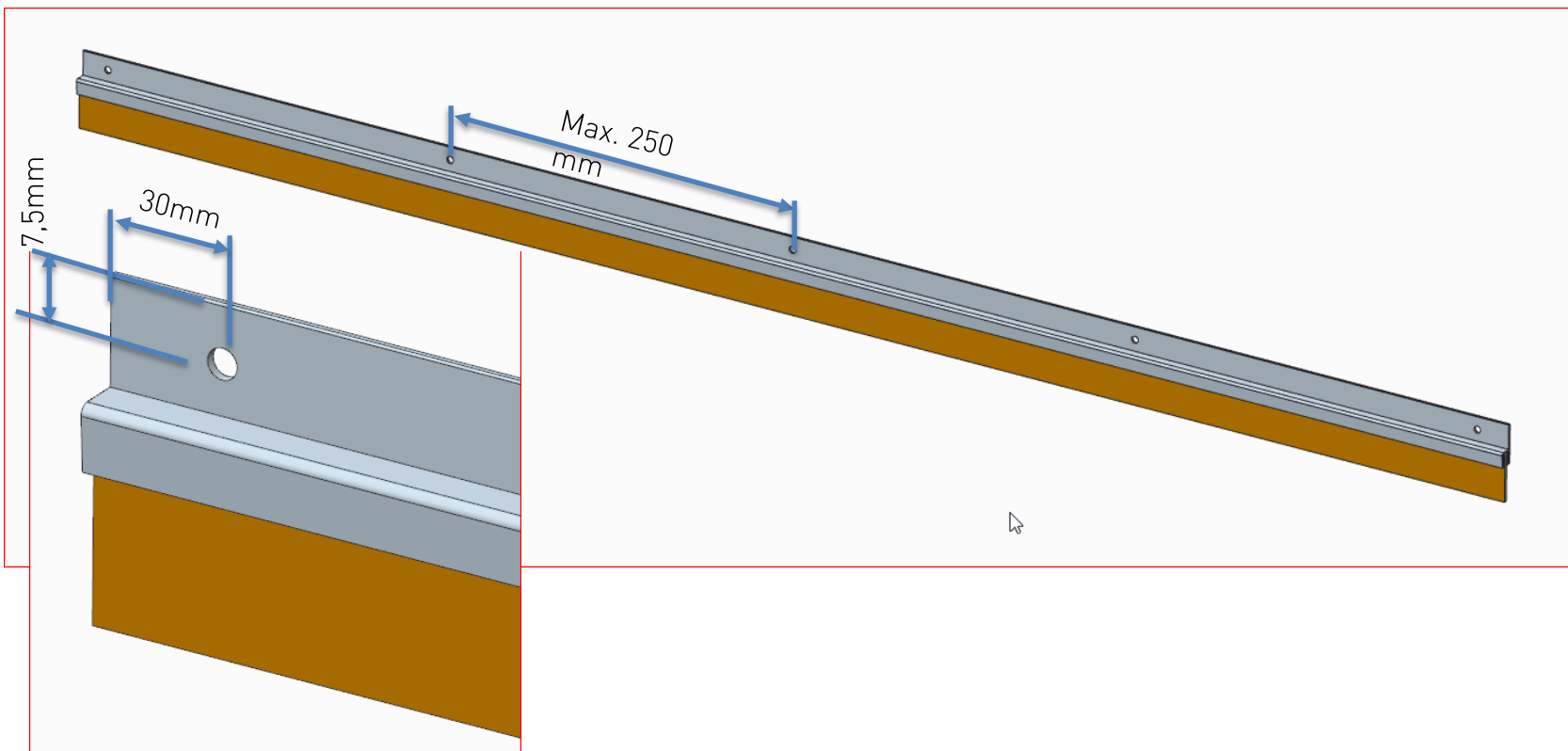
First cut this to the correct size.

+/- 3 mm shorter than the inner dimension of the frame (inside door).



## B) Installation in a louvre wall: Fitting the brush strip profile

After having cut the brush strip profile to the correct length, holes of  $\text{Ø}4.5$  mm should be made. First and last hole on 30 mm from the side and max. 250 mm apart (see drawing below).

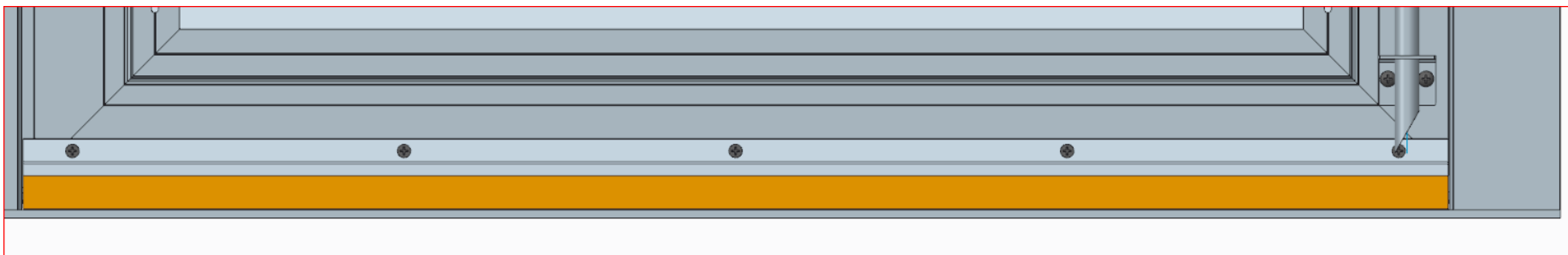




## B) Installation in a louvre wall: Fitting the brush strip profile

After having prepared the brush strip profile, it is mounted on the inside at the bottom of the door using self-drilling screws (G0105007).

Place the brush at a height, so that the bottom connects fits nicely against the floor.



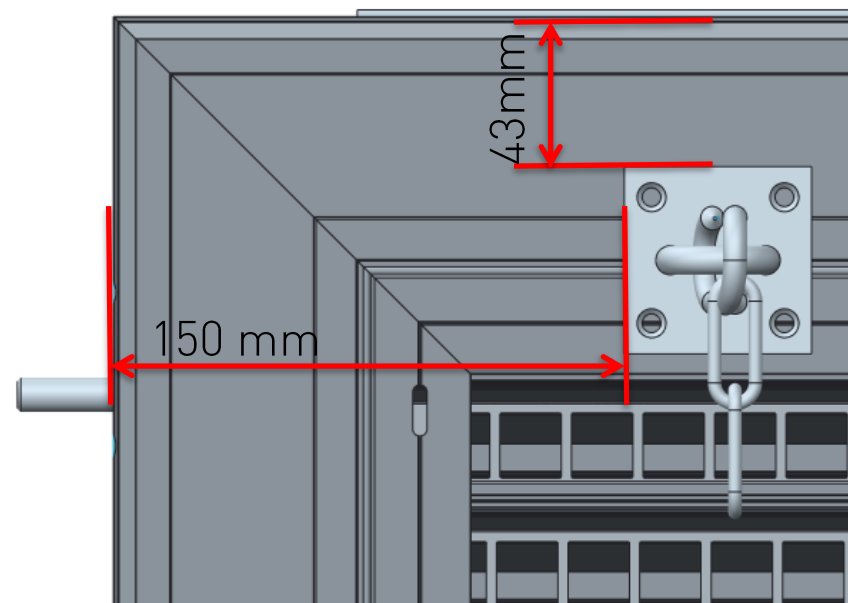
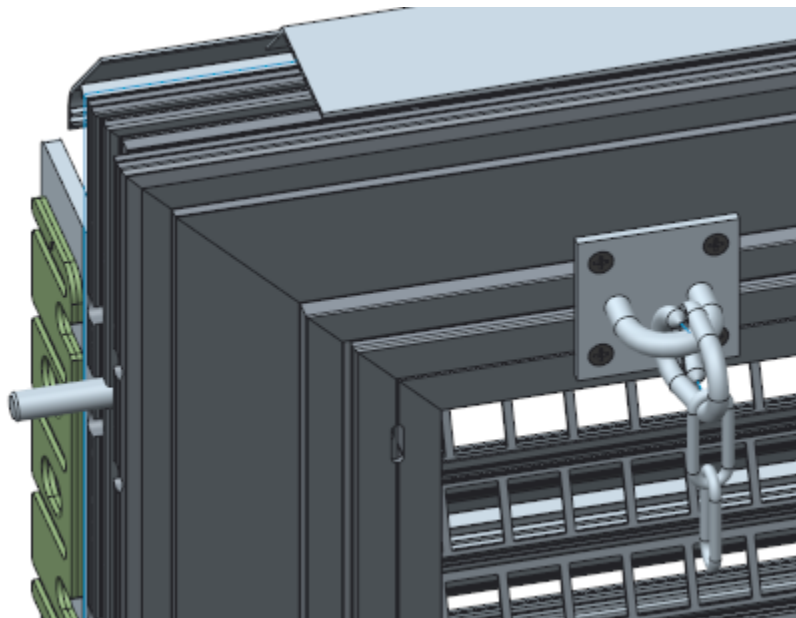
### B) Installation in a louvre wall:

A door protector chain may also be fitted on an outward opening door.

The plate for the door protector chain is to be positioned on the door leaf as follows.

44 mm from the top of the door leaf and +/- 150 mm from the side.

Fasten with 4 self-drilling screws  $\text{Ø}4.8 \times 25$  (G0000228).



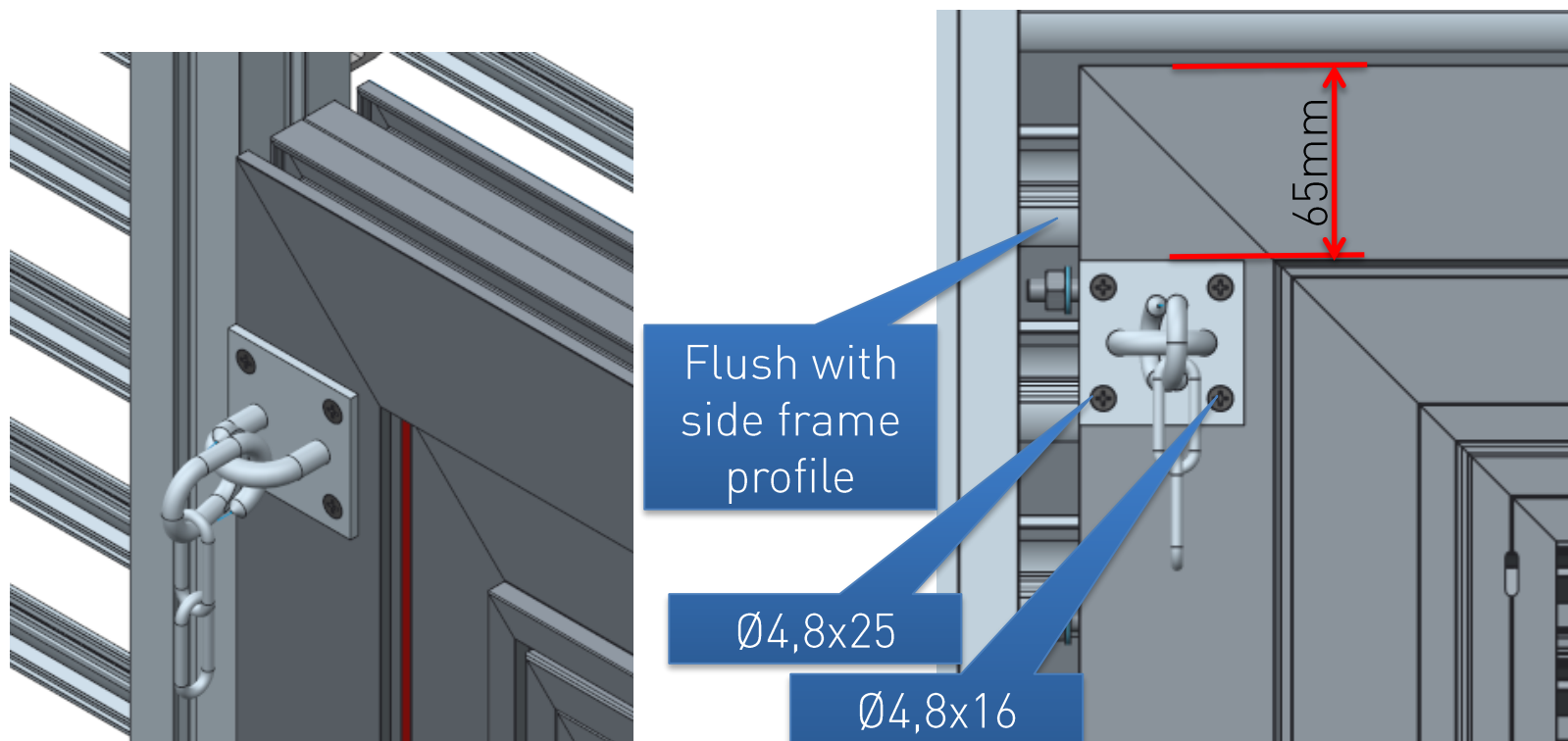
## B) Installation in a louvre wall:

A door protector chain may also be fitted on an outward opening door.

The plate for the door protector chain is to be positioned on the door frame as follows.

44 mm from the top of the door leaf and +/- 150 mm from the side.

Fasten with 4 self-drilling screws  $\text{Ø}4.8 \times 25$  (G0000228), pre-drill with  $\text{Ø}3,5$  mm and 2 screws  $\text{Ø}4,8 \times 16$  (G0105040).



## B) Installation in a louvre wall: Fitting the Door closer

A door closer can also be fitted to an outward or inward opening door. The door closer is always fitted on the inside.

With this type of door, DucoDoor Louvre and DucoDoor Grille, door closers are to be fitted using counter-hinge side transom fitting, for an **OUTWARD** opening door.

The door closer is fitted to the transom on the inside and the matching slide arm is mounted on the inside of the door leaf.

With an **INWARD** opening door, the door closer is to be fitted using hinge-side door leaf fitting.

The door closer is fitted to the door leaf on the inside and the slide arm is mounted on the inside of the transom.

The table below shows the type of door closer to be used with each type of door.

With double doors, only the Active door is fitted with a door closer.

If a different arrangement is desired, then this will be considered a project, and a specific solution will be sought.

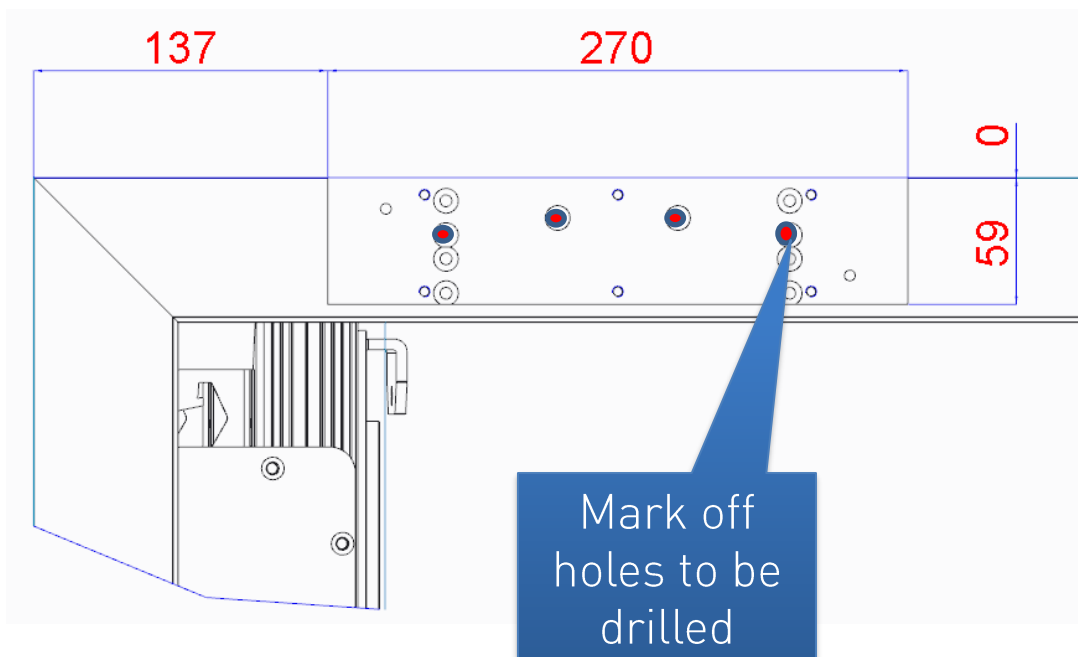
Deurpompen voor DucoDoor Louvre en DucoDoor Grille					
Type Deur	Breedte Deurblad (mm)	Manier van monteren	Type Deurpomp	type glijarm	G-nummer
Naar Buiten draaiend	tot 1250	Kozijndorpelmontage tegenscharnierzijde	TS93B EN 2-5	G-N	G0000564
Naar Buiten draaiend	> 1250 tot 1500	Kozijndorpelmontage tegenscharnierzijde	TS93B EN 5-7	G-N	G0000565
Naar Binnen draaiend	tot 1250	Deurbladmontage scharnierzijde	TS93B EN 2-5	G-N	G0000564
Naar Binnen draaiend	> 1250 tot 1500	Deurbladmontage scharnierzijde	TS93B EN 5-7	G-N	G0000565

## B) Installation in a louvre wall: Fitting the Door closer type TS93 B EN2-5

Fitting a door closer to an **OUTWARD** opening door is discussed below.

This is also called counter-hinge side transom fitting.

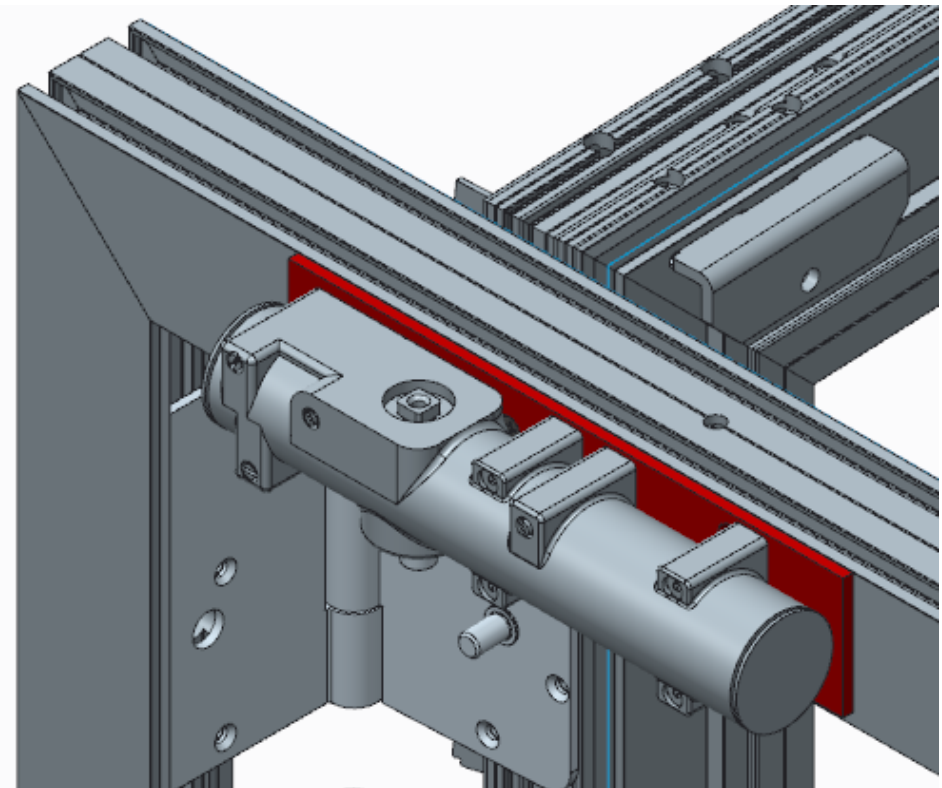
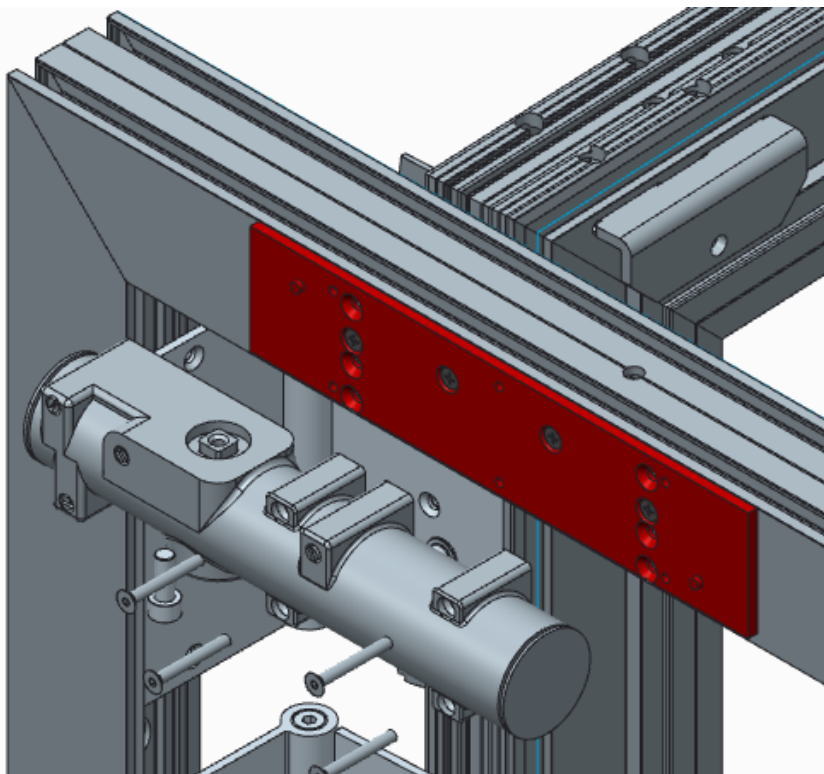
- 1) Mark off the mounting plate to which the door closer will be fitted. Position the mounting plate as shown on the drawing below, flush with the frame profile at the top and at 137 mm from the edge.
- 2) Mark off the holes where we will be fixing the mounting plate with 4 screws type DIN 7504 Ø4,8x25 (G0000228).
- 3) Pre-drill the holes with Ø3.5 mm.
- 4) Fix the mounting plate with 4 screws type DIN 7504 Ø4,8x25 (G0000228).



## B) Installation in a louvre wall: Fitting the Door closer type TS93 B EN2-5

Fitting a door closer to an **OUTWARD** opening door is discussed below.

5) Fit the door closer using the screws M5x40 supplied.



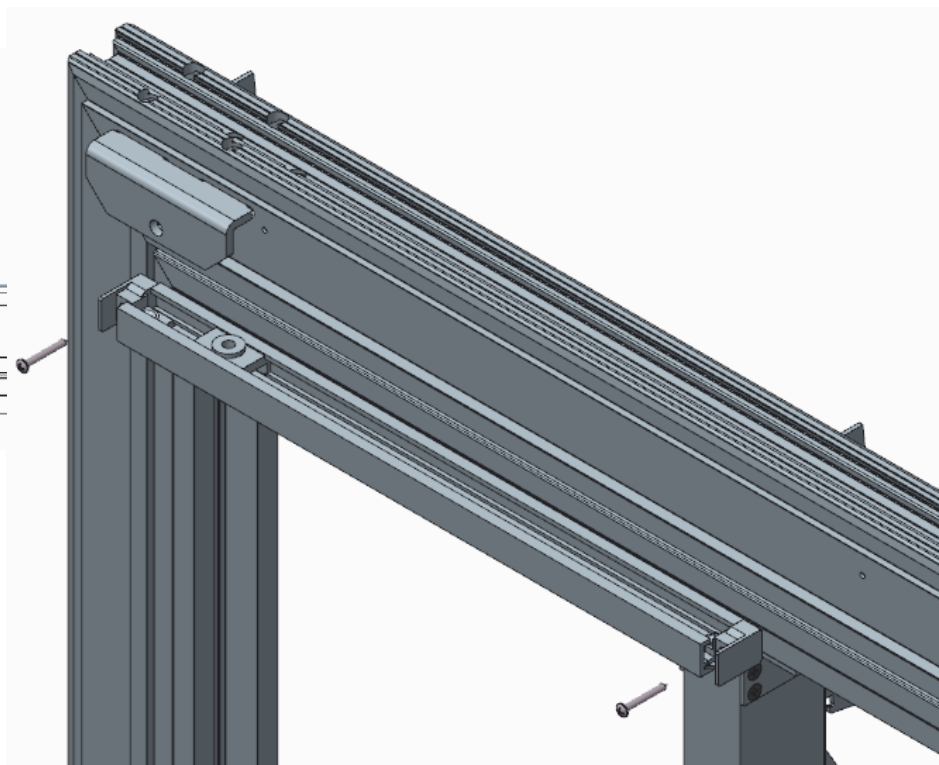
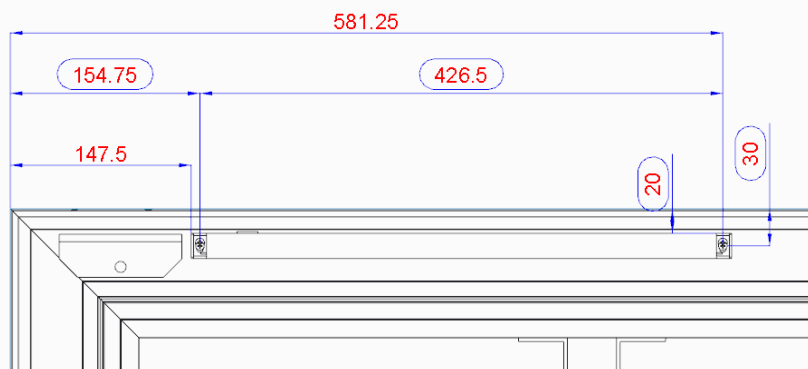
## B) Installation in a louvre wall: Fitting the Door closer type TS93 B EN2-5

Fitting a door closer to an **OUTWARD** opening door is discussed below.

6) Mark off the slide arm on the door leaf (inside), according to the drawing below.

7) Pre-drill with  $\text{Ø}3.5$  mm.

8) Fix the slide arm with the screws  $\text{Ø}5 \times 45$  provided.



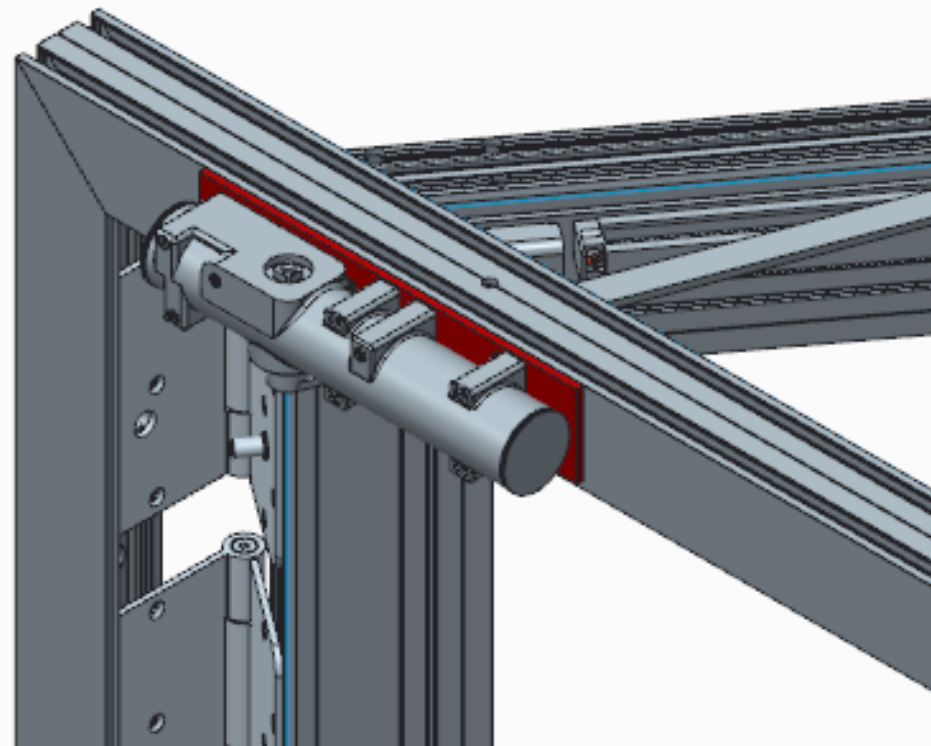
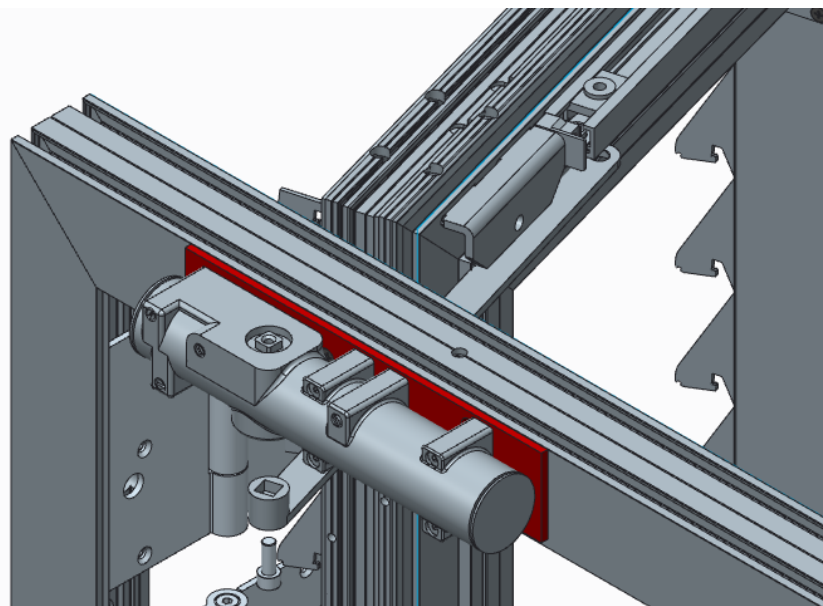


## B) Installation in a louvre wall: Fitting the Door closer type TS93 B EN2-5

Fitting a door closer to an **OUTWARD** opening door is discussed below.

9) Fit the transfer arm to the door closer and to the slide arm with the parts supplied.

10) Adjust the door closer according to the instructions supplied.



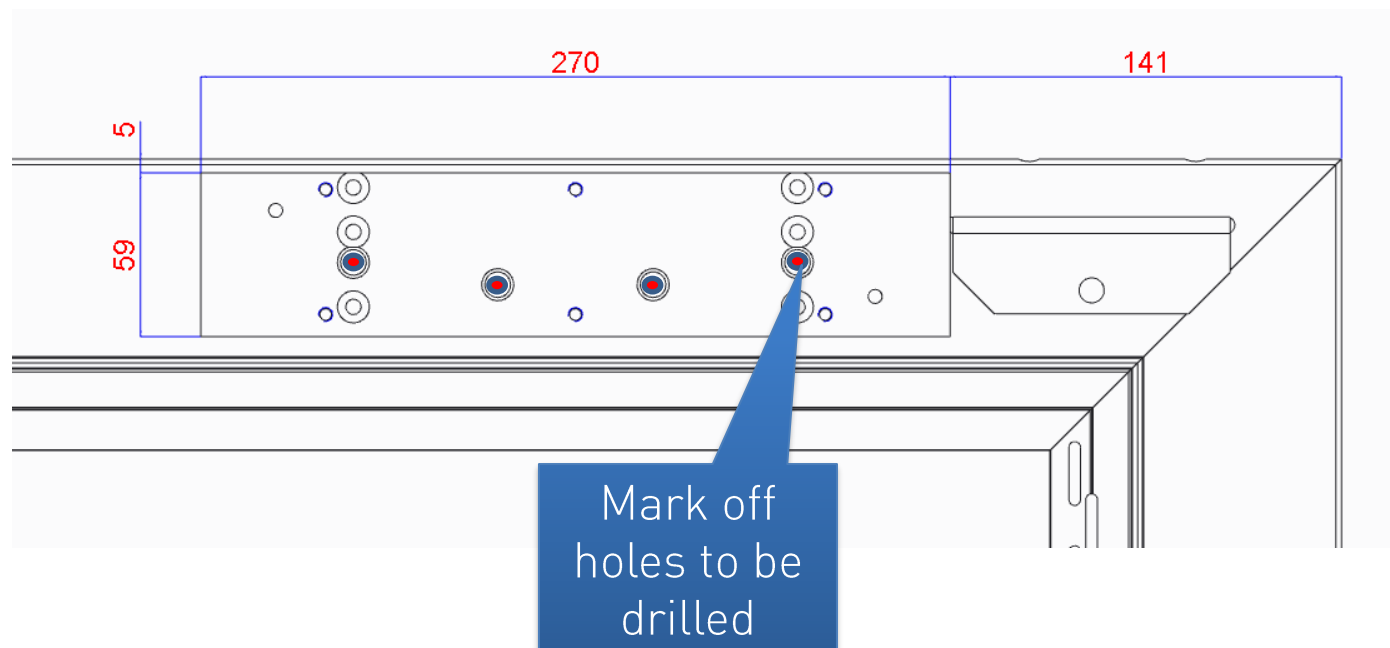


## B) Installation in a louvre wall: Fitting the Door closer type TS93 B EN2-5

Fitting a door closer to an **INWARD** opening door is discussed below.

This is also called hinge-side door leaf fitting (Fitting the door pump to the door leaf).

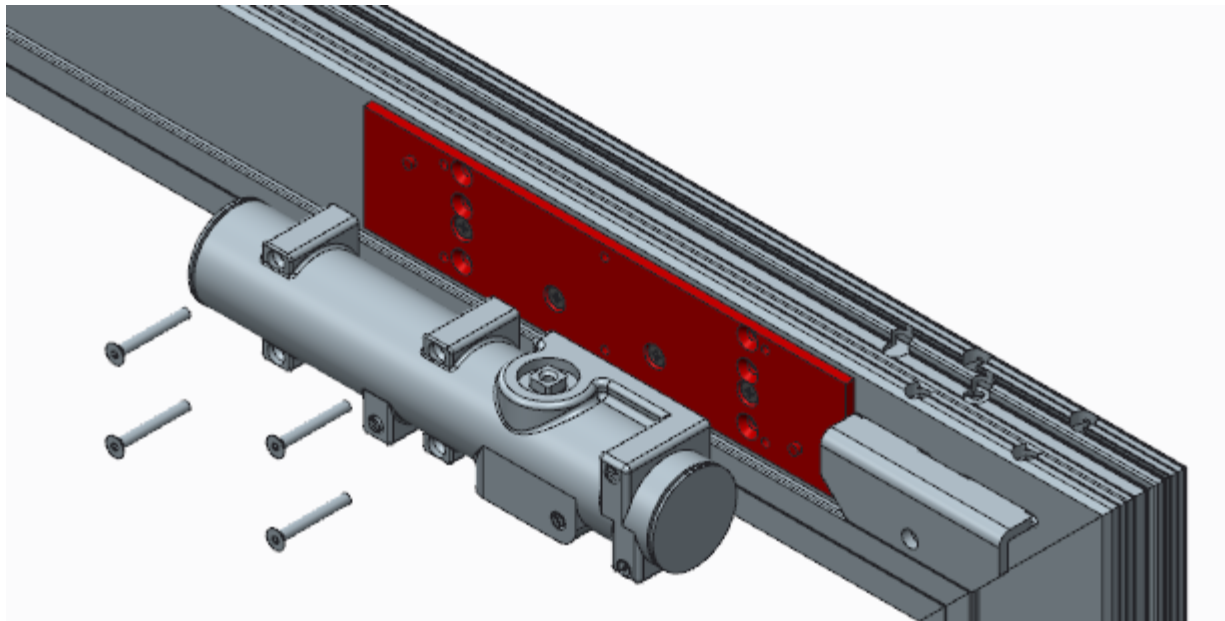
- 1) Mark off the mounting plate to which the door closer will be fitted. Position the mounting plate as shown on the drawing below, flush with the frame profile at the top and at 137 mm from the edge.
- 2) Mark off the holes where we will be fixing the mounting plate with 4 screws type DIN 7504 Ø4,8x25 (G0000228).
- 3) Pre-drill the holes with Ø3.5 mm.
- 4) Fix the mounting plate with 4 screws type DIN 7504 Ø4,8x25 (G0000228).



## B) Installation in a louvre wall: Fitting the Door closer type TS93 B EN2-5

Fitting a door closer to an **INWARD** opening door is discussed below.

5) Fit the door closer using the screws M5x40 supplied to the door leaf.



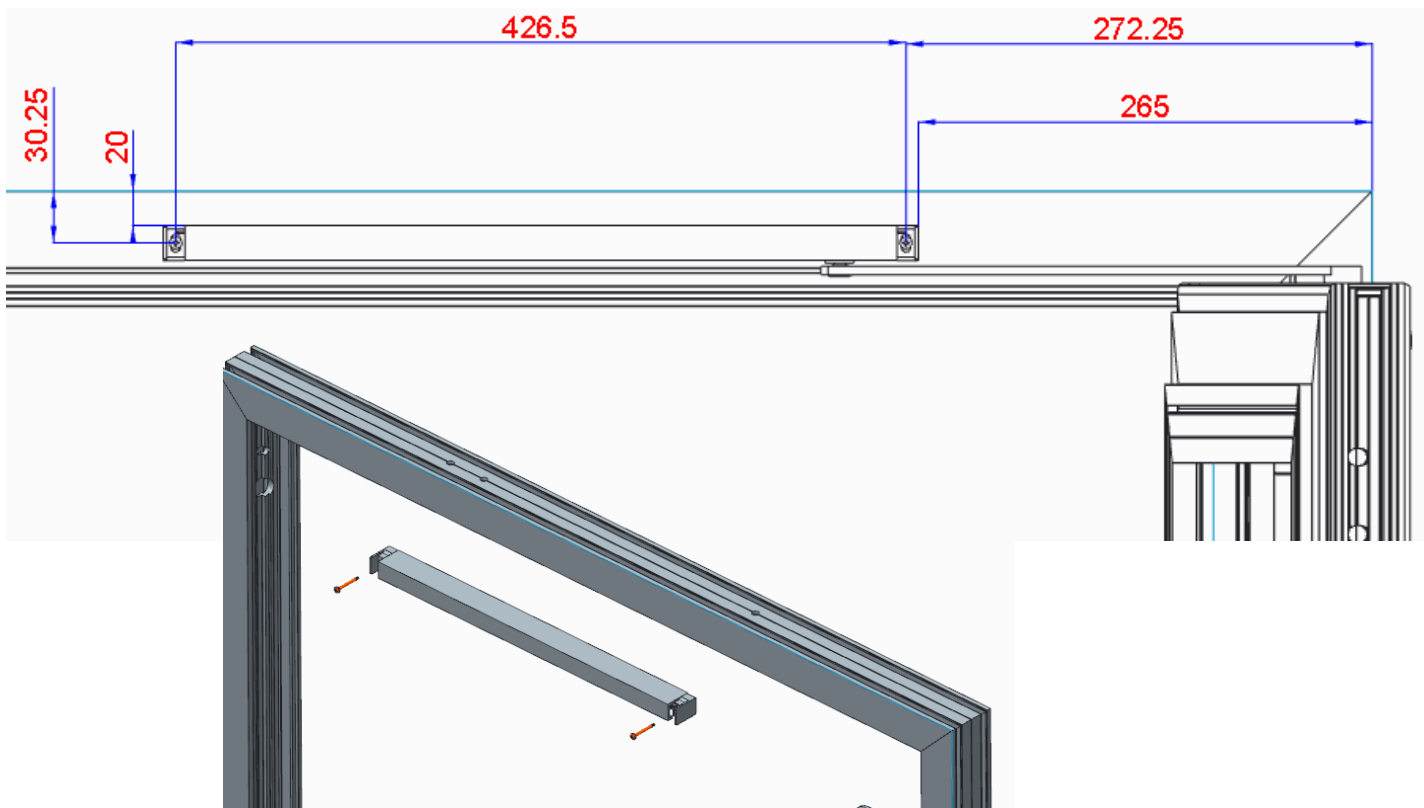
## B) Installation in a louvre wall: Fitting the Door closer type TS93 B EN2-5

Fitting a door closer to an **INWARD** opening door is discussed below.

6) Mark off the slide arm on the door profile (inside), according to the drawing below.

7) Pre-drill with  $\text{Ø}3.5$  mm.

8) Fix the slide arm with the screws  $\text{Ø}5 \times 45$  provided.

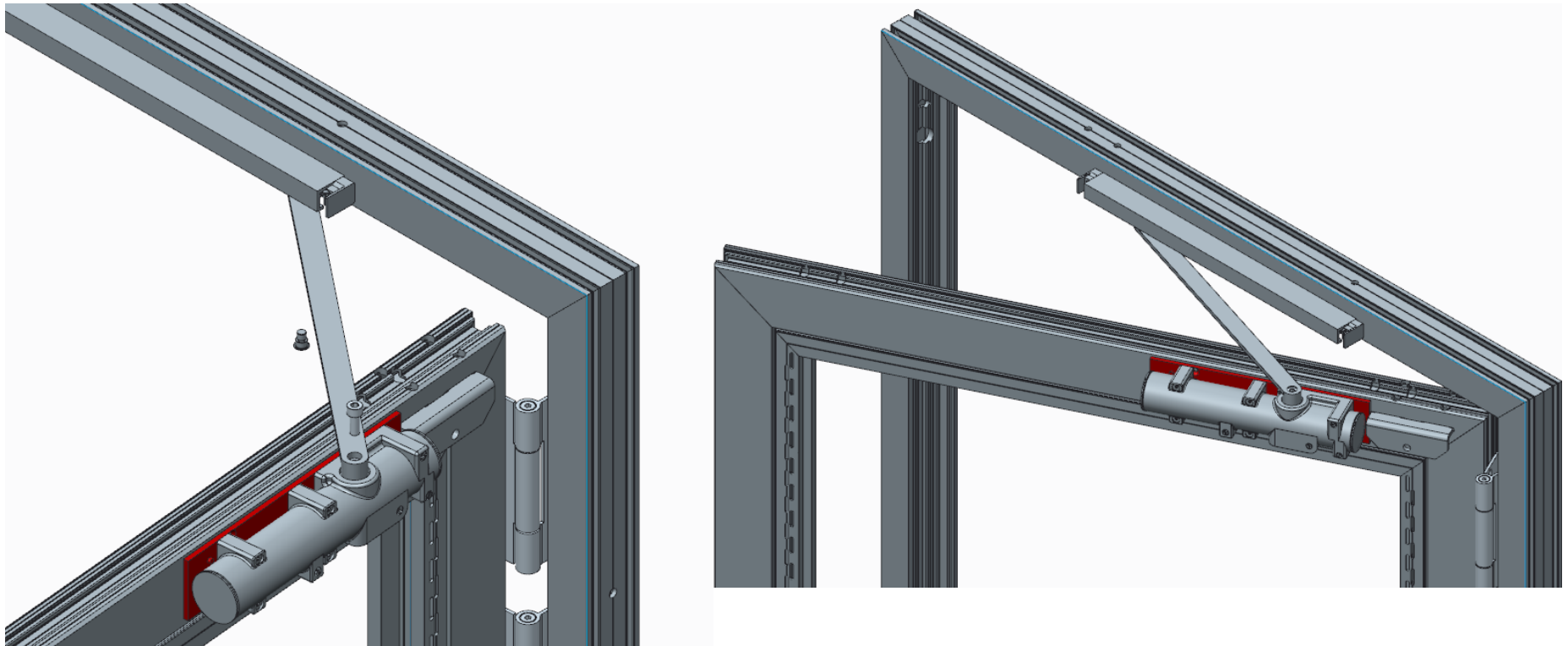


## B) Installation in a louvre wall: Fitting the Door closer type TS93 B EN2-5

Fitting a door closer to an **INWARD** opening door is discussed below.

9) Fit the transfer arm to the door closer and to the slide arm with the parts supplied.

10) Adjust the door closer according to the instructions supplied.

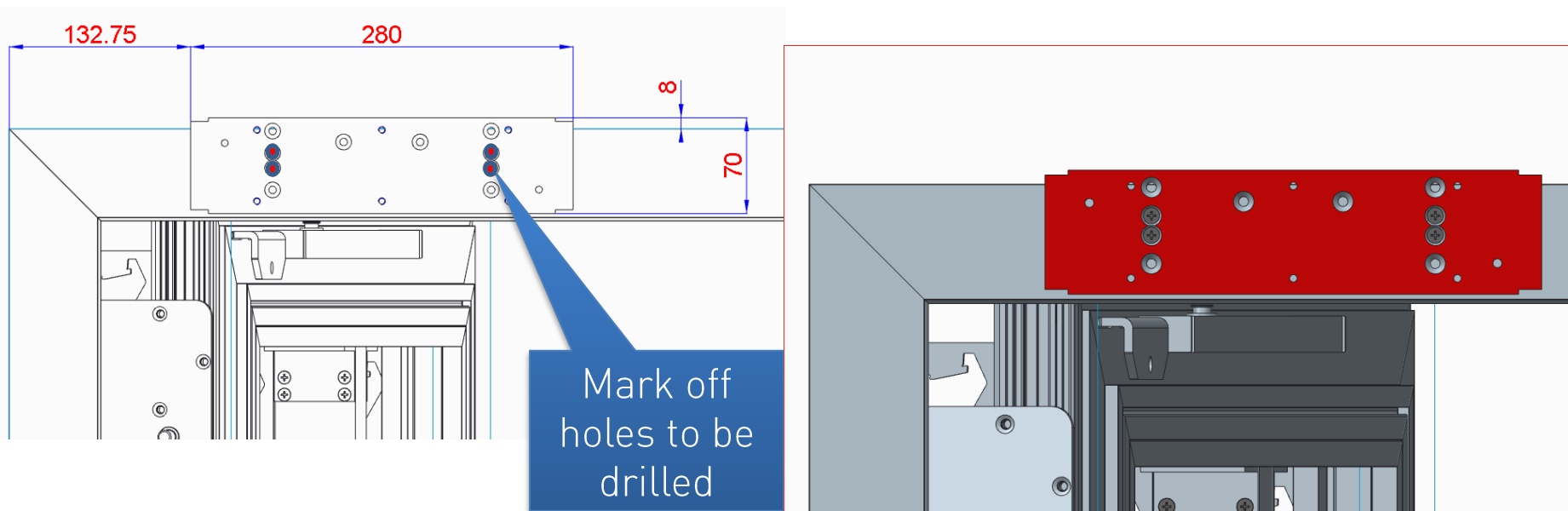


## B) Installation in a louvre wall: Fitting the Door closer type TS93 B EN 5-7

- This fitting is similar to the fitting for a type TS93 B EN 2-5 with an **OUTWARD** opening door.

This is also called counter-hinge side transom fitting.

- 1) Mark off the mounting plate to which the door closer will be fitted. Position the mounting plate as shown on the drawing below, 8 mm above the frame profile at the top and at 133 mm from the edge.
- 2) Mark off the holes where we will be fixing the mounting plate with 4 screws type DIN 7504 Ø4,8x25 (G0000228).
- 3) Pre-drill the holes with Ø3.5 mm.
- 4) Fix the mounting plate with 4 screws type DIN 7504 Ø4,8x25 (G0000228).



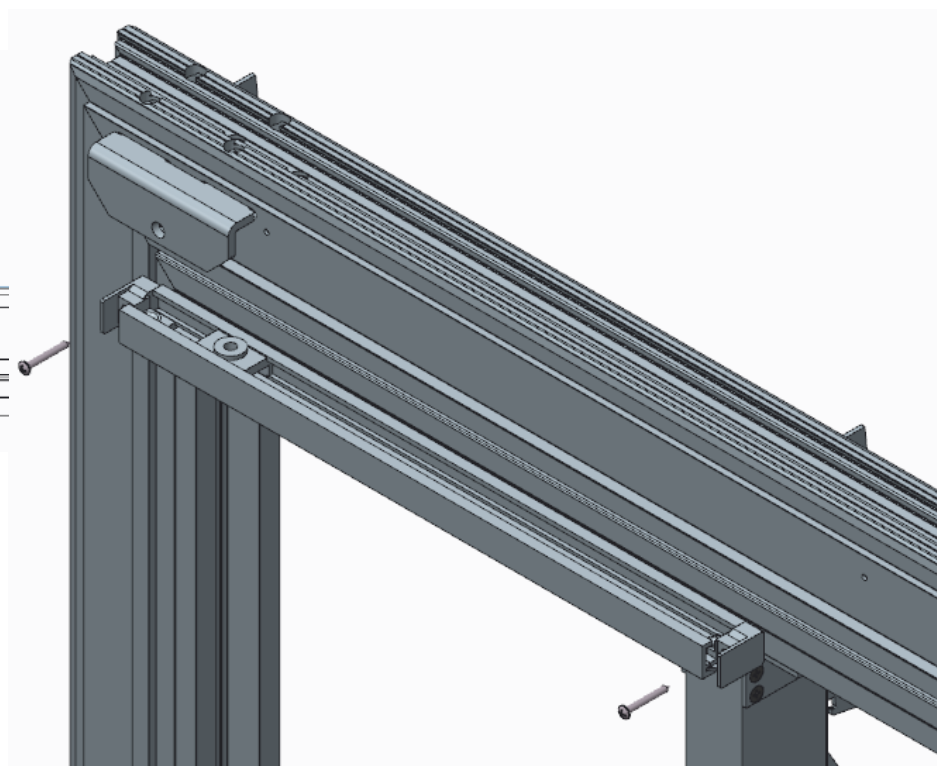
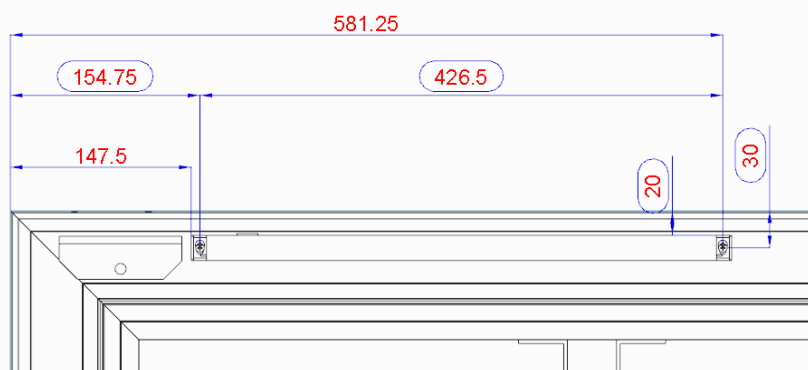
## B) Installation in a louvre wall: Fitting the door closer TS93 B EN 5-7

Fitting a door closer to an **OUTWARD** opening door is discussed below.

5) Mark off the slide arm on the door leaf (inside), according to the drawing below.

6) Pre-drill with  $\text{Ø}3.5$  mm

7) Fix the slide arm with the screws  $\text{Ø}5 \times 45$  supplied

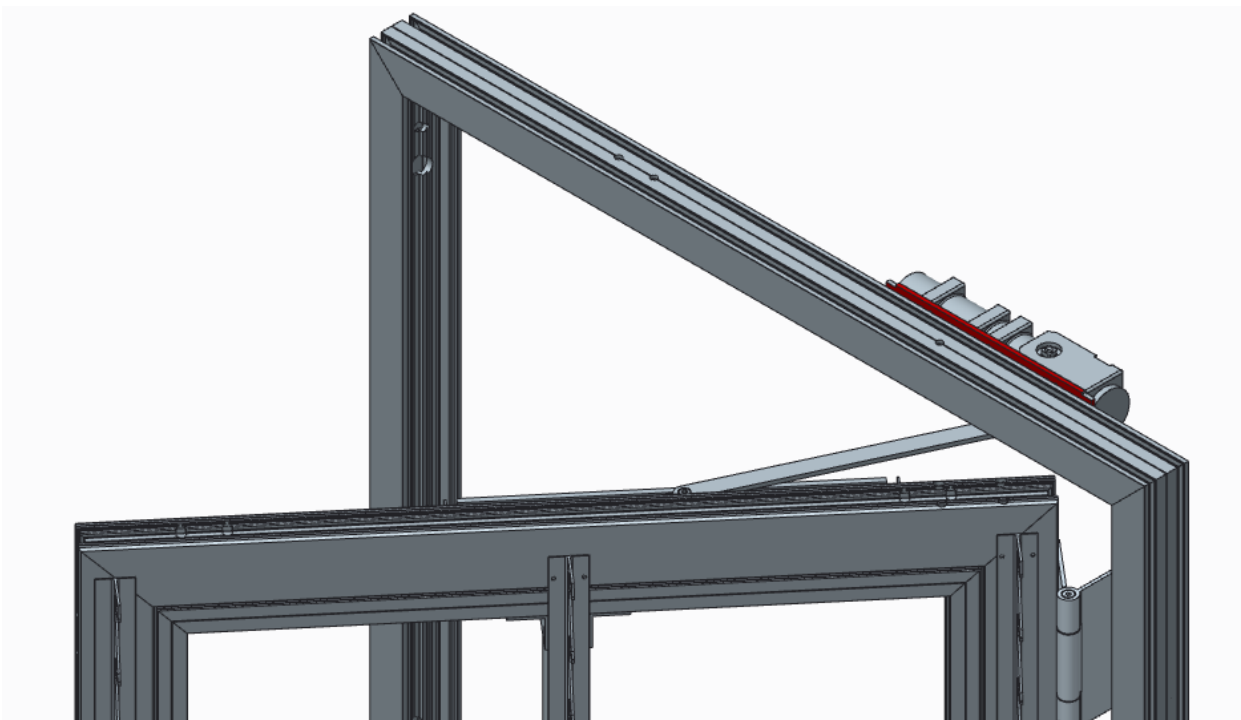


## B) Installation in a louvre wall: Fitting the door closer TS93 B EN 5-7

Fitting a door closer to an **OUTWARD** opening door is discussed below.

8) Fit the door closer and the transfer arm to the door closer and to the slide arm with the parts supplied.

9) Adjust the door closer according to the instructions supplied.



## B) Installation in a louvre wall: Fitting the door closer TS93 B EN 5-7

Fitting a door closer to an **INWARD** opening door is discussed below.

This is also called hinge-side door leaf fitting (Fitting the door pump to the door leaf).

- 1) Mark off the mounting plate to which the door closer will be fitted. Position the mounting plate as shown in the drawing below, 2 mm below the frame profile at the top and at 141 mm from the edge.
- 2) Mark off the holes where we will be fixing the mounting plate with 4 screws type DIN 7504 Ø4,8x25 (G0000228).
- 3) Pre-drill the holes with Ø3.5 mm.
- 4) Fix the mounting plate with 4 screws type DIN 7504 Ø4,8x25 (G0000228).





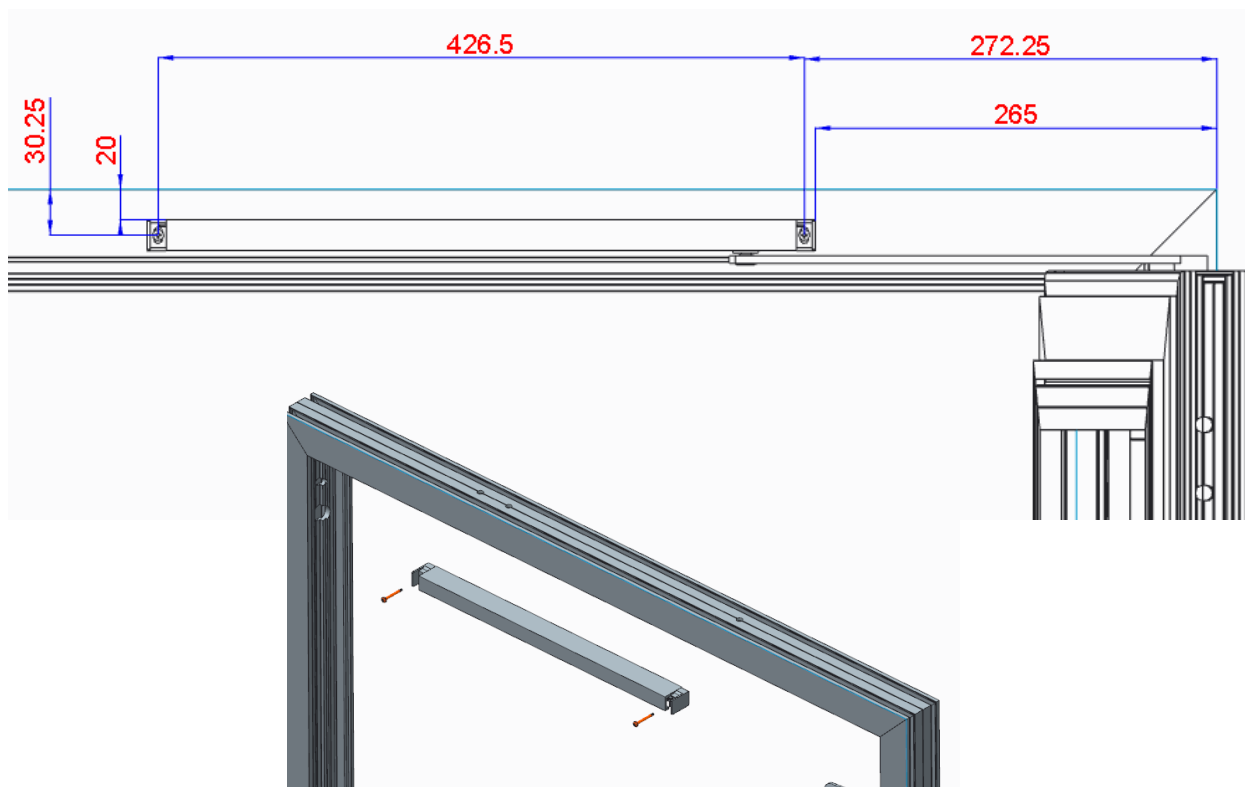
## B) Installation in a louvre wall: Fitting the door closer TS93 B EN 5-7

Fitting a door closer to an **INWARD** opening door is discussed below.

5) Mark off the slide arm on the door profile (inside), according to the drawing below.

6) Pre-drill with  $\text{Ø}3.5$  mm

7) Fix the slide arm with the screws  $\text{Ø}5 \times 45$  supplied

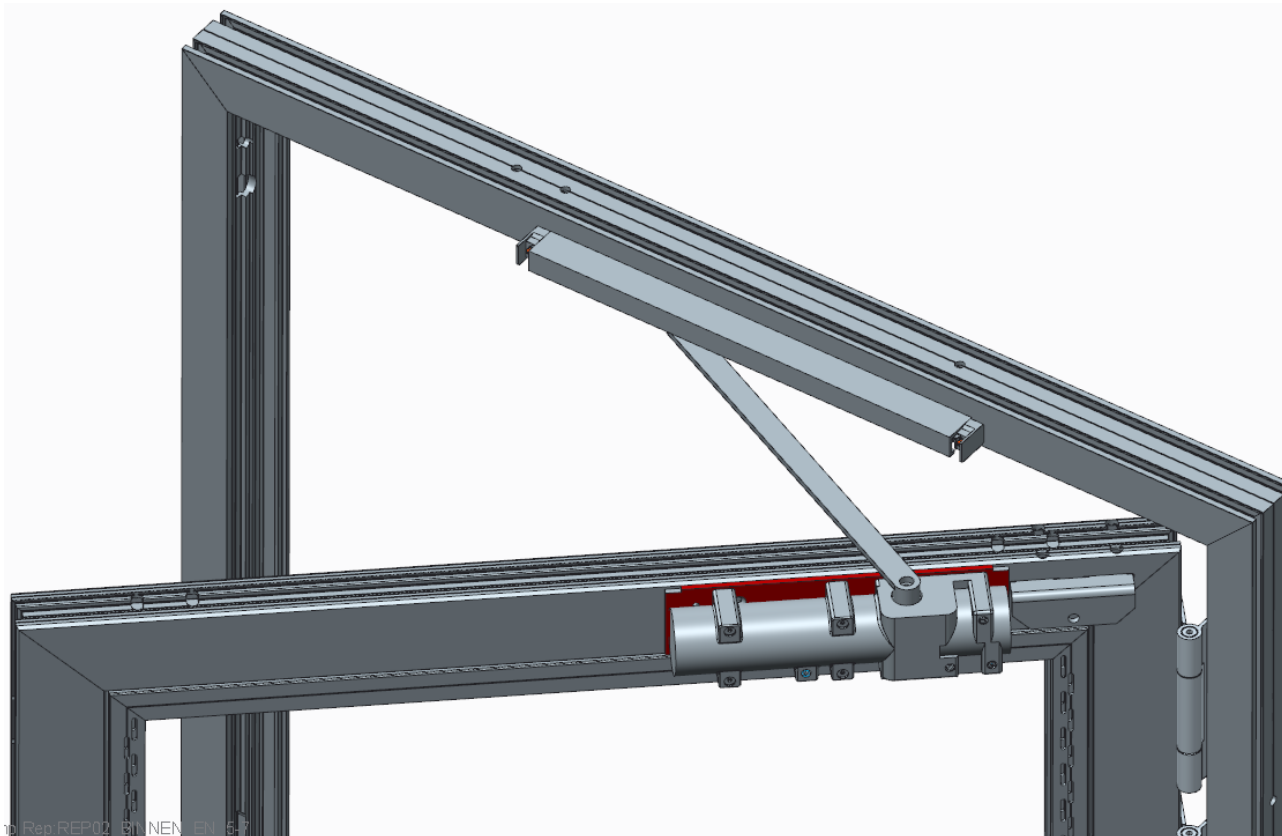


## B) Installation in a louvre wall: Fitting the door closer TS93 B EN 5-7

Fitting a door closer to an **INWARD** opening door is discussed below.

8) Fit the transfer arm to the door closer and to the slide arm with the parts supplied.

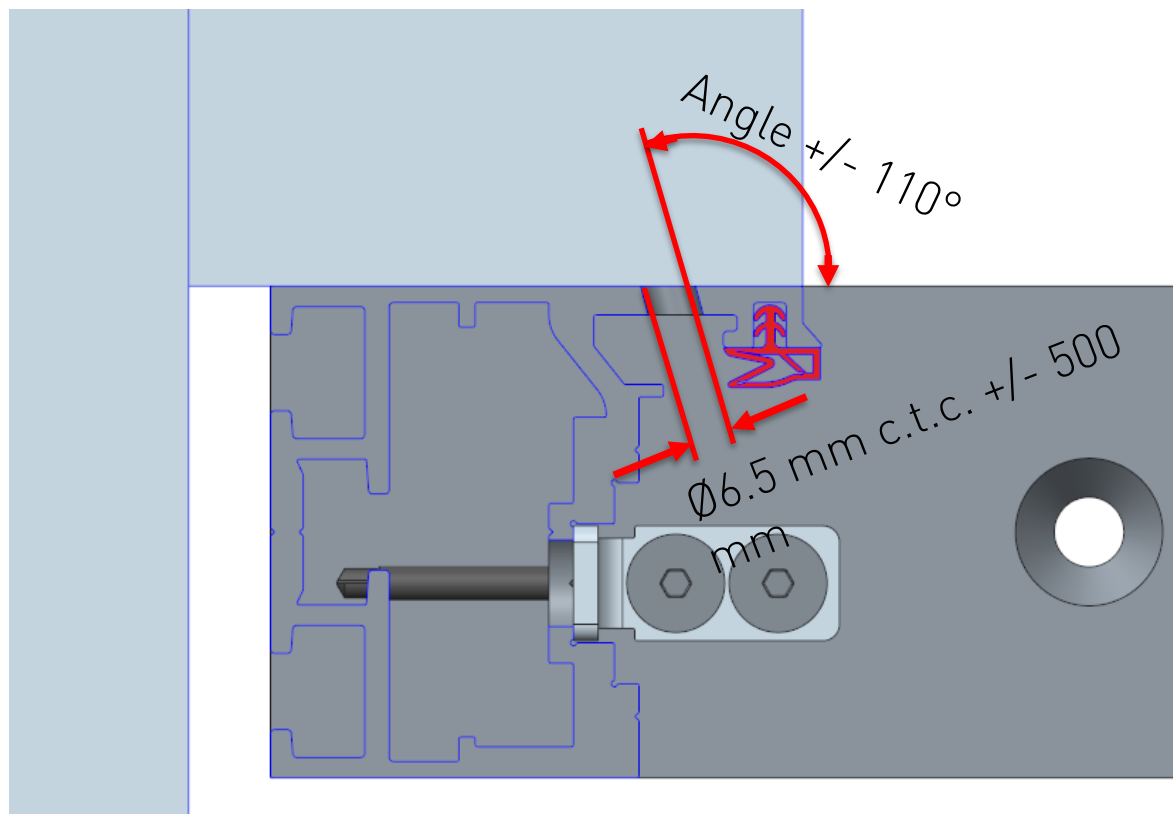
9) Adjust the door closer according to the instructions supplied.



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C) Installation in a structural frame:

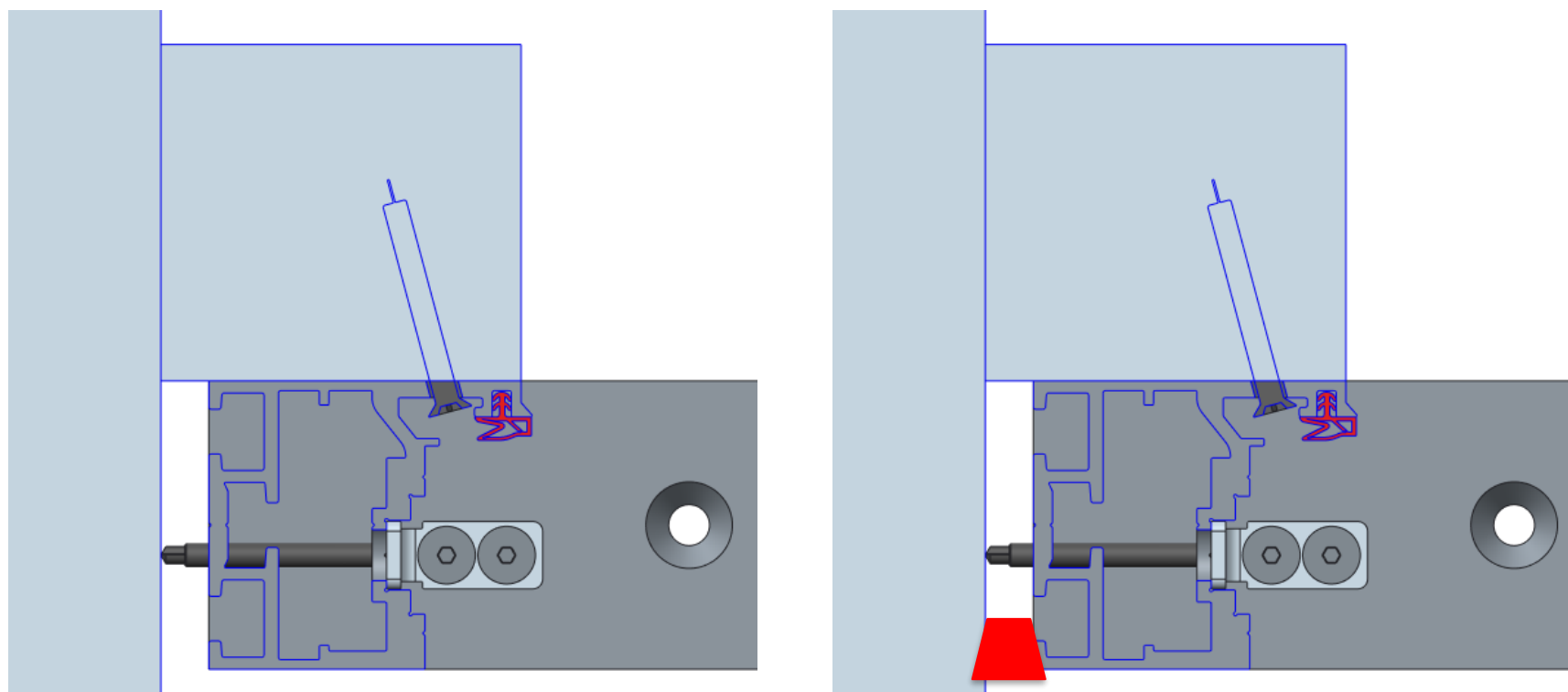
Drill holes up to a maximum  $\text{Ø}6.5$  mm in the frame section at the position shown:



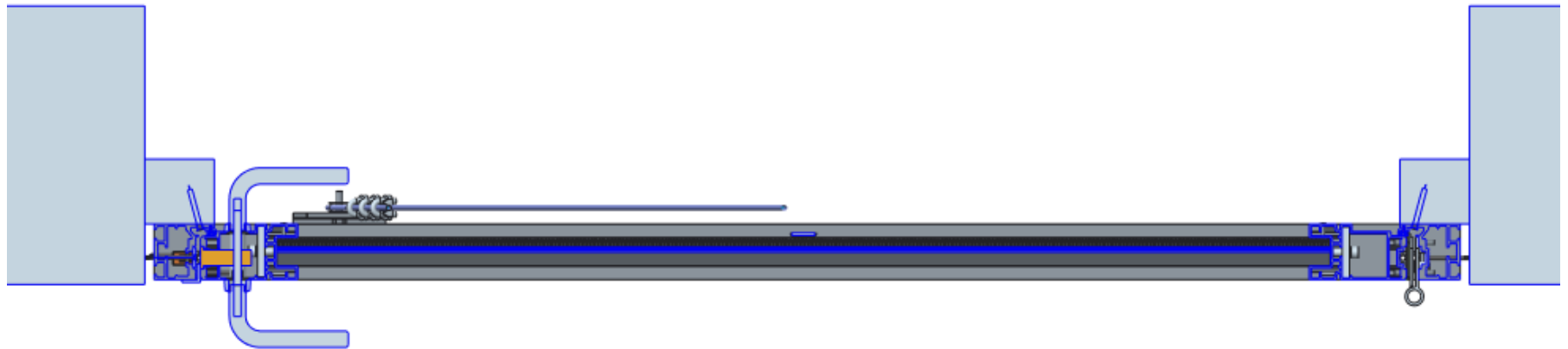
### C) Installation in a structural frame:

Secure the door frame with countersunk wood screws (DIN 7997-Z) Ø5x50:

Finish with a silicone sealant.



C) Installation in a structural frame:



C) Fitting the bolt plate (G0100874) (only for double doors):

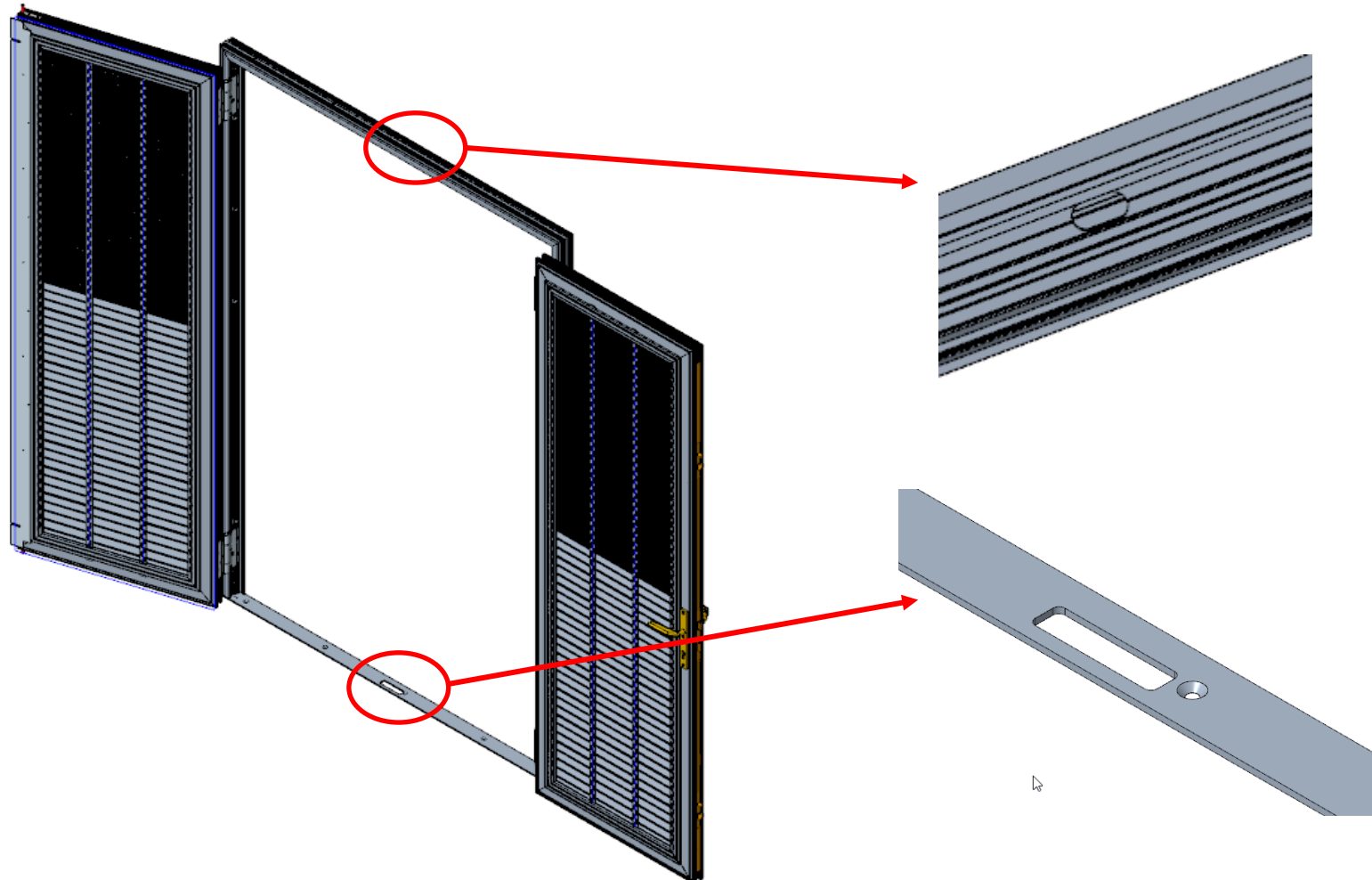


For double doors, a bolt plate is supplied.

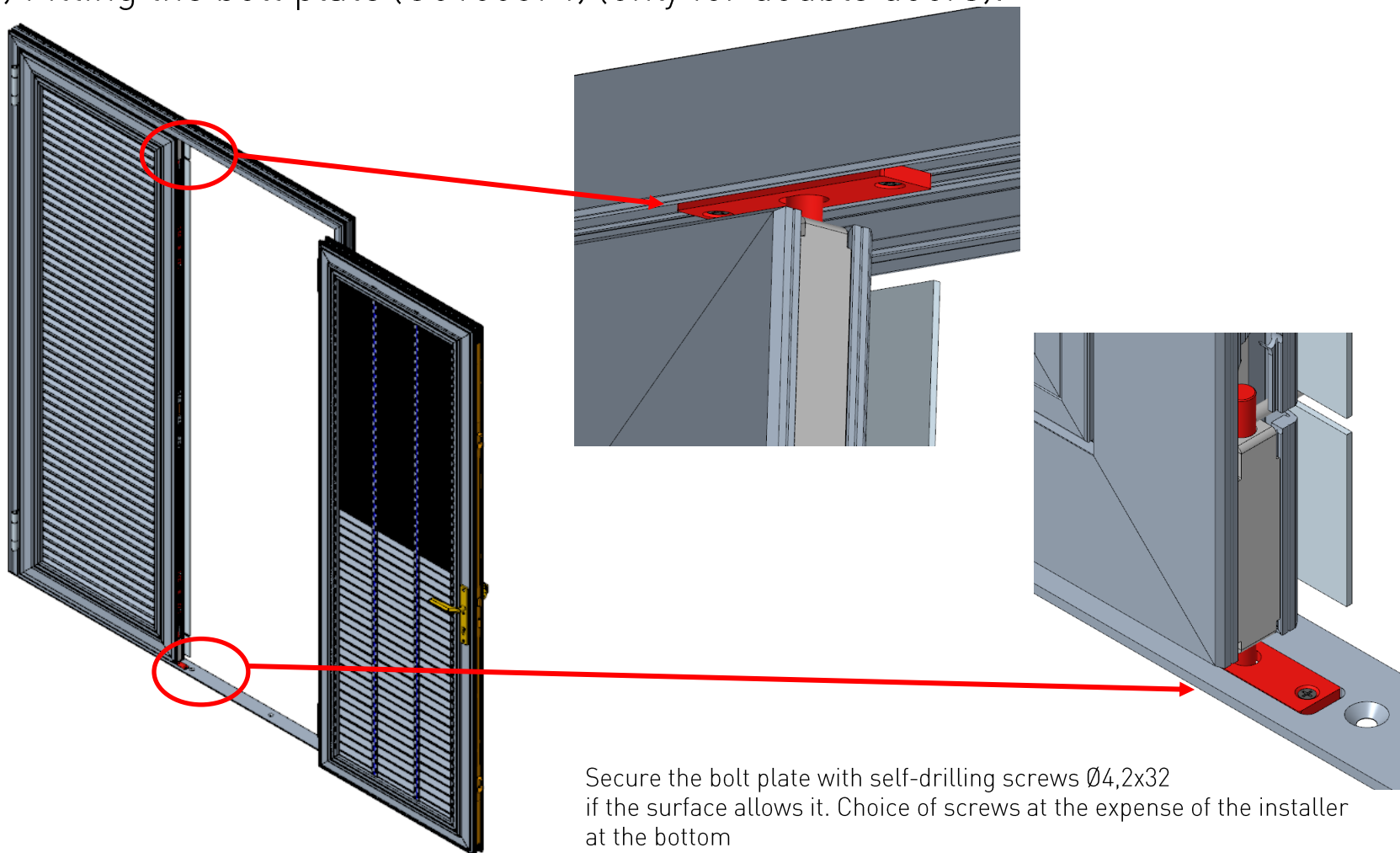
This is fitted last on double doors.

For this purpose, a slot has already been milled in the bottom strip with an incomplete frame and in the top frame profile, with a complete frame in the bottom and top frame profile.

C) Fitting the bolt plate (G0100874) (only for double doors):



C) Fitting the bolt plate (G0100874) (only for double doors):





5

# Cross section

