



Technical Catalogue of Wital  
System Profiles  
Lift-and-Slide Doors  
Wital Prestige Therm Light

INNOVATIVE  
**TECHNOLOGIES**  
POLISH PRODUCT



SPECTRUM

# Table of contents

1. General information
  - 1.1 Physical parameters of PVC profiles
  - 1.2 Quality Guarantee
2. Overview of profiles and system components
  - 2.1 PVC profiles
  - 2.2 Aluminum profiles
  - 2.3 HST system components
3. Maximum sash dimensions (size limitations)
  - 3.1 White – B2 – 800 Pa
  - 3.2 Color one side and both sides – B2 – 800 Pa
4. Assemblies
  - 4.1 Threshold / Slide sash
  - 4.2 Threshold / Fixed sash
  - 4.3 Frame / Slide sash – top
  - 4.4 Frame / Fixed sash – top
  - 4.5 Frame / Slide sash – vertical
  - 4.6 Slide sash / fixed sash – vertical
  - 4.7-1 Diagram A – horizontal cross-section
  - 4.7-2 Diagram A – horizontal cross-section
  - 4.7-3 Diagram A – horizontal cross-section
  - 4.8-1 Diagram A vertical cross-section – fixed sash
  - 4.8-2 Diagram A vertical cross-section – slide sash
5. Assembly diagrams
  - 5.1 Mounting of reinforcement to threshold
  - 5.2 Mounting of reinforcement to frame
  - 5.3 Mounting of reinforcement in sash
  - 5.4 Drilling for threshold-frame connector – top view
  - 5.5 Drilling for threshold-frame connector – side view
  - 5.6 Drilling for frame connectors
  - 5.7 Mounting of fixed sash adapter to threshold
  - 5.8 Frame assembly
  - 5.9 Fixed sash
  - 5.8 Slide sash
6. Hardware
7. Nominal dimensions  
Diagram A – functional dimensions
8. Execution tips
  - 8.1 Drainage
  - 8.2 Mounting of reinforcement in sash
  - 8.3 Mounting of reinforcement in frame and threshold
  - 8.4 Mounting of fixed sash to frame
  - 8.5 Mounting of top rail and upper sealing strip to frame
  - 8.6 Mounting of fixed sash to threshold
  - 8.7 Mounting of Interlock on fixed and slide sash

## 1. General information

## 1.1 Physical parameters of PVC profiles

<b>Test</b>		<b>Unit</b>	<b>Standard</b>	<b>WITAL window profiles</b>
1	Softening temperature according to Vicat	°C	PN-93 C-89024	80,3
2	Impact resistance at -10°C		PN-EN-477:1997	No cracks
3	Resistance to temp. of +150°C		PN-EN- 478:1997	No noticeable changes on external surfaces, slightly deformed walls inside the structure
4	Tensile strength	Mpa	PN-81 C-89034	46.2
5	Impact tensile strength	Mpa	PN-72 C-04243	64.4
6	Charpy notch impact strength	KJ/m <sup>2</sup>	PN-81 C-89029	55.3
7	Tensile coefficient of elasticity	MPa	DIN 5345	2443
8	Thermal expansion	%	PN-EN-479:1997	1.7
9	Colour change after aging		PN-86 P-04906	5 gray scale number, which corresponds to a colour change of 0.
10	Density ρ	g/cm <sup>3</sup>	PN-92 C-89035 method B	1,44 ±0,02

## 1. General information

### 1.2 Quality Guarantee

WITAL system profiles, manufactured from modified polyvinyl chloride, are the basis for making PVC windows and doors. Their production is in accordance with the requirements of Polish standards (PN-88/B-10085), the requirements of the Building Research Institute and refers to the tests carried out at the Rosenheim Institute.

PW WITAL provides a guarantee for a period of 5 years with respect to:

- consistent material quality,
- flawless shaping of profiles within acceptable tolerances,
- chemical resistance according to the provided table,
- light resistance (colour fastness) of white window profiles.

Colour difference from the standard according to the 5th degree on the gray scale. The warranty can be claimed only in the case of compliance with PW WITAL's guidelines for handling the window profiles.

Warranty claims will not be recognized for defects caused by:

- treating the surface with solvents or aggressive cleaners,
- improper storage and warehousing,
- wrong installation,
- improper treatment and maintenance,
- unusual external impacts,
- acts of God (e.g., natural disasters, fire),
- actions of the end user or bystanders.

In case of legitimate complaints, we provide free replacement of the material.

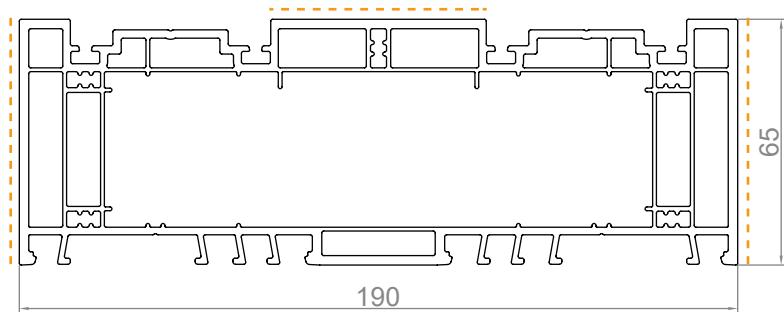
Overreaching claims, regardless of the legal basis, have no force.

The rules for the consideration of complaints and the manner of the complaint procedure are established by PW WITAL.

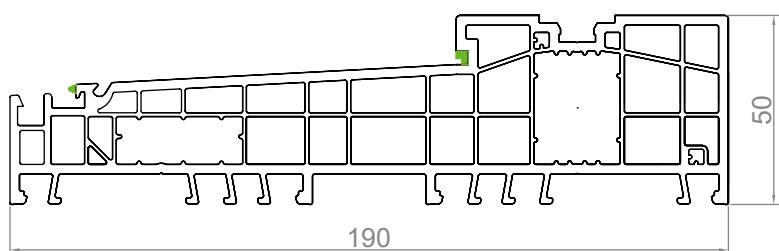
## 2. Overview of profiles and system components

### 2.1 PVC profiles

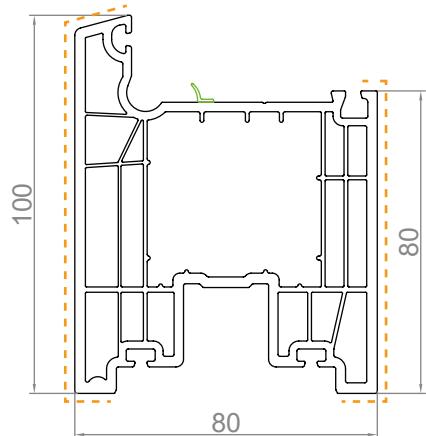
**78010** Frame



**78050** Threshold



**78020** Sash

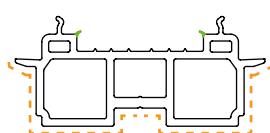


**78033** Interlock

**78033** Interlock

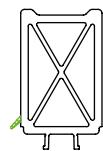


**78030** Connecting strip for fixed sash  
Catch strip  
Upper sealing strip connector

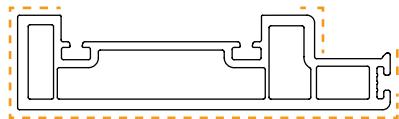


2. Overview of profiles and system components  
2.1 PVC profiles

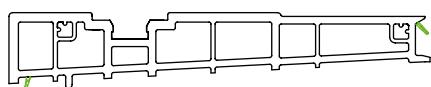
**78052** Profile for fixed sash



**78032** Upper sealing strip



**78051** Fixed sash adapter



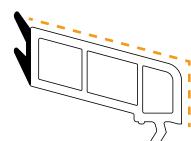
**78031** Frame and sash cover



**68040** Glazing bead



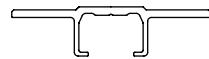
**68041** Glazing bead



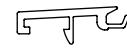
Veneer for foiling- optional

2. Overview of profiles and system components  
2.2 Aluminium profiles

**78111** Top rail



**78150** Drip cap



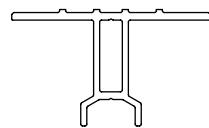
**78152** Rail track 15mm



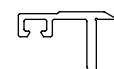
**78153** Rail track 5mm



**78110** Top rail



**78112** Slide sash sealing

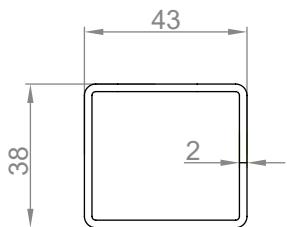


**78151** Threshold cover

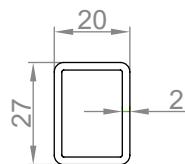


2. Overview of profiles and system components  
2.3 Profile reinforcements

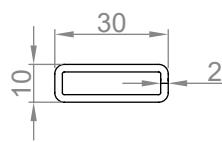
**200B4338**  
Sash and frame  
reinforcement



**200B2720**  
Threshold  
reinforcement



**200B3010**  
Threshold  
reinforcement



<b>200B4338</b>		
A	X	Y
2.0	8.37	6.89

<b>200B2720</b>		
A	X	Y
2.0	1.66	1.01

<b>200B3010</b>		
A	X	Y
2.0	1.37	0.20

2. Overview of profiles and system components  
 2.3 HST system components

**78351** Slide sash sealing – vertical



**78352** Interlock sealing



**78350** Slide sash sealing – bottom



**78354** Brush sealing



**57074** Glazing seal



**78051-D1** Threshold adapter seal left



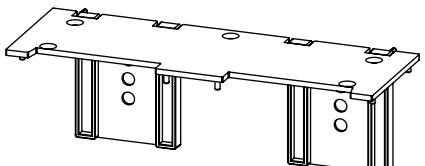
**78051-D2** Threshold adapter seal right



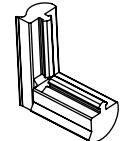
**78352\_D1** 7033 additional sealing strip seal



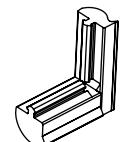
**78412** Frame connector including additional seals / right / left



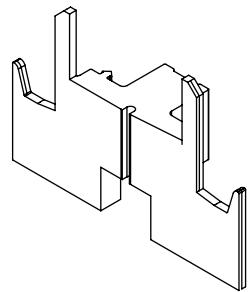
**78425** Seal corner 78350 left



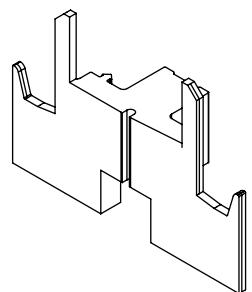
**78426** Seal corner 78350 right



**78427** Central rail track 5mm sealing

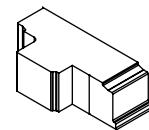


**78428** Central rail track 15mm sealing

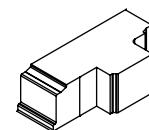


2. Overview of profiles and system components  
2.3 HST system components

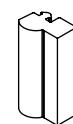
**78431** Left sealing of upper sealing strip



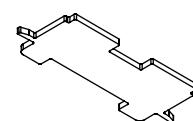
**78432** Right sealing of upper sealing strip



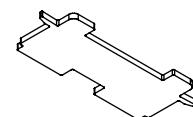
**78433** Top sealing of slide sash sealing 78112



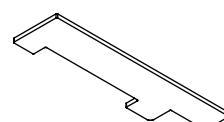
**78437** Seal 78030 left



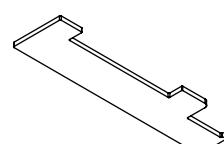
**78438** Seal 78030 right



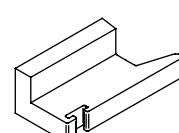
**78439** Seal 78032 left



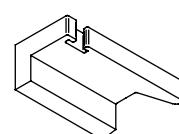
**78440** Seal 78032 right



**78441** Seal 78033 left



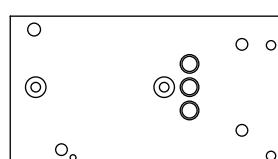
**78442** Seal 7033 right



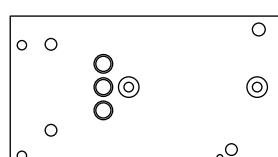
**78450-D1** Threshold seal 78050 EPDM black



**78451** Threshold connector left including additional seals

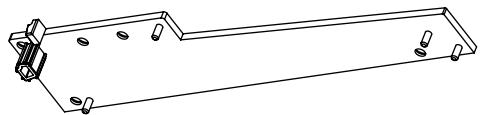


**78452** Threshold connector right including additional seals

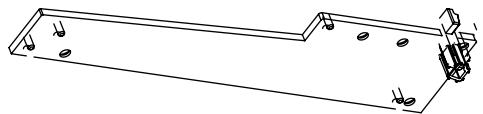


2. Overview of profiles and system components  
2.3 HST system components

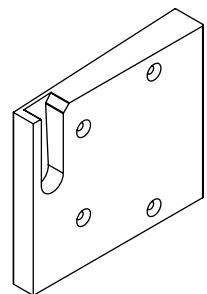
**78453** Threshold cap left including additional seals



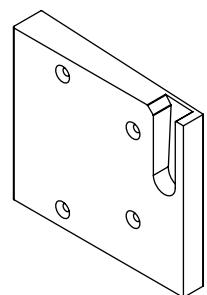
**78454** Threshold cap right including additional seals



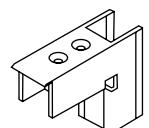
**78455** Left center seal including additional seals



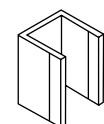
**78456** Right center seal including additional seals



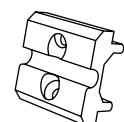
**78421** Sash fixing element



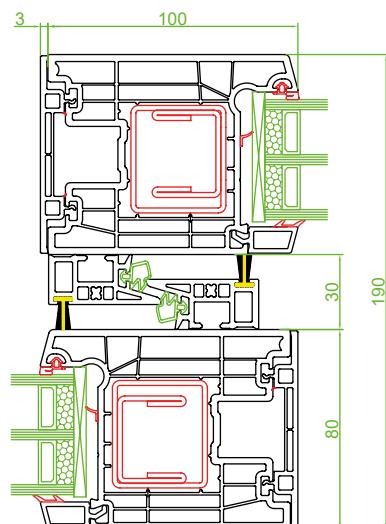
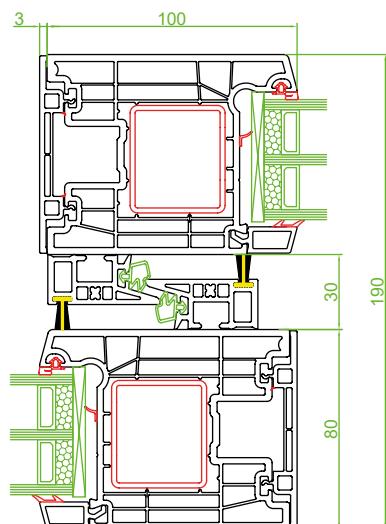
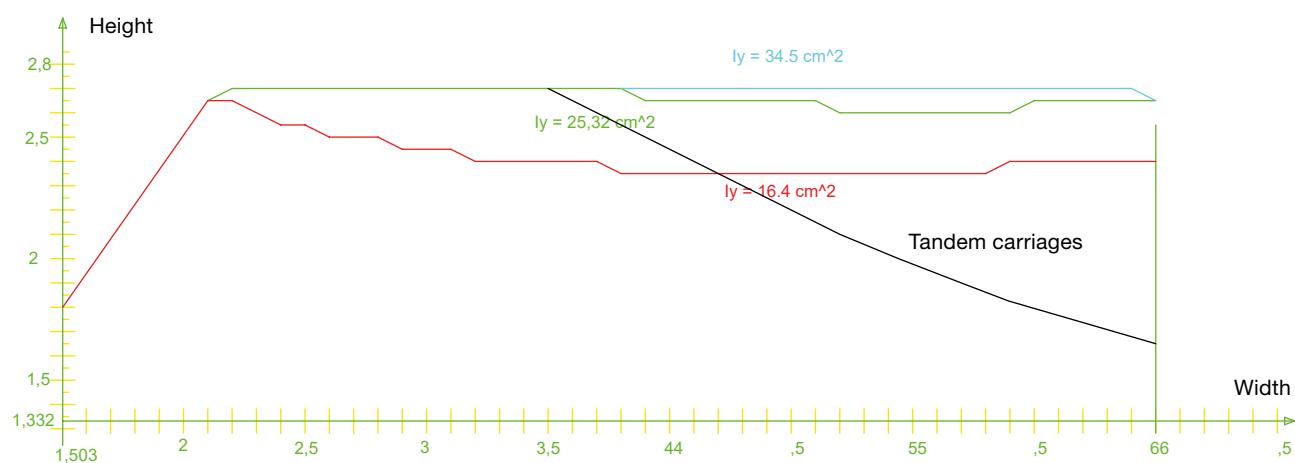
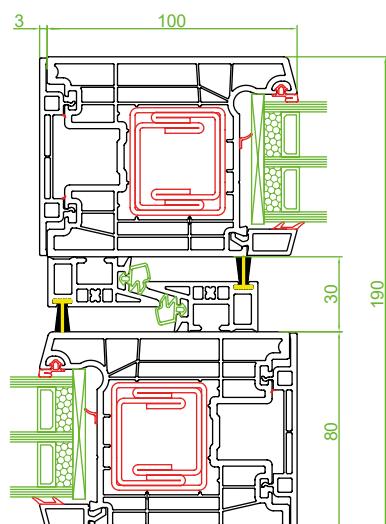
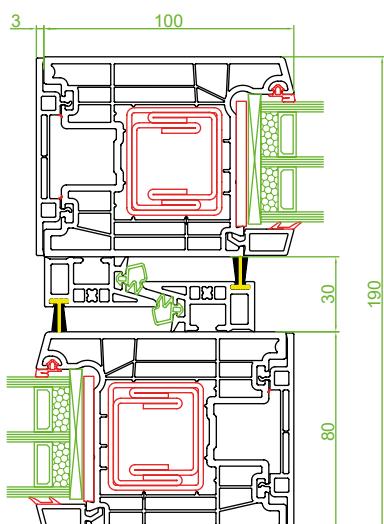
**78422** Sash fixing element



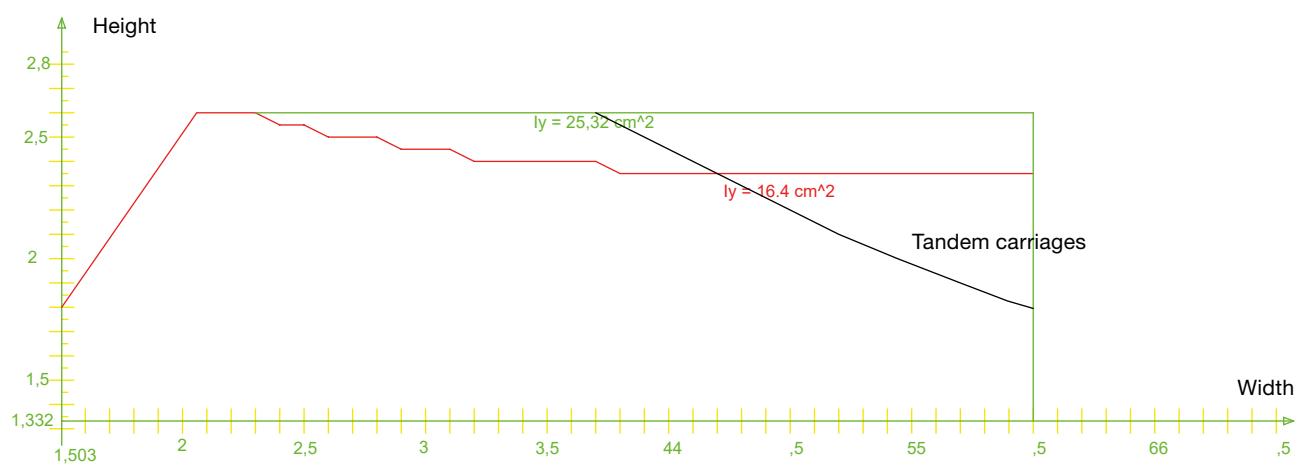
**78457** Sash stabilizer for 5 mm track rail



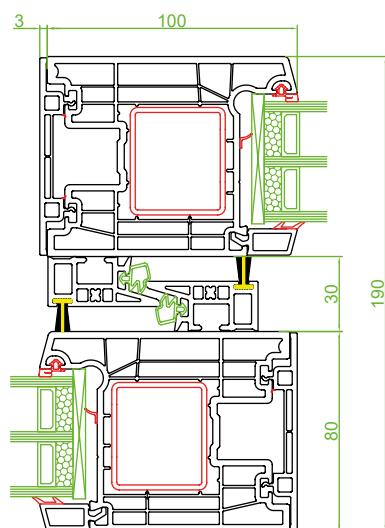
3. Maximum leaf dimensions (size limitations)  
 3.1 White – B2 – 800 Pa

 $ly = 16,14 \text{ cm}^4$  $ly = 25,32 \text{ cm}^2$  $ly = 34,50 \text{ cm}^4$  $ly = 42,84 \text{ cm}^4$

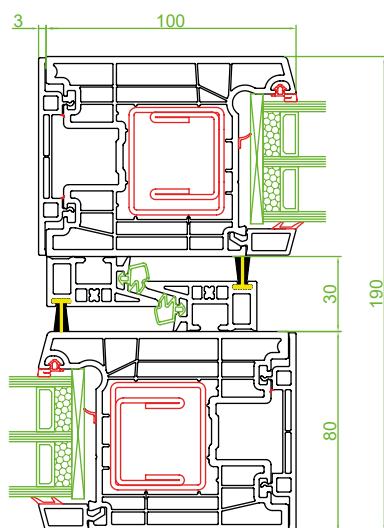
3. Maximum leaf dimensions (size limitations)  
 3.2 Colour one side and both sides – B2 – 800 Pa



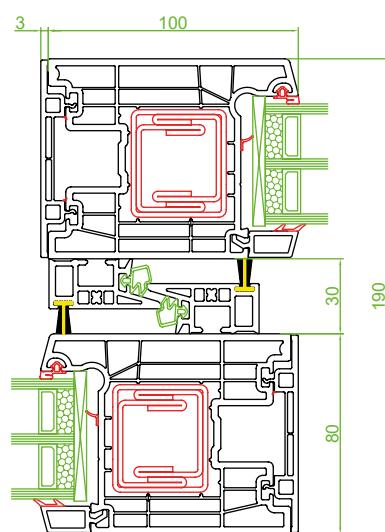
Catalogue release date: 01.2023



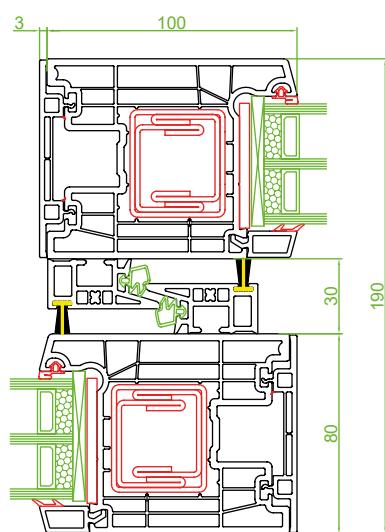
$ly = 16,14 \text{ cm}^4$



$ly = 25,32 \text{ cm}^4$

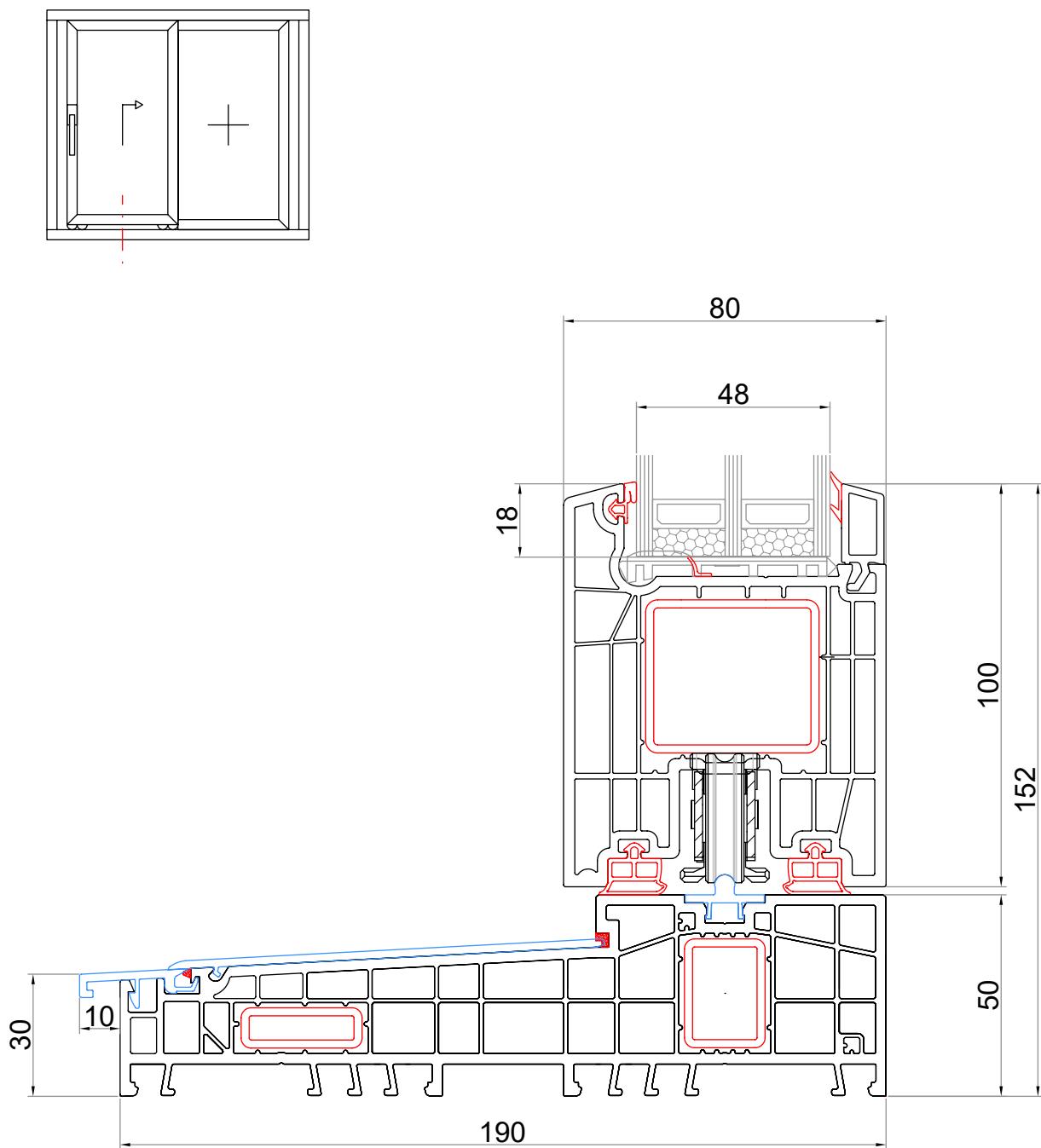


$ly = 34,50 \text{ cm}^4$

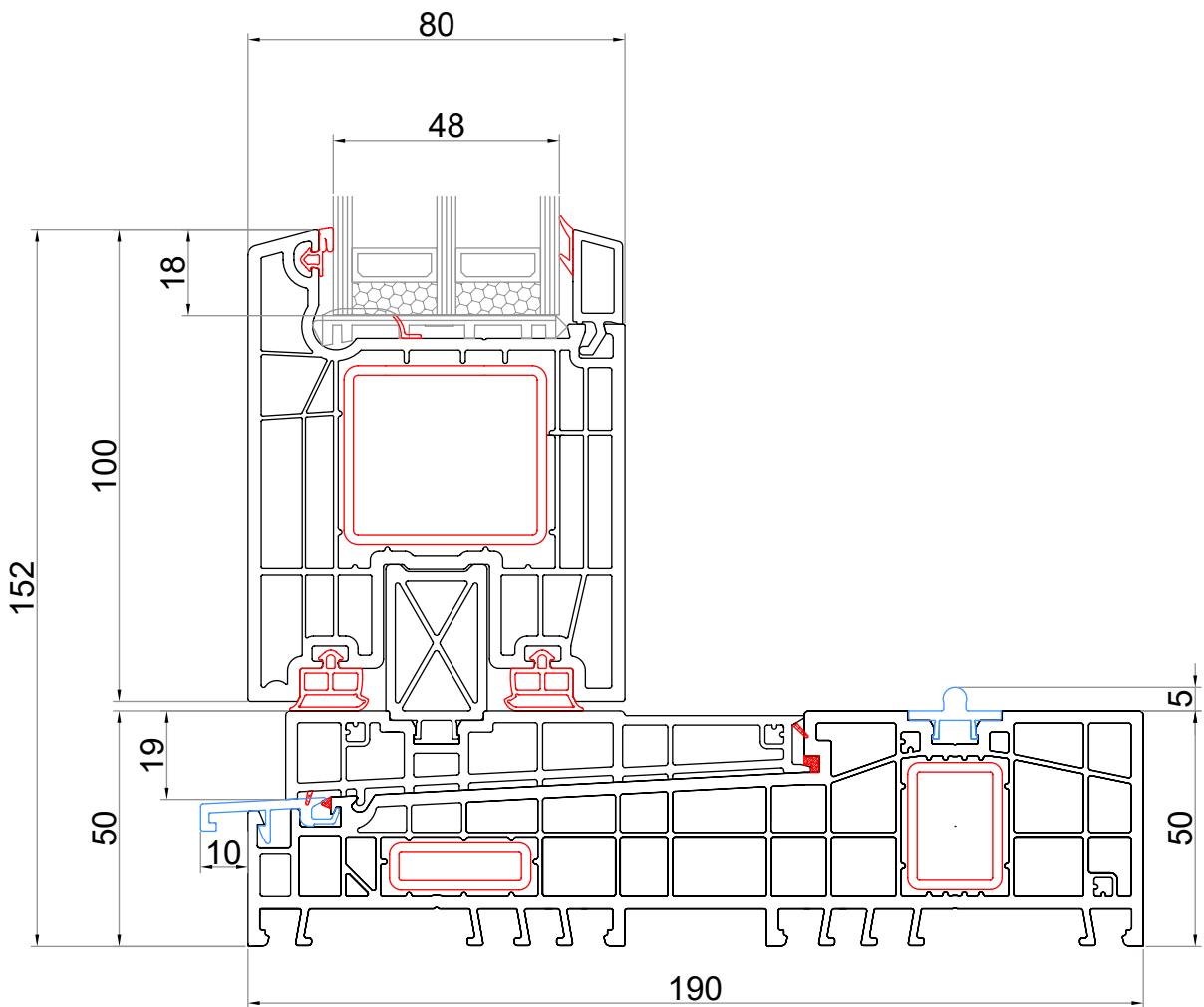
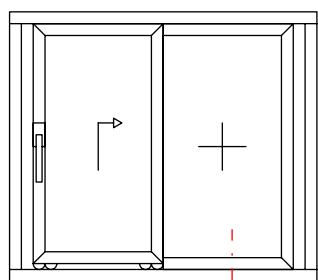


$ly = 42,84 \text{ cm}^4$

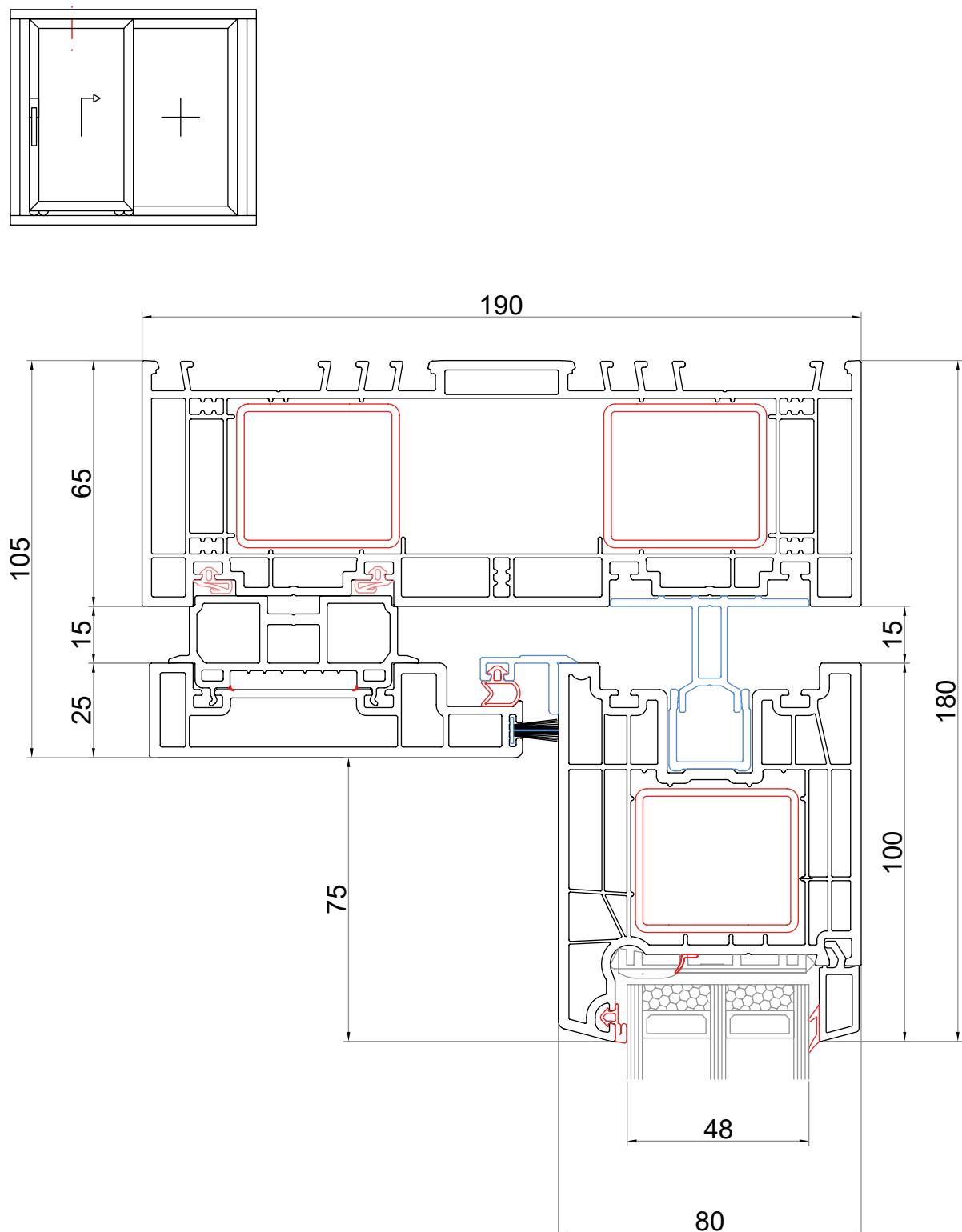
4. Assemblies  
4.1 Threshold / Slide sash



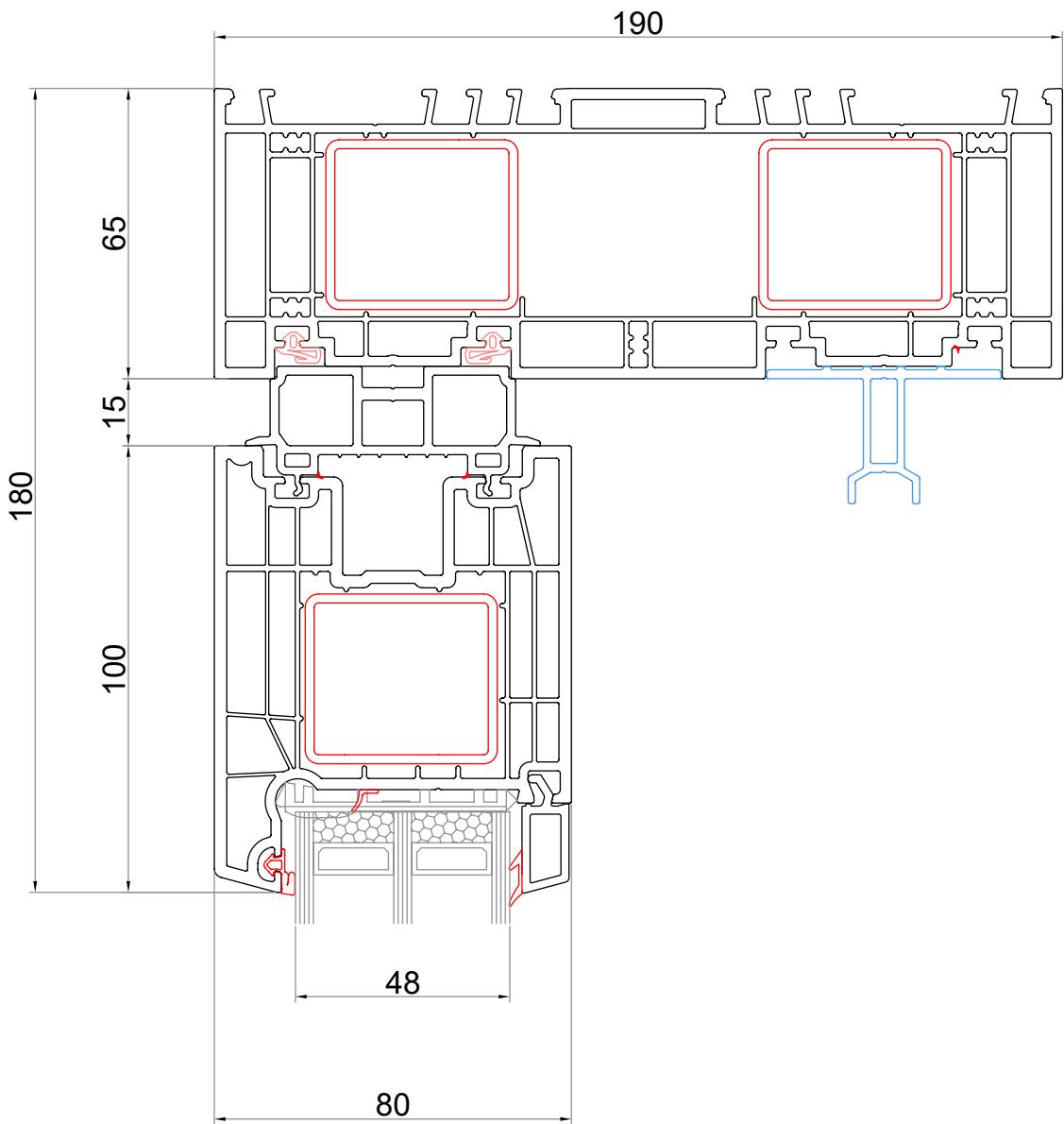
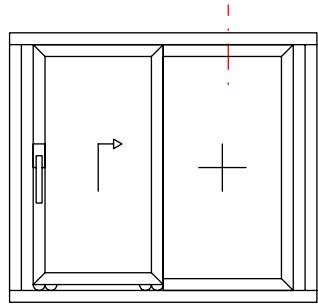
4. Assemblies  
4.2 Threshold / Fixed Sash



4. Assemblies  
4.3 Frame / Slide Sash – top

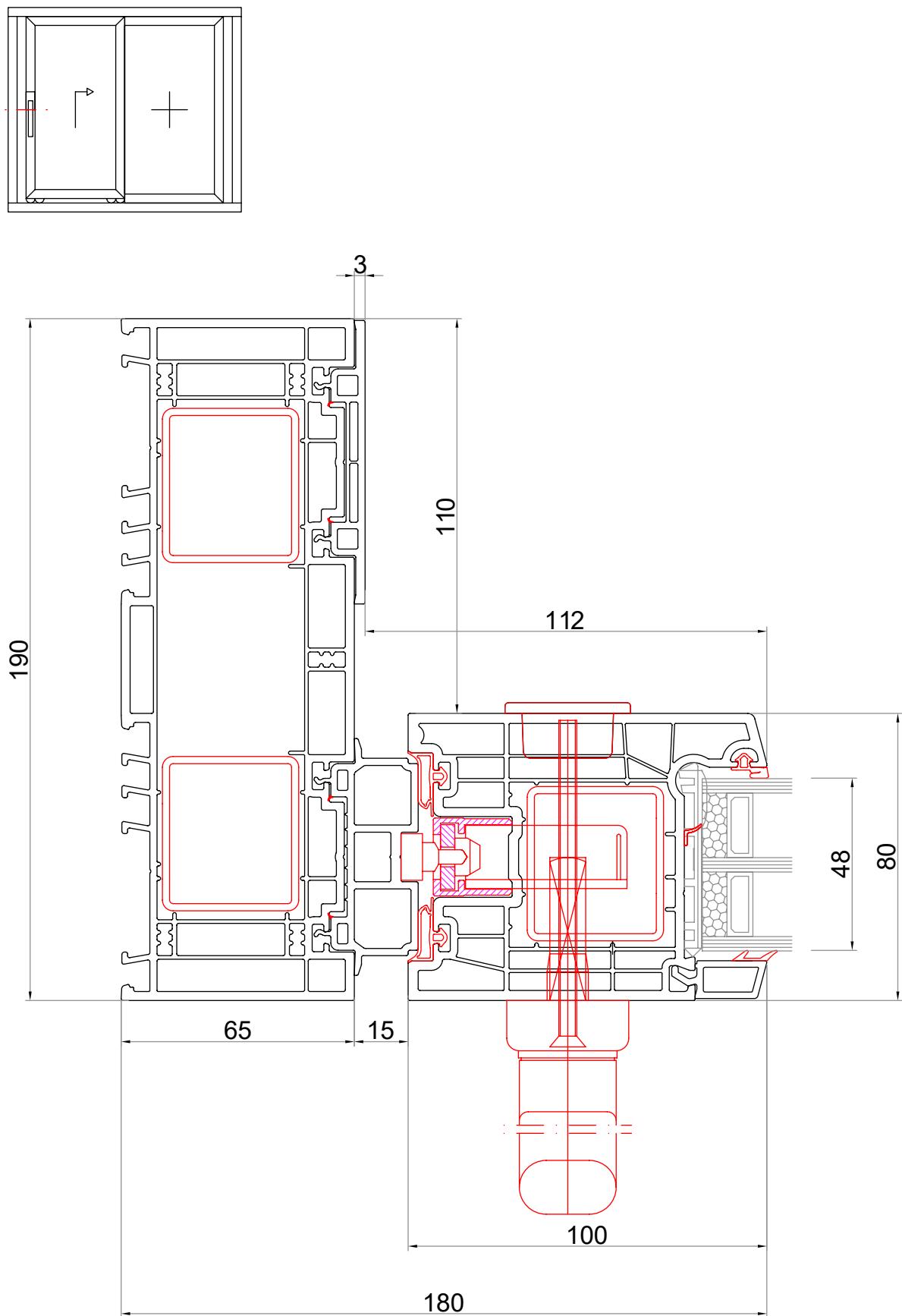


4. Assemblies  
4.4 Frame / Fixed Sash – top

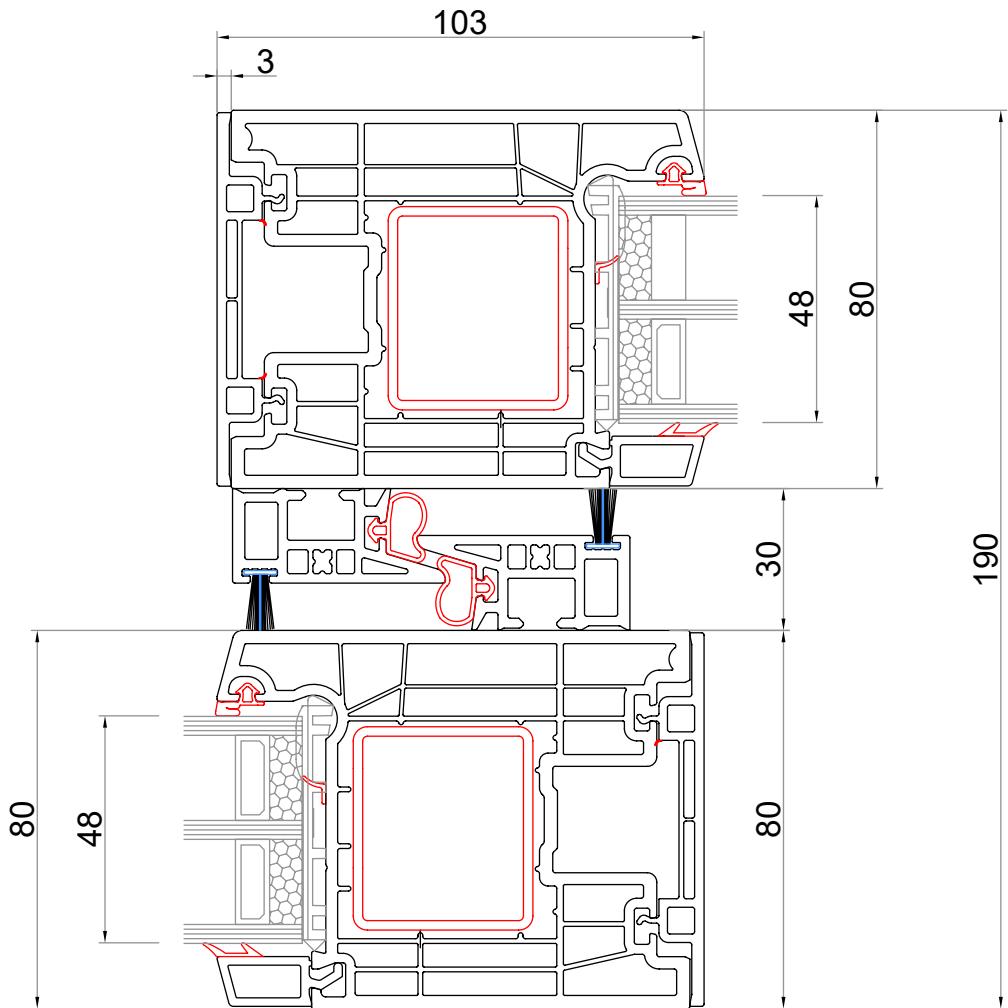
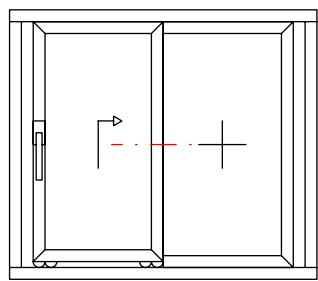


## 4. Assemblies

## 4.5 Frame / Slide sash- vertical

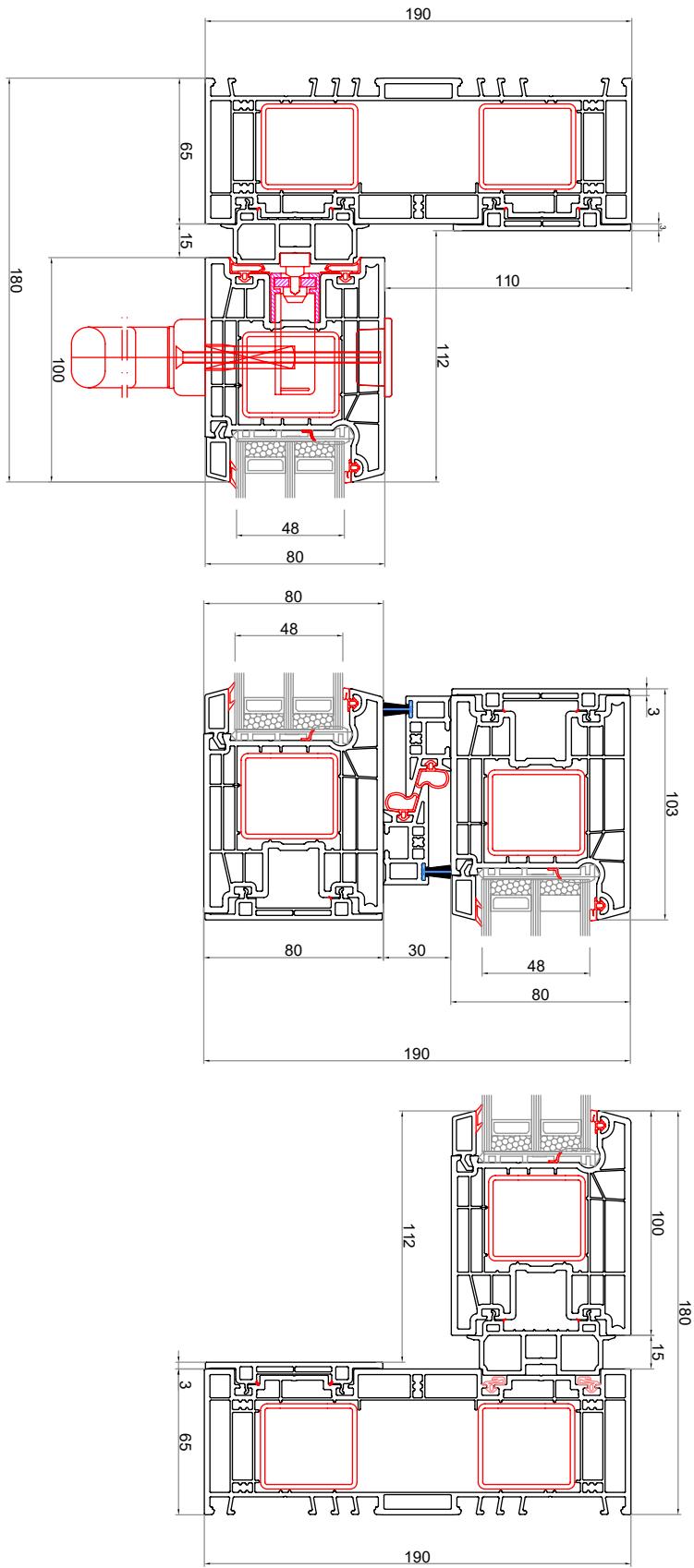


4. Assemblies  
4.6 Slide sash / fixed Sash – vertical



## 4. Assemblies

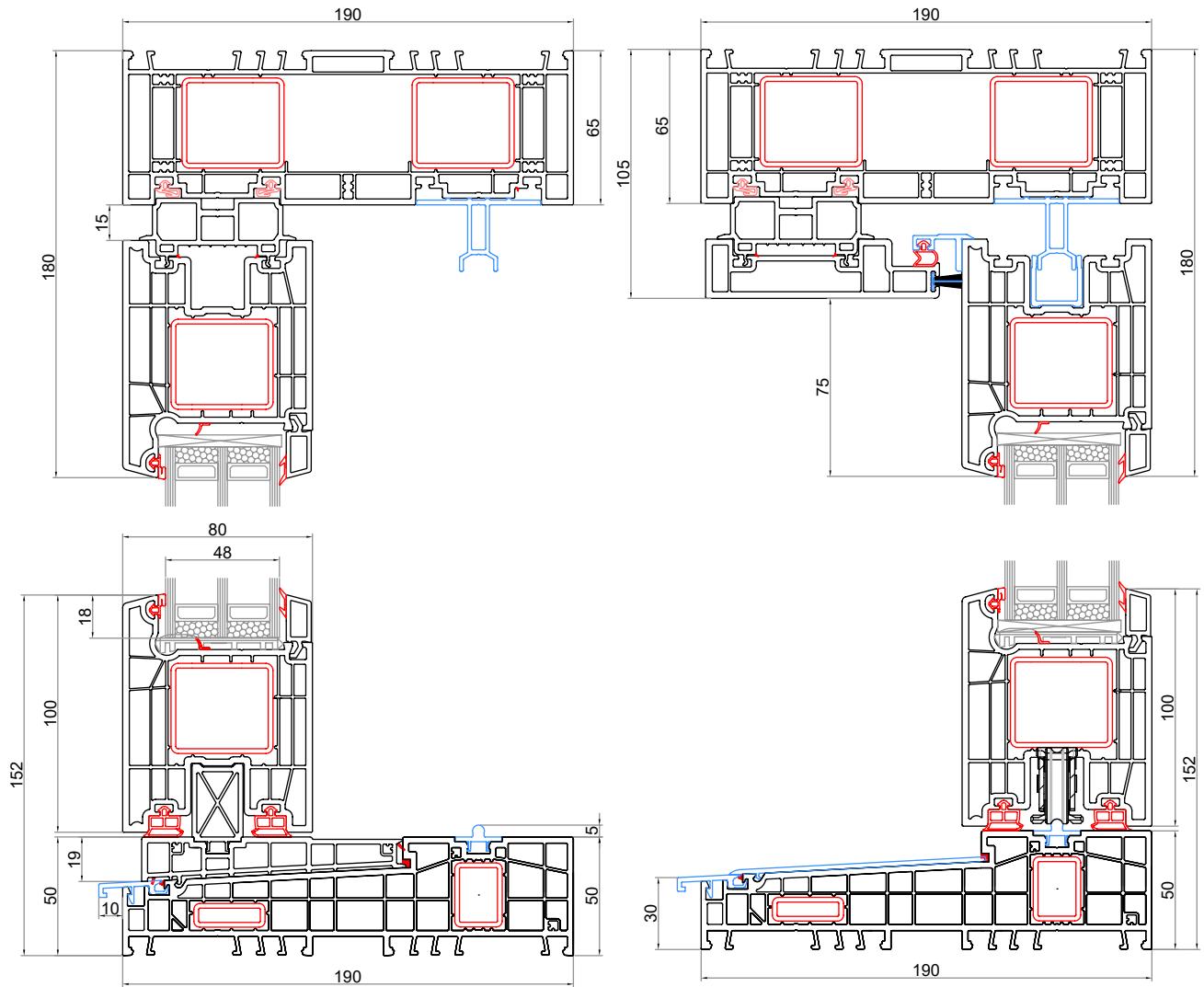
## 4.7 Diagram A – horizontal cross-section



## 4. Assemblies

## 4.8 Diagram A vertical cross-section – Fixed sash

HST



HST

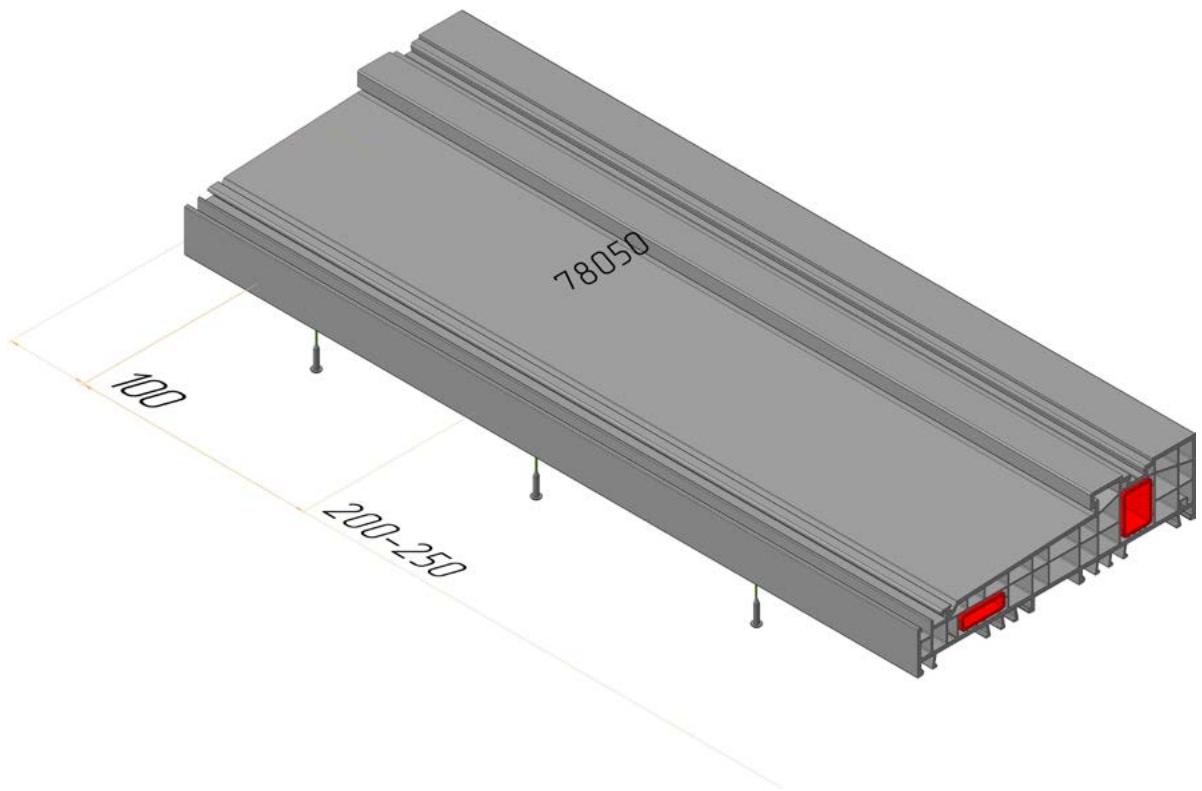


SPECTRUM

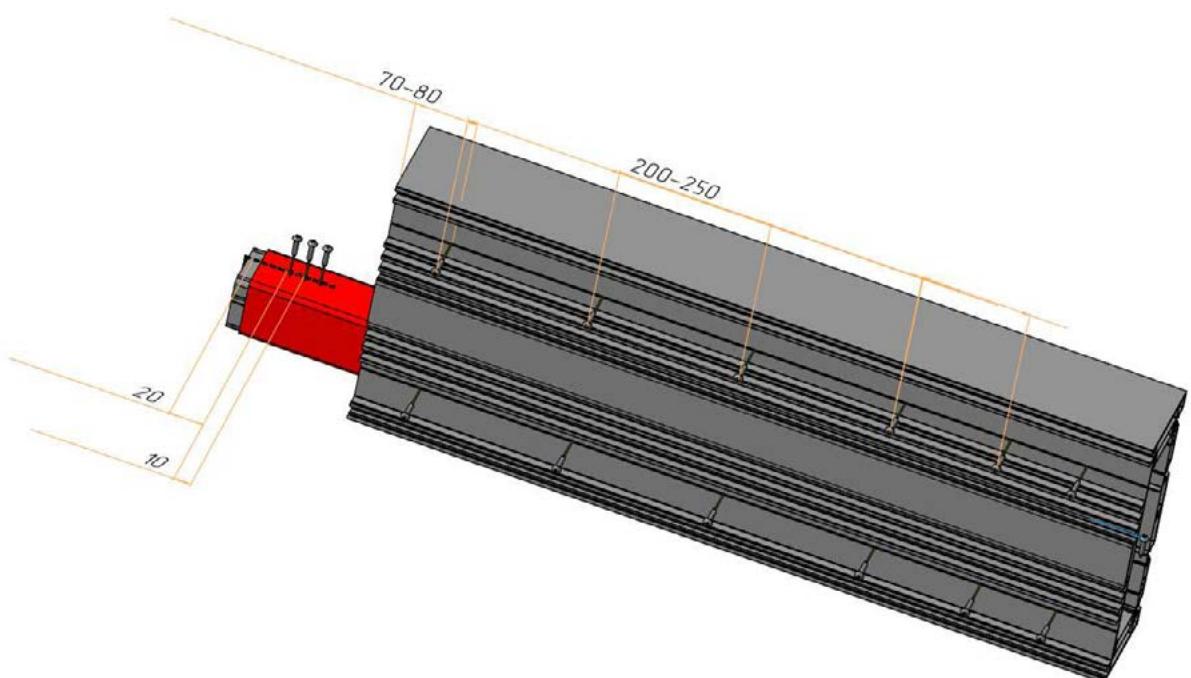
H-20

## 5. Assembly diagrams

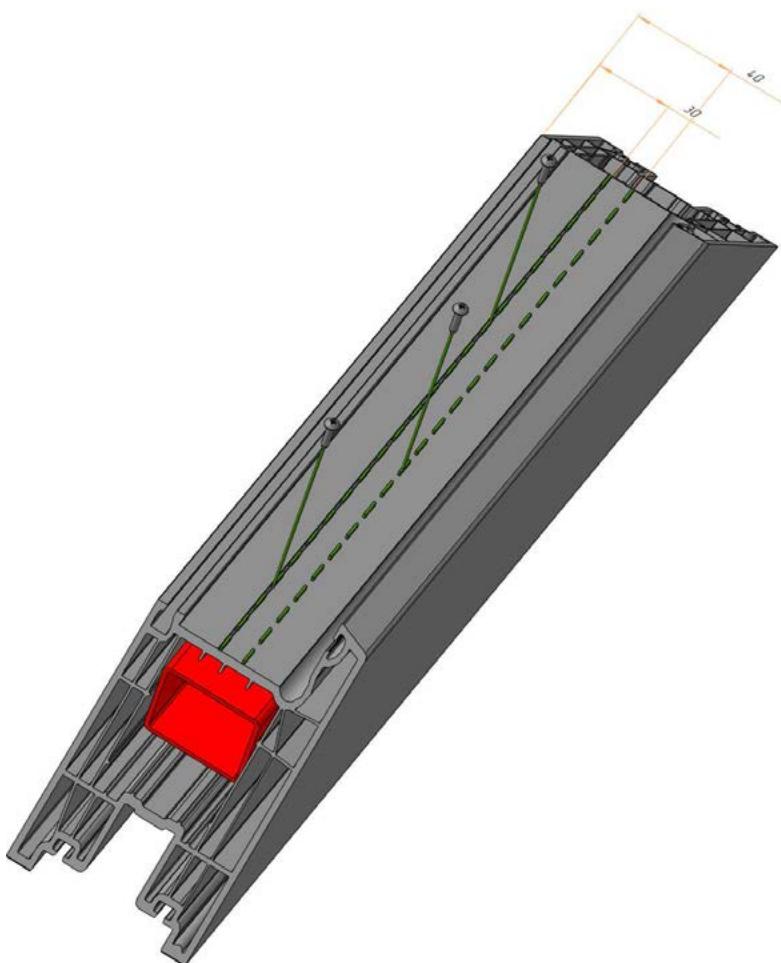
## 5.1 Mounting of reinforcement to threshold



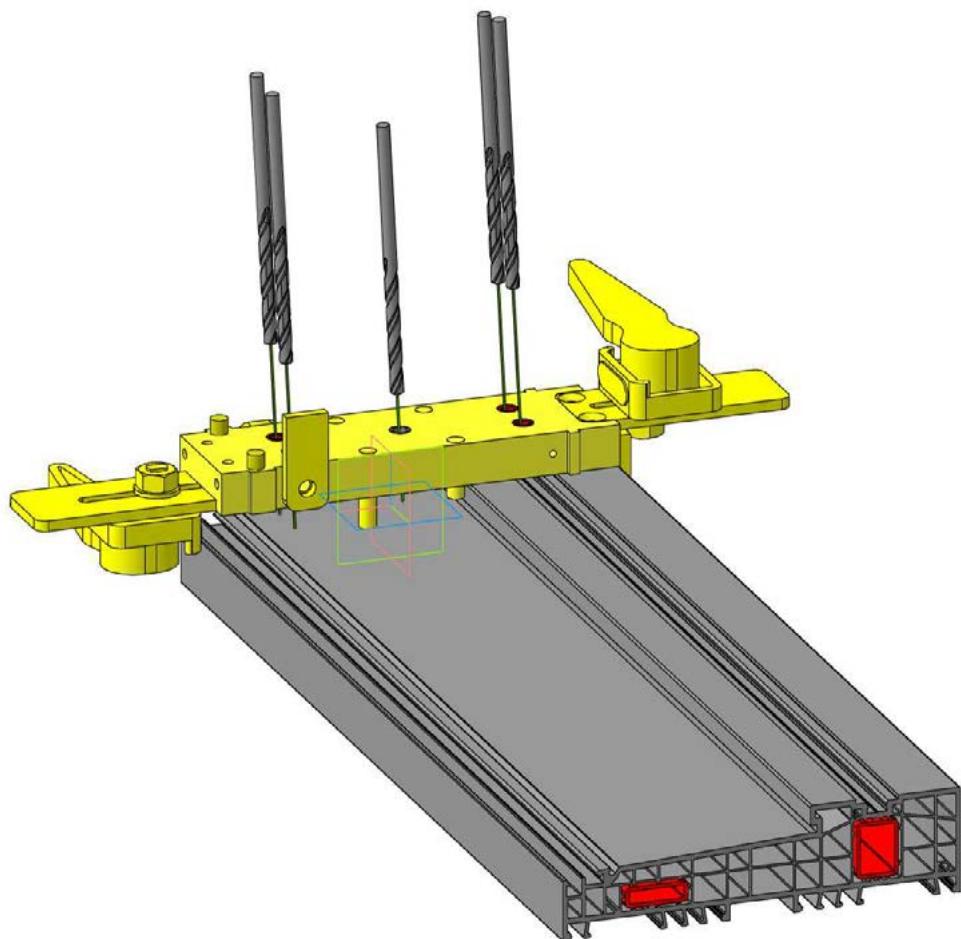
## 5.2 Mounting of reinforcement to frame



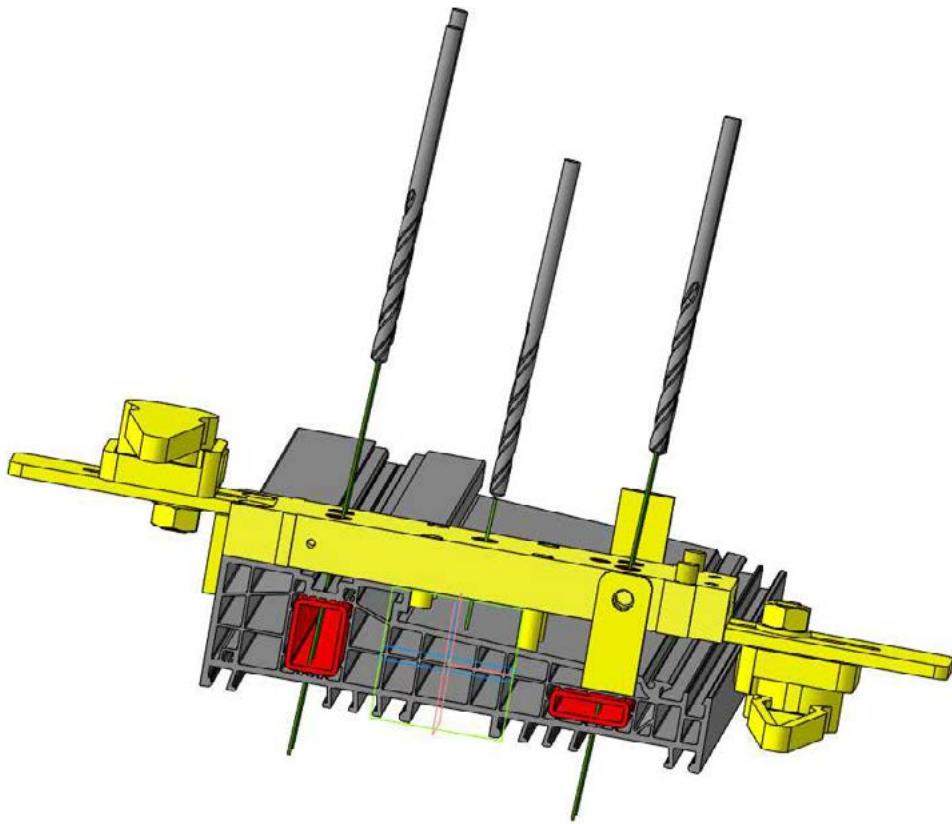
5. Assembly diagrams  
5.3 Mounting of reinforcement in sash

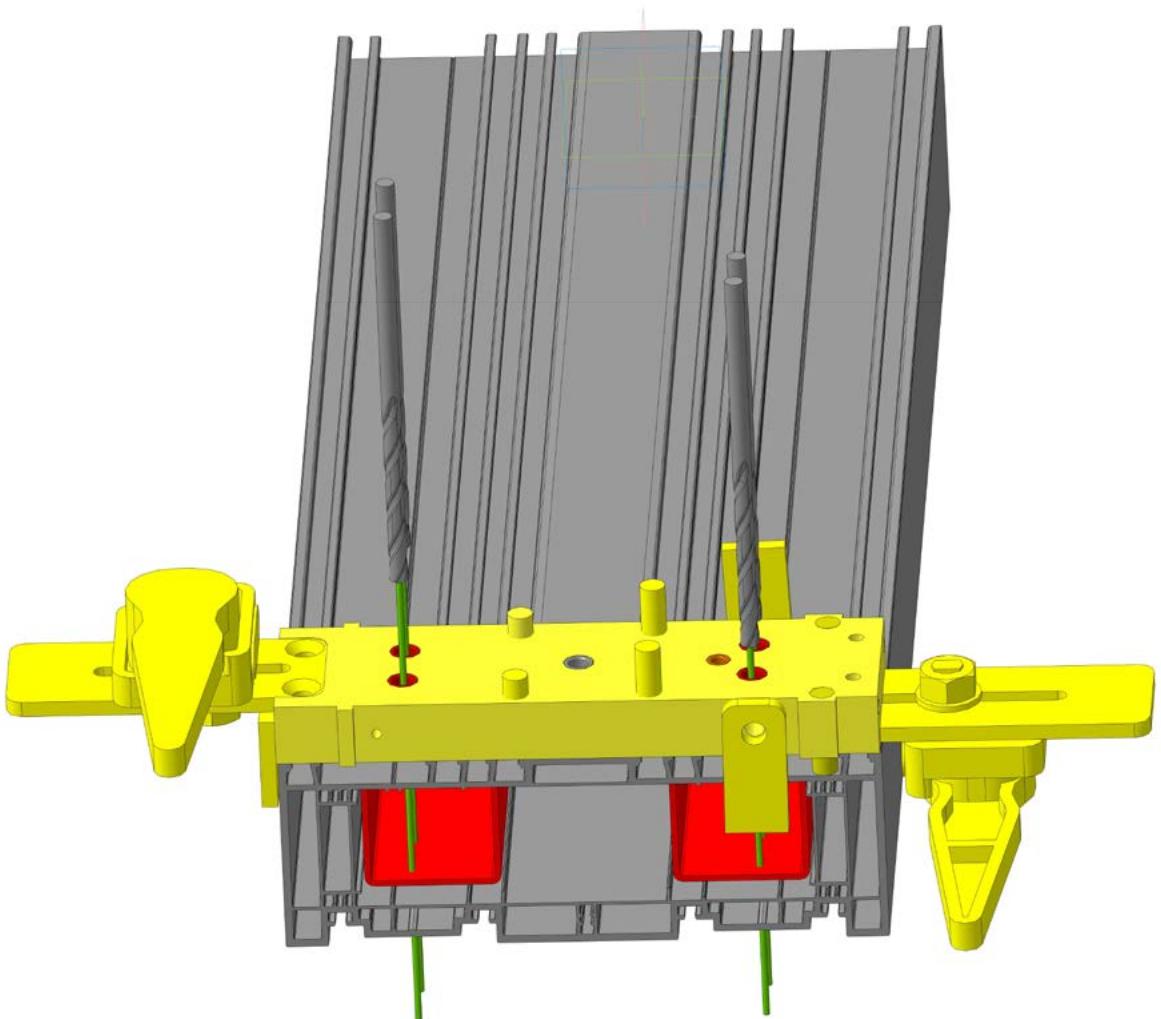


5. Assembly diagrams  
5.4 Drilling for threshold-frame connector – top view

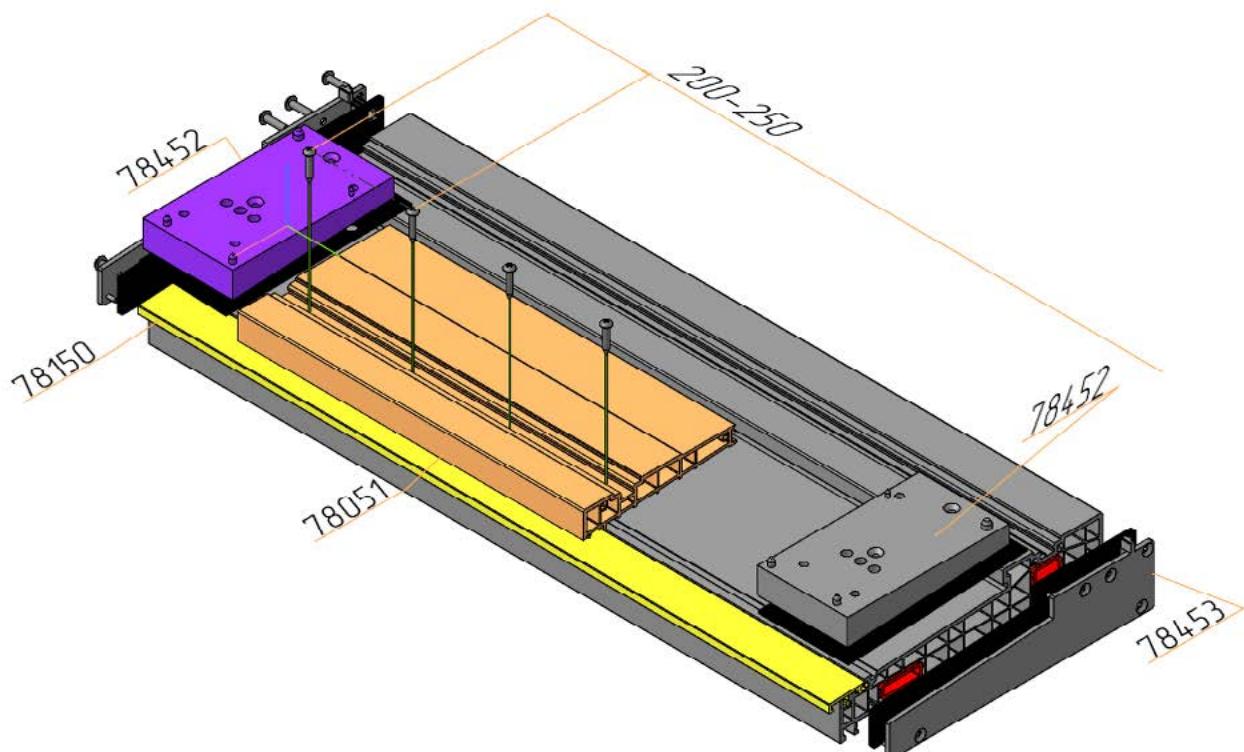


5. Assembly diagrams  
5.5 Drilling for threshold-frame connector – side view

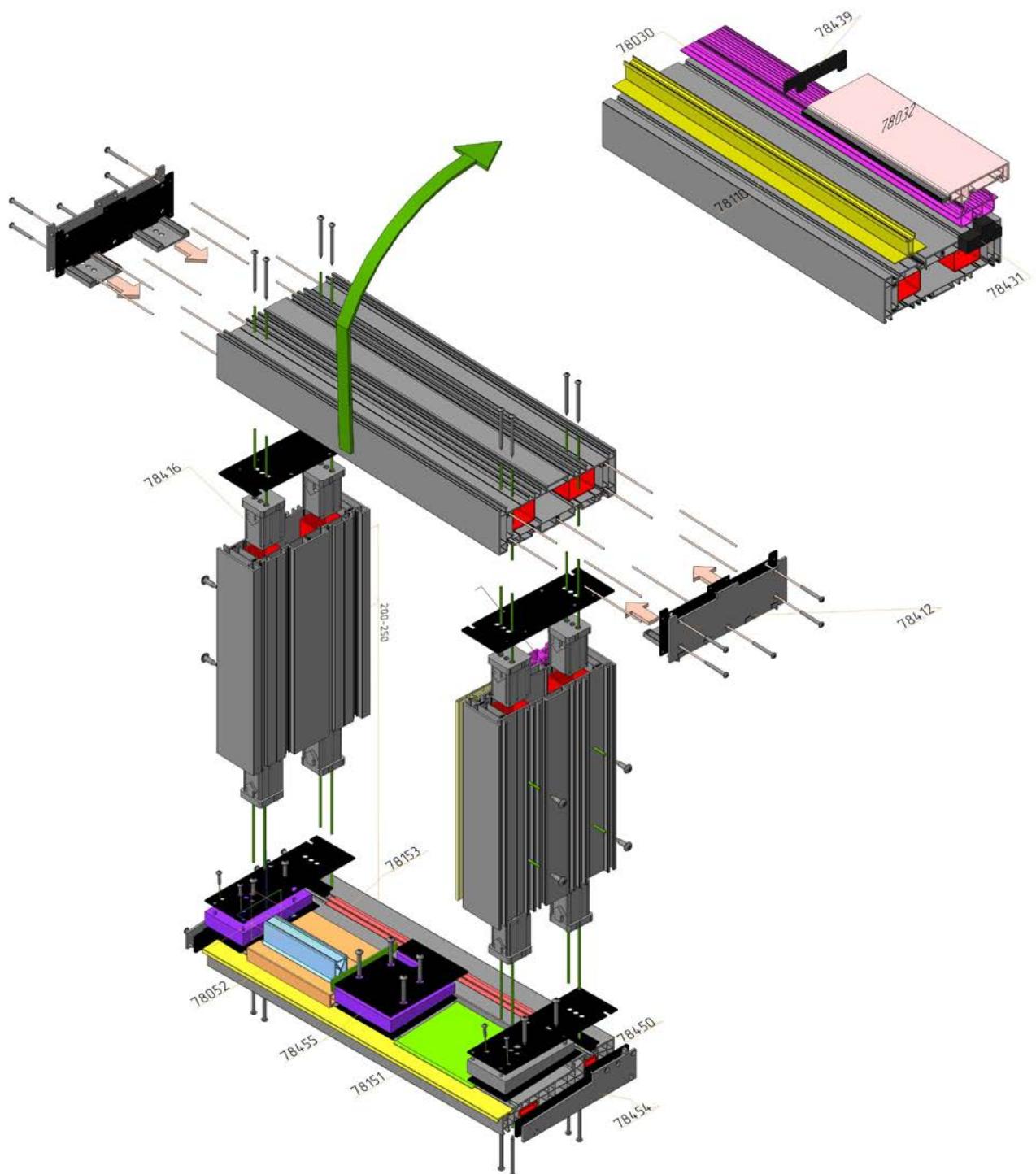




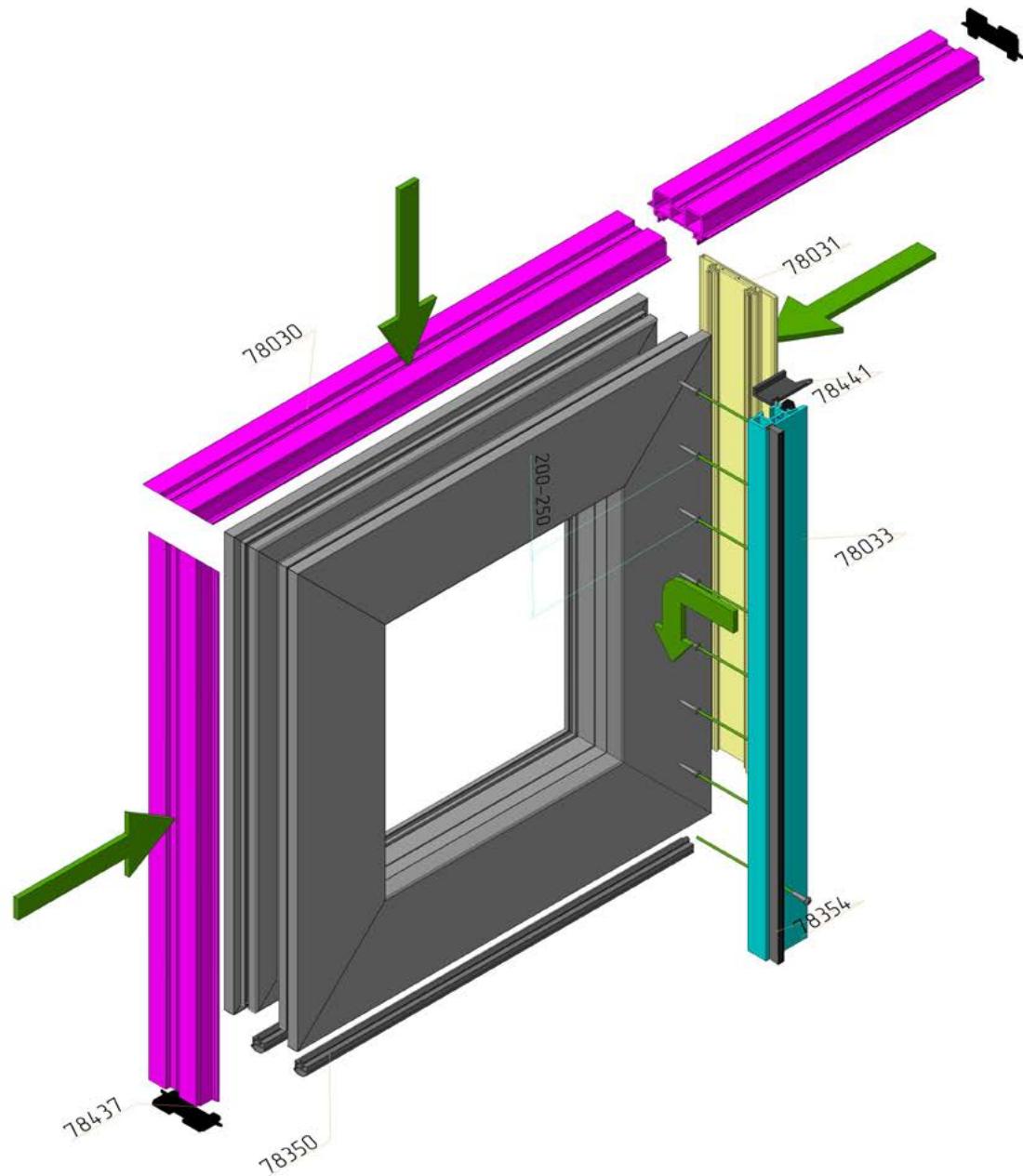
5. Assembly diagrams  
5.7 Mounting of fixed sash adapter to threshold

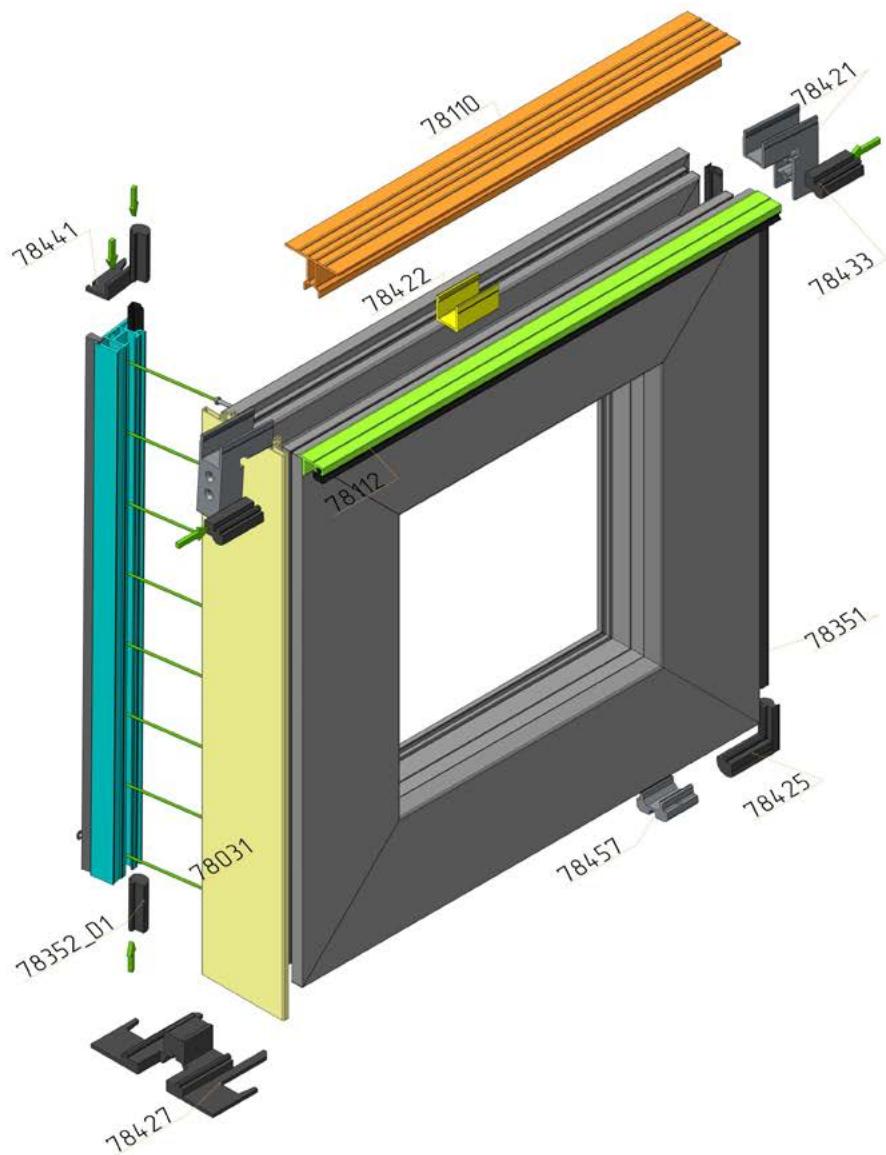


5. Assembly diagrams  
5.8 Frame assembly

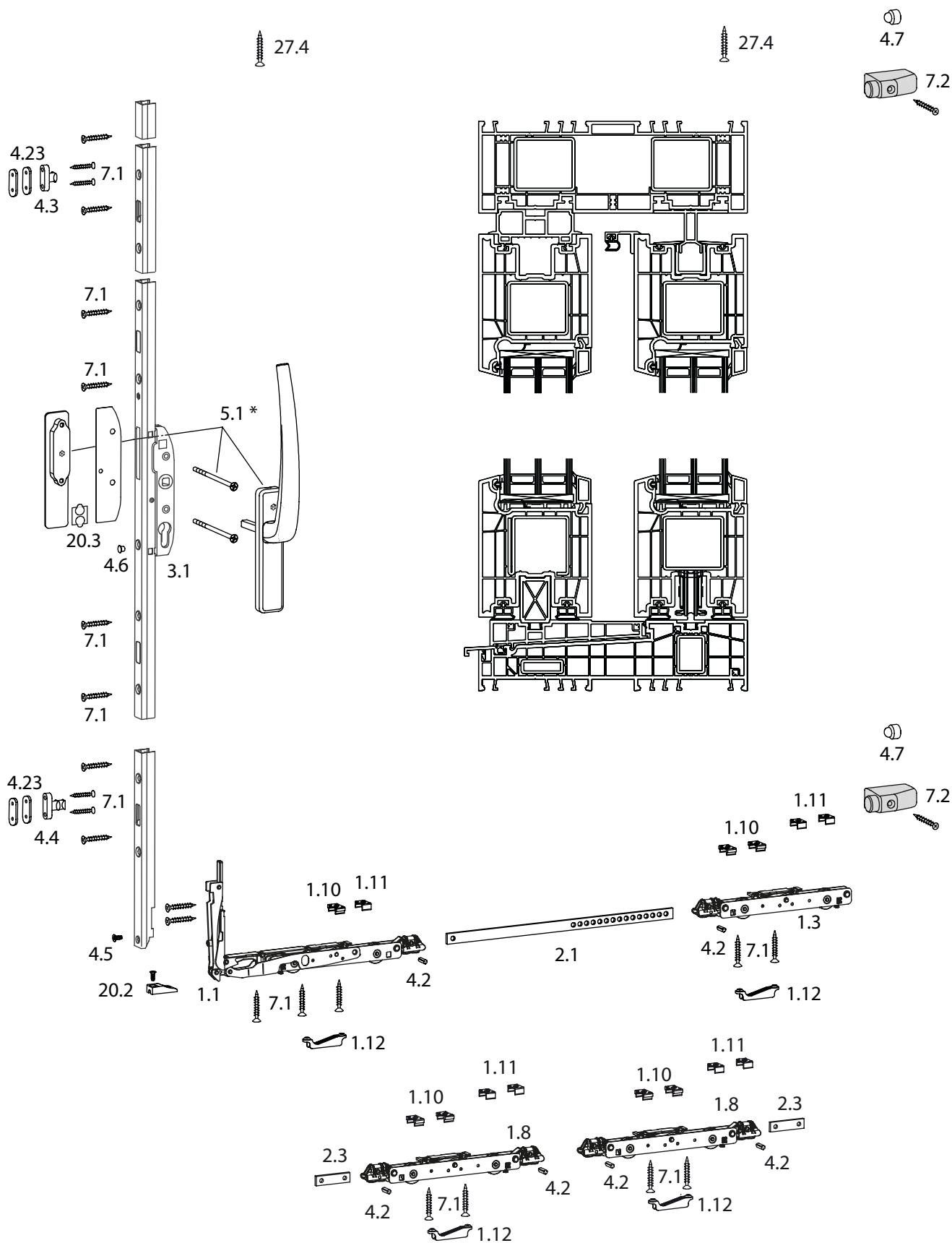


5. Assembly diagrams  
5.9 Fixed sash

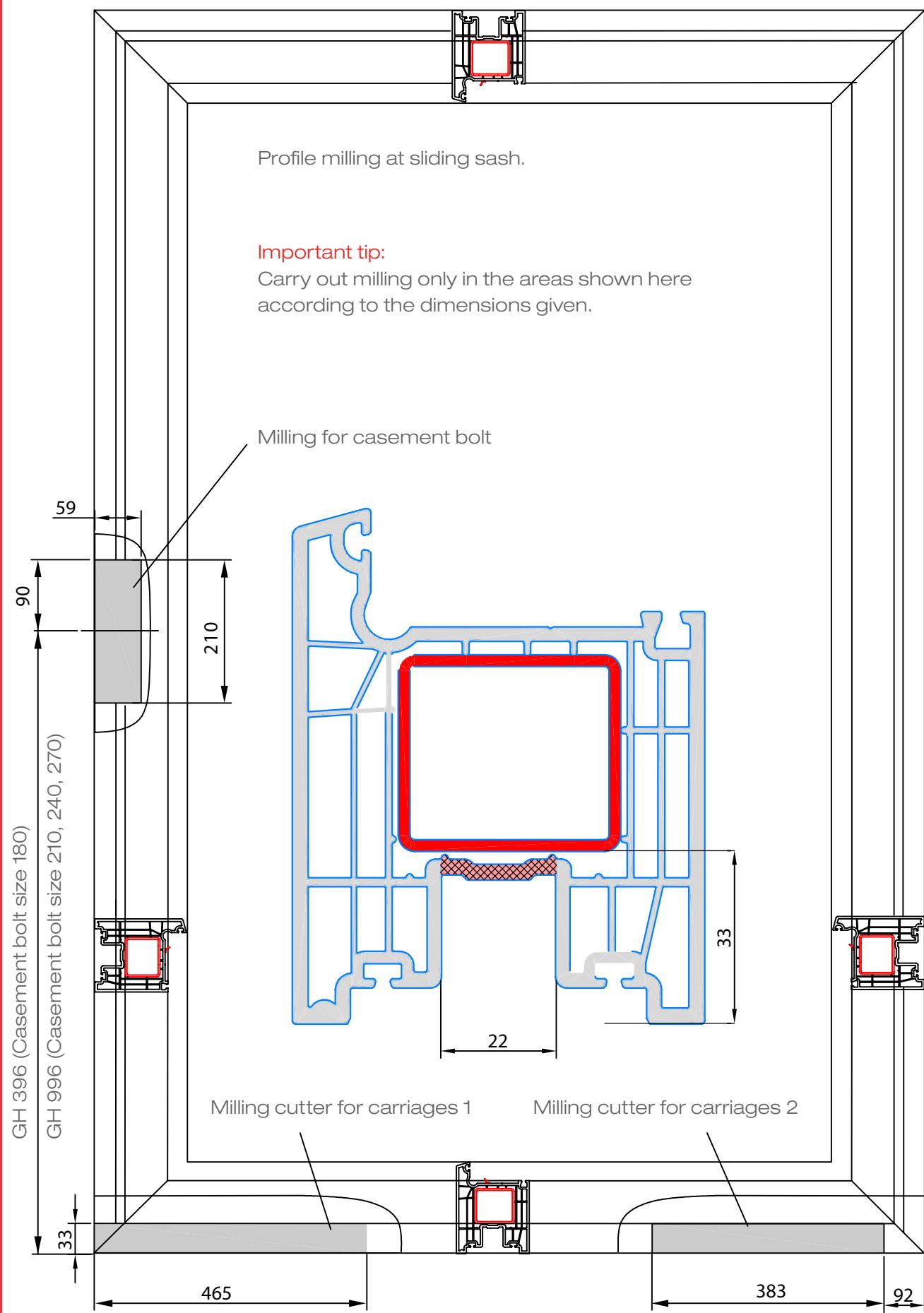




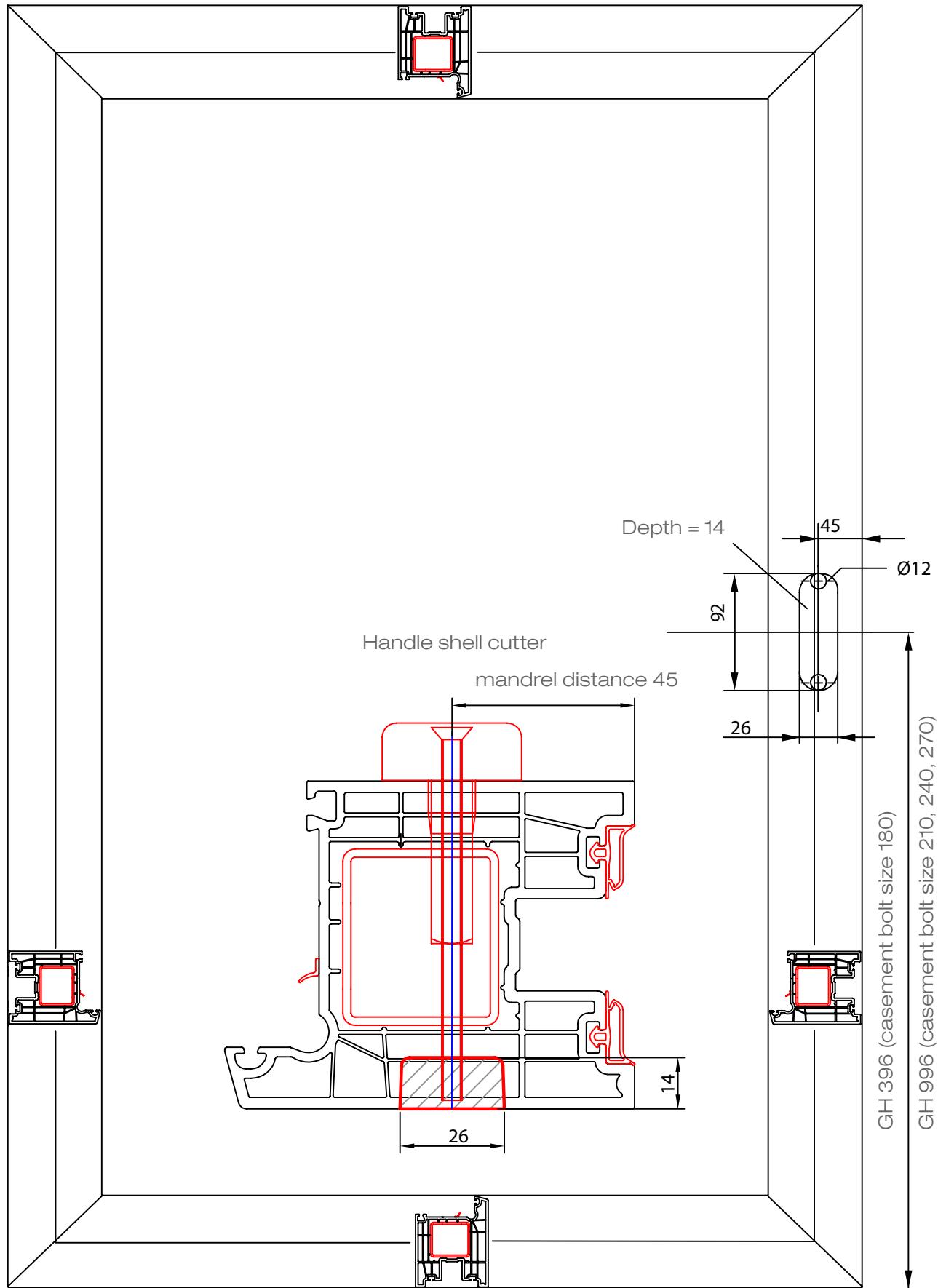
6. Hardware  
6.1 Atrium HS WITAL



6. Hardware  
6.2 Sash cutters

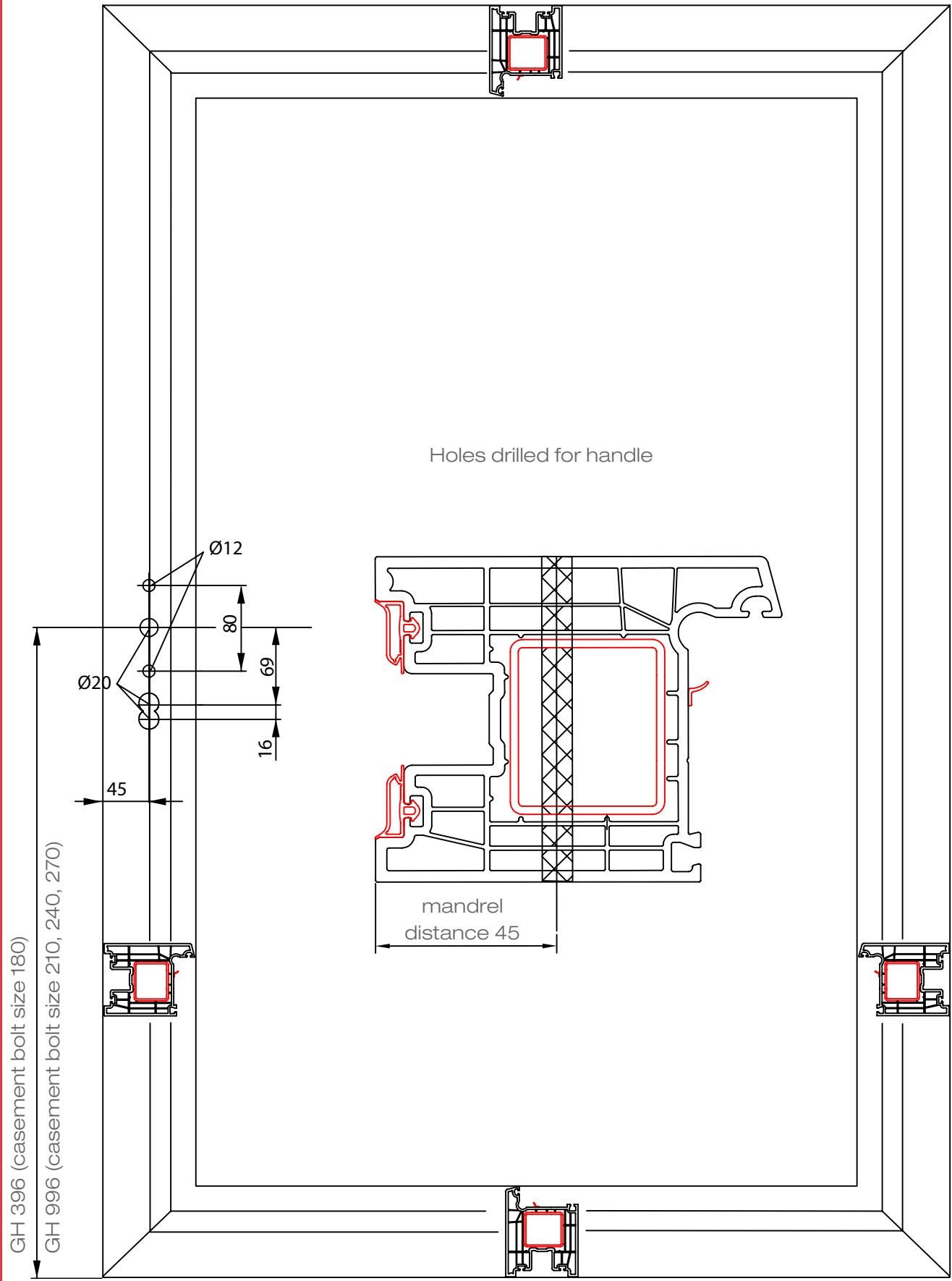


6. Hardware  
6.3 Exterior sash frame:  
Handle shell cutter

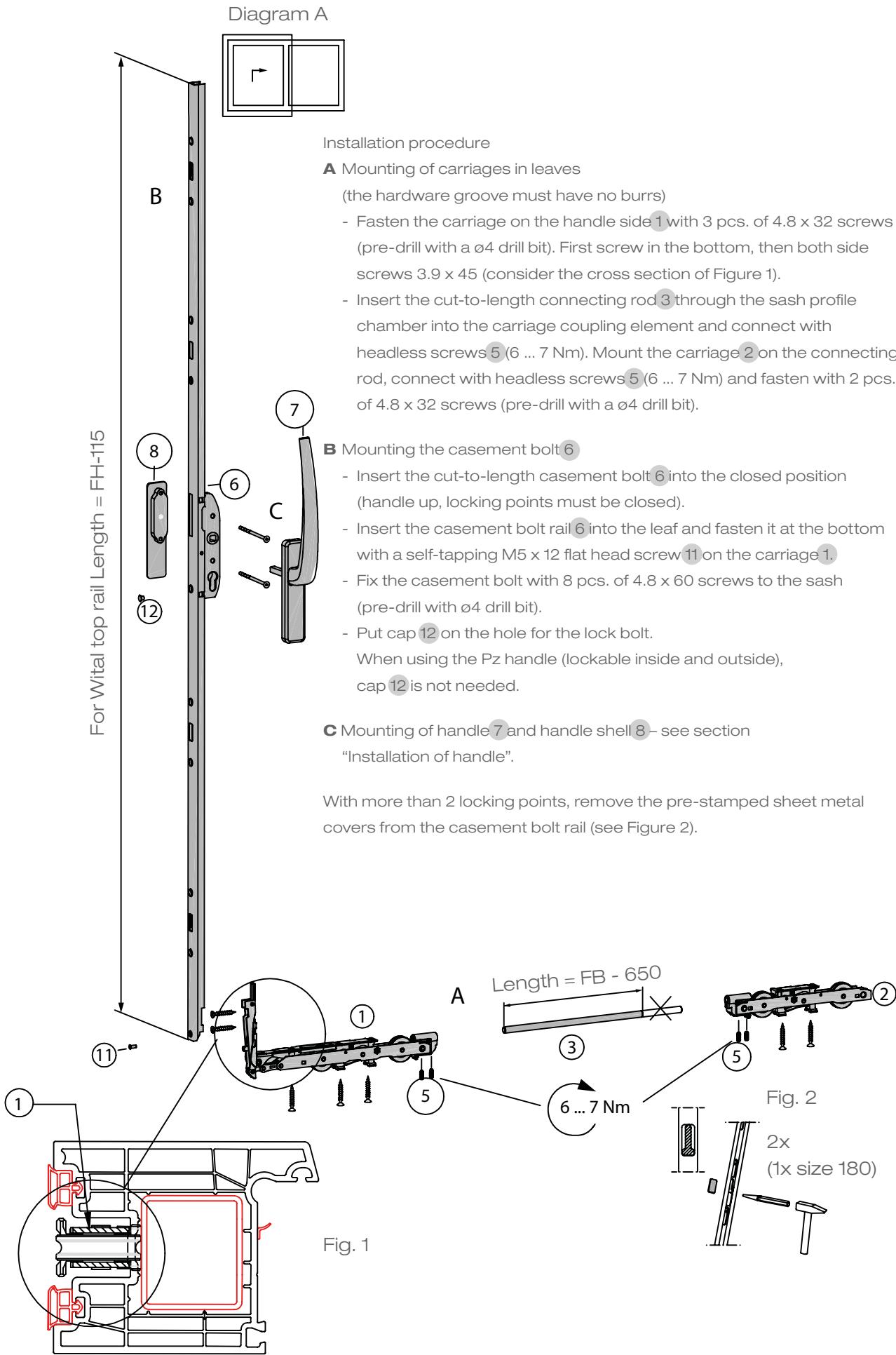


6. Hardware  
6.4 Inside sash frame:  
Handle opening

Catalogue release date: 01.2023



6. Hardware  
6.5 Sash frame:  
Mounting of hardware components



## 6. Hardware

### 6.6 Mounting of handle

Installation procedure

**A** Mounting of square mandrel: Drive the square mandrel 7 Vk with a plastic mallet into the escutcheon of the handle 7 Rs (consider the reference dimension K – see arrow).

**B** Shorten the M 5 x 100 screws to 85 mm.

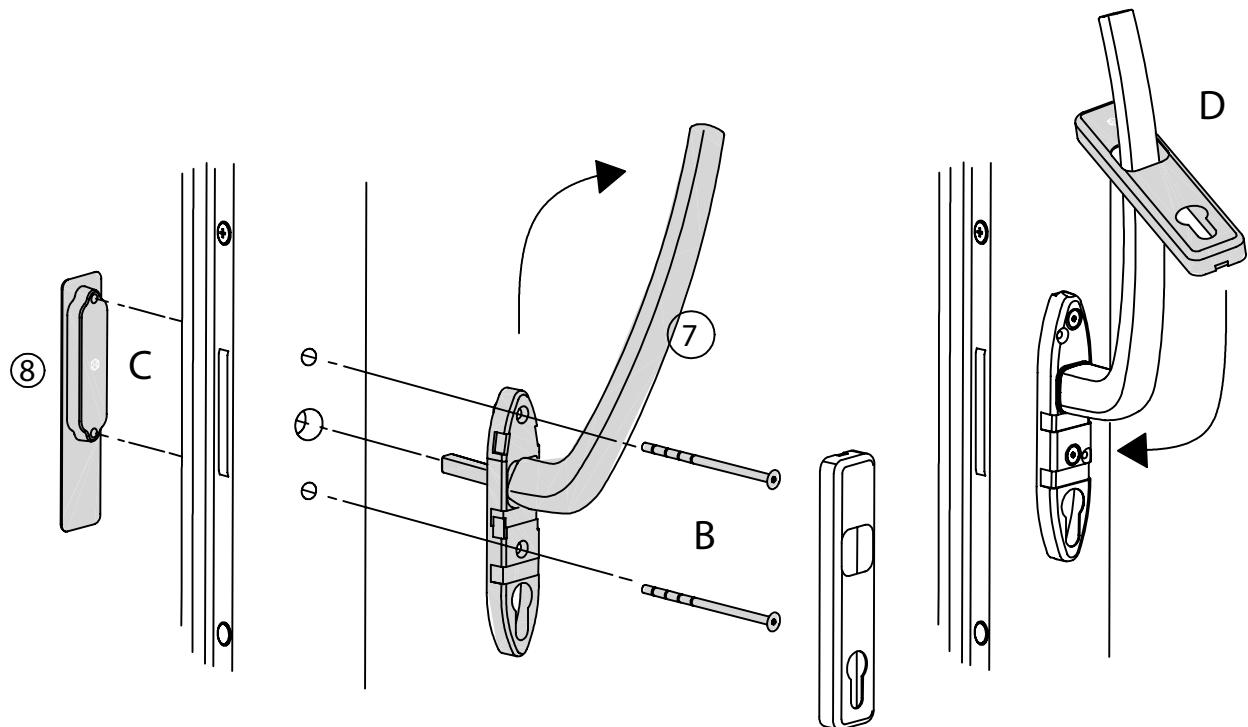
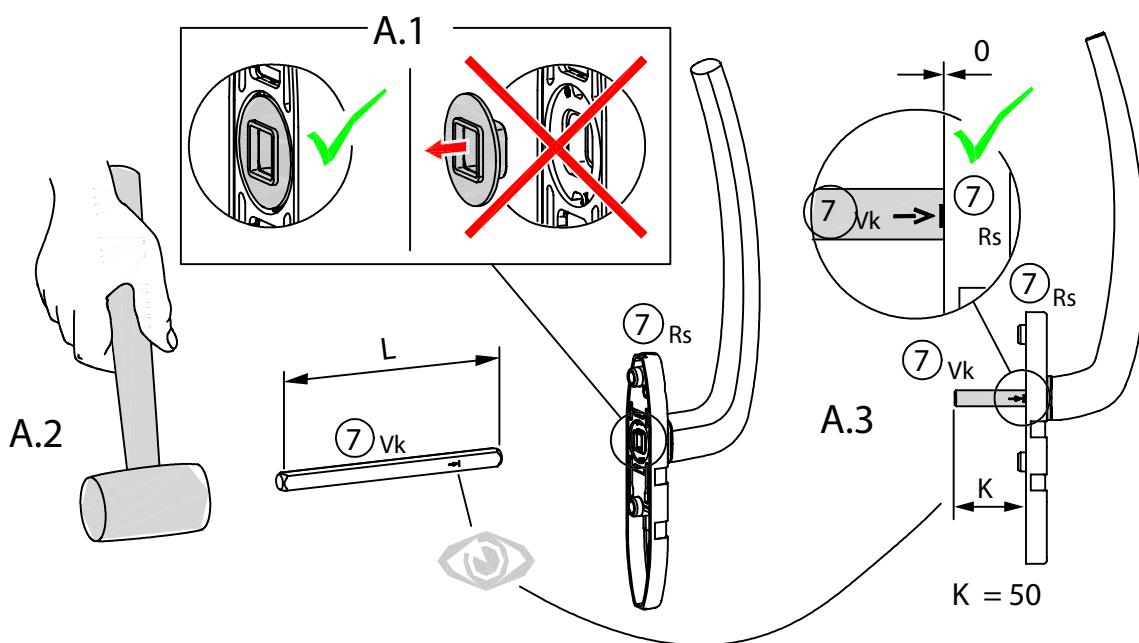
**C** Connect handle 7 to handle shell 8 with screws.

**D** Mount the handle escutcheon on the handle.

Instructions for other versions of the handle can be ordered from the manufacturer.

K – reference dimension

L – length of the square mandrel



## 6. Hardware

### 6.7 Mounting of sash stop

Installation procedure

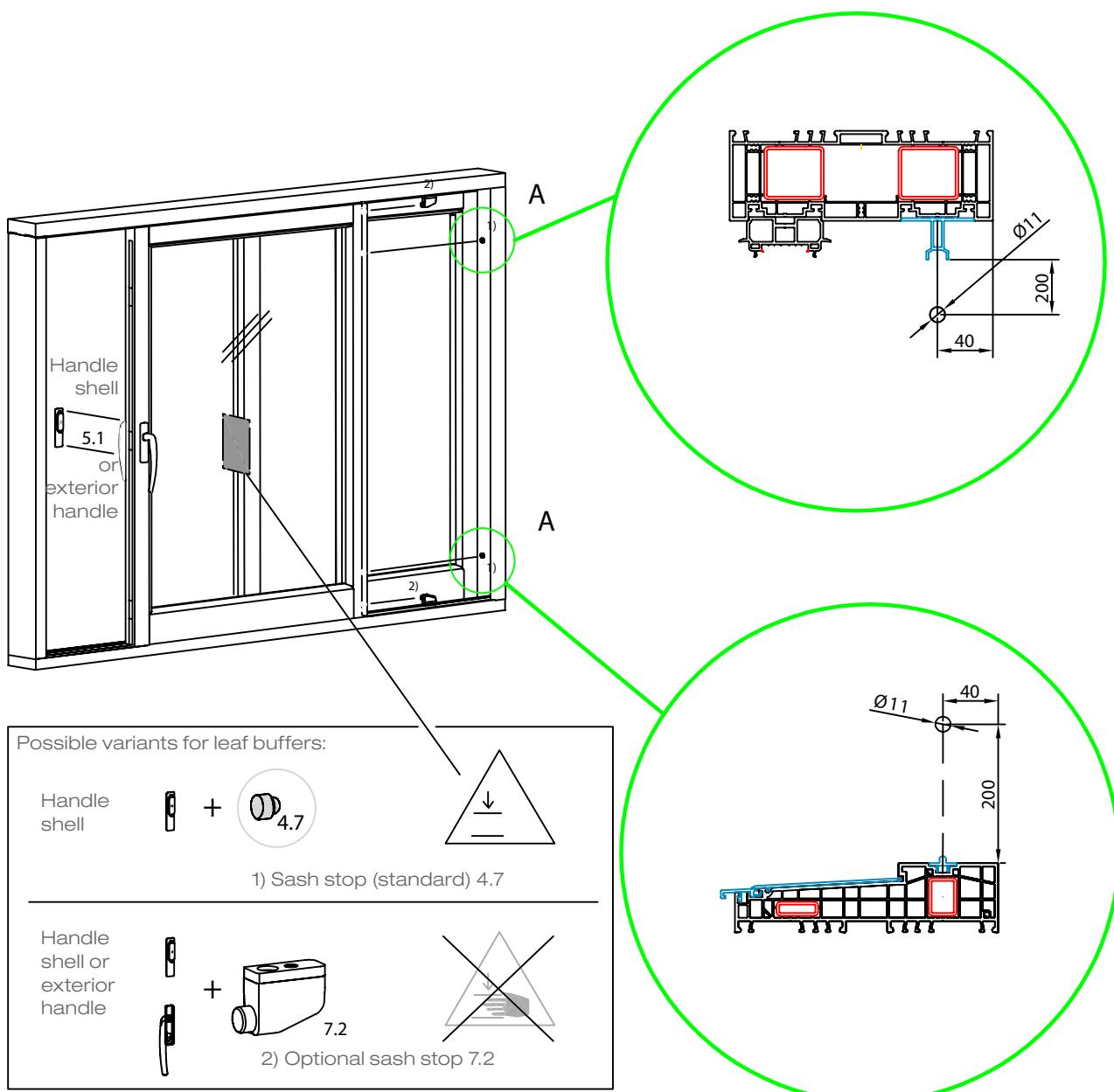
**A\*** Sash stop (standard): two mushroom-shaped rubber dampers are installed on each sliding sash.

**Note:**

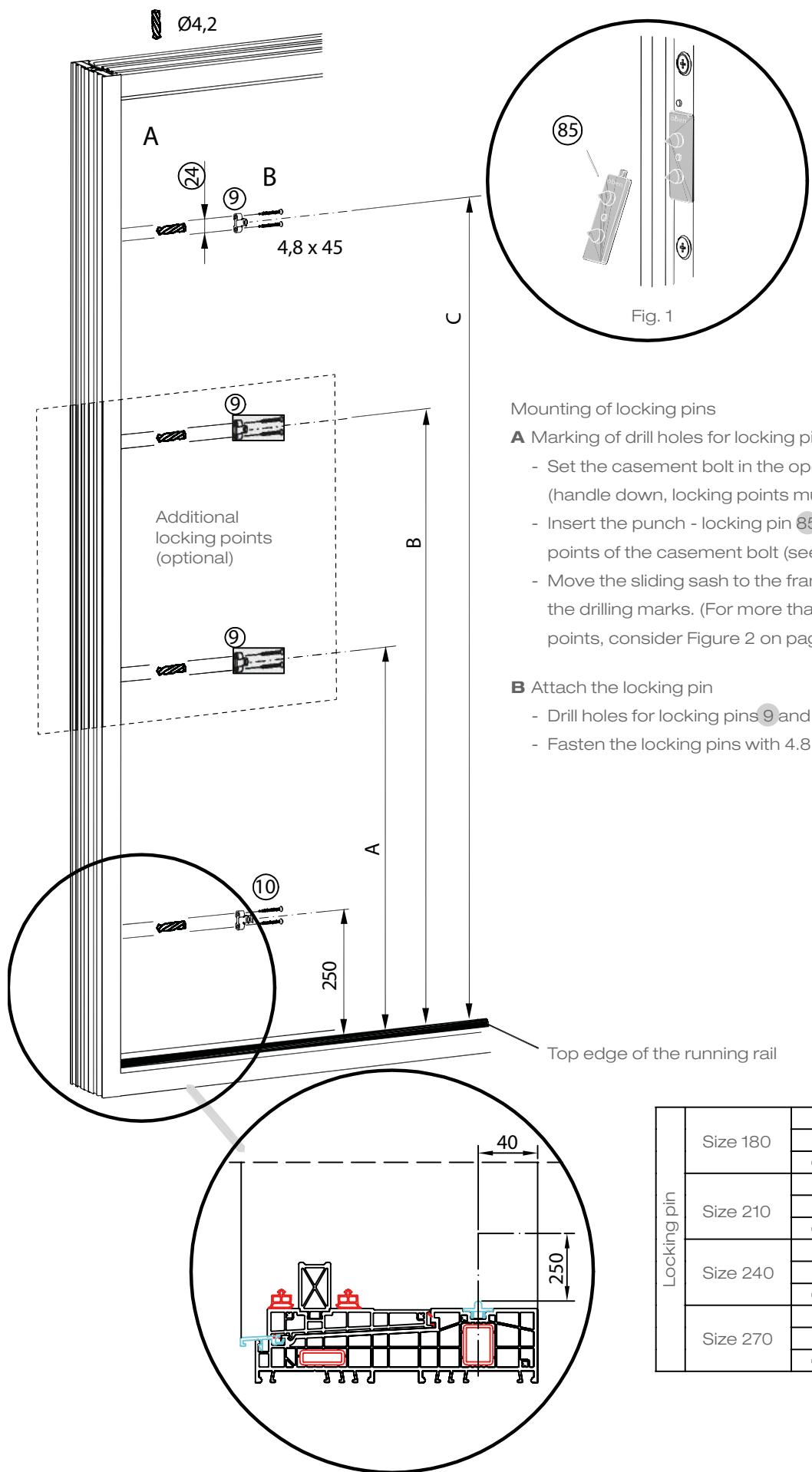
Risk of injury in the handle shell area!

To avoid the risk of injury, it is recommended to mount optional leaf stops according to the instructions „HS optional sash stop”.

For the exterior handle, install sash stops according to the instructions „HS optional sash stop”! Mark out holes on the frame for mushroom-shaped rubber dampers and drill a hole. Push the mushroom-shaped rubber dampers into the drill holes.



6. Hardware  
6.8 Frame:  
Mounting of locking pins



7. Nominal dimensions  
Diagram A – functional dimensions

Diagram A - basic elements	Function
Frame width	RB-6
Frame height	RH-115
Threshold	RB-6
Sash width (after welding)	RB/2-31,5
Sash height (after welding)	RH-132
Glass width	FB-176
Glass height	FH-176
Glazing bead width	FB-160
Glazing bead height	FH-160

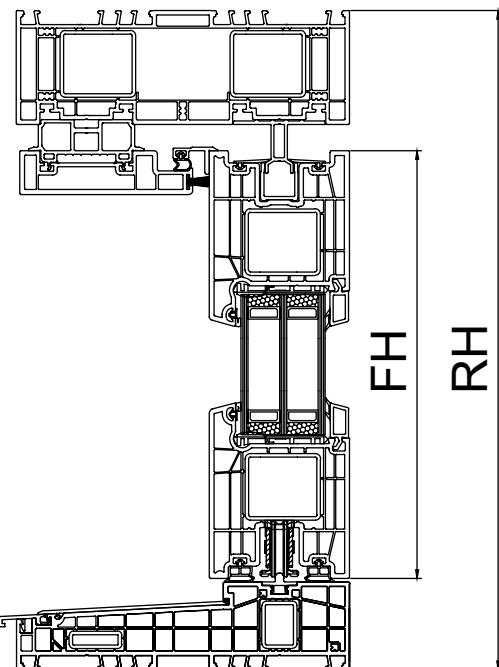


Diagram A - additional elements	Function
Interlock – fixed sash	FH-15
Interlock – slide sash	FH
Cover trim fixed sash	FH-25
Cover trim slide sash	FH
Cover trim interior frame	RH115
Cover trim exterior frame	RH-155
Fixed sash adapter	FB-75
Connecting strip for fixed sash width	FB+15
Connecting strip for fixed sash height	FB+15
Upper sealing strip connector	RB/2-113
Catch strip	RH-115
Upper sealing strip	RB/2-113

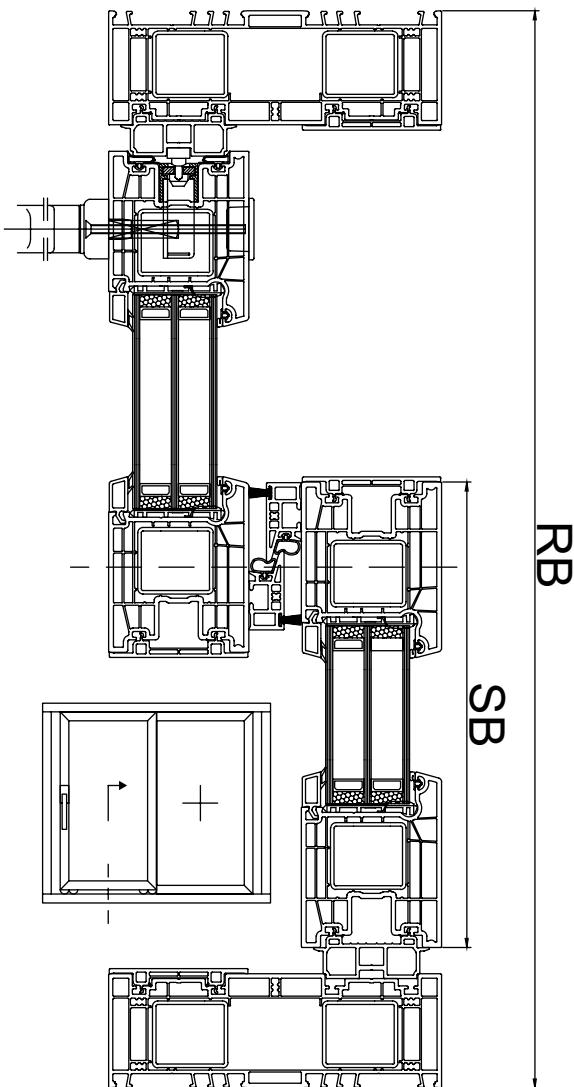
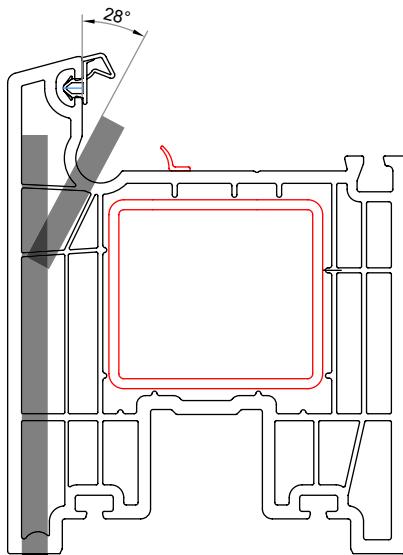


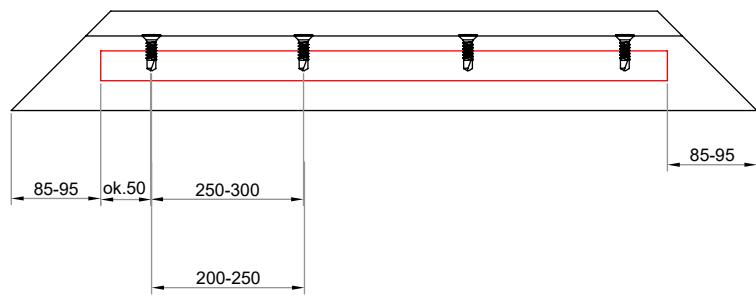
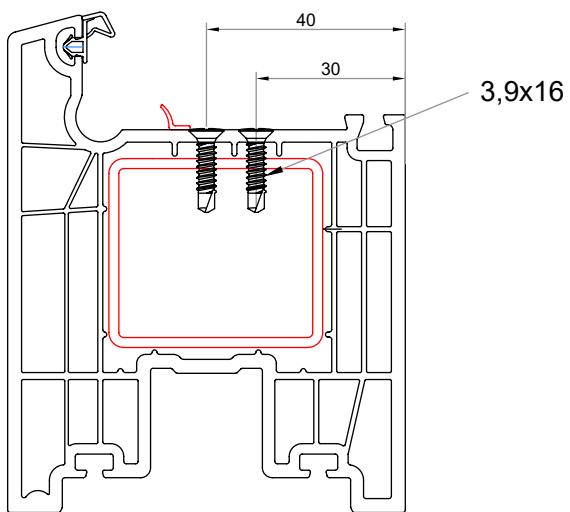
Diagram A - steel reinforcement and aluminium elements	Function
Steel to frame horizontal	RB-6
Steel to frame vertical	RH-6
Steel to leaf horizontal	FB-165
Steel for leaf vertical	Fh-165
Steel to threshold 1	RB-6
Steel to threshold 2	RB-6
Top rail	RB-148
ALU rail track	RB-148
ALU drip cap	RB-6
ALU threshold cover	RB/2-119
ALU Slide sash sealing	FB
Fixed sash connector	FB-56

## 8. Execution tips

### 8.1 Drainage

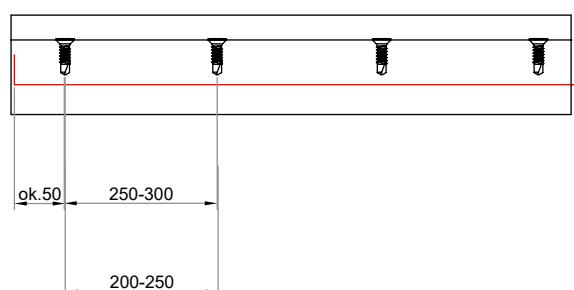
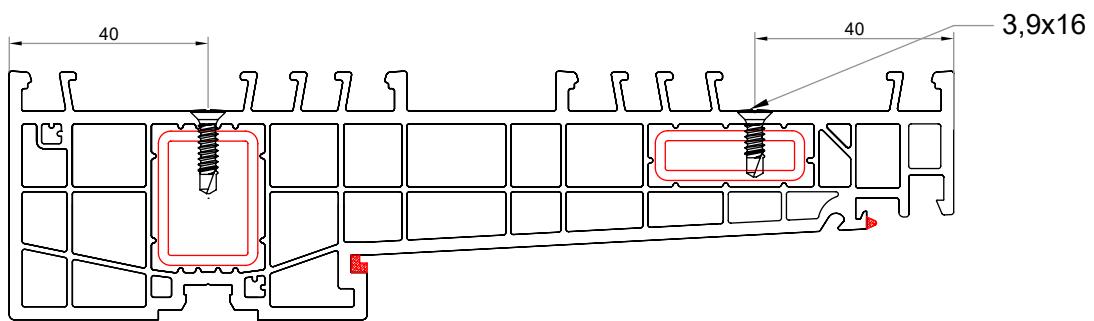
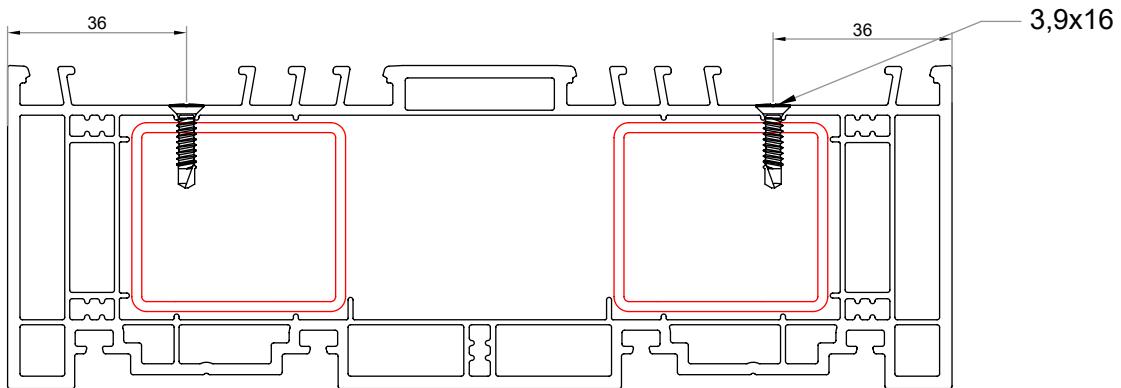


### 8.2 Mounting of reinforcement in sash

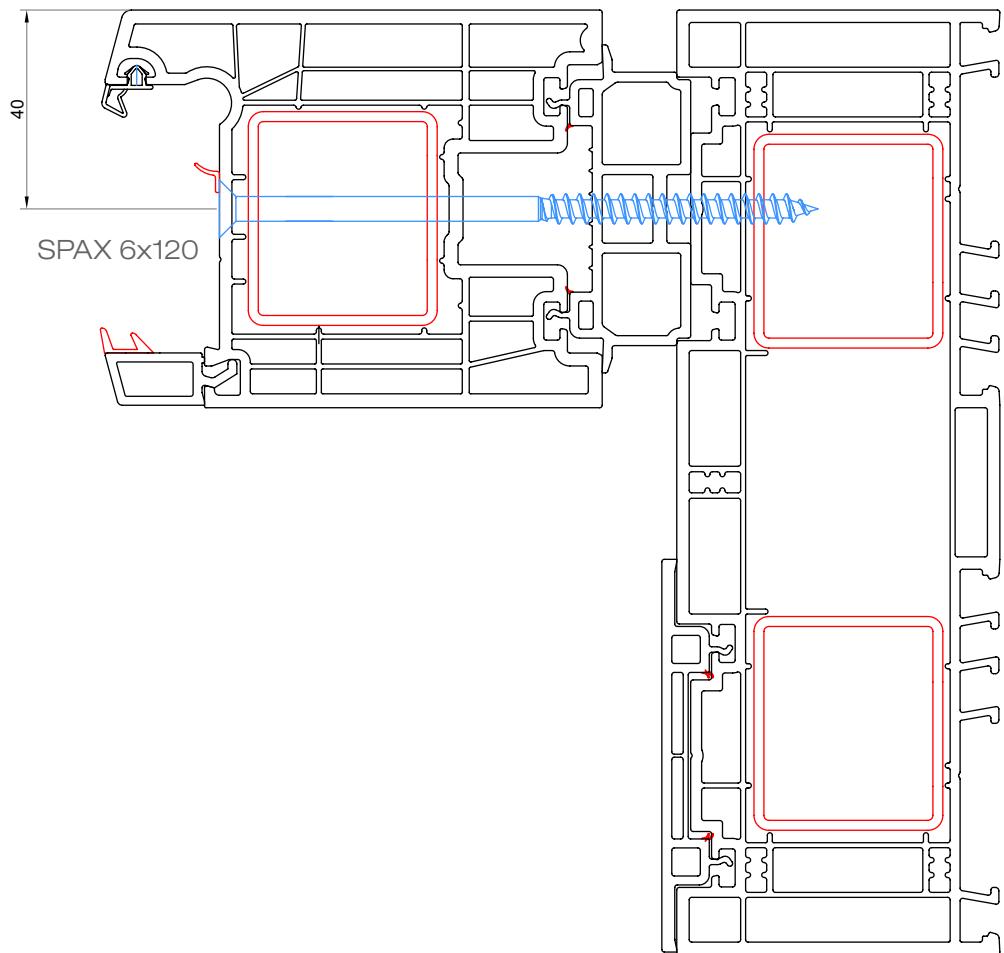


## 8. Execution tips

## 8.3 Mounting of reinforcement in frame and threshold

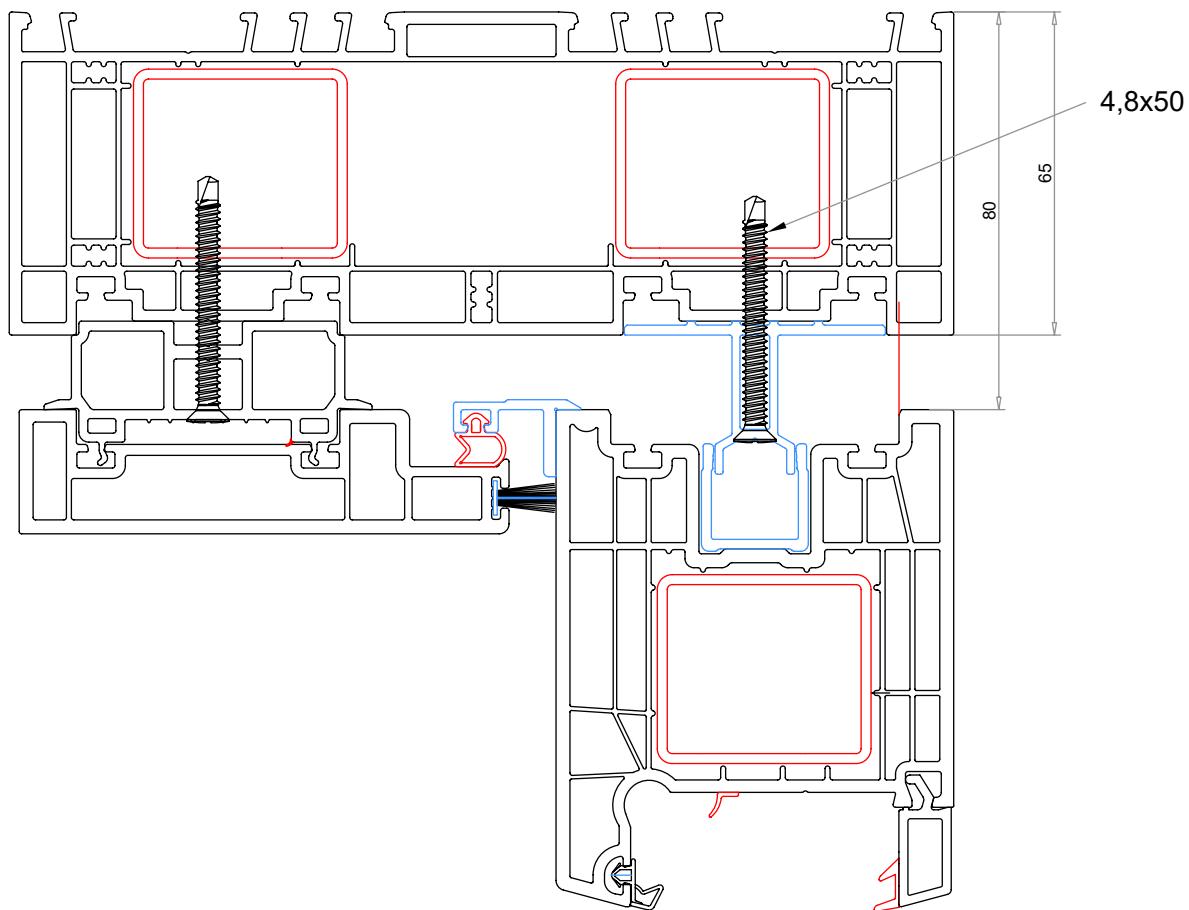


8. Execution tips  
8.4 Mounting of fixed to frame



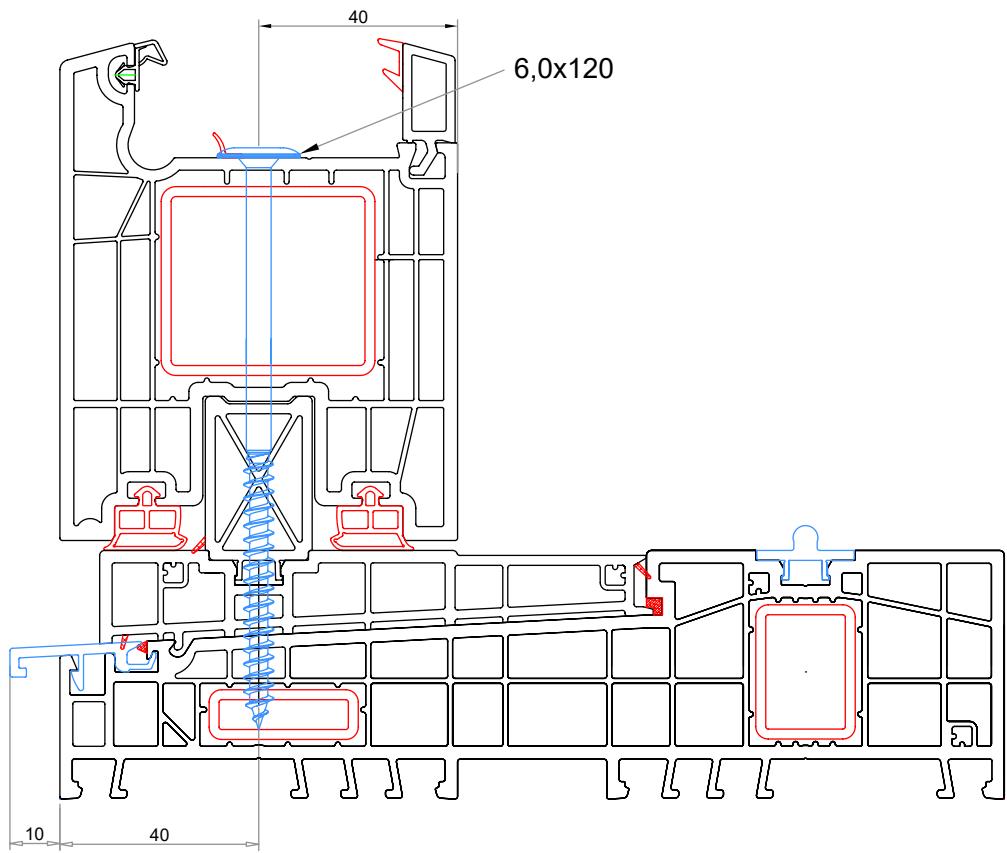
## 8. Execution tips

## 8.5 Mounting of top rail and upper sealing strip to frame



## 8. Execution tips

## 8.6 Mounting of fixed sash to threshold



## 8. Execution tips

## 8.7 Mounting of Interlock on fixed and slide sash

