

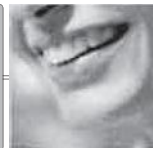
# KMG

## PVC windows & doors systems



Technical catalogue

# 2008



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## INTRODUCTION

KMG profile produced by ALTEST is a project between the Austrian, German and the Bulgarian company "ALTEST". The ALTEST plant was designed and built together with German and Austrian engineers entirely of contemporary materials under the strict control of the "Greiner - Group" Company Institute. The staff was trained in "Greiner Extrusion-technik" plants and the lines were assembled by German and Austrian experts.

ALTEST laboratory has at its disposal all the necessary instruments for testing the profiles in compliance with the world quality requirements.

Advantages:

In an air-conditioned building, the windows produced of KMG profiles may reduce the energy loss to 37%.

The important selection of thermal conductivity factor is the material for windows profiles and the choice of glass. PVC Thermal Productivity is 0.14 Kcal/m<sup>2</sup>hr. C, and that of aluminum 175 Kcal/m<sup>2</sup>hr.C.

KMG profile are resistant to blows of 3 kg per 1 cm at room temperature of 23°C.

European standards for surface gloss. Excellent results at heating, moisture and noise insulation with three, four and six chamber systems. Structure that does not allow burning deformation, insensitive to the environment - does not contain lead, does not allow retaining water, does not allow retaining stains, dust - tested through Clean Control implemented by German PVC profiles producers. Resistant to seasonal changes, no need of painting and easy to assemble.

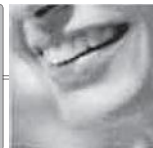
ALTEST PVC profiles are protected against the attack of acids, alkali, soiling and salts. Resistant to corrosion when used in conditions of high temperature and humidity.

KMG profiles, as a material, absorb water under 0.1%. Mostly, the double sealer and the special draining openings that prevent water penetration.

ALTEST profiles have special formula for obtaining resistance at UV rays attack. They can stand long against exposure to strong sun, storms, draught, high humidity and sudden changes of weather. Mostly, the windows have perfect insulation against dust, wind and rain - due to the double rubber insulation and welded corners.

KMG profiles, with their specific non-vibrating material and thermally assembled corners, drastically reduce the outside noise. The average acoustic insulation of 22-25 dB was achieved at 6 mm glass and 30 dB at glass-block, therefore, PVC windows are preferred for the construction of hospitals, schools, office buildings.

KMG profiles are easy to operate at any conditions because of their low thermal expansion factor, which is  $3 \times 10^{-5} / \text{degC/cm}$ .



### Isolation property of profiles for series **PRELUDE**

1. Секция 1

1.1 Секция 1\_Psi

Материал PVC (2), Стомана (3), силикон пяна, PU пяна (10), PVC меко (11), EPDM (12), полисулфид (13), стъкло (14), газ (15), бутил (16), TPS (18).

$T_{\text{студена}} = -15 \text{ C}$ ;  $T_{\text{топла}} = 20 \text{ C}$

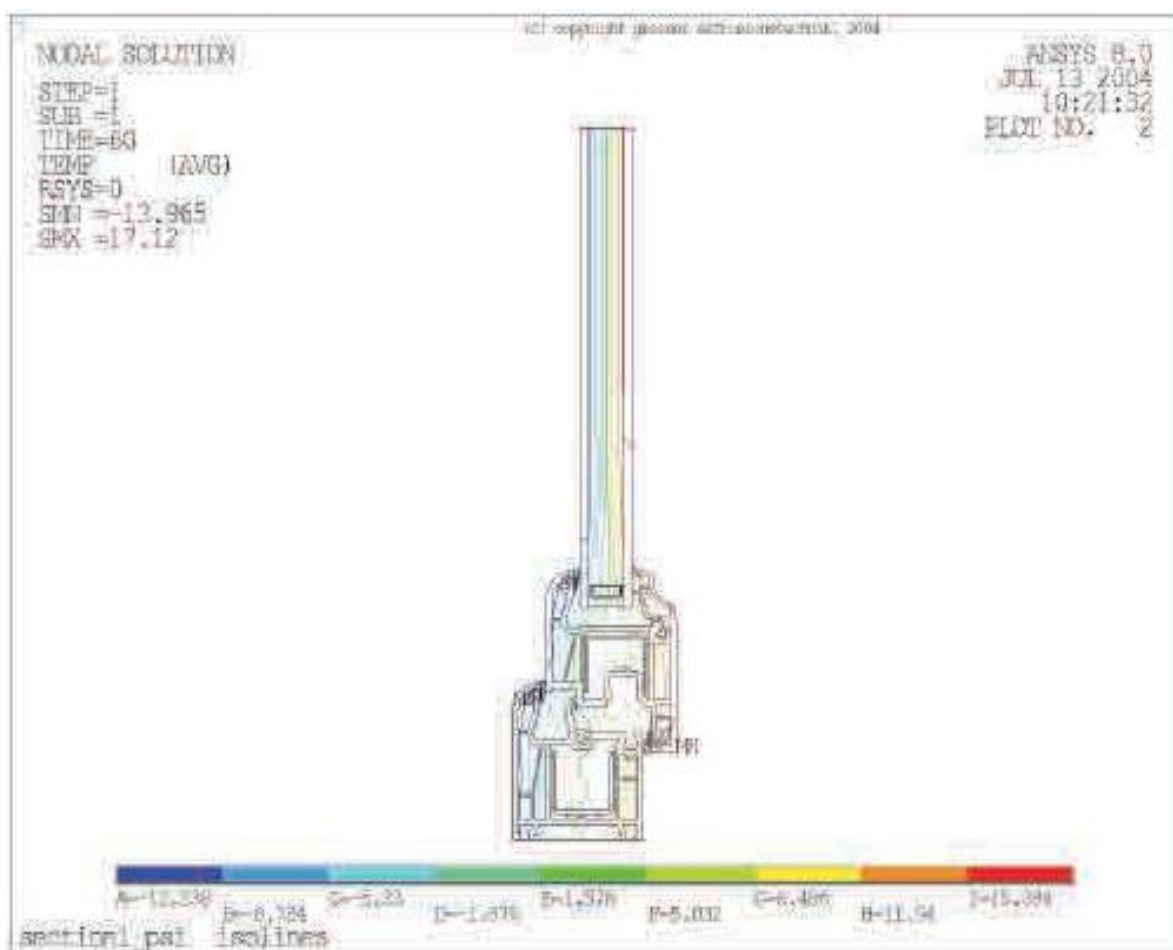
$ALP_{\text{студен}} = 25 \text{ W/m K}$ ;  $alp_{\text{топъл}} = 7,69 \text{ W/m K}$

$L = 0.306\text{m}$ ;  $L_{\text{vis}} = 0.190\text{m}$ ;  $I_f = 0.116\text{m}$

$U_g = 0.90 \text{ W/m K}$

$U_{\text{global}} = 1.23 \text{ W/m K}$

$T_{\text{min}_I} = 10.9 \text{ C}$





## S-482.01 GLASS-HOLDER

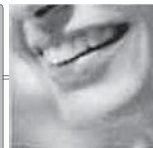
GLASS-SEALANTS

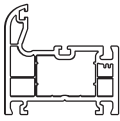
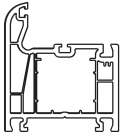
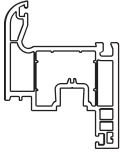
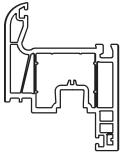
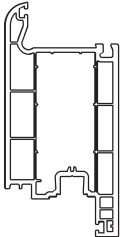
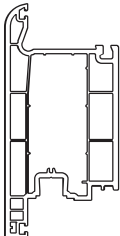
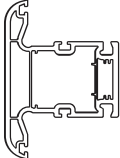
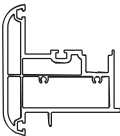
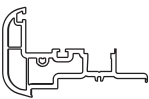
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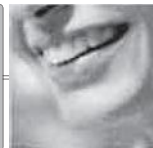
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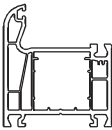
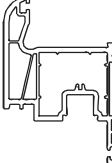
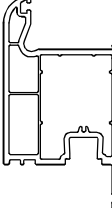
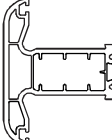
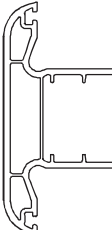
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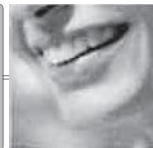


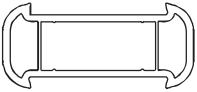


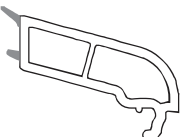



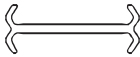


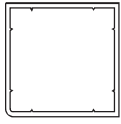
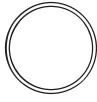



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	S-482.03	60,0/68,0
	S-482.05	60,0/78,0
	S-482.02	60,0/78,0
	S-482.08	60,0/124,0
	S-482.09	60,0/124,0
	S-482.04	60,0/84,0
	S-482.10	71,0/63,4
	S-482.07	76,5/47,6



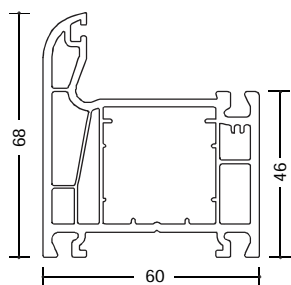
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	S-482.19	60,0/78,0
	S-482.23	60,0/95,0
	S-482.24	60,0/70,0
	S-482.21	60,0/84,0



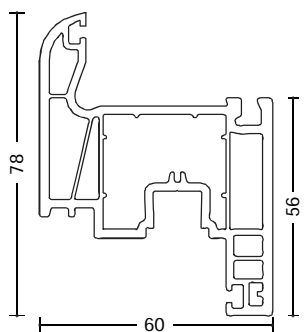
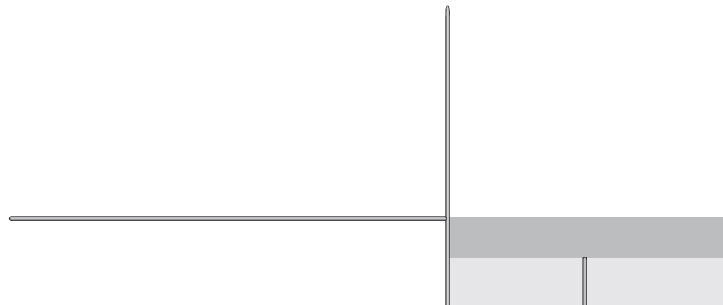
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	S-482.15	28,5/16,5
	S-482.14	36,5/22,0
	S-482.22	9,0/22,0
	04-846	200,0/27,0
	04-844	108,0/20,0
	S-549.18	37,2/13,4
	S-549.09	36,7/26,0
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	E 3308	60,0/20,0



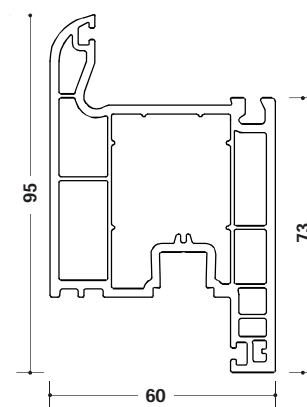
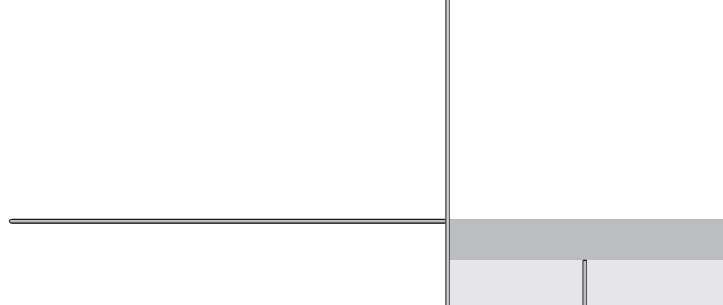
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	<p><b>FRAME</b> CODE   <b>S-482.03</b></p>		<p><b>MULLION</b> CODE   <b>S-482.04</b></p>
	<p><b>SASH</b> CODE   <b>S-482.05</b></p>		<p><b>OVERHUNG</b> CODE   <b>S-482.10</b></p>
	<p><b>SASH</b> CODE   <b>S-482.02</b></p>		<p><b>OVERHUNG</b> CODE   <b>S-482.07</b></p>
	<p><b>DOOR SASH</b> CODE   <b>S-482.08</b></p>		<p><b>COUPLING PROFILE</b> CODE   <b>S-482.13</b></p>



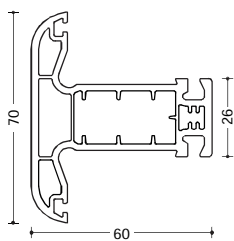
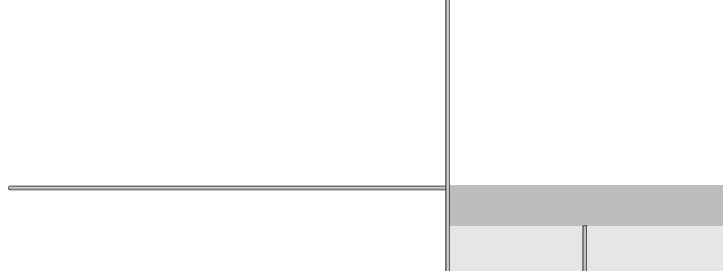
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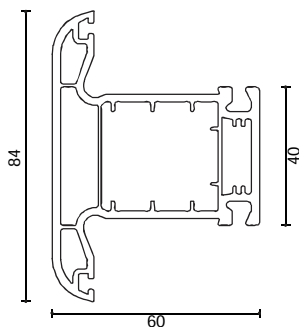
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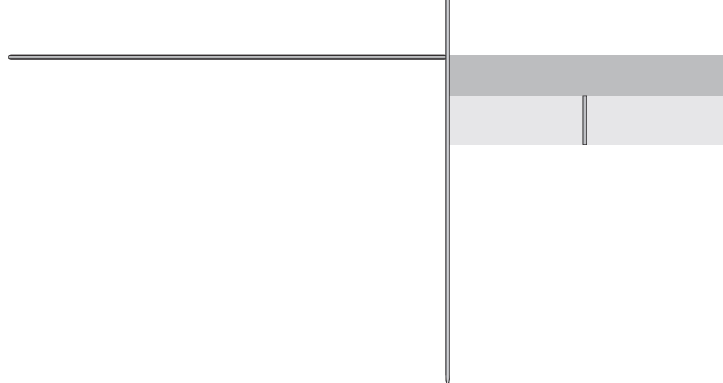
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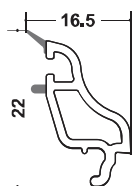


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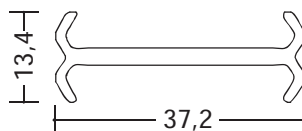
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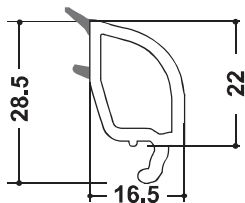
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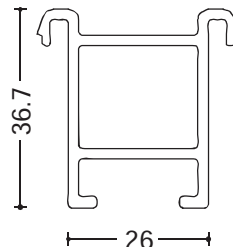
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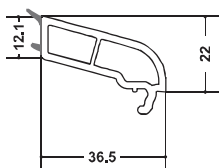
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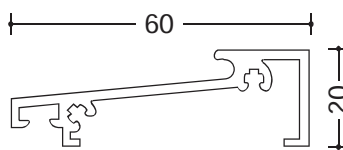
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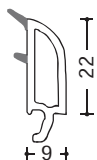
**GLASS-HOLDER 24 mm**

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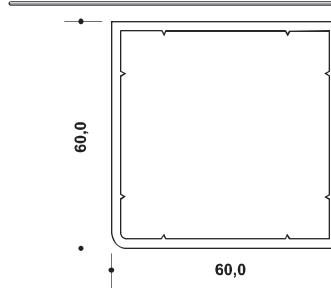
**ALUMINIUM DOOR-SILL**

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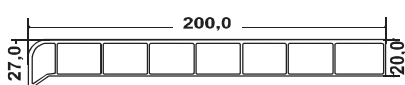
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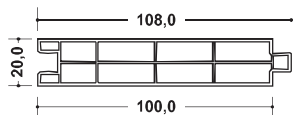
**COLUMN FOR 90 ANGLE**

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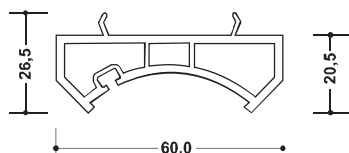
**WINDOW SILL**

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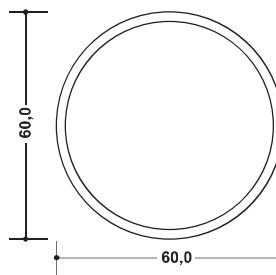
**PANEL**

CODE | **04-844**



**ADDITION FOR PIPE**

CODE | **04-842**



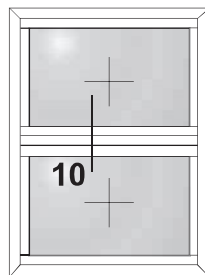
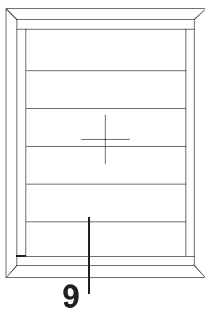
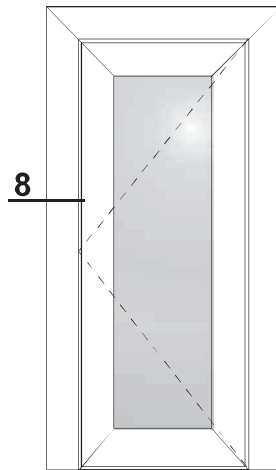
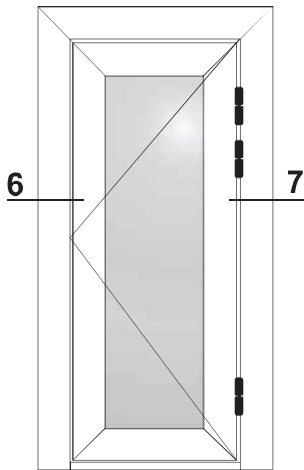
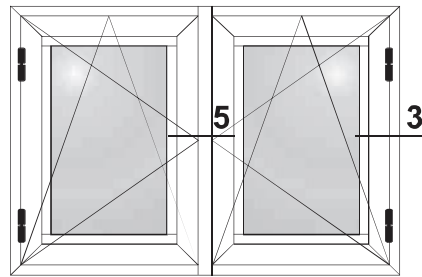
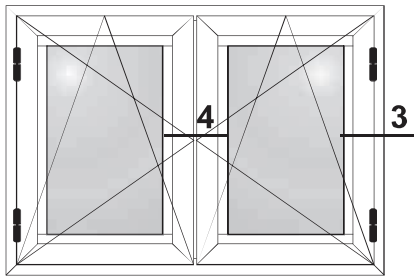
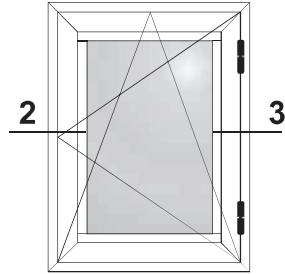
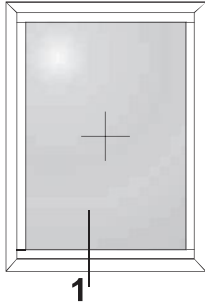
**PIPE**

CODE | **04-840**



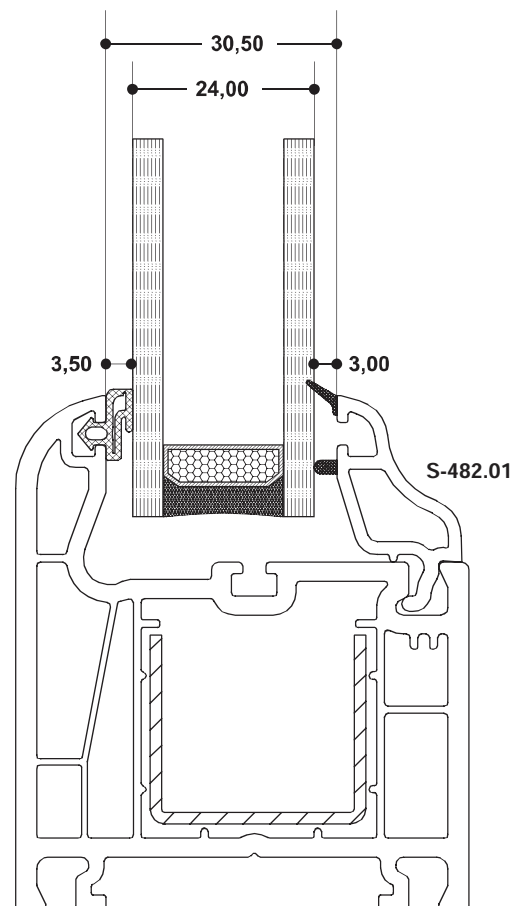
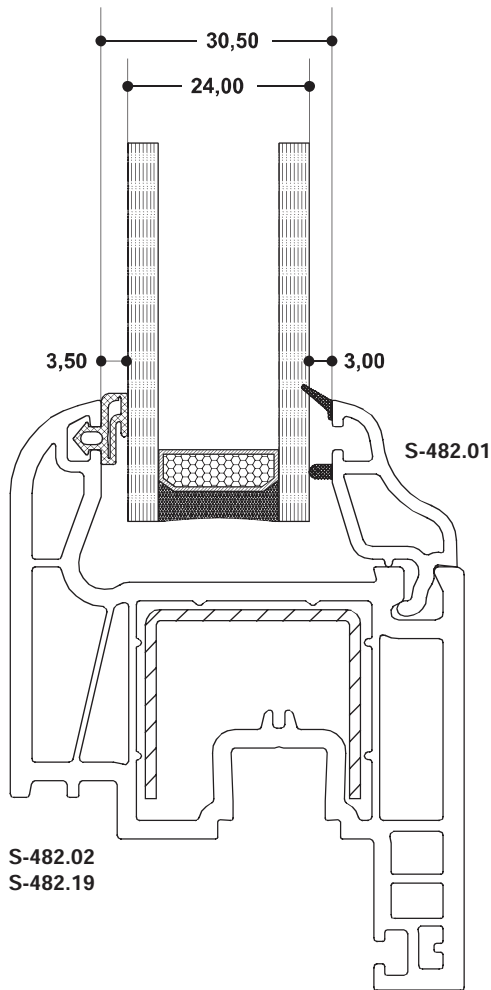
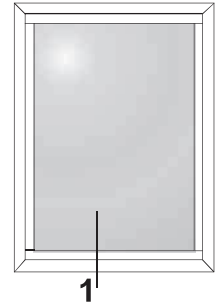


## TYPES OF SECTIONS



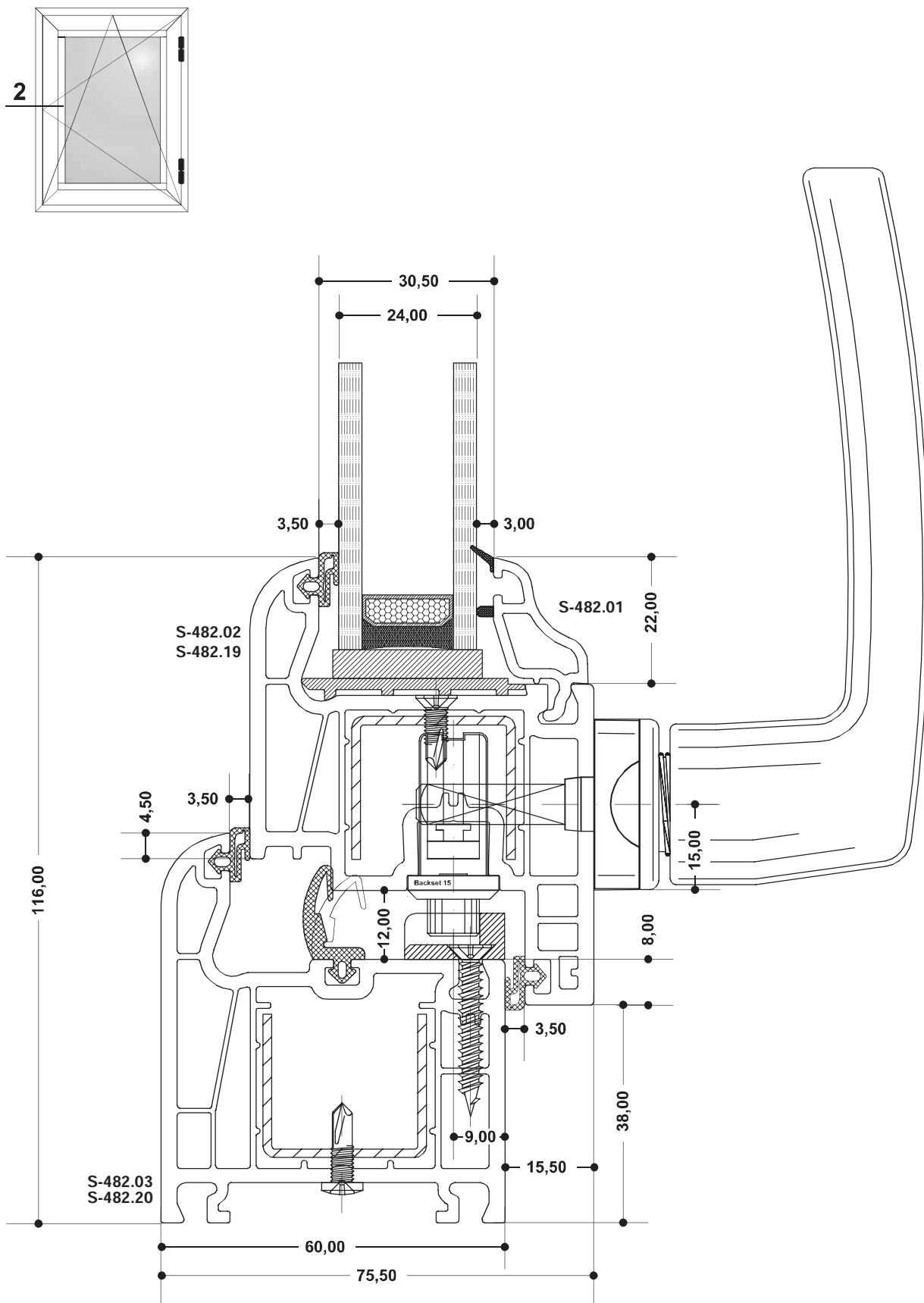


## SECTIONS



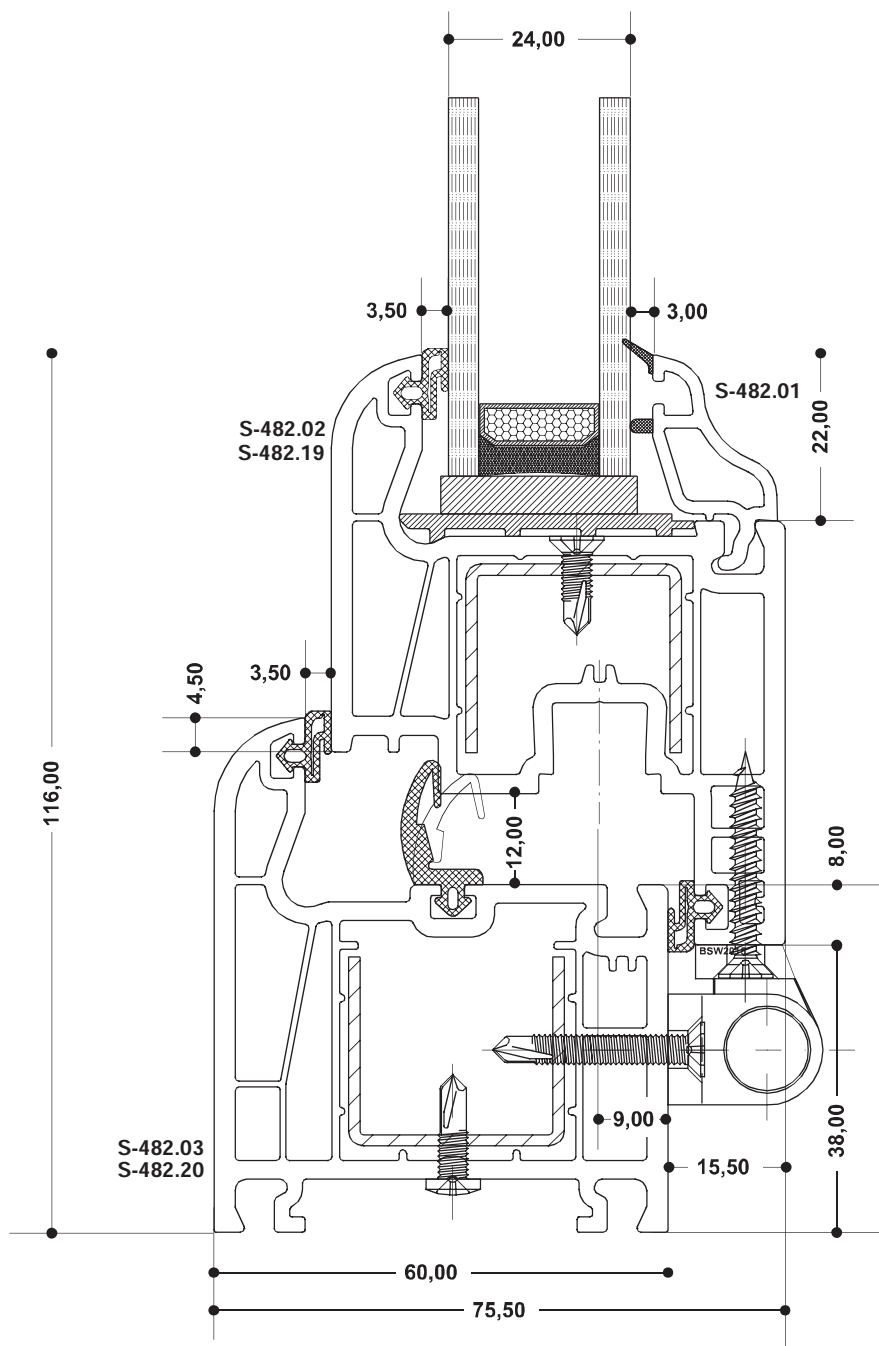
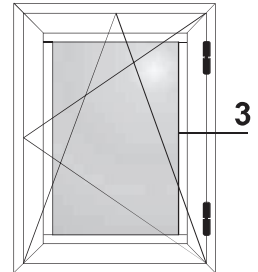


## SECTIONS



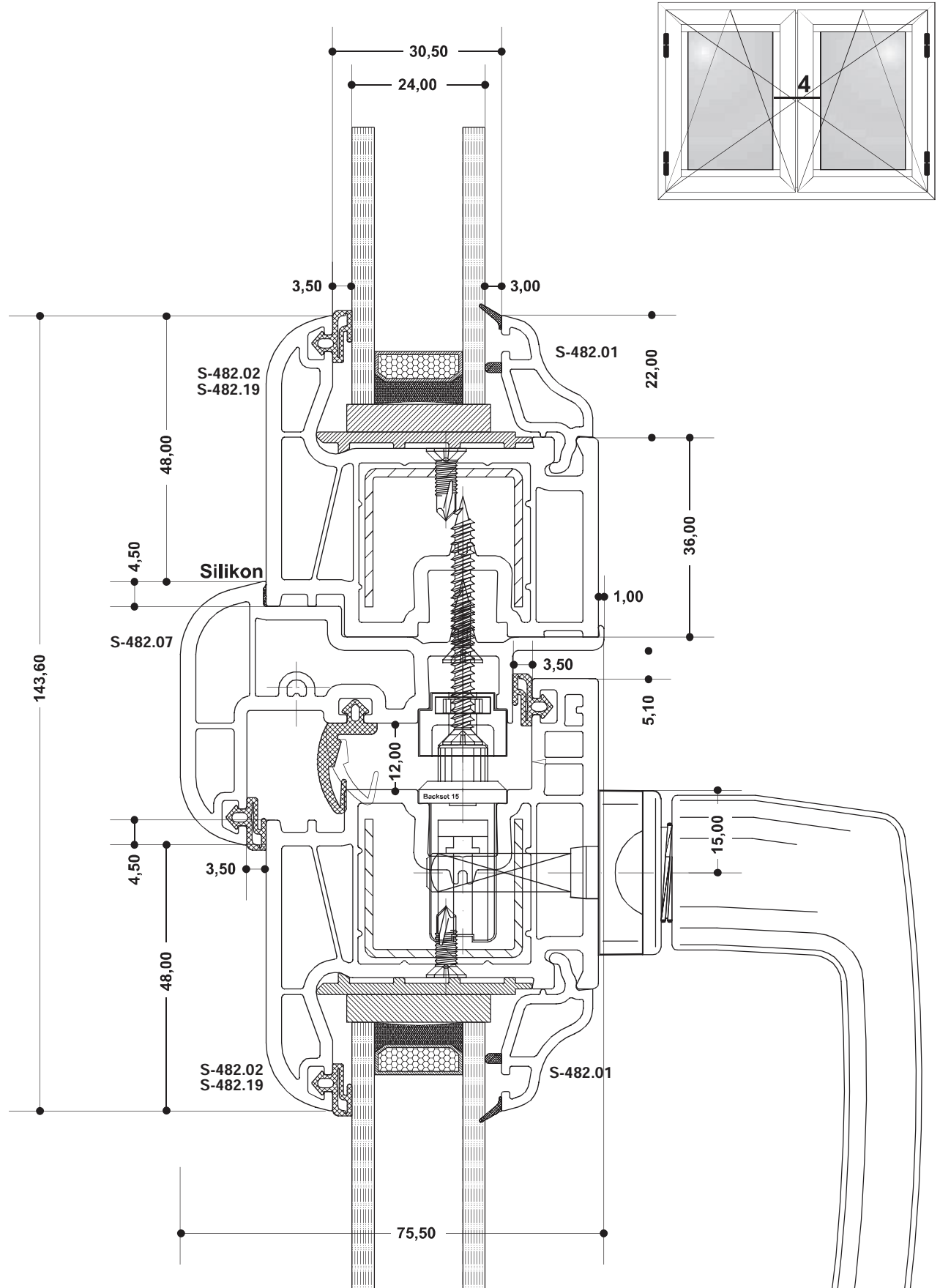


## SECTIONS



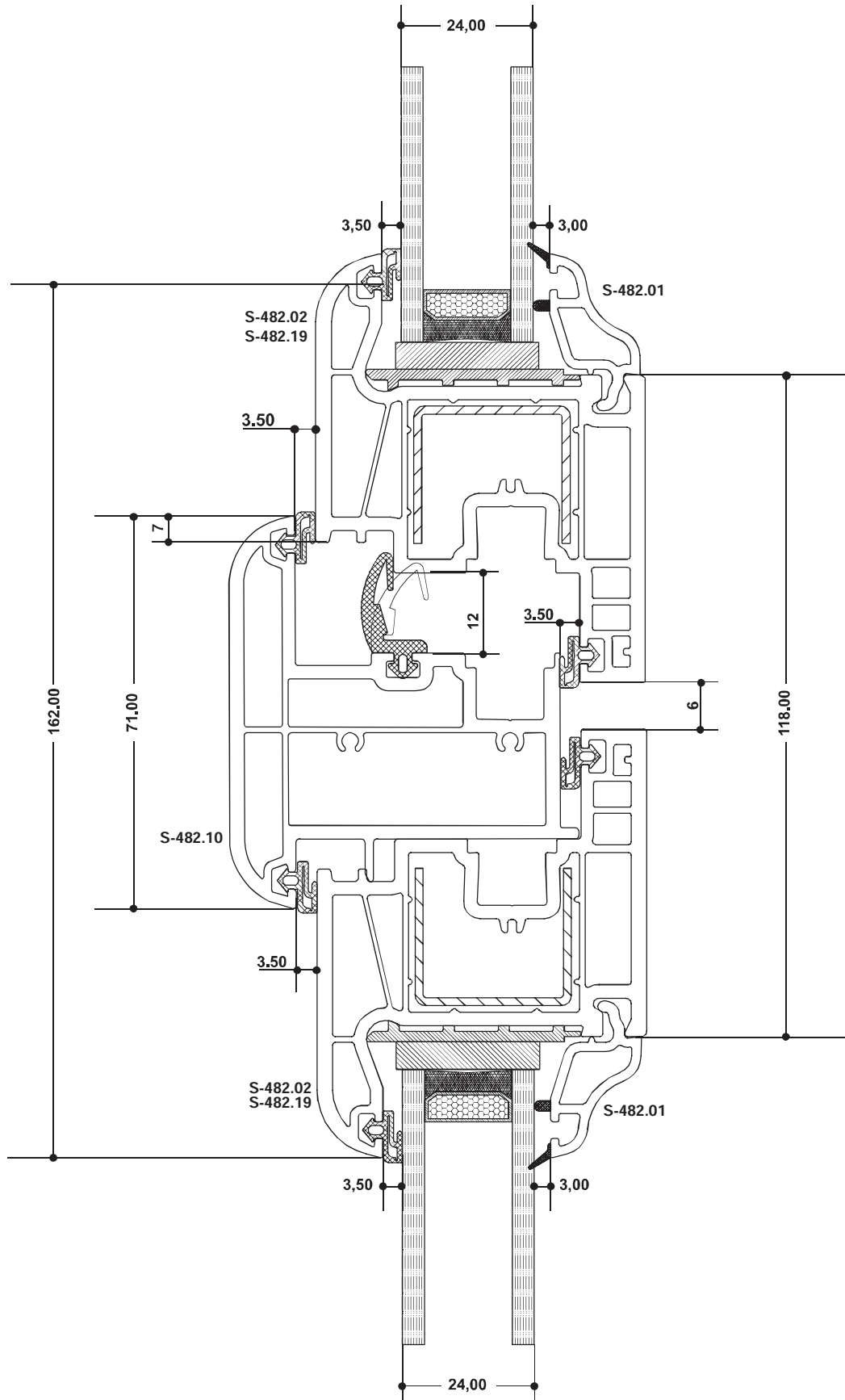


## SECTIONS



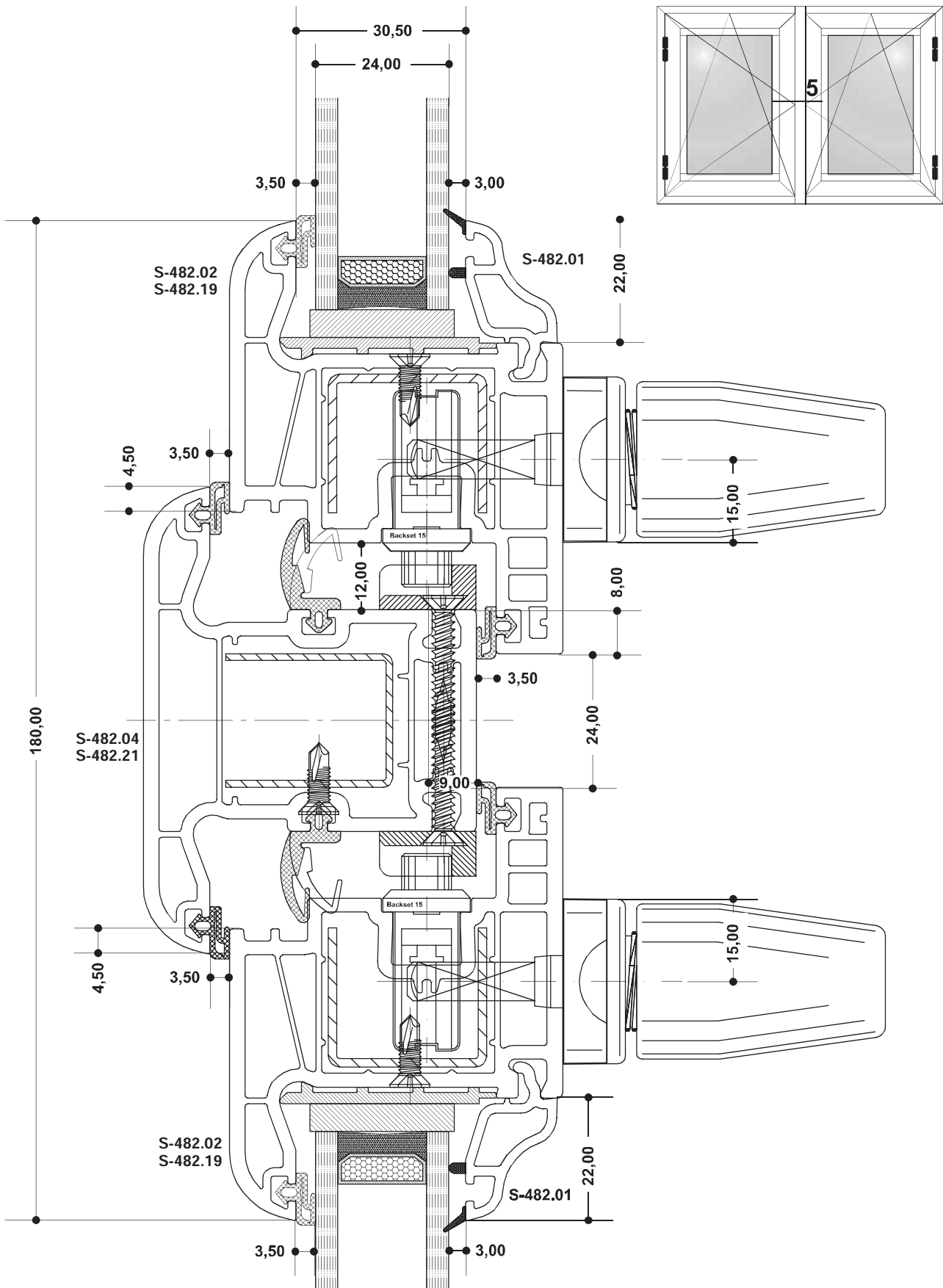


## SECTIONS



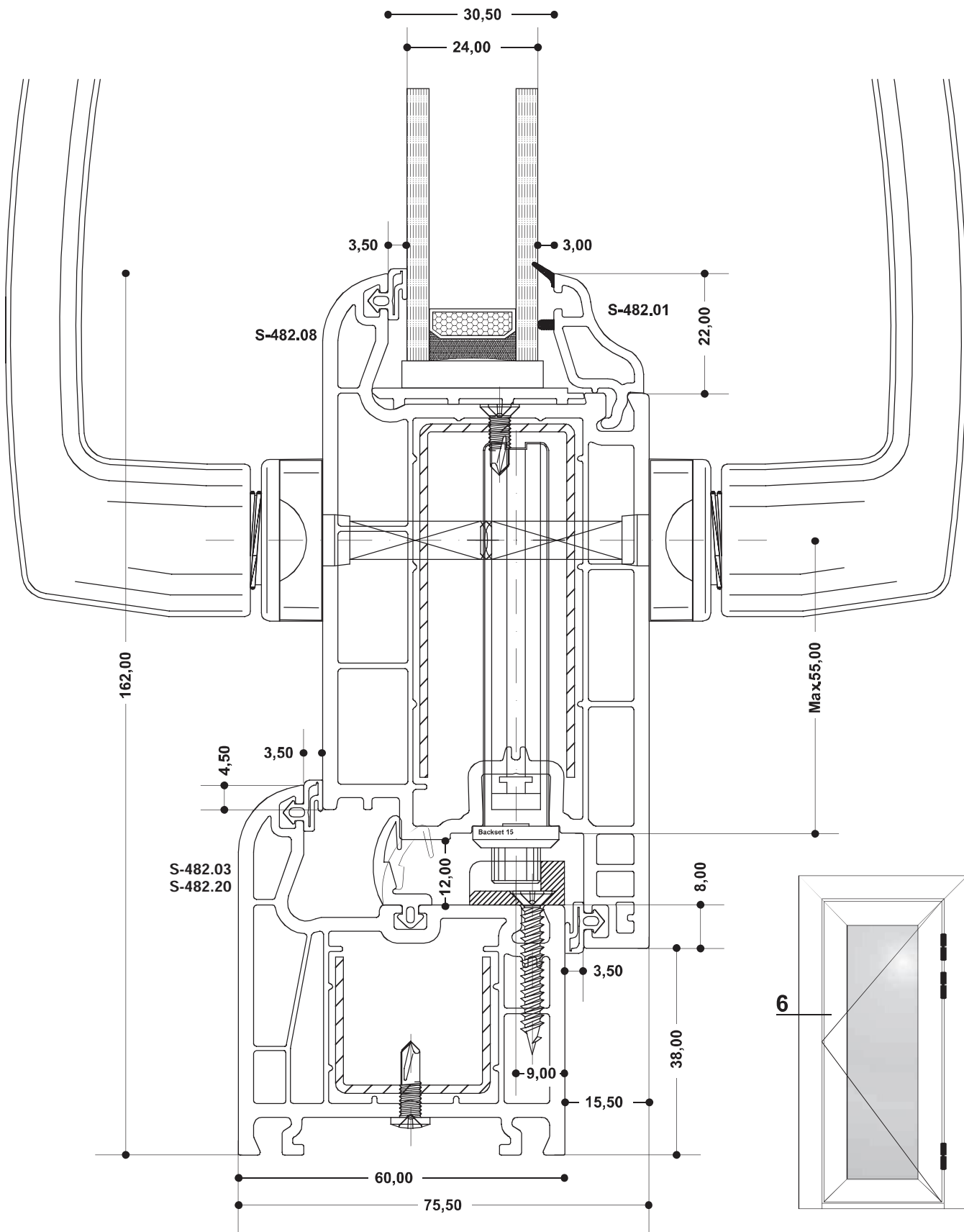


## SECTIONS



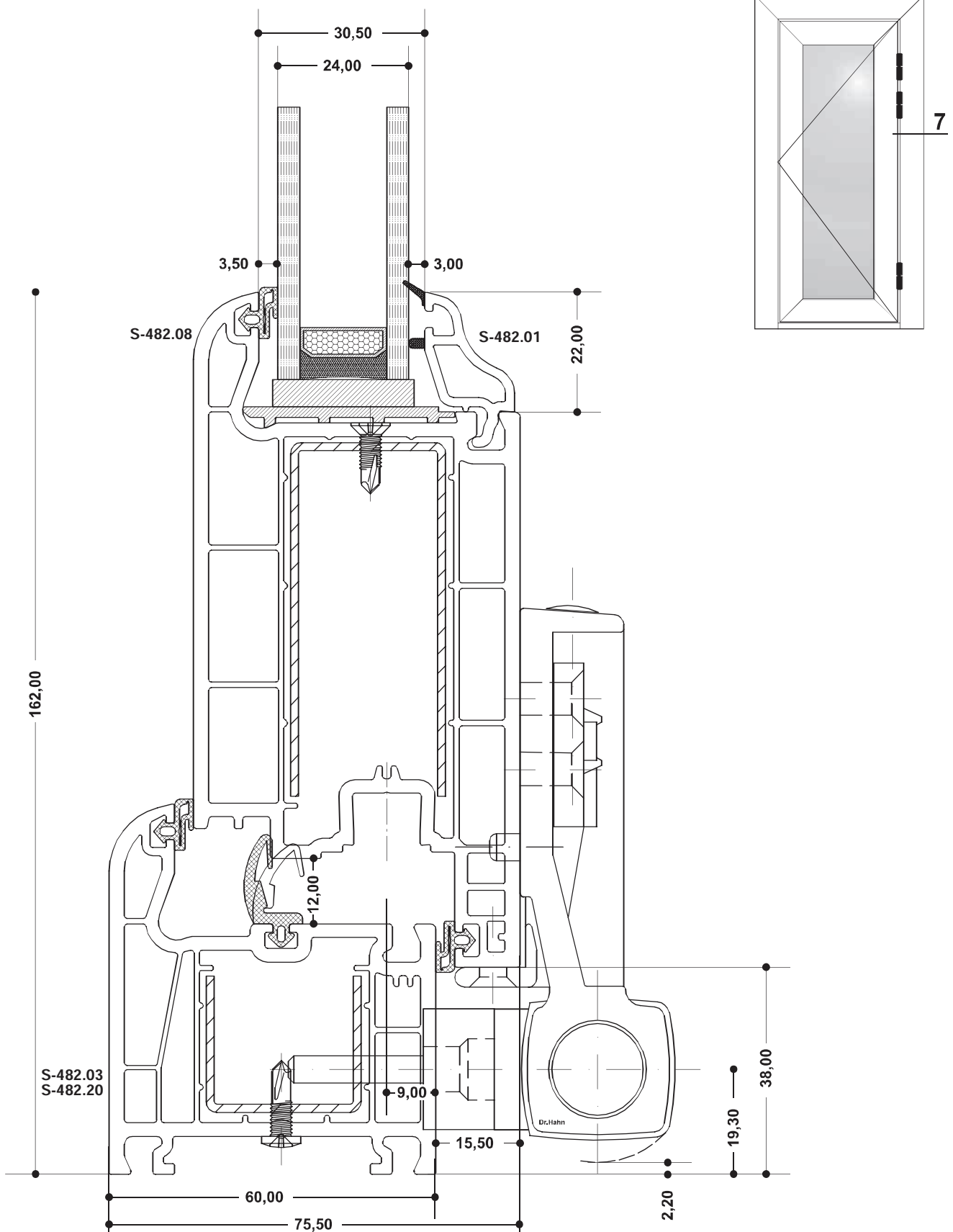


## SECTIONS



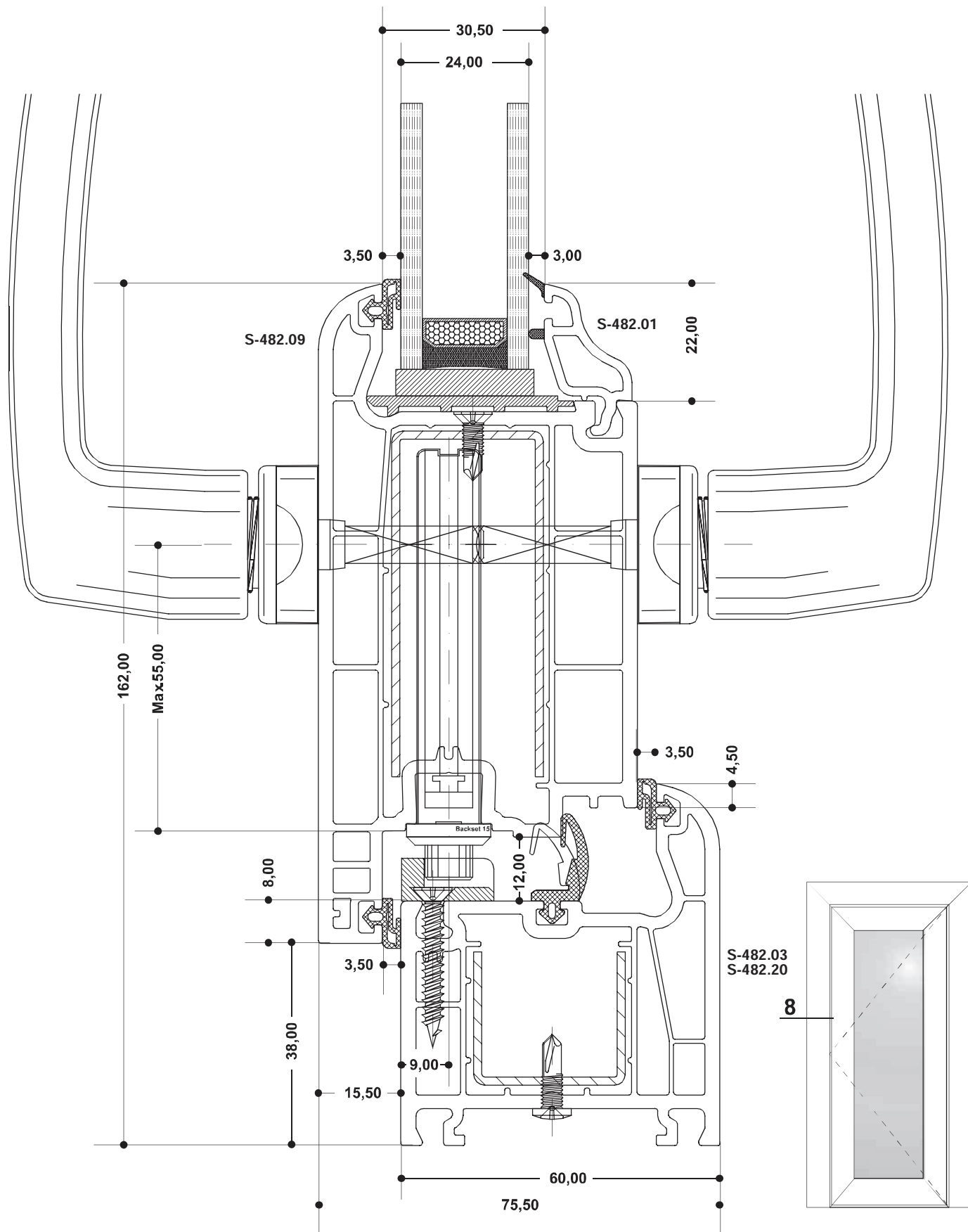


## SECTIONS



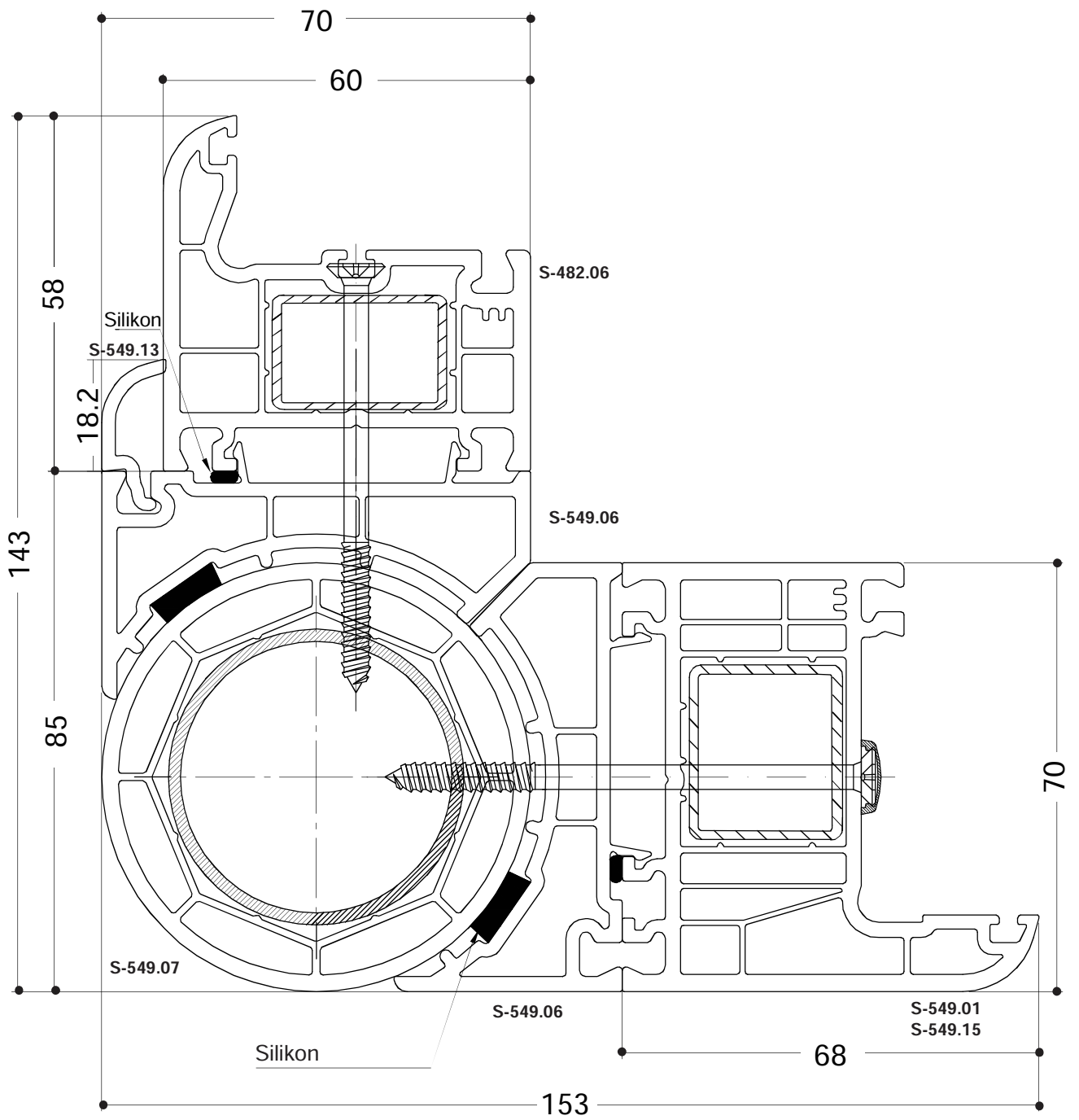


## SECTIONS



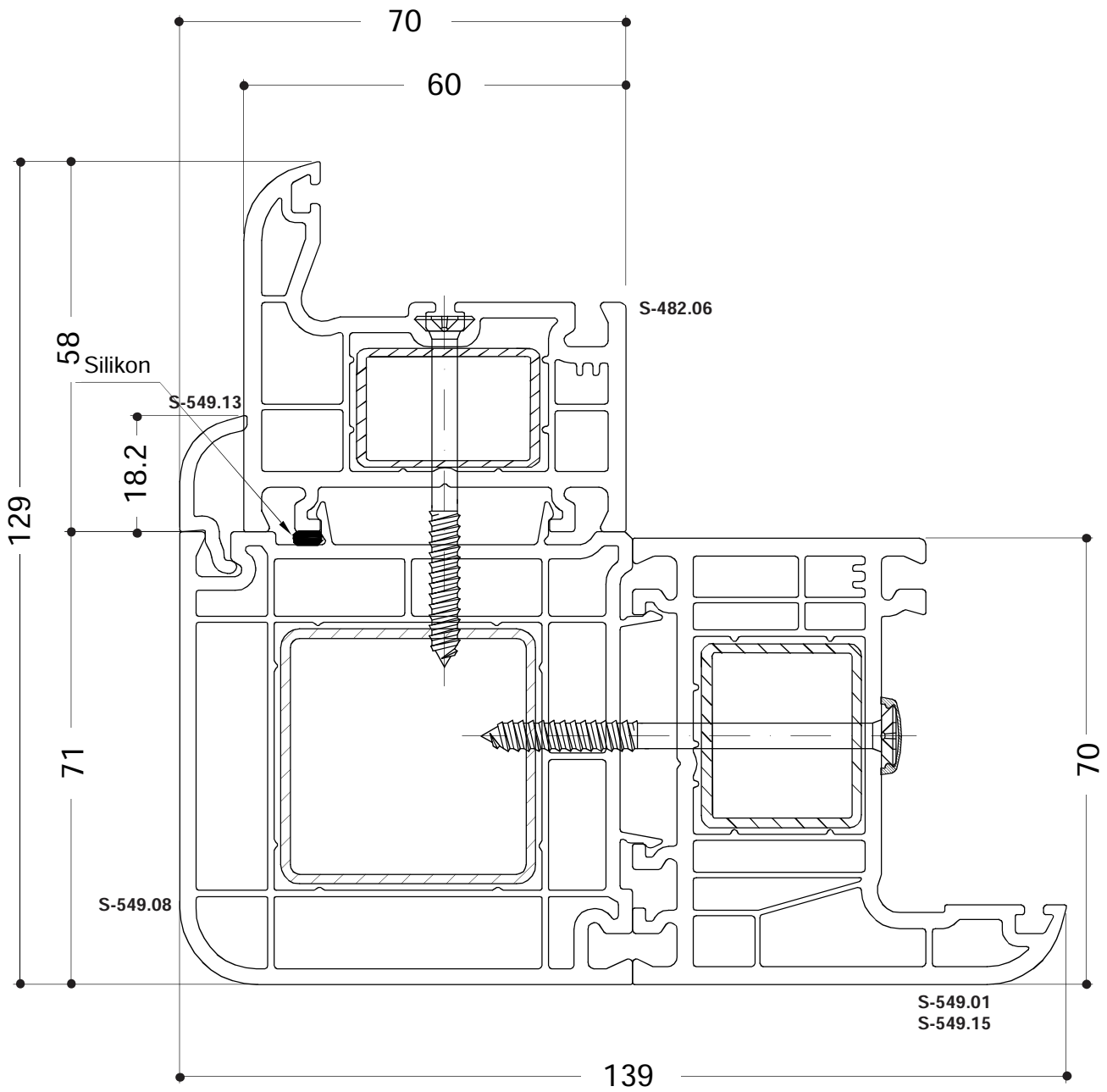


## SECTIONS



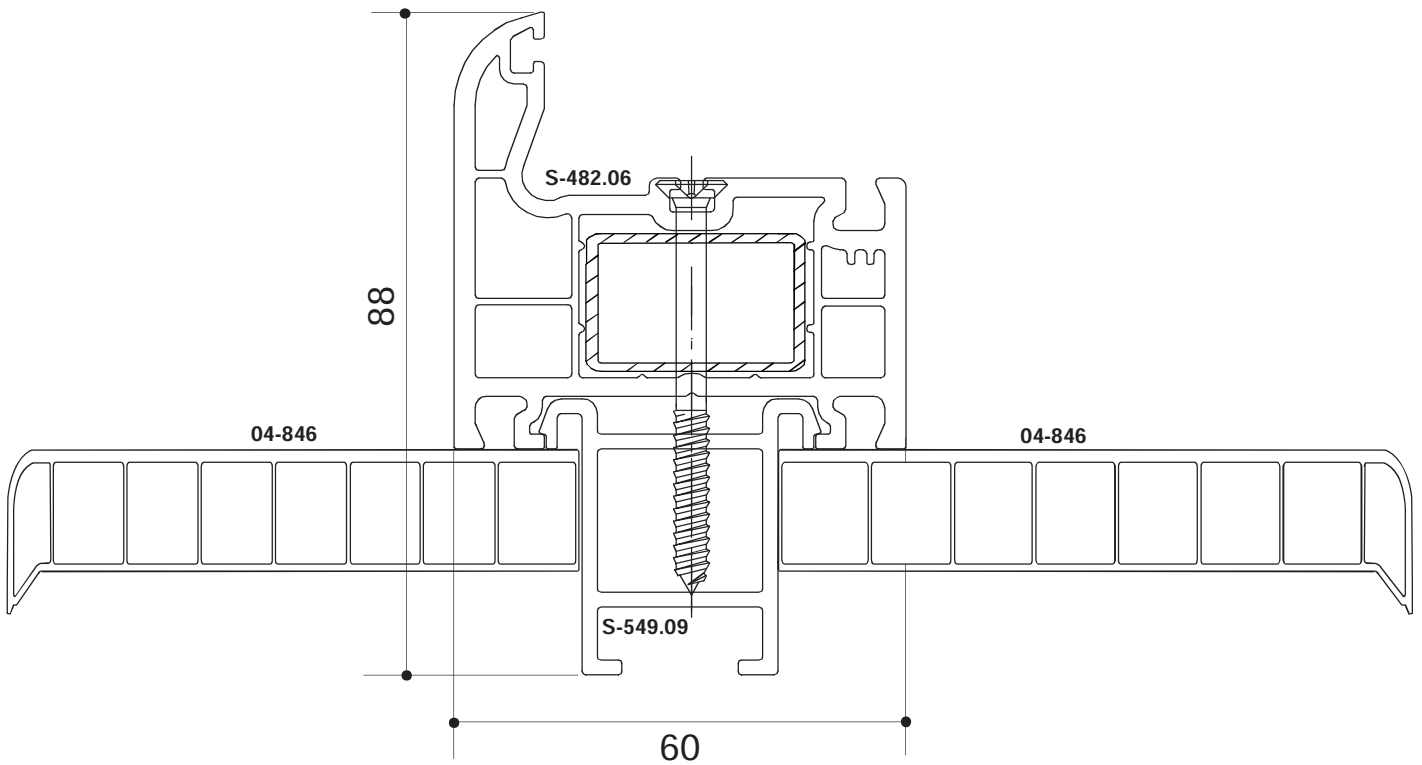
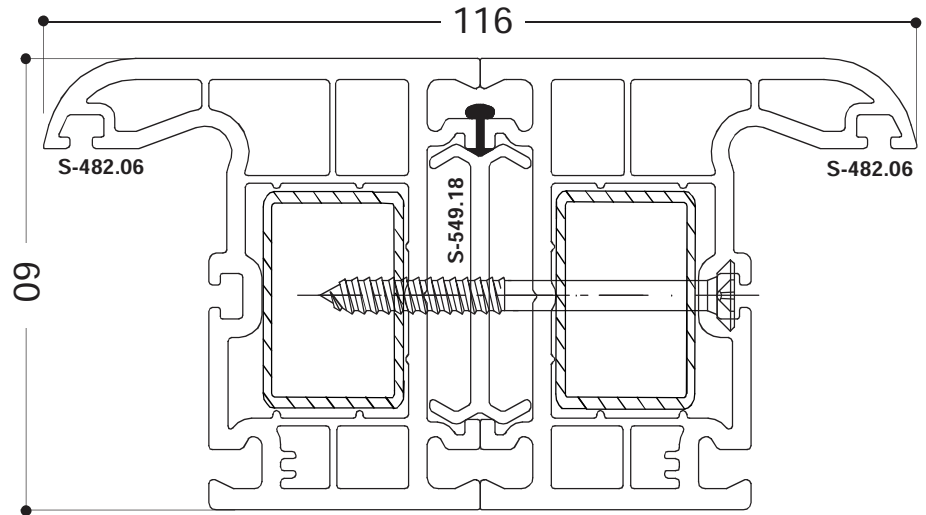


## SECTIONS



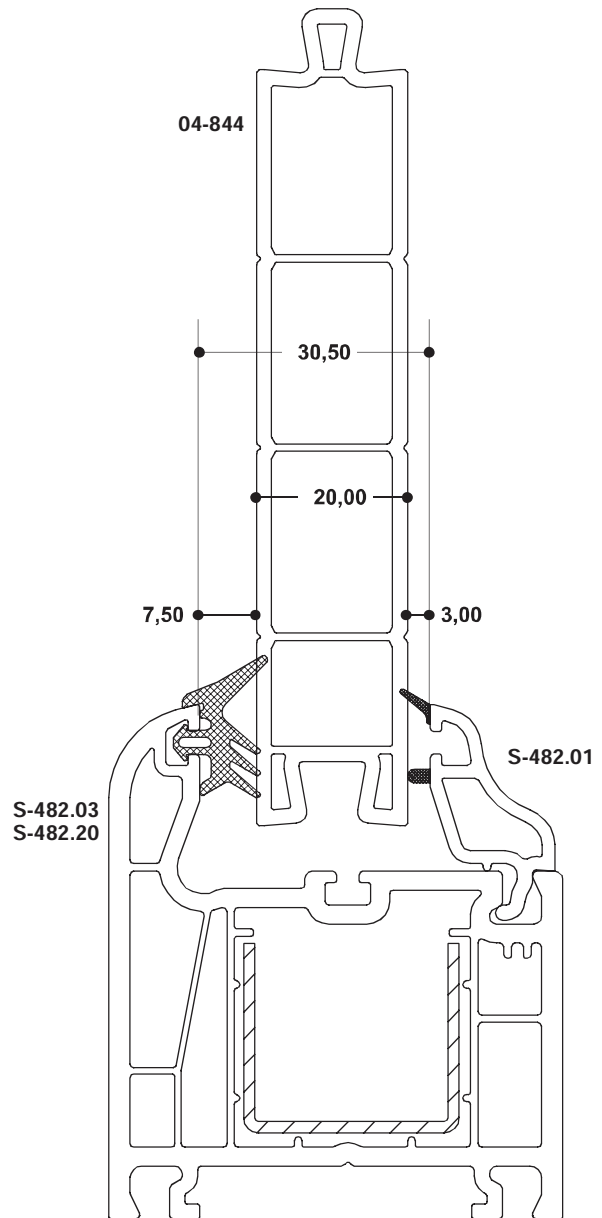
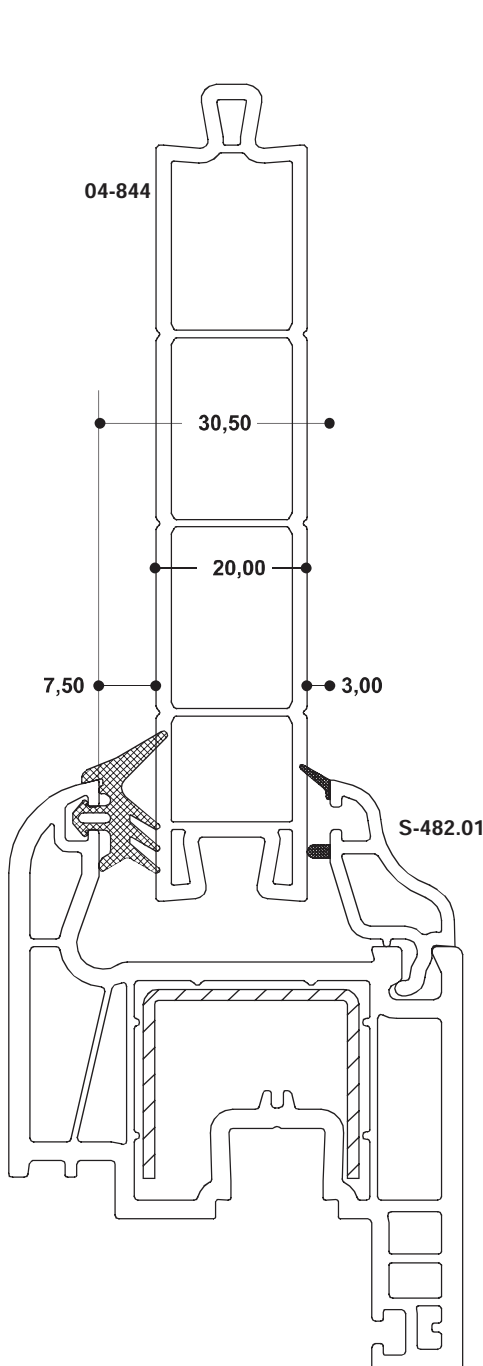
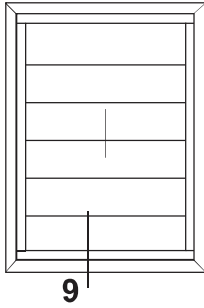


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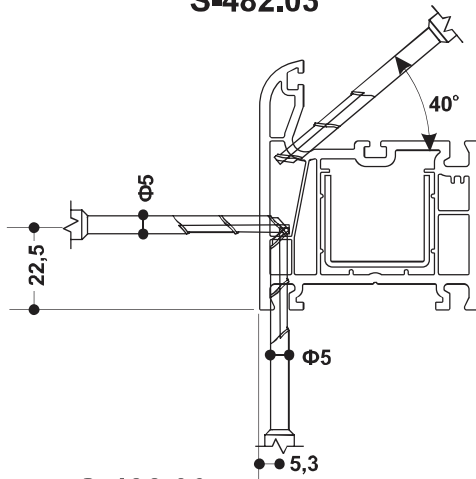


## SECTIONS

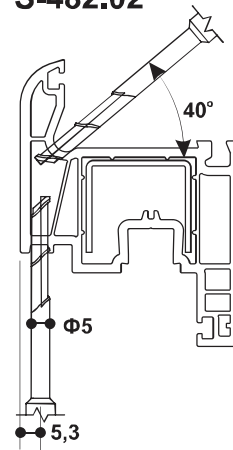




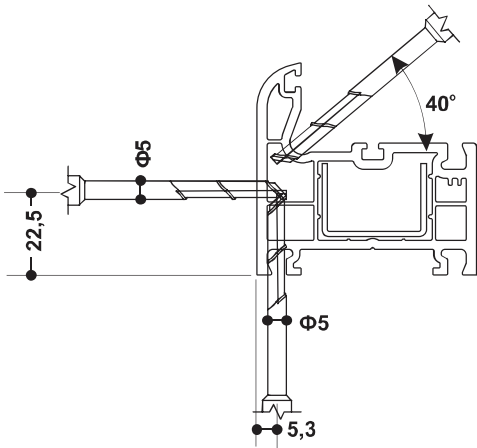
S-482.03



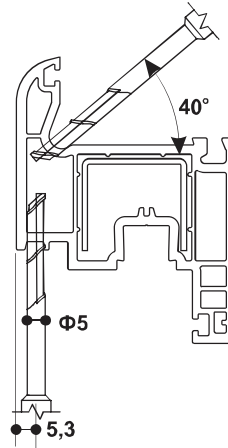
S-482.02



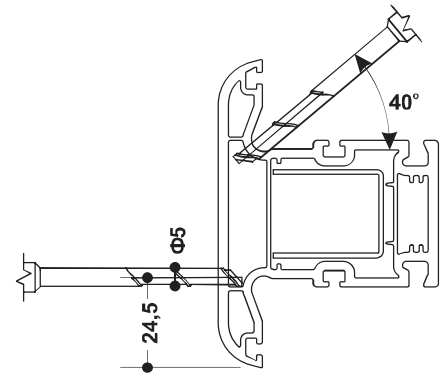
S-482.06



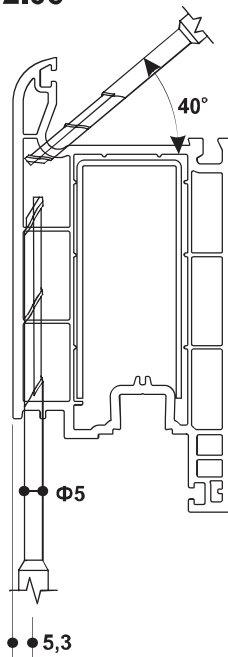
S-482.05



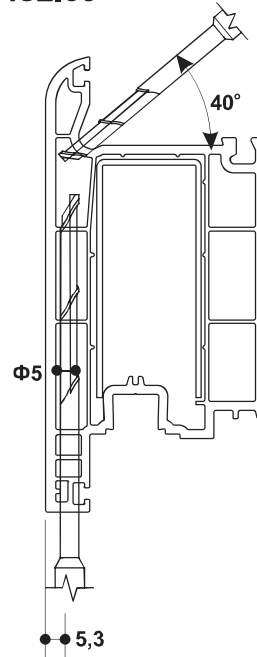
S-482.04

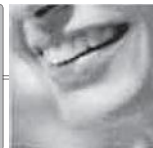


S-482.08

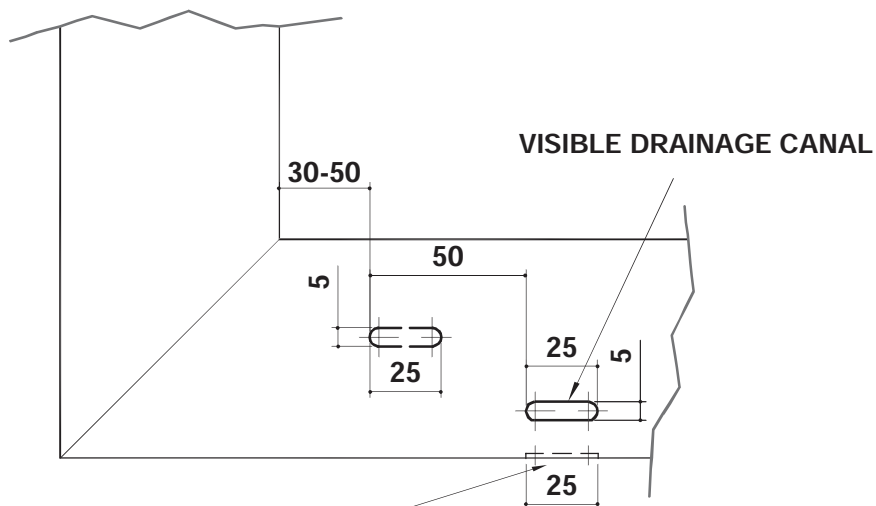
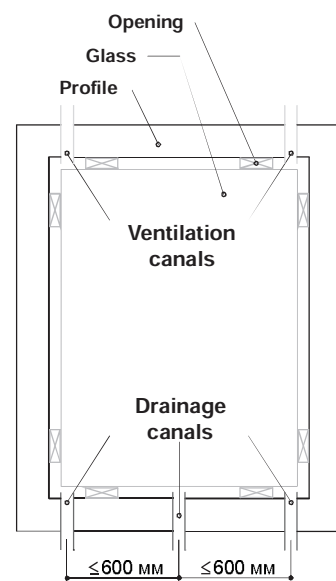
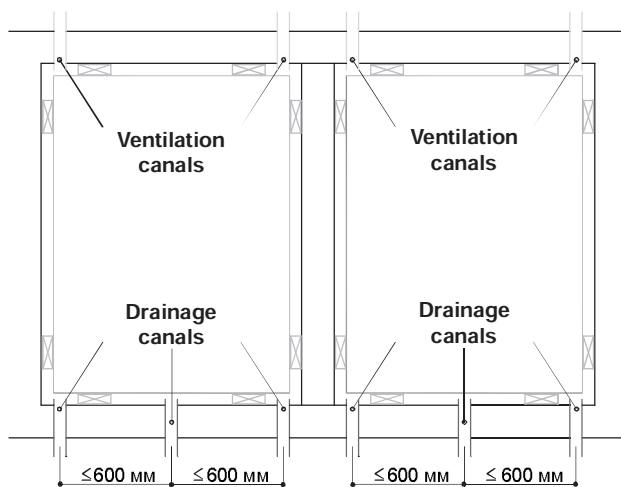
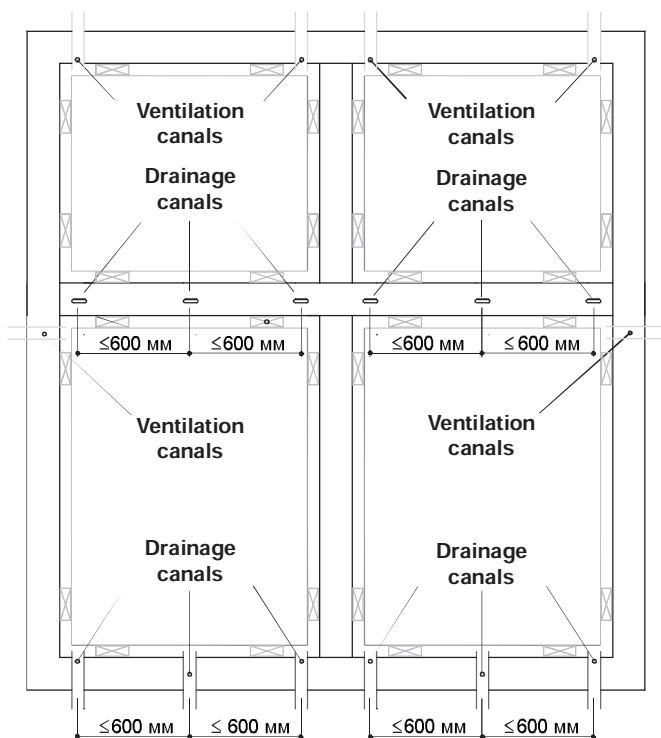


S-482.09





### SCHEME DRILLING OF VENTILATION AND DRAINAGE CANALS



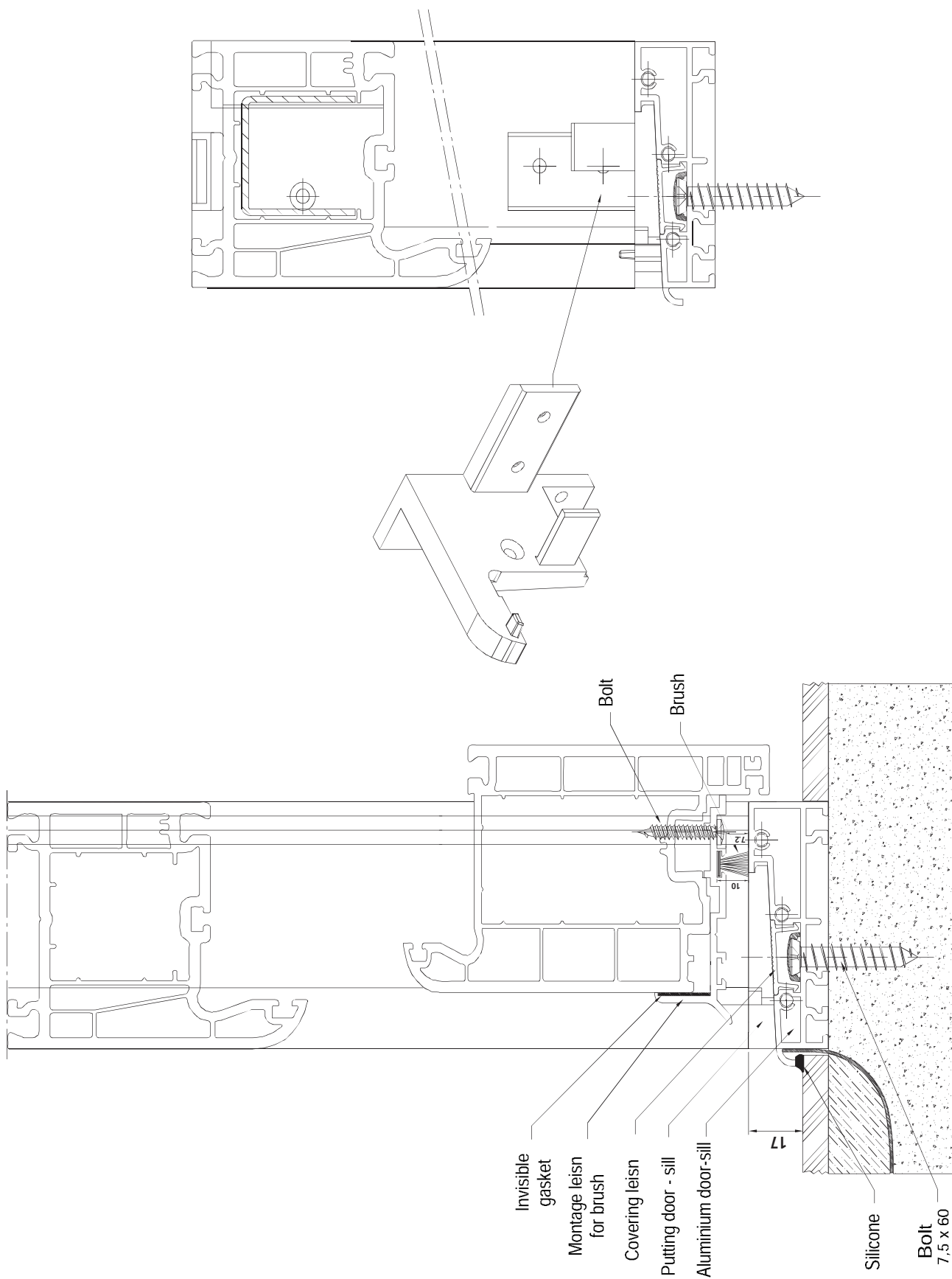
**INVISIBLE DRAINAGE CANAL**



	TRE 01		
	TRE 02		
	TRE 03		
	TRE 04		
	TRE 05		
	TRE 06		
	TRE 07		
	TRE 08		
	TRE 09		
	TRE 10		
	TRE 11		
	TRE 12		



### SERIES PRELUDE





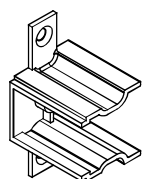
Central gasket **NO-01**



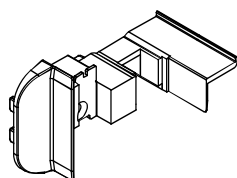
Universal gasket for glass,  
**PAR-02**



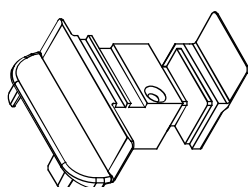
Universal gasket for glass,  
**ALT-04**



Putting for T of profile **S-482.04**



Cap for profile **S-482.07**



Cap for profile **S-482.10**



Cap for profile **04-846**  
(window sill)

# KMG

## PVC windows & doors systems



# SERIES PRESTIGE



## Isolation property of profiles for series PRESTIGE

### 1. Section 1

#### 1.1 Section 1\_Psi България

Материал PVC(2), Steel (3), Silicon foam, PU foam (10), PVC soft (11), EPDM(12), halfsulphid (13), glass ( 14), gas (15), butill (16), TPS (18).

$T_{cold} = -15^{\circ}\text{C}$ ;  $T_{warm} = 20^{\circ}\text{C}$

$Alp_{cold} = 25 \text{ W/m}^2\text{K}$ ;  $Alp_{warm} = 7,69 \text{ W/m}^2\text{K}$

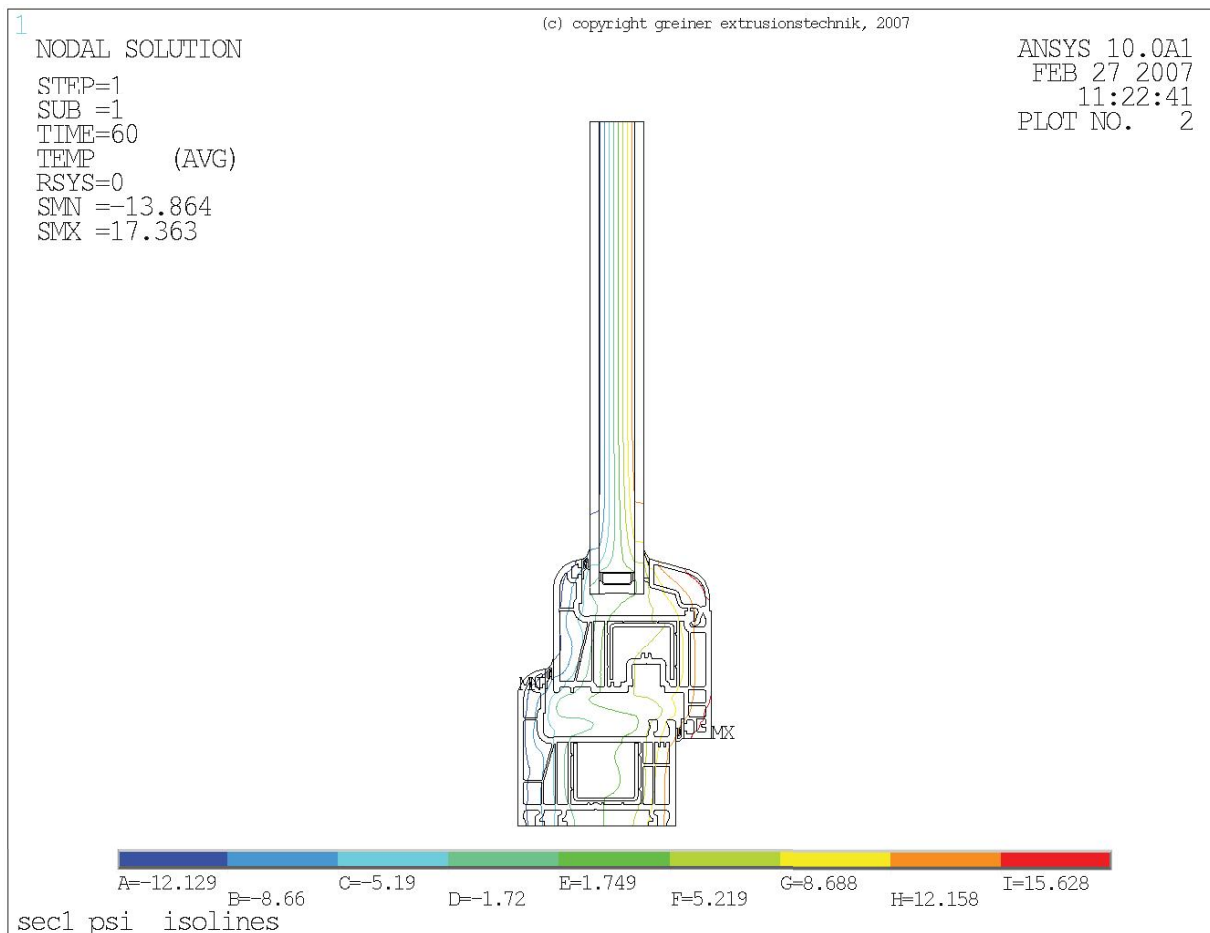
$L = 0,306 \text{ m}$ ;  $L_{vis} = 0,190 \text{ m}$ ;  $l_f = 0,116 \text{ m}$

$U_g = 1,1 \text{ W/m}^2\text{K}$

$U_{global} = 1,38 \text{ W/m}^2\text{K}$

$\Psi = 0,0583 \text{ W/mK}$

$T_{min_i} = 7,6^{\circ}\text{C}$



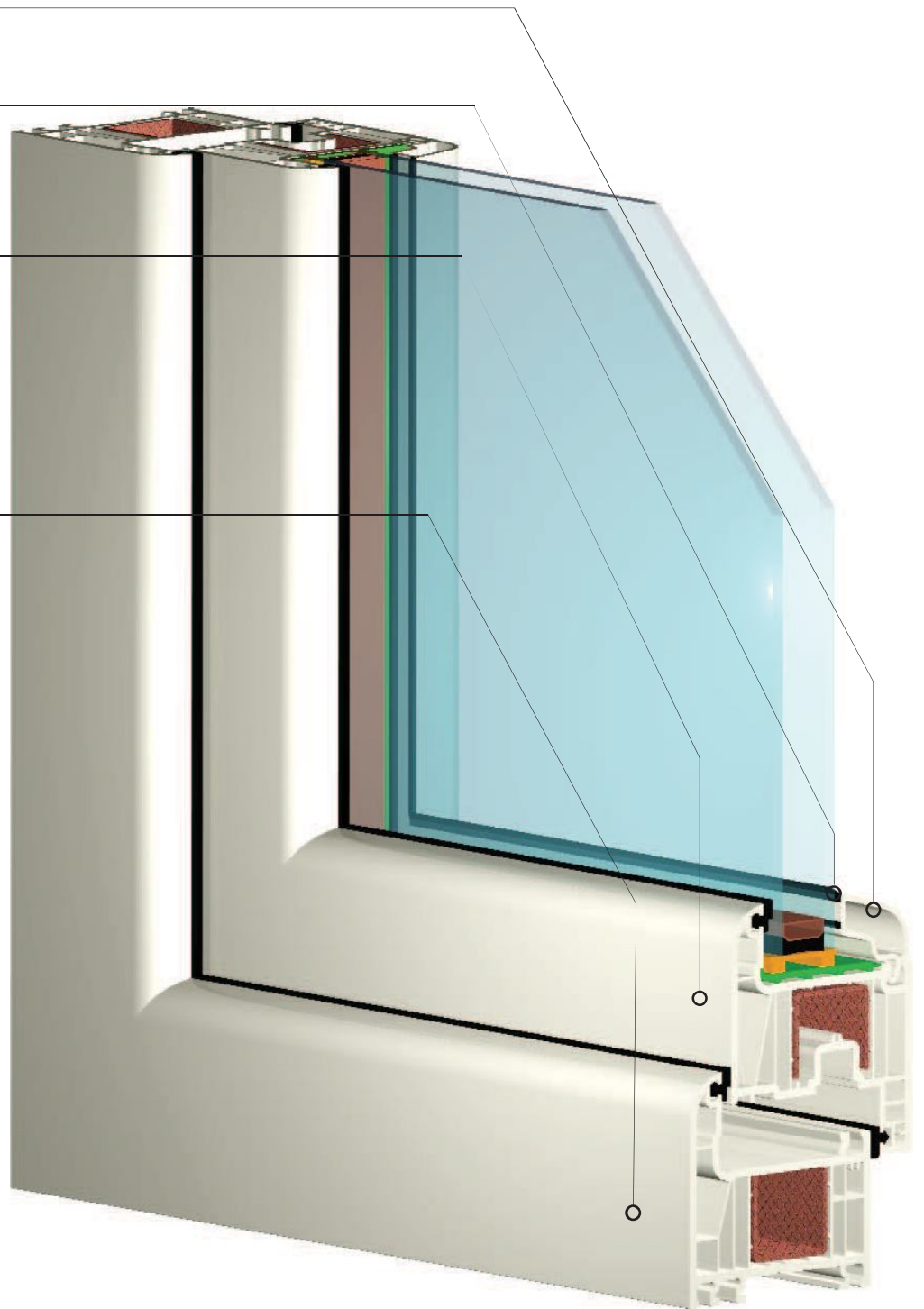


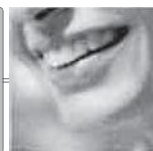
S-549.10 GLASS HOLDER

GLASS SEALANTS

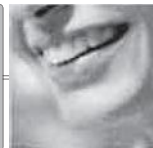
S-549.02 SASH

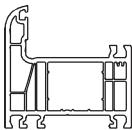
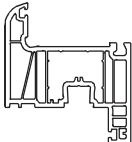
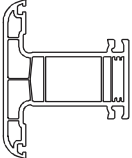
S-549.01 FRAME

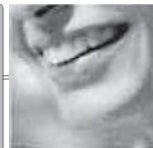






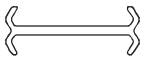
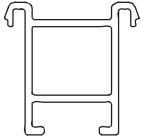
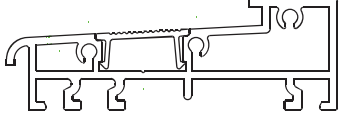


SCHEME	CODE	DIMENSIONS X/Y (MM)
	S-549.01	70,0/68,0
	S-549.02	70,0/78,0
	S-549.05	70,0/113,0
	S-549.03	70,0/88,0
	S-549.04	73,5/68,0
	S-549.07	70,0/70,0
	S-549.06	70,0/37,3
	S-549.08	71,0/71,0



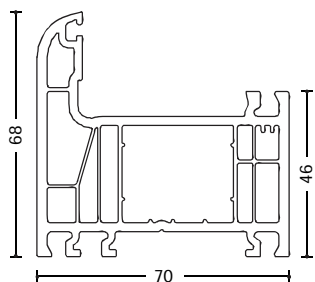
SCHEME	CODE	DIMENSIONS X/Y (MM)
	S-549.15	70,0/68,0
	S-549.16	70,0/78,0
	S-549.17	70,0/88,0



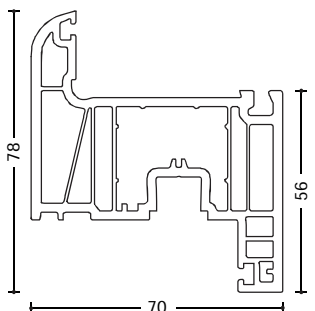
SCHEME	CODE	DIMENSIONS X/Y (MM)
	S-549.10	26,5/22,0
	S-549.13	8,9/24,7
	04-846	200,0/27,0
	04-844	108,0/20,0
	S-549.18	37,2/13,4
	S-549.09	26,0/36,7
	E3309	75,0/25,0



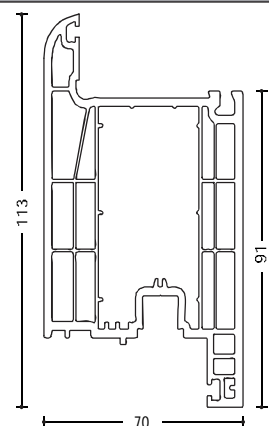
### PRESTIGE



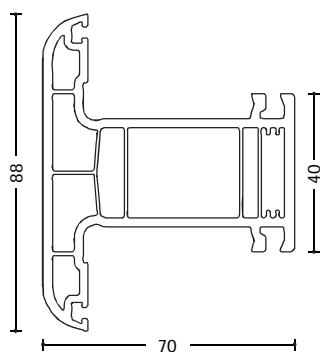
**FRAME**  
CODE | **S-549.01**



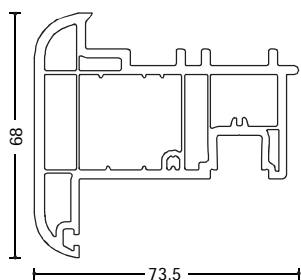
**SASH**  
CODE | **S-549.02**



**DOOR SASH**  
CODE | **S-549.05**

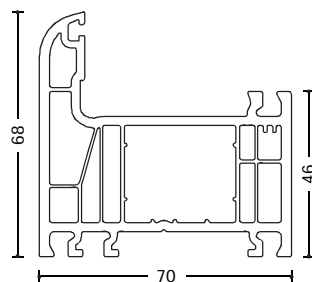


**MULLION**  
CODE | **S-549.03**

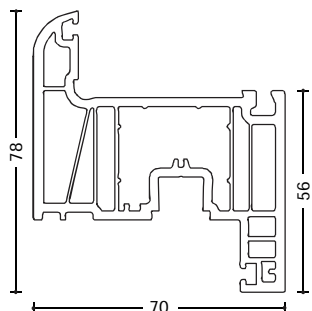


**OVERHUNG**  
CODE | **S-549.04**

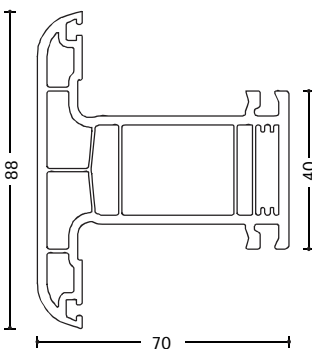
### PRESTIGE Eco



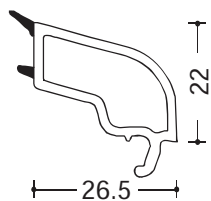
**FRAME**  
CODE | **S-549.15**



**SASH**  
CODE | **S-549.16**

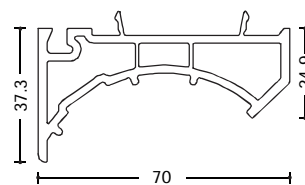


**MULLION**  
CODE | **S-549.17**



### GLASS HOLDER

CODE | **S-549.10**



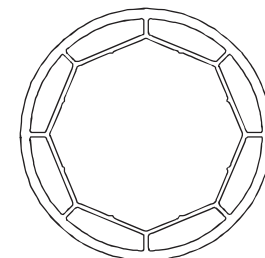
### ADDITION FOR PIPE

CODE | **S-549.06**



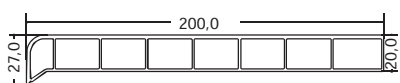
### CLIP

CODE | **S-549.13**



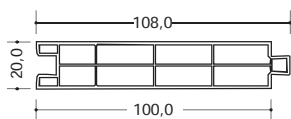
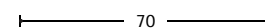
### PIPE

CODE | **S-549.07**



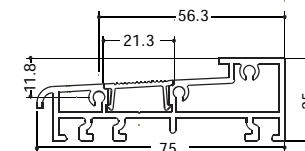
### WINDOW SILL

CODE | **04-846**



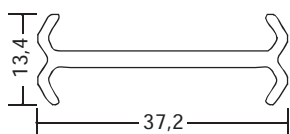
### PANEL

CODE | **04-844**



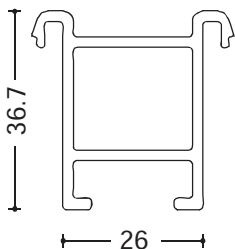
### ALUMINIUM DOOR SILL

CODE | **E3309**



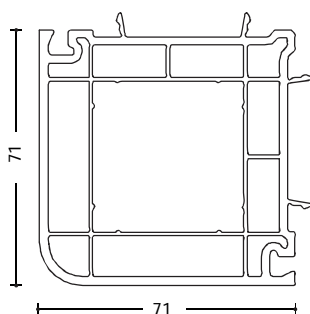
### COUPLING

CODE | **S-549.18**



### WALL CONNECTOR

CODE | **S-549.09**



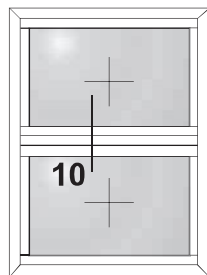
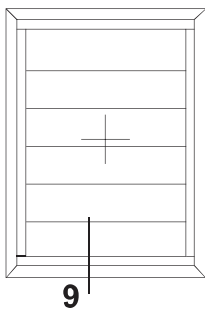
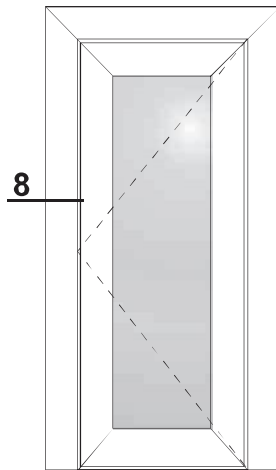
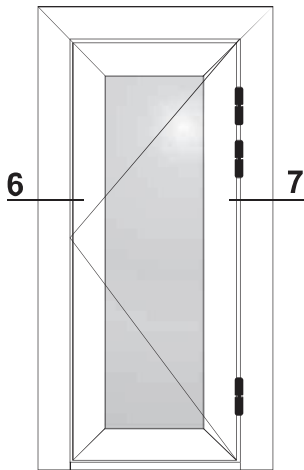
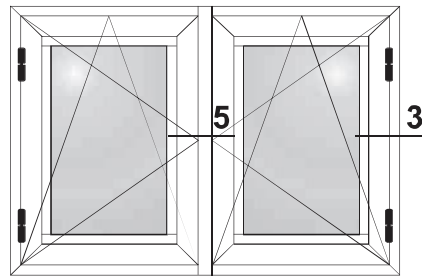
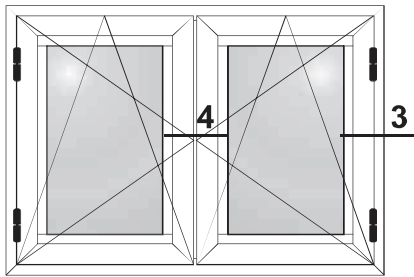
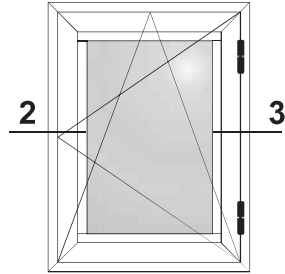
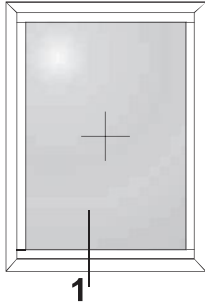
### COLUMN FOR 90 ANGLE

CODE | **S-549.08**



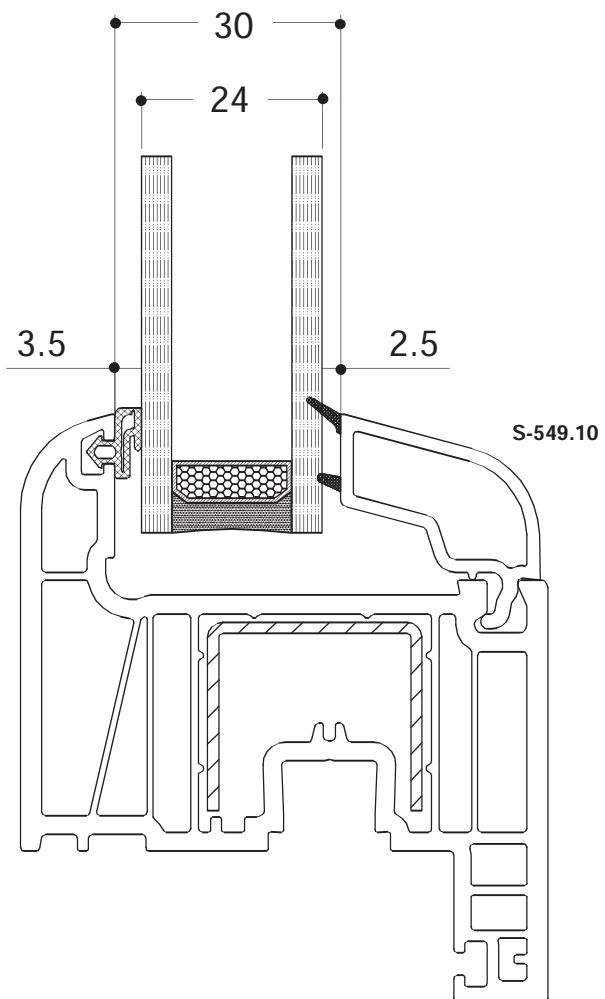
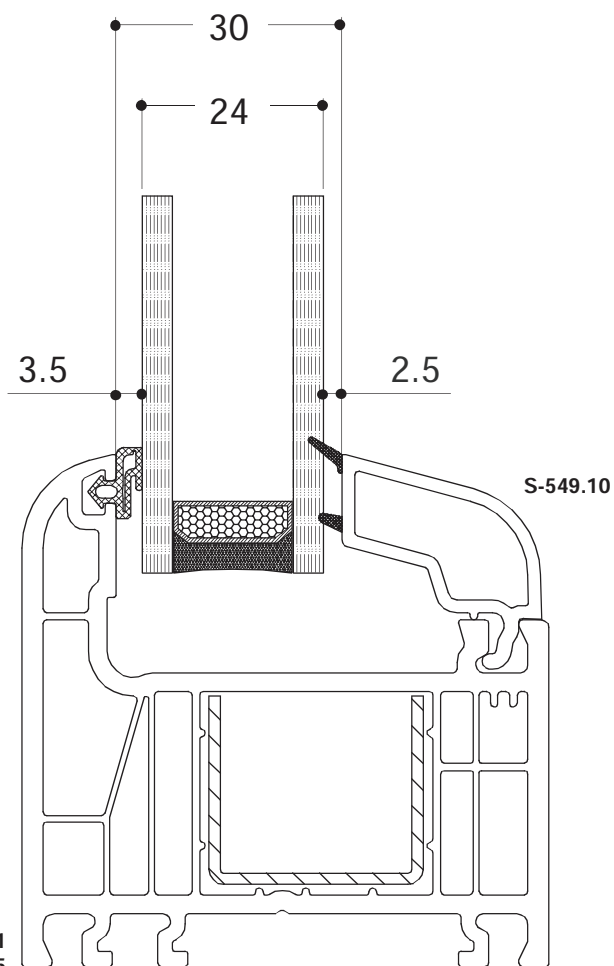
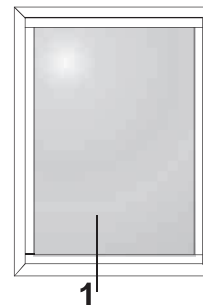


## TYPES OF SECTIONS



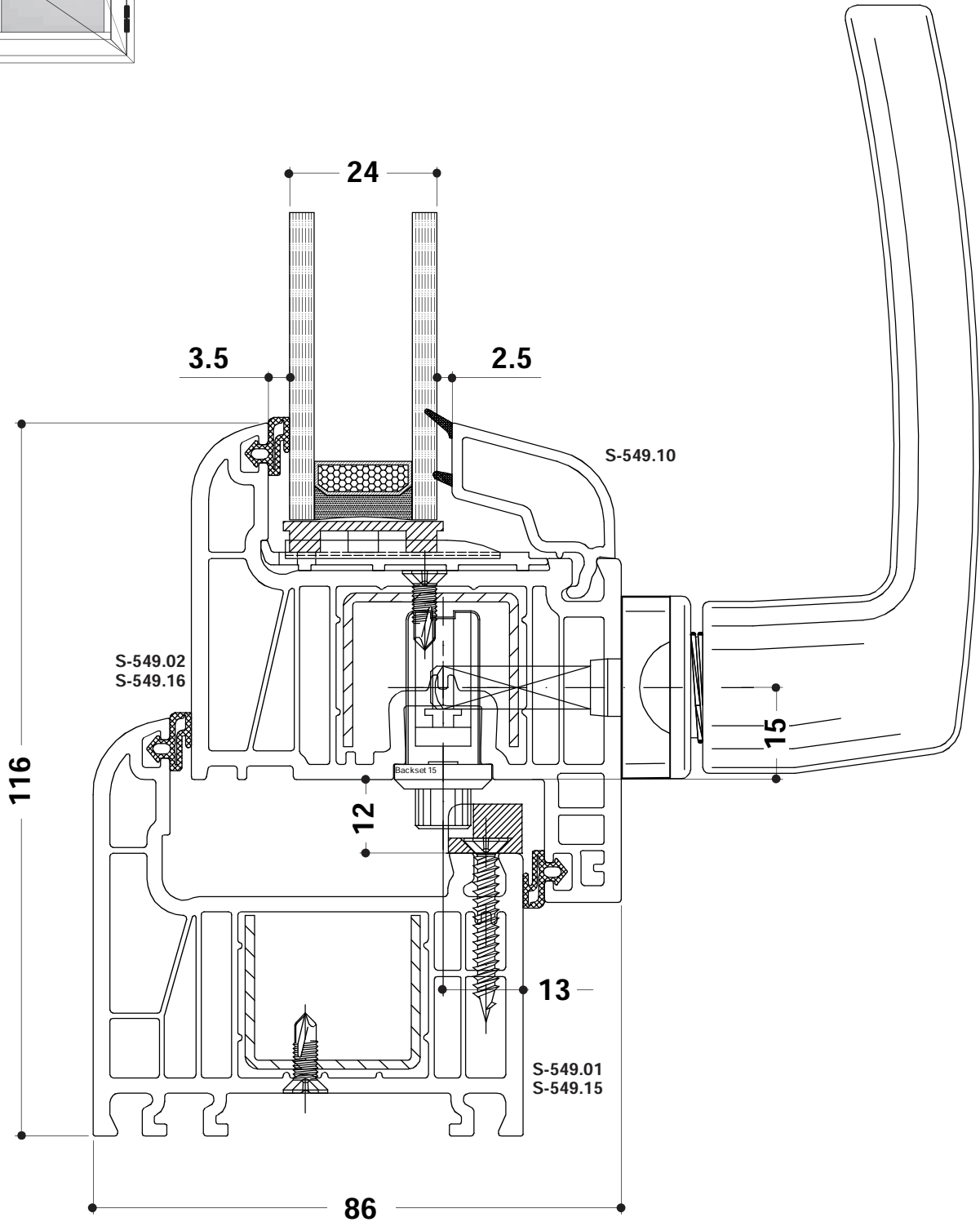
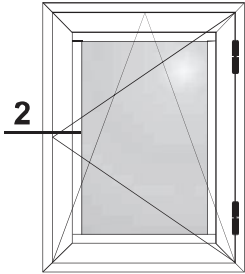


## SECTIONS



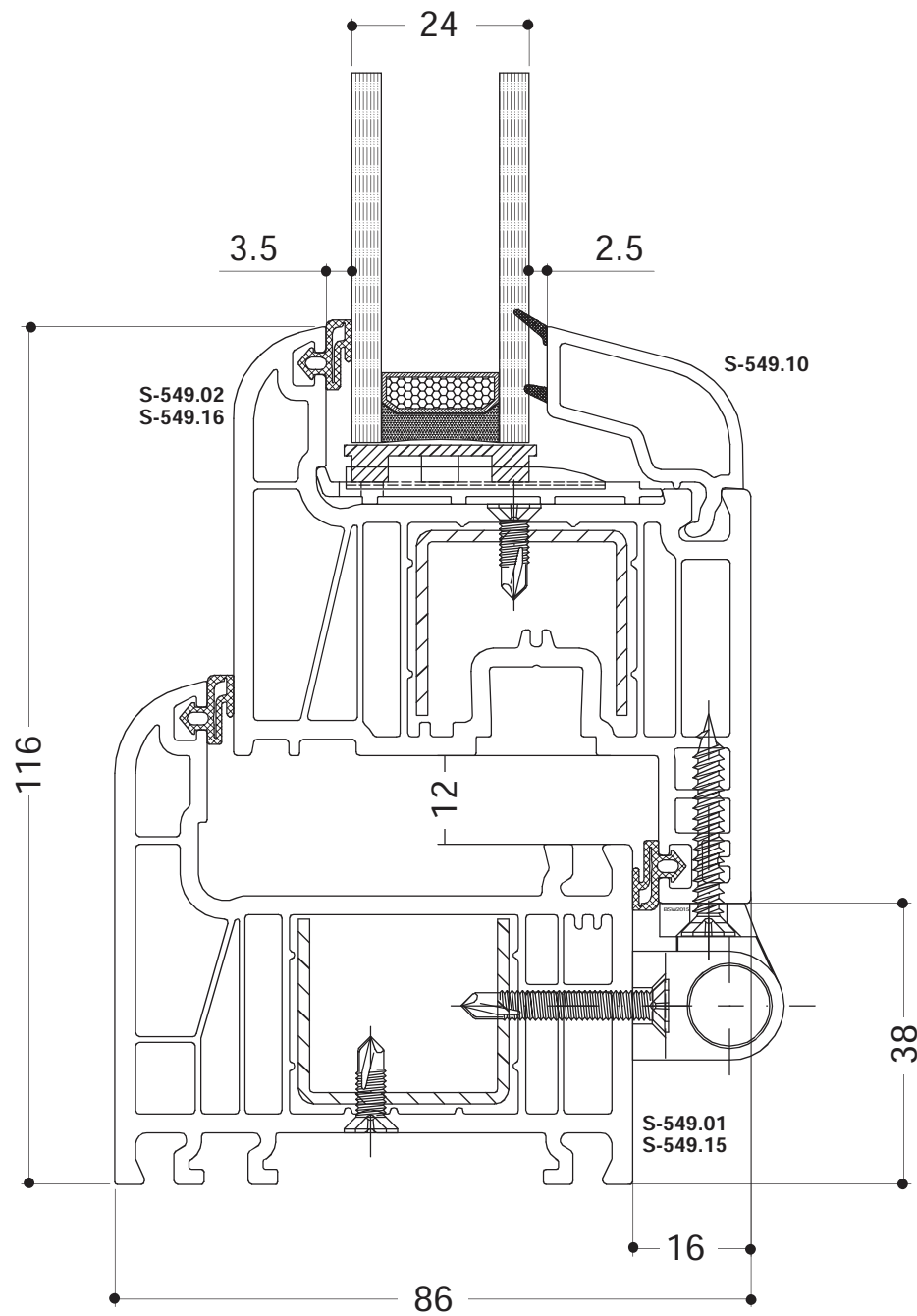
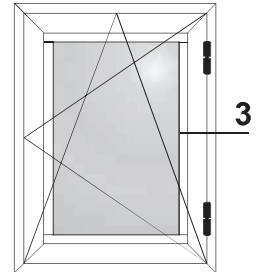


## SECTIONS



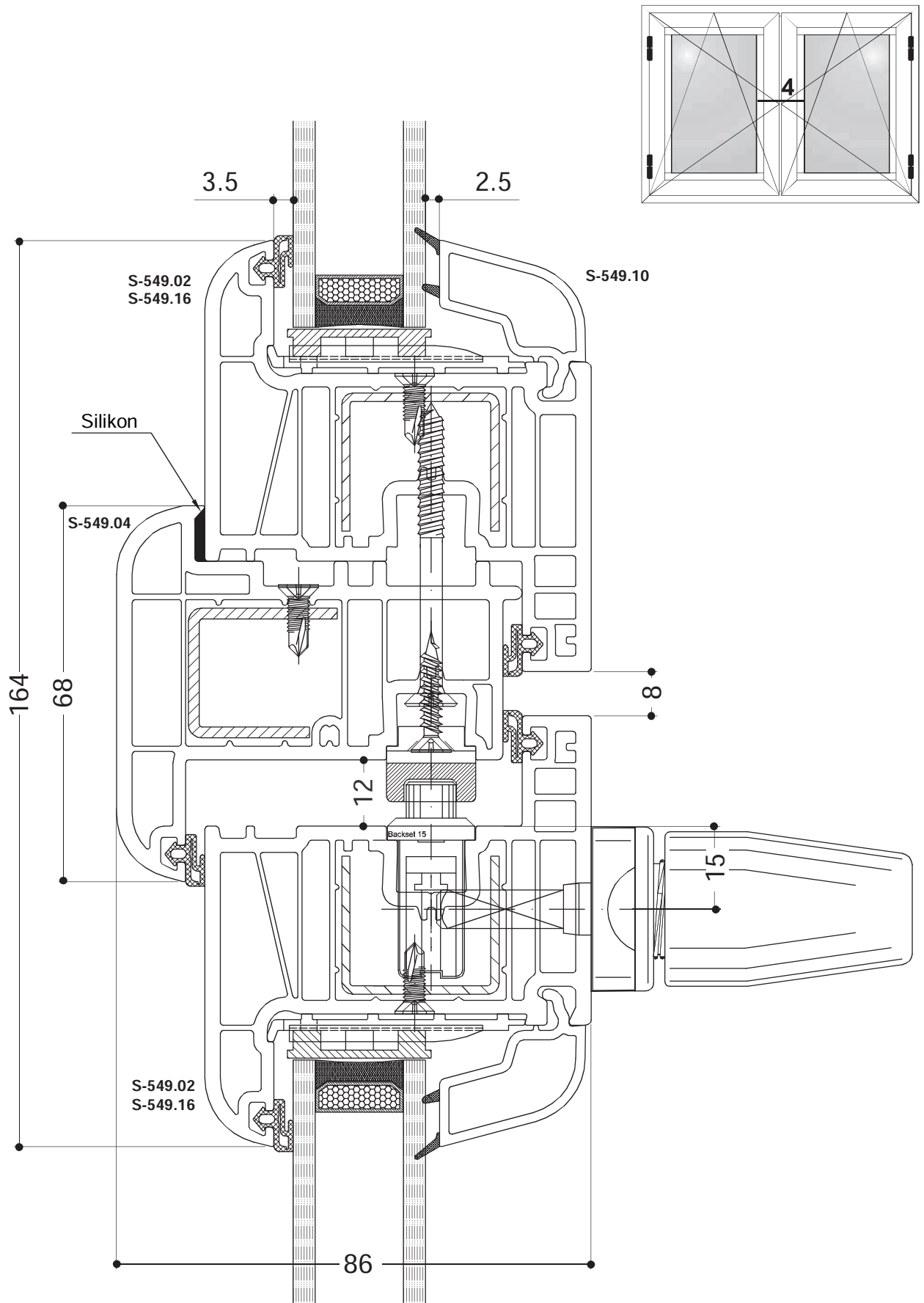


## SECTIONS



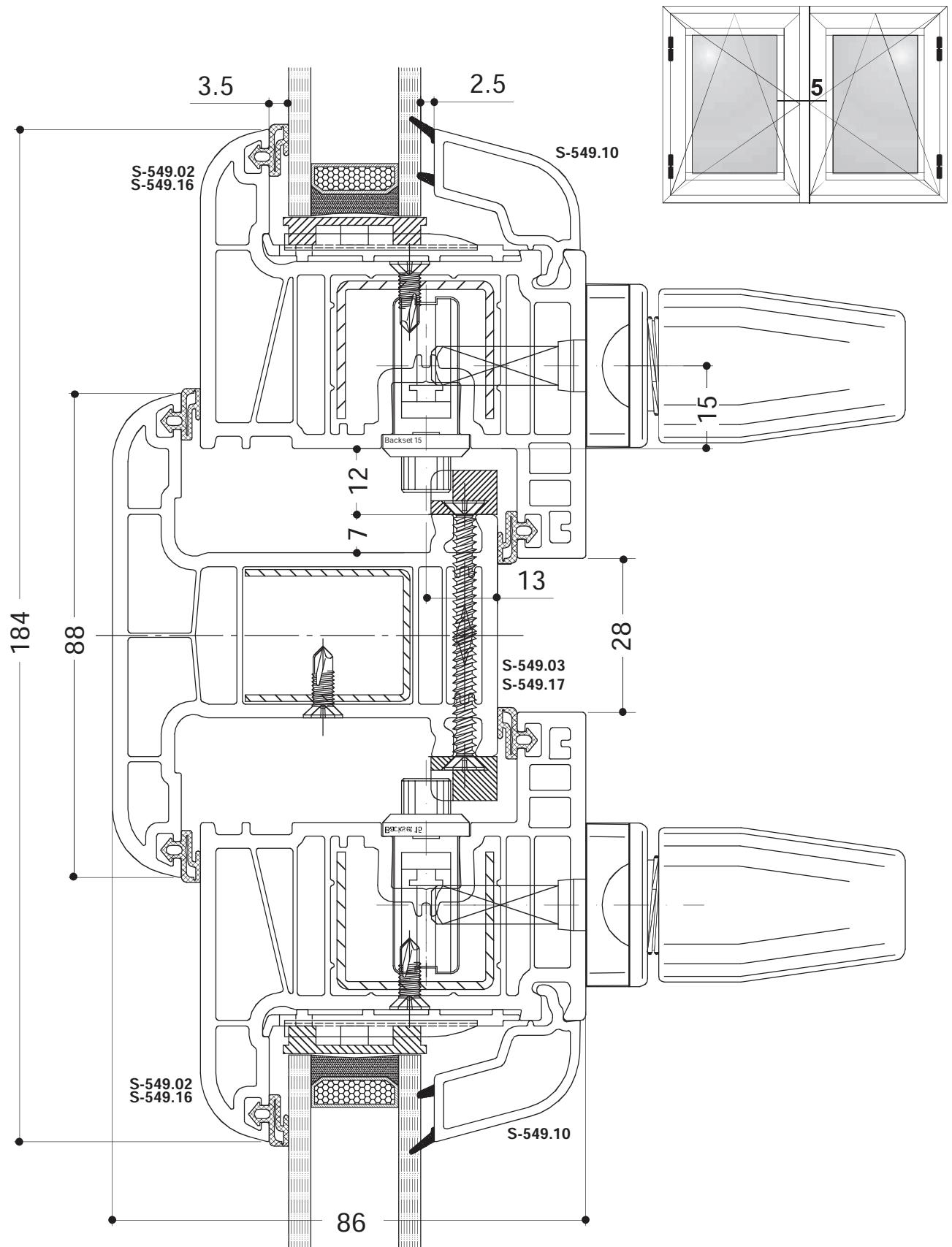


## SECTIONS



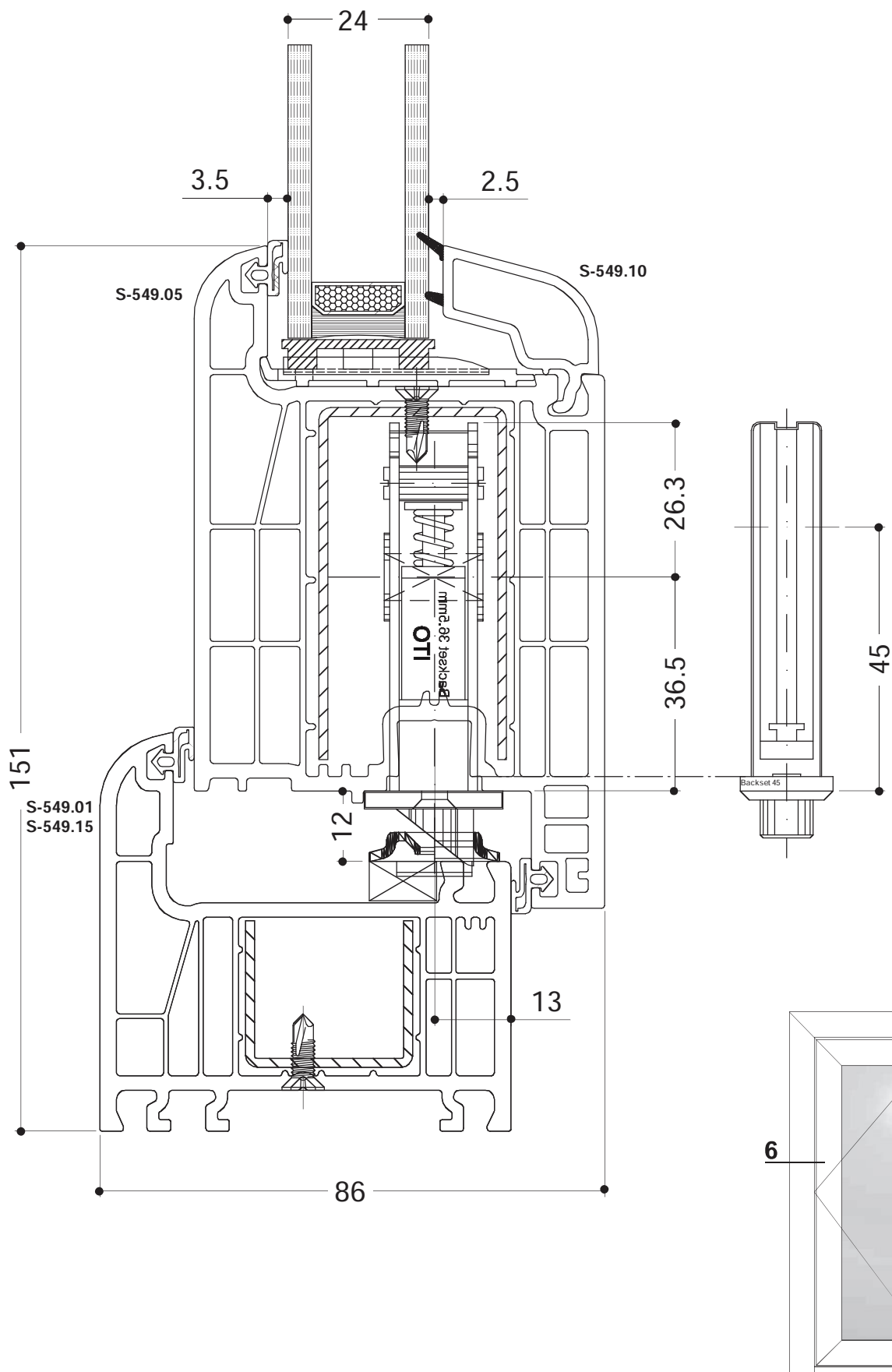


## SECTIONS



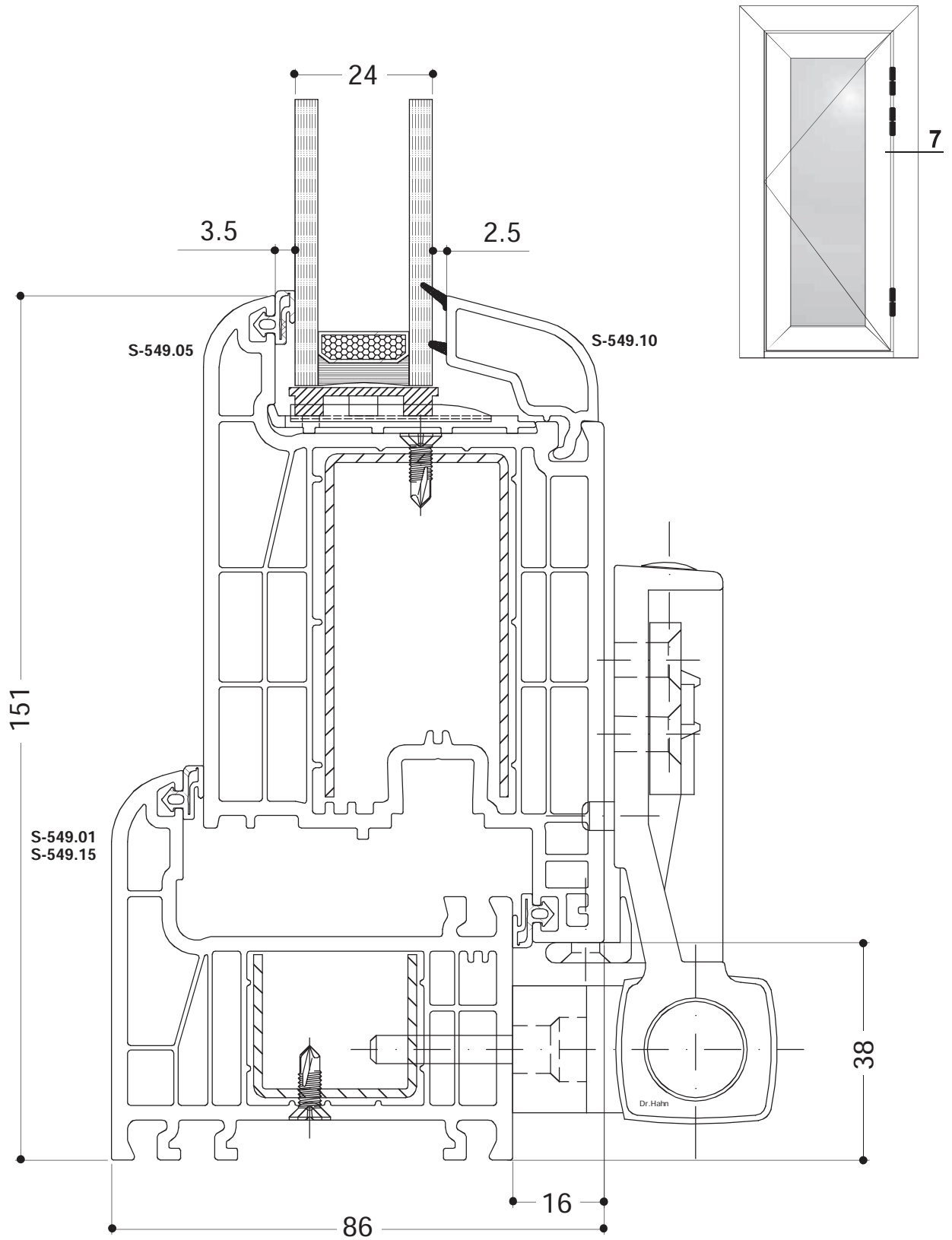


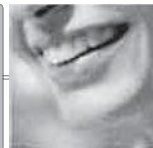
## SECTIONS



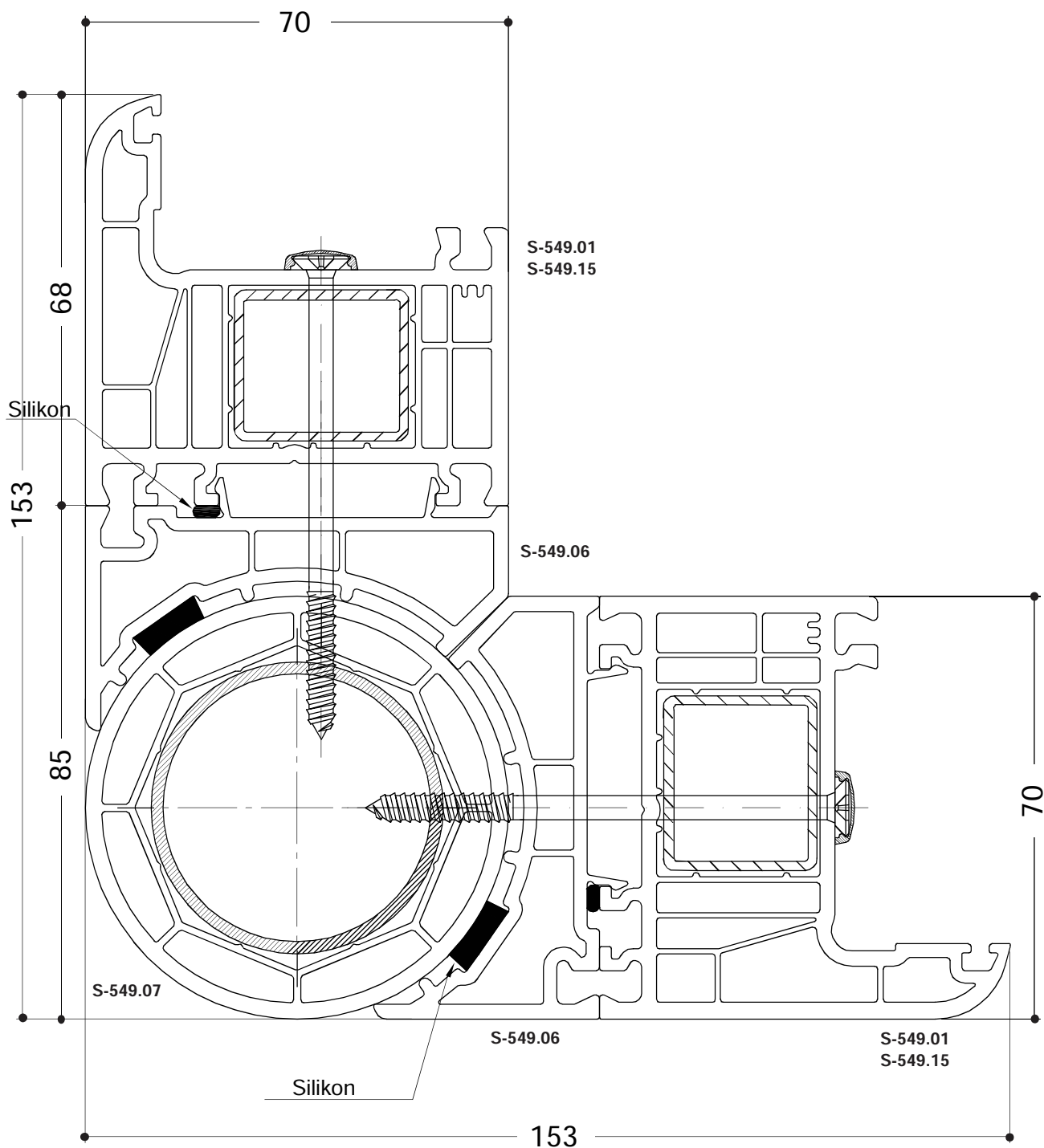


## SECTIONS



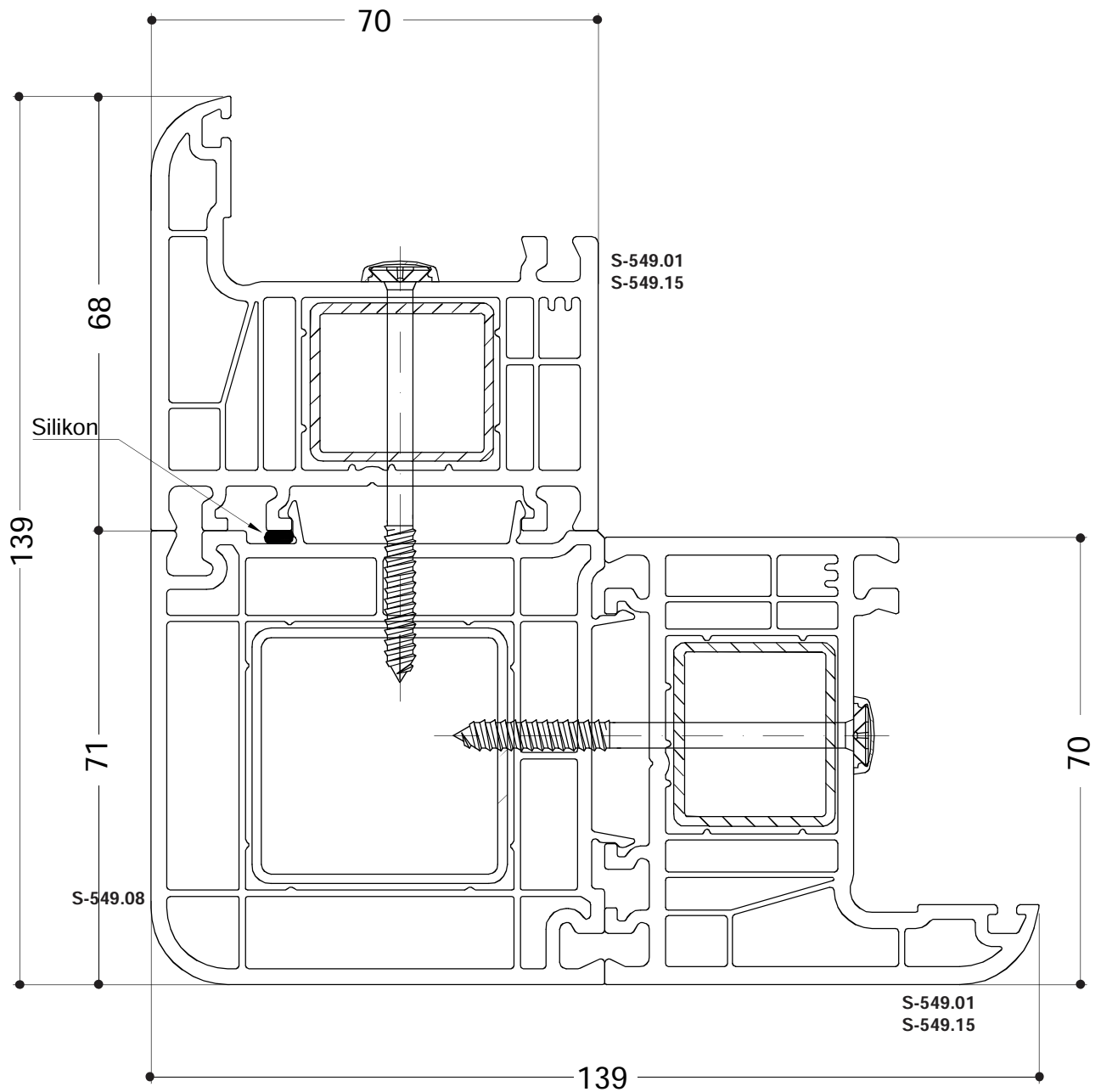


## SECTIONS



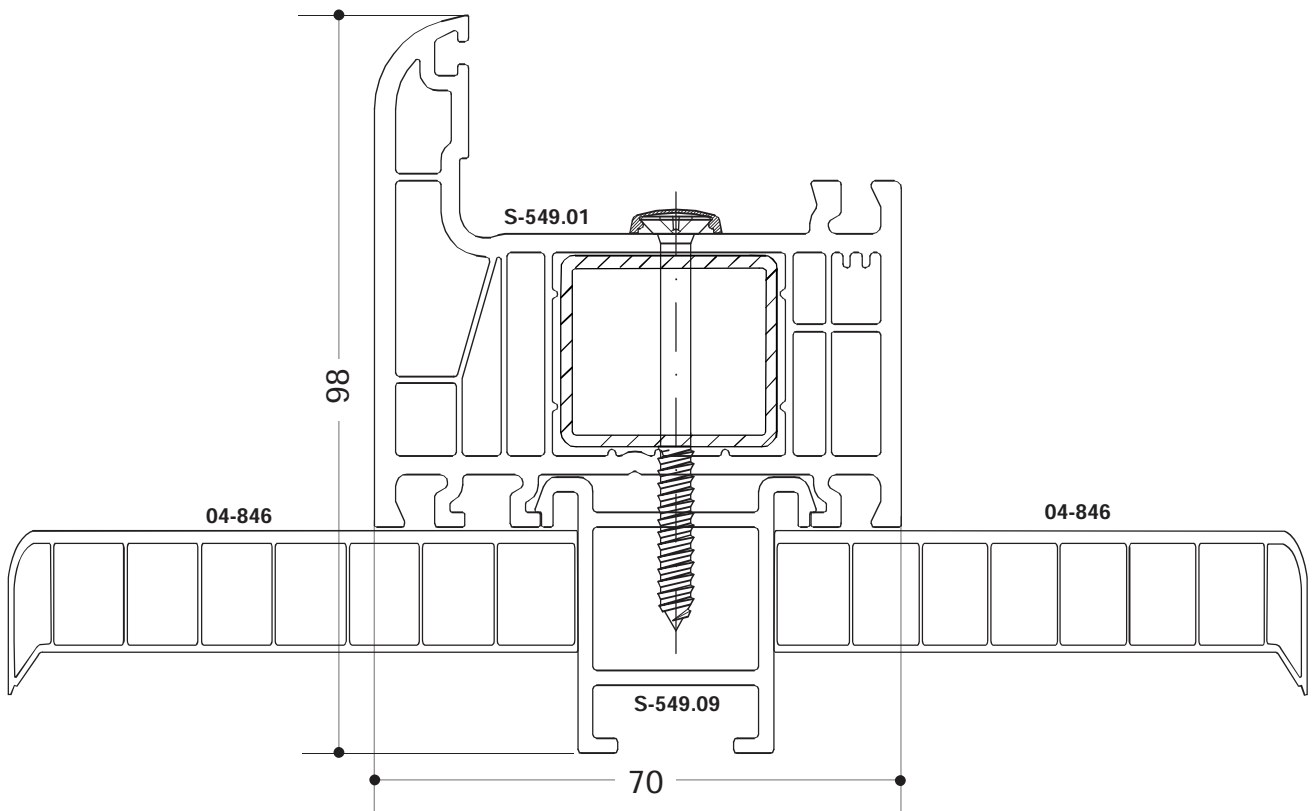
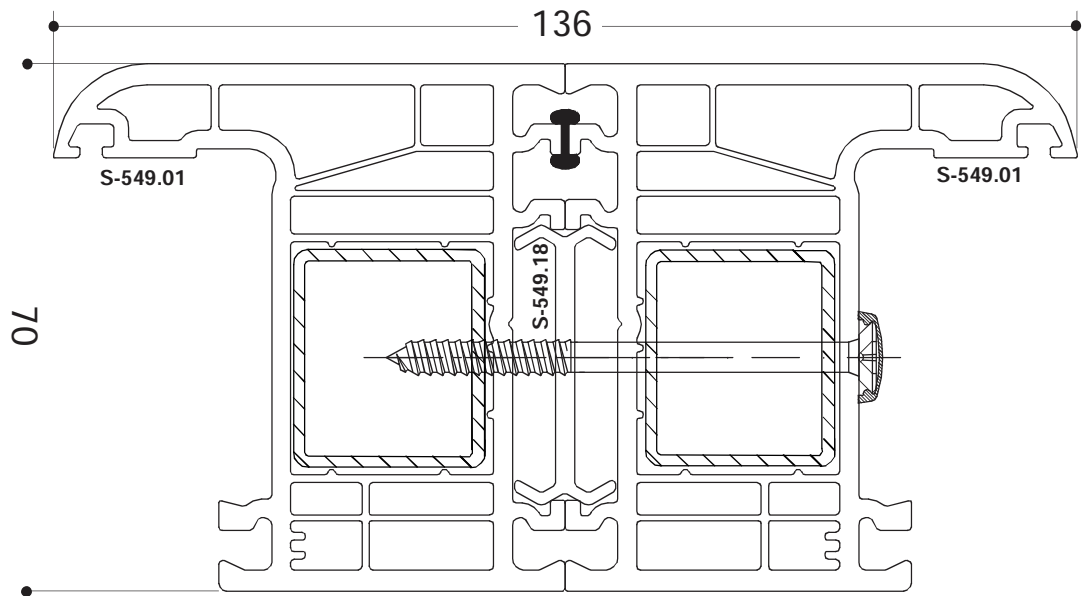


## SECTIONS



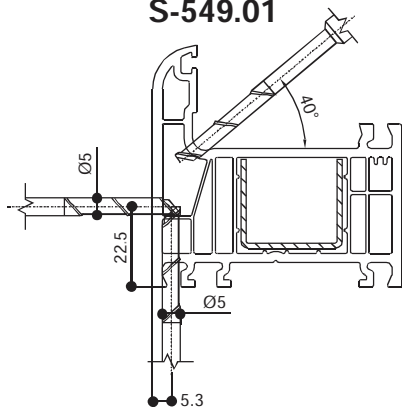


## SECTIONS

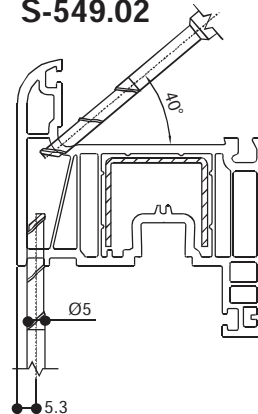




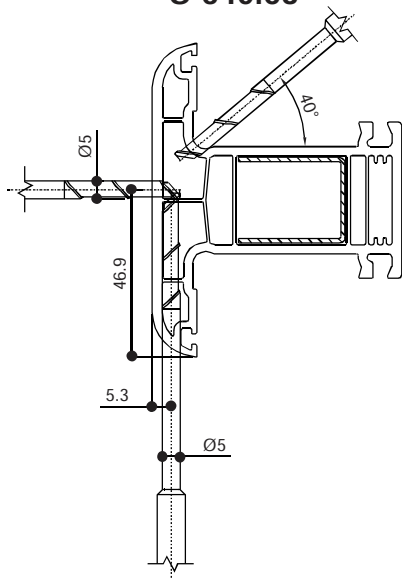
S-549.01



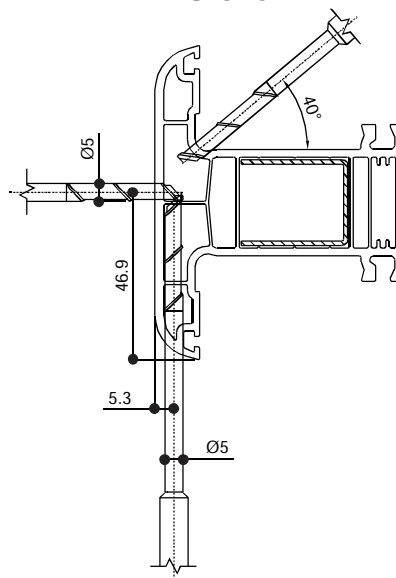
S-549.02



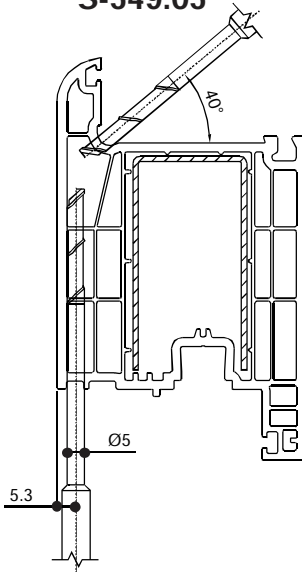
S-549.03



S-549.17

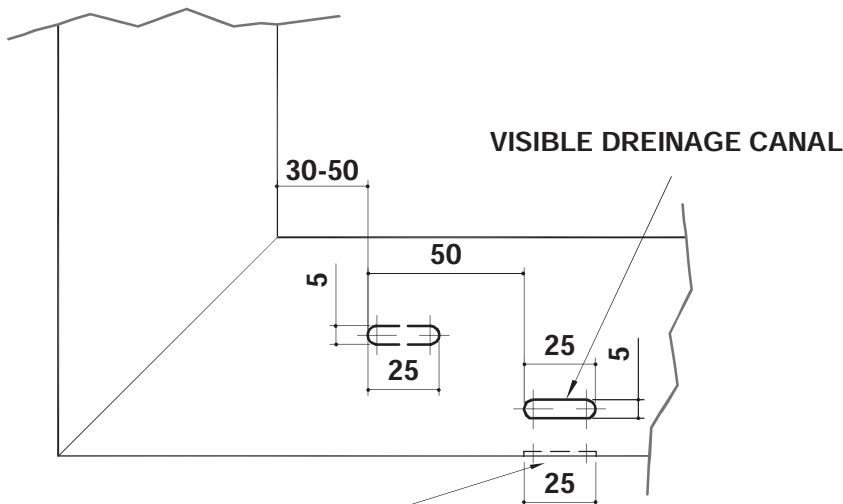
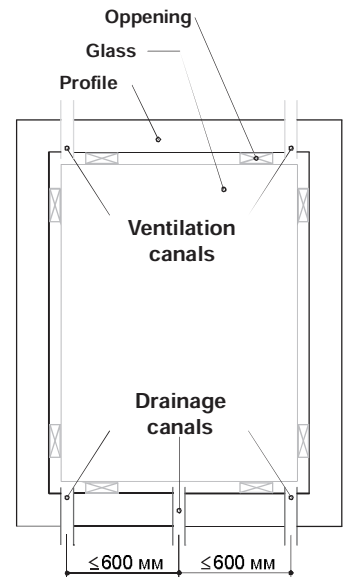
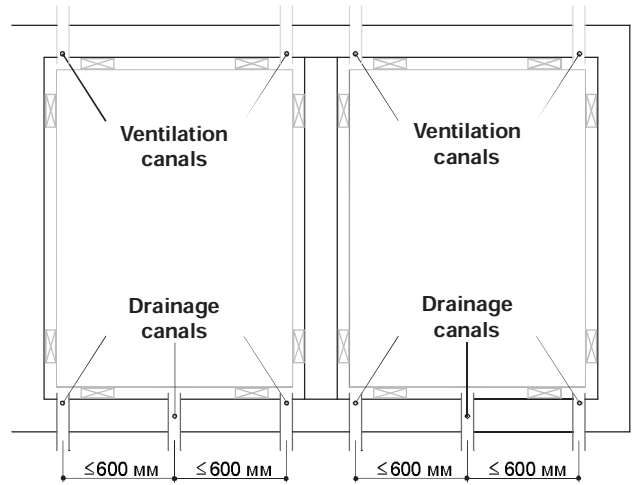
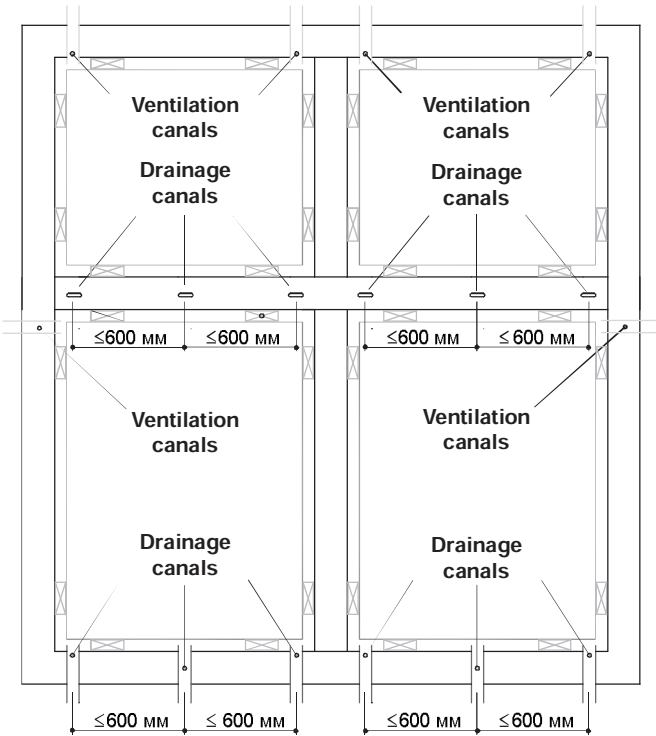


S-549.05

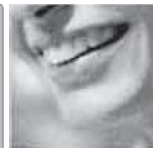




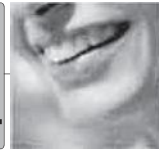
### SCHEME FOR DRILLING OF VENTILATION AND DRAINAGE CANALS



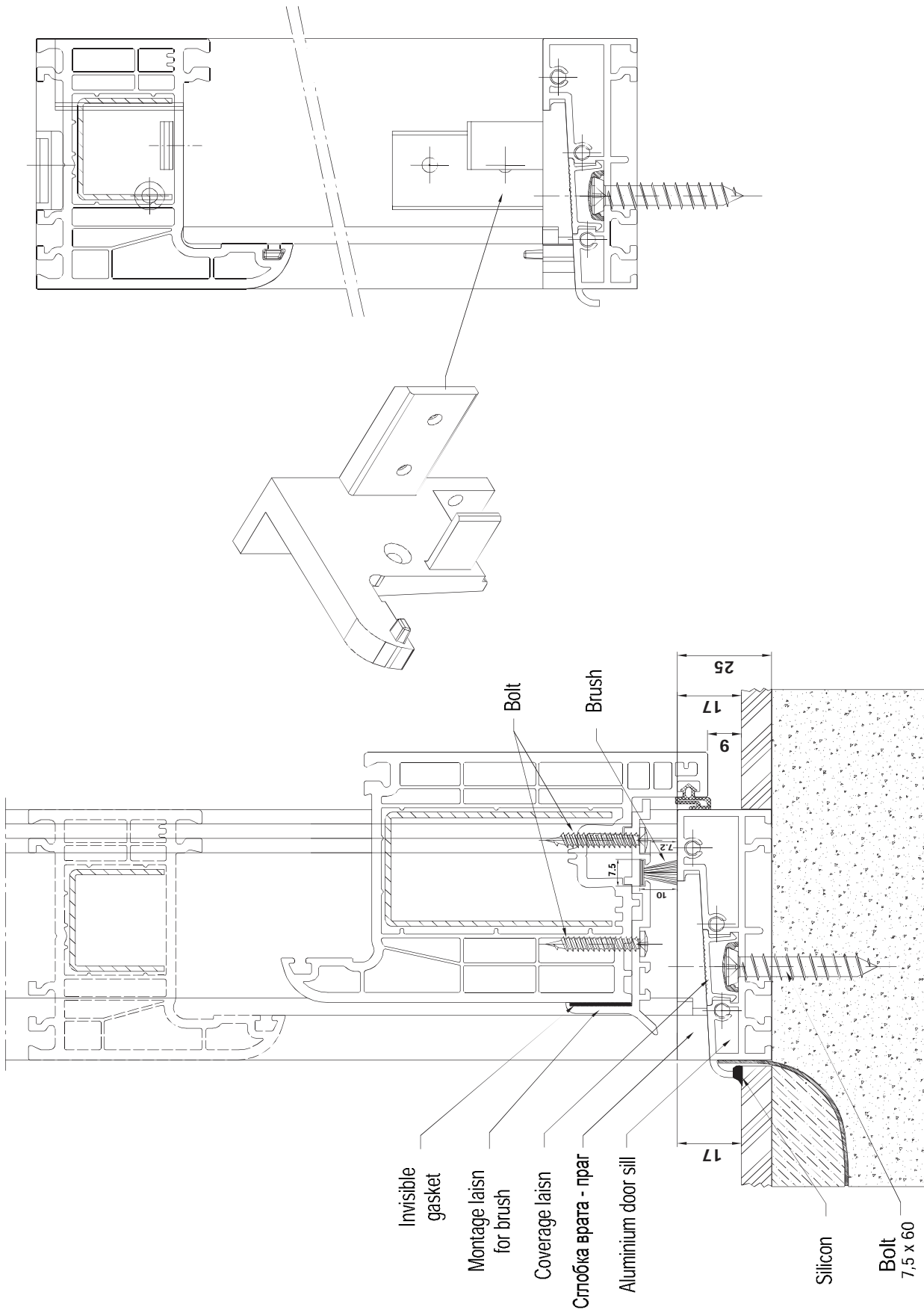
HIDDEN DREINAGE CANAL



	TRE 01		
	TRE 02		
	TRE 03		
	TRE 04		
	TRE 05		
	TRE 06		
	TRE 07		
	TRE 08		
	TRE 09		
	TRE 10		
	TRE 11		
	TRE 12		



## Series PRESTIGE

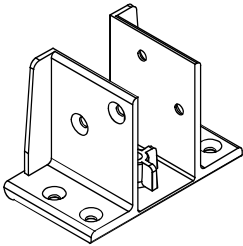




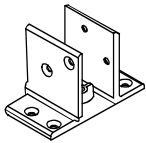
Universal gasket for glass,  
**PAR-02**



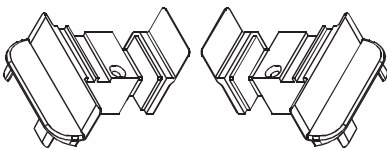
Universal gasket for glass,  
**ALT-04**



Putting T for profile **S-549.03**



Putting T for profile **S-549.17**



Cap for profile **S-549.04**



Cap for profile **04-846**  
(window sill)



Cap for drainage



Cap for technological opening F 12 mm



Fixer for glass



Stages lamella

20 mm

24 mm

26 mm

30 mm



Padding:

2 mm

3 mm

4 mm

5 mm



Angle:

18 mm

24 mm

32 mm



Angle for door



Equalise padding for frame