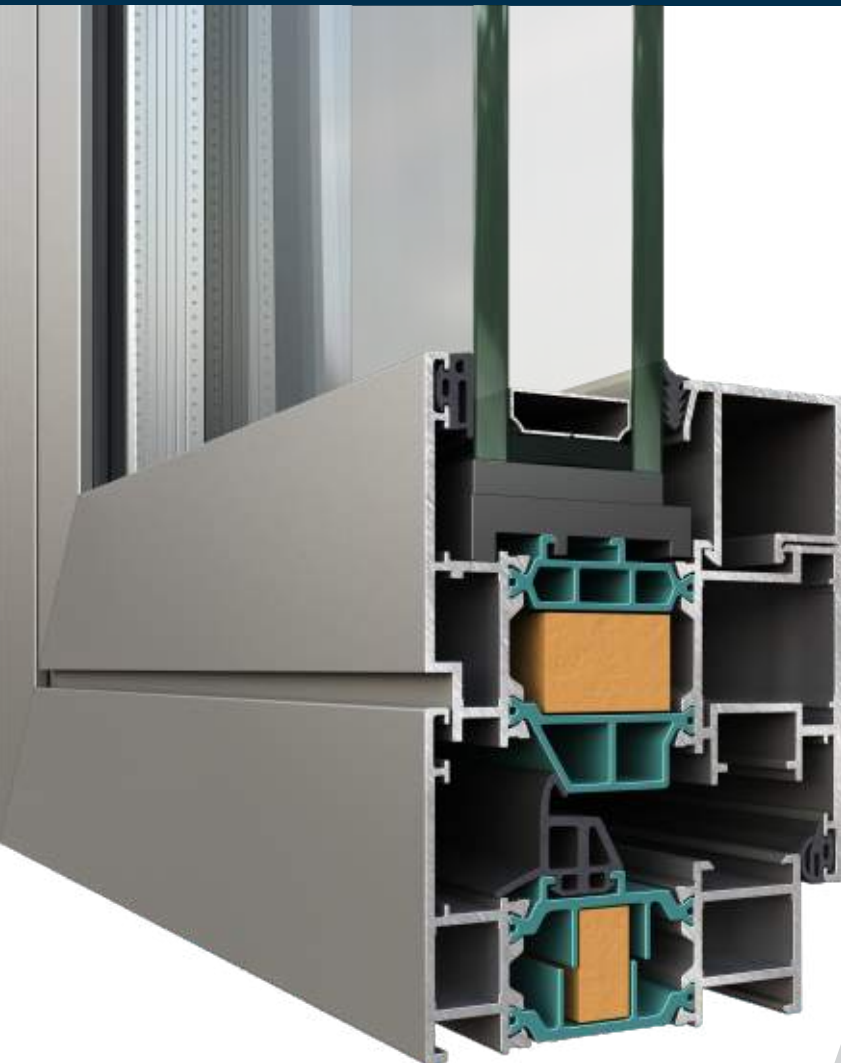




# **A ALTEST<sup>®</sup>** ALUMINIUM PROFILES SYSTEM



## **Series WDS 70**



**ATTENTION!**

**For faultless operation, please read carefully this catalogue!**

**It was elaborated by ALTEST Company. Its copying, reproduction and reprinting without our consent is not welcomed!**

**The profiles presented in the catalogue are patented and ALTEST Company has the exclusive rights.**

**ALTEST Company reserves the right to modify the profiles and the presented sections at its own discretion. The system is equipped with full set of calculations made in accordance with the existing manufacturing requirements, presented in this catalogue.**

**In conclusion – use original ALTEST profiles in compliance with the peculiarities and the technical characteristics presented in this catalogue.**

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## INTRODUCTION

The window and door system “WDS 70” of company ALTEST is based on a 70mm thermally isolated aluminium frame series designed according to European standards and is designed to receive hardware and accessories commonly used in PVC windows and doors.

It is a thermal break system with 34mm polyamide on the frame profile and 34mm for the sash.

The system consists of wide composition of profiles suitable for many kinds of typologies and architectural solutions.

It is designed to fulfil exterior and interior architectural applications where thermal break is required.

The system “WDS 70” is suitable for different version of opening and fixed systems.

The range of profiles, modern accessories and gaskets of EPDM guarantee high performance, excellent drainage, high thermal resistance, high acoustic performance, and high wind resistance.

The series is suitable also for tilt and turn mechanism with a PVC groove.

Versions of fixed ,vertical and horizontal opening windows as well as fixed and opening sections doors are possible.

The system “WDS 70” is based on work with 2 seal gaskets - central and inner seal (the central gasket is specially design for the series).

The dimensions of the profiles are to accept PVC hardware accessories and aluminium press corner connecting joints.

The system can accept accessories from the companies: GU, Siegenia, Roto, and many others.

The range basic profiles (frames) and glass holders, allows the usage of 24mm to 44mm glazing.

Of course variable design elaborations are possible, due to wide variety of frames, sashes and other auxiliary profiles.

This is a modern aluminium system, satisfying the latest architectural trends for doors and windows with very high thermal performances.

These advantages allow the system to be integrated in all kind of weather conditions and different buildings.

The profiles can be painted in all range of RAL colors.

The profiles are produced according to DIN 1725 T1, and is produce with the aluminium alloy AW6063 T6.

The technical and mechanical characteristics of the particular alloy are:

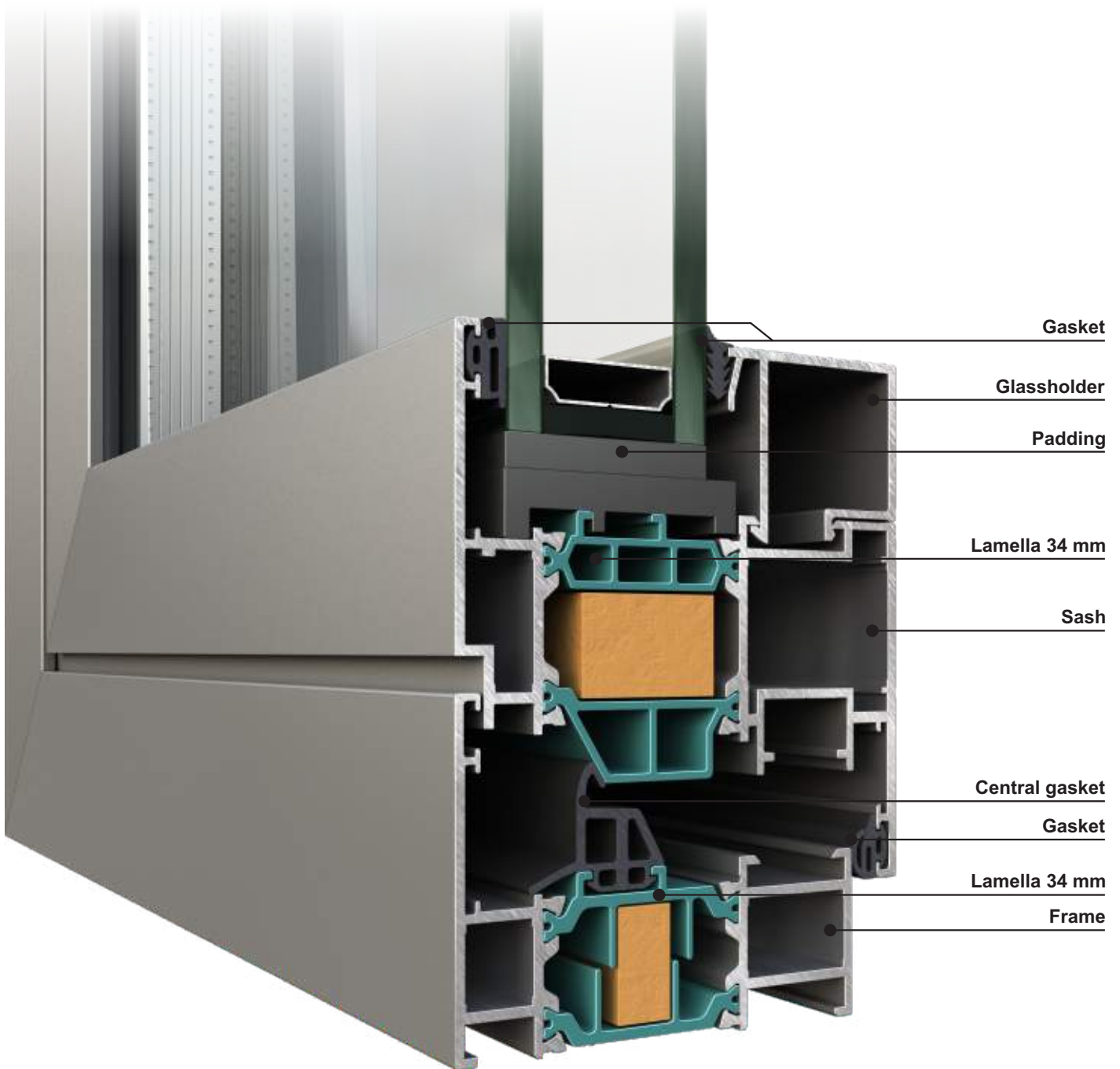
**Elasticity module:** 70 000 Nmm-2

**Coefficient of linear expansion:**  $\alpha = 2.34 \cdot 10^{-6} \text{ K}^{-1}$

**Tensile strength:**  $R_m = 215 \text{ Nmm}^{-2}$

**Relative density:**  $\gamma = 2.7 \text{ gr.cm}^{-3}$

## INTRODUCTION



## NOTES

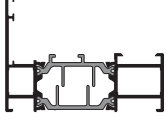
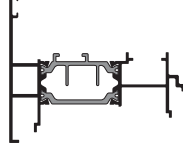
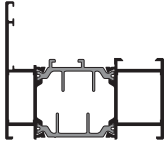
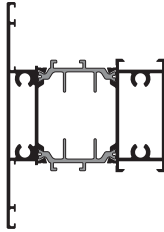
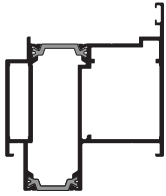
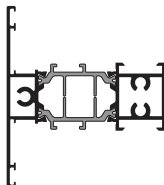
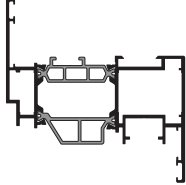
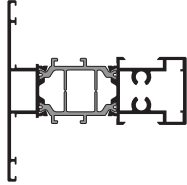
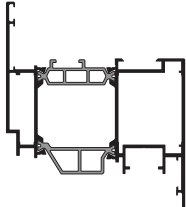
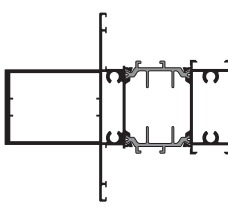
A series of horizontal dotted lines for taking notes.

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# **PROFILES OVERVIEW**

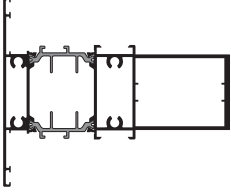
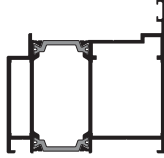
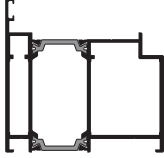
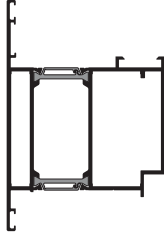
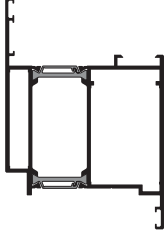
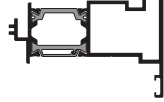
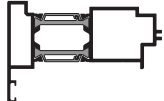



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## PROFILES OVERVIEW

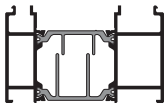
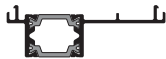
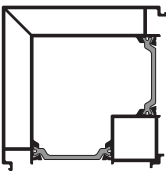

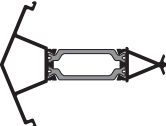
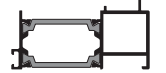


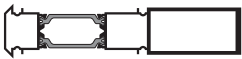

Profile shape	Profile code / description	Weight (gr/m)	Profile shape	Profile code / description	Weight (gr/m)
	<b>05 0100</b> <b>Frame</b>	1245		<b>05 0322</b> <b>Overhung</b>	1277
	<b>05 0101</b> <b>Frame</b>	1419		<b>05 0301</b> <b>Mullion</b>	2077
	<b>05 1102</b>	2090		<b>05 0304</b> <b>Mullion</b>	1685
	<b>05 0205</b> <b>Sash</b>	1735		<b>05 0309</b> <b>Mullion</b>	1713
	<b>05 0211</b> <b>Sash</b>	1943		<b>05 0302</b> <b>Mullion</b>	2928
















## PROFILES OVERVIEW

Profile shape	Profile code / description	Weight (gr/m)	Profile shape	Profile code / description	Weight (gr/m)
	<b>05 0303</b> Mullion	2927		<b>05 1104</b>	1831
	<b>05 1103</b>	1857		<b>05 1204</b>	2164
	<b>05 1203</b>	2170		<b>05 1304</b>	1238
	<b>05 1303</b>	1546		<b>05 1401</b>	667
	<b>05 1400</b>	693		<b>05 1420</b>	972

## PROFILES OVERVIEW

Profile shape	Profile code / description	Weight (gr/m)	Profile shape	Profile code / description	Weight (gr/m)
	<b>05 0600</b>	1452		<b>05 0700</b>	755
	<b>05 0604</b>	1976		<b>05 0804</b>	1060
	<b>05 0605</b>	1027		<b>05 0805</b>	900
	<b>05 0602</b>	949		<b>05 1410</b>	646
	<b>05 0603</b>	1609		<b>05 1411</b>	222

**PROFILES OVERVIEW**

Profile shape	Profile code / description	Weight (gr/m)	Profile shape	Profile code / description	Weight (gr/m)
	<b>05 0800</b>	246		<b>05 0502 Glass bead</b> (for sash and for mullion to sash)	431
	<b>05 0802</b>	136		<b>05 0503 Glass bead</b> (for sash and for mullion to sash)	421
	<b>05 0803</b>	141		<b>05 0504 Glass bead</b> (for sash and for mullion to sash)	412
	<b>05 0400 Glass bead</b> (for frame and for mullion to frame)	388			
	<b>05 0401 Glass bead</b> (for frame and for mullion to frame)	371			
	<b>05 0402 Glass bead</b> (for frame and for mullion to frame)	364			
	<b>05 0403 Glass bead</b> (for frame and for mullion to frame)	355			
	<b>05 0404 Glass bead</b> (for frame and for mullion to frame)	345			
	<b>05 0500 Glass bead</b> (for sash and for mullion to sash)	455			
	<b>05 0501 Glass bead</b> (for sash and for mullion to sash)	439			

NOTES

Horizontal dotted lines for notes.

**Series  
WDS 70**

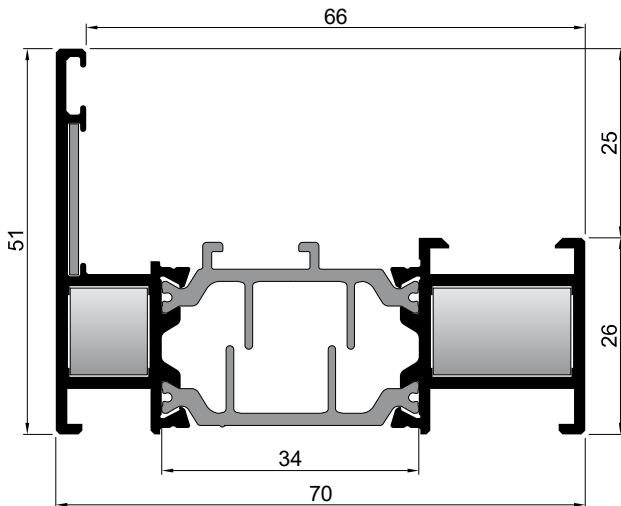



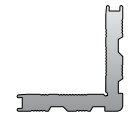



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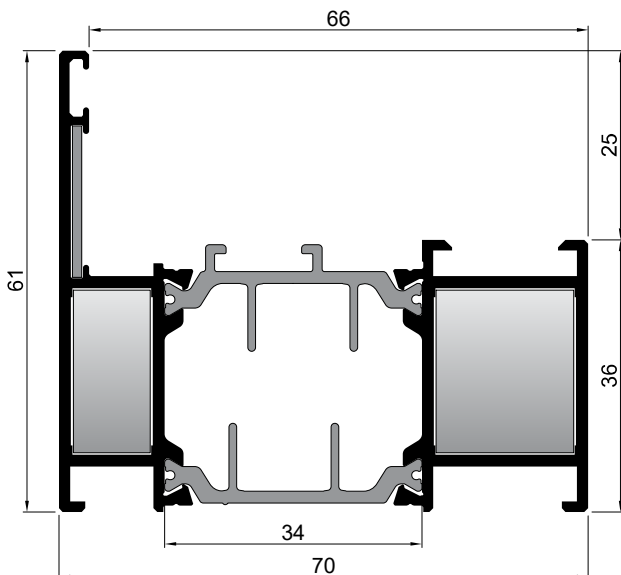
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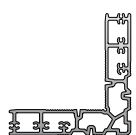



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## PROFILES

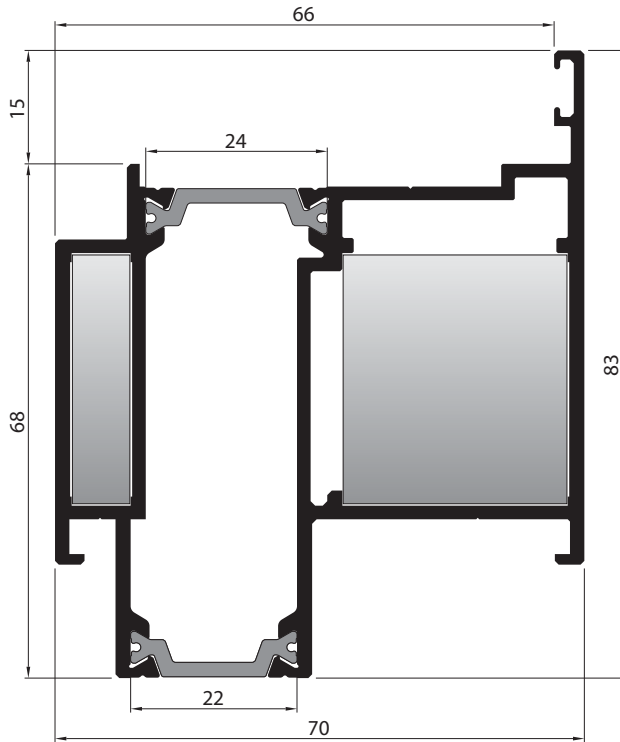


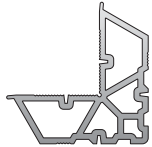

FRAME 05 0100	Weight (gr/m)	lx / ly cm4	Wx / Wy cm3
	1245	5.07 / 25.66	1.45 / 6.60
JOINTS	 <b>APE 720</b>	 <b>WDS05010</b> <b>WDS05011</b>	
		 EPDM gasket for the fix parts <b>US 0723</b>	 EPDM gasket for fixing the glass <b>U2</b>
			 EPDM central gasket for the opening parts <b>US 11.5105</b>

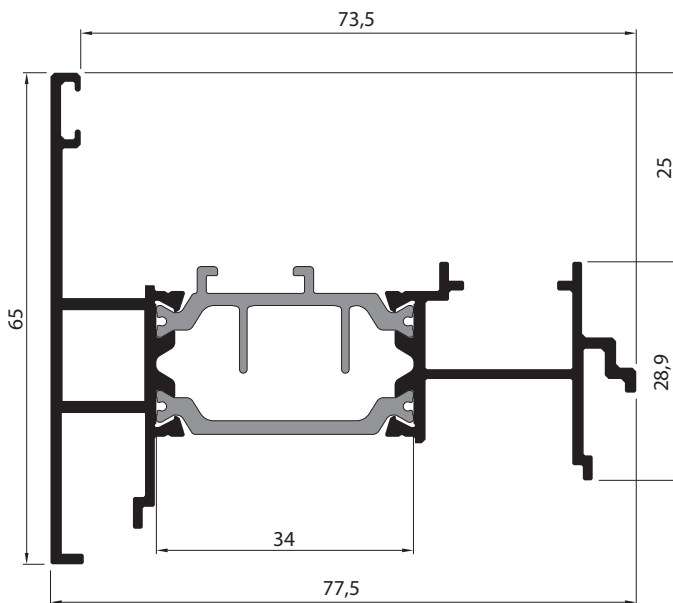



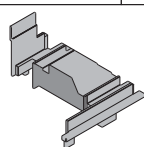
FRAME 05 0101	Weight (gr/m)	lx / ly cm4	Wx / Wy cm3
	1419	9.49 / 30.47	2.38 / 5.787
JOINTS	 <b>APE 720</b>	 <b>WDS05500</b> <b>WDS05510</b>	
		 EPDM gasket for the fix parts <b>US 0723</b>	 EPDM gasket for fixing the glass <b>U2</b>
			 EPDM central gasket for the opening parts <b>US 11.5105</b>

## PROFILES

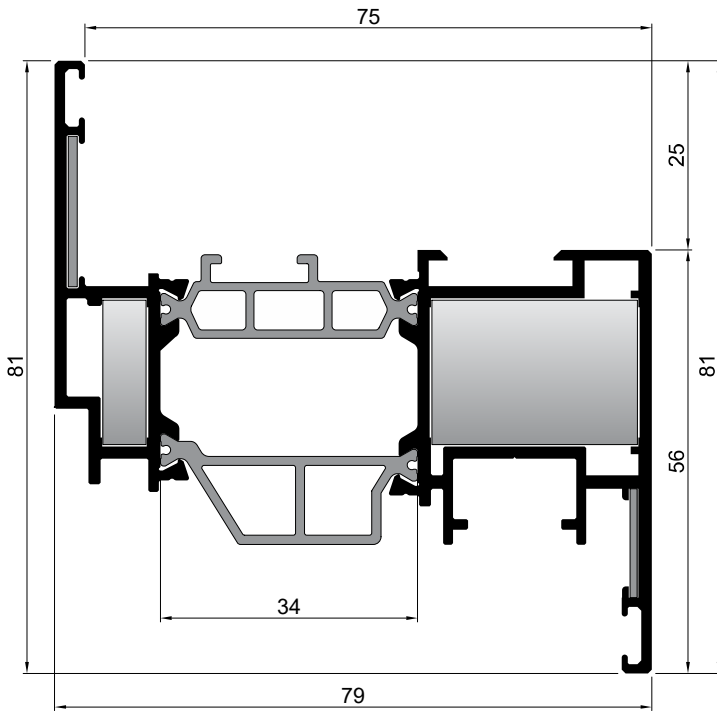




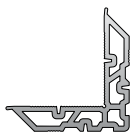




FRAME 05 1102	Weight (gr/m)	Ix / Iy cm <sup>4</sup>	Wx / Wy cm <sup>3</sup>
	2090	31.78 / 43.26	7.22 / 11.88
JOINTS	 <b>WDS05100</b> <b>WDS05101</b>		
GASKETS	 EPDM gasket for fixing the opening parts <b>US 11.5102</b>		

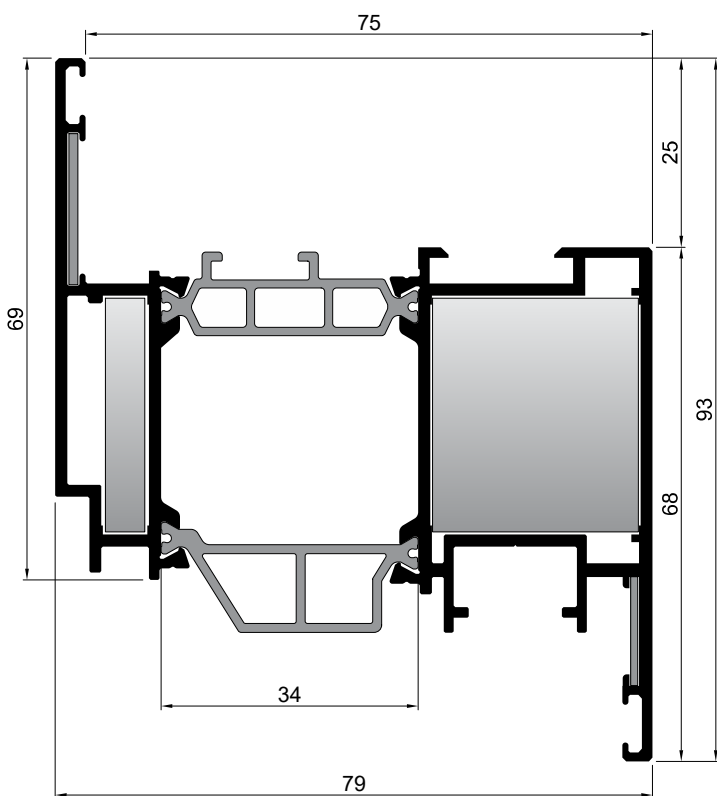




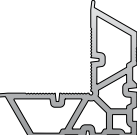




OVERHUNG 05 0322	Weight (gr/m)	Ix / Iy cm <sup>4</sup>	Wx / Wy cm <sup>3</sup>
	1277	6.55 / 28.81	1.77 / 5.89
GASKETS	 EPDM central gasket for the opening parts <b>US 11.5105</b>		
	 <b>APE 316</b>		

## PROFILES



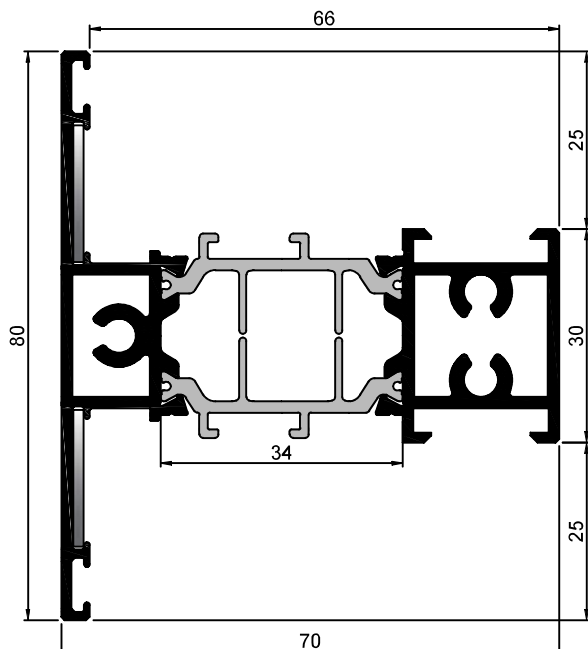
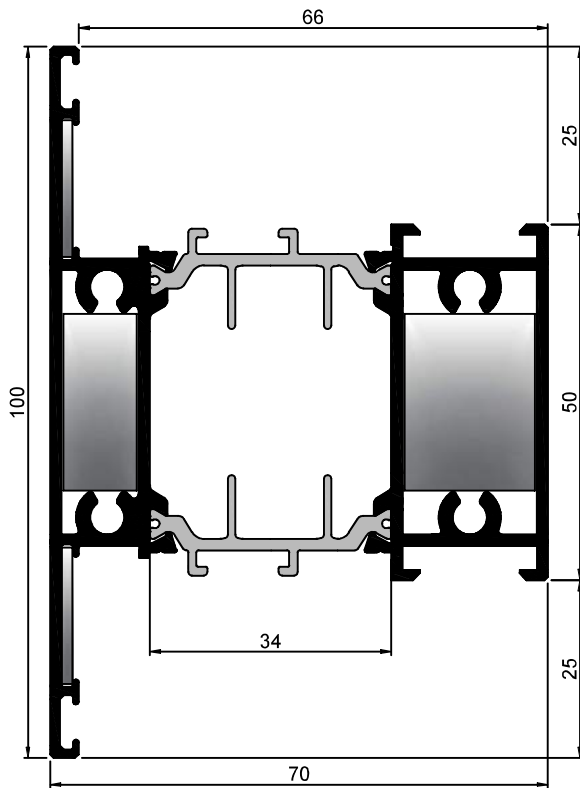
SASH 05 0205	Weight (gr/m)	Ix / Iy cm <sup>4</sup>	Wx / Wy cm <sup>3</sup>
	1735	14.15 / 47.07	3.35 / 11.29
JOINTS	 APE 720	 APE 7	 WDS05120 WDS05121
GASKETS	 EPDM gasket for the fix parts <b>US 0723</b>	 EPDM gasket for fixing the glass <b>U2</b>	 EPDM gasket for the fix parts <b>US 11.5100</b>
		 EPDM gasket for fixing the opening parts <b>US 11.5102</b>	EPDM gasket for fixing the opening parts

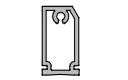

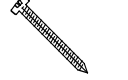









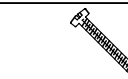



SASH 05 0211	Weight (gr/m)	Ix / Iy cm <sup>4</sup>	Wx / Wy cm <sup>3</sup>
	1943	24.99 / 54.45	5.16 / 13.31
JOINTS	 APE 720	 APE 7	 WDS05110 WDS05111
GASKETS	 EPDM gasket for the fix parts <b>US 0723</b>	 EPDM gasket for fixing the glass <b>U2</b>	 EPDM gasket for the fix parts <b>US 11.5100</b>
		 EPDM gasket for fixing the opening parts <b>US 11.5102</b>	EPDM gasket for fixing the opening parts



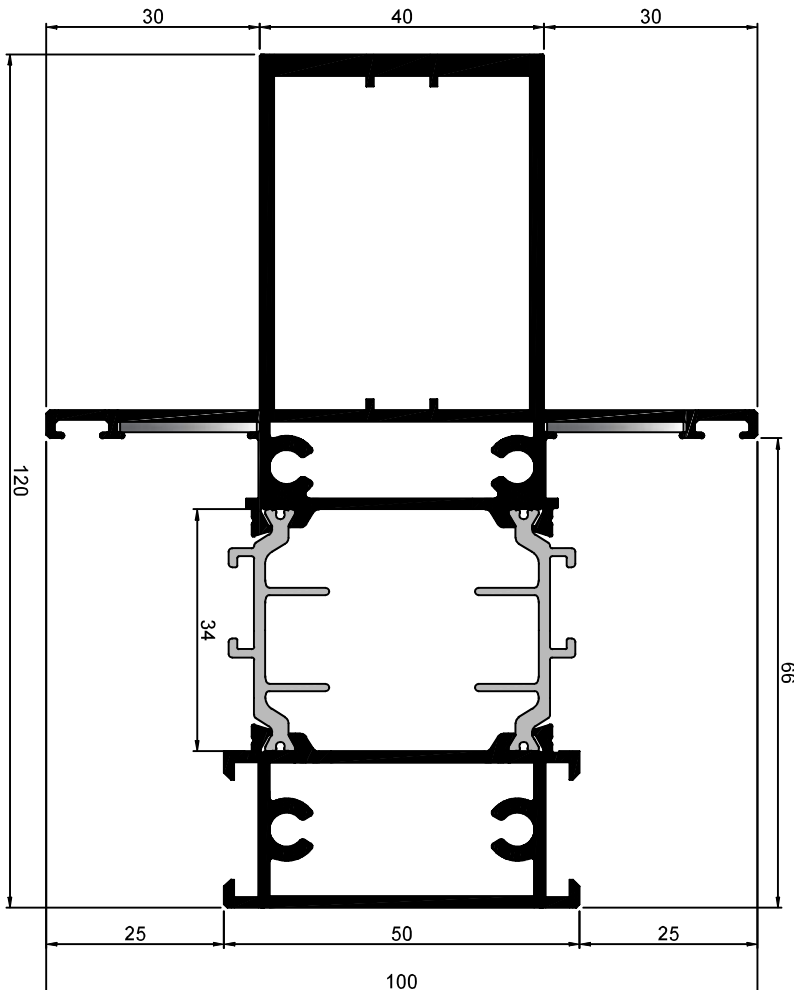
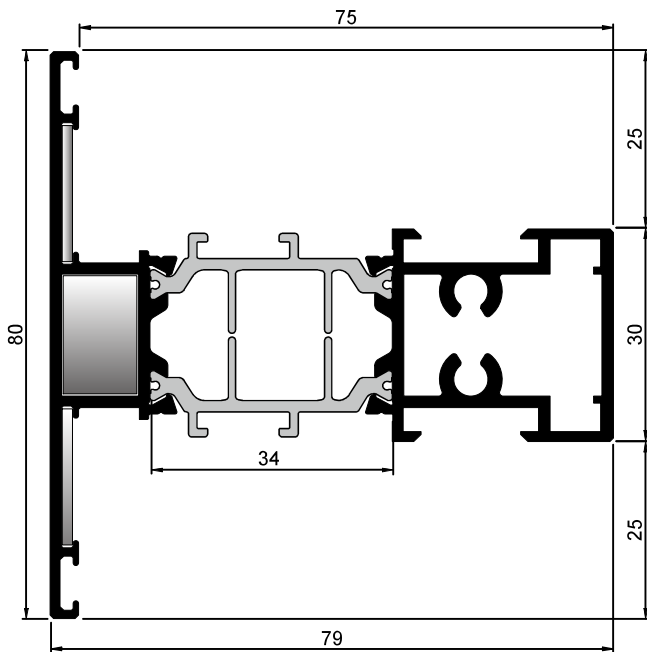
## PROFILES


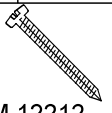









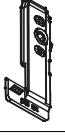




MULLION	Weight gr/m	Ix / Iy cm <sup>4</sup>	Wx / Wy cm <sup>3</sup>
05 0301	2077	29.59/47.99	5.92/12
JOINTS	 WDS05300	 WDS05410	 VM 12212
	 APE1701DX	 APE1701SX	
GASKETS	 EPDM gasket for the fix parts <b>US 0723</b>	 EPDM gasket for the fix parts <b>US 11.5100</b>	 EPDM central gasket for the opening parts <b>US 11.5105</b>

MULLION	Weight gr/m	Ix / Iy cm <sup>4</sup>	Wx / Wy cm <sup>3</sup>
05 0304	1685	11.17 / 37.35	2.79 / 9.34
JOINTS	 APE1701DX	 APE1701SX	
	 VM 12212		
GASKETS	 EPDM gasket for the fix parts <b>US 0723</b>	 EPDM gasket for the fix parts <b>US 11.5100</b>	 EPDM central gasket for the opening parts <b>US 11.5105</b>

## PROFILES

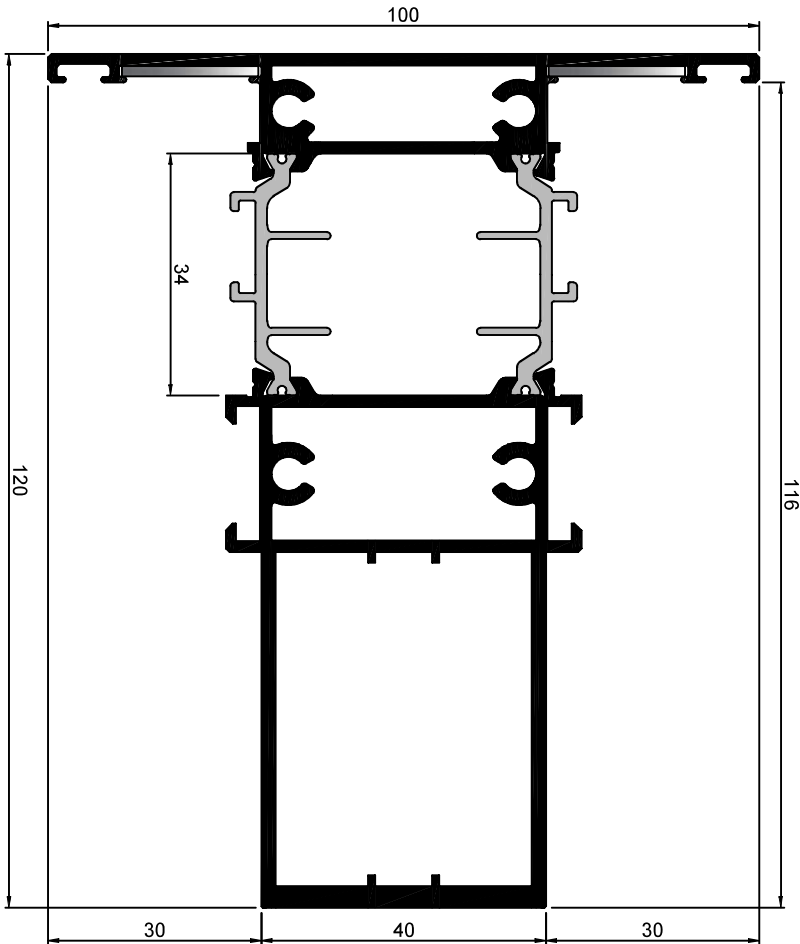










MULLION 05 0309	Weight gr/m	Ix / Iy cm4	Wx / Wy cm3
	1713	11.93/45.85	2.98/10.61
JOINTS	 WDS05400		 VM 12212
	 APE1701DX		 APE1701SX
GASKETS	 EPDM gasket for the fix parts US 0723		 EPDM gasket for the fix parts US 11.5100
			 EPDM central gasket for the opening parts US 11.5105

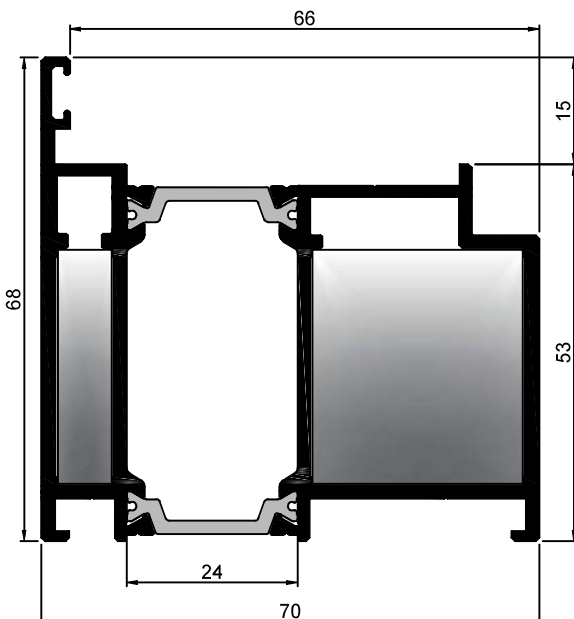
MULLION 05 0302	Weight gr/m	Ix / Iy cm4	Wx / Wy cm3
	2928	40.27/207.81	8.05/27.56
JOINTS	 WDS05310		 VM 12212
	 APE1701DX		 APE1701SX
GASKETS	 EPDM gasket for the fix parts US 0723		 EPDM gasket for the fix parts US 11.5100
			 EPDM central gasket for the opening parts US 11.5105

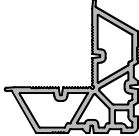

ALL OF THE PROFILE WEIGHTS ARE THEORETICAL  
M 1:1

## PROFILES



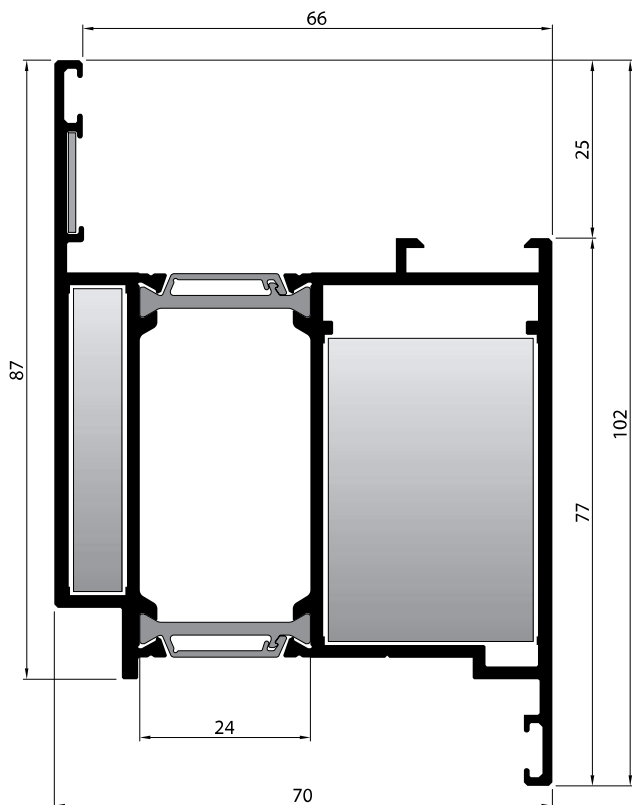
MULLION 05 0303	Weight gr/m	Ix / Iy cm4	Wx / Wy cm3
	2927	40.27/260.21	8.05/36.29
JOINTS	 WDS05310	 WDS05420	 VM 12212
	 APE1701DX	 APE1701SX	
GASKETS	 EPDM gasket for the fix parts <b>US 0723</b>	 EPDM gasket for the fix parts <b>US 11.5100</b>	 EPDM central gasket for the opening parts <b>US 11.5105</b>


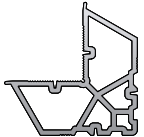






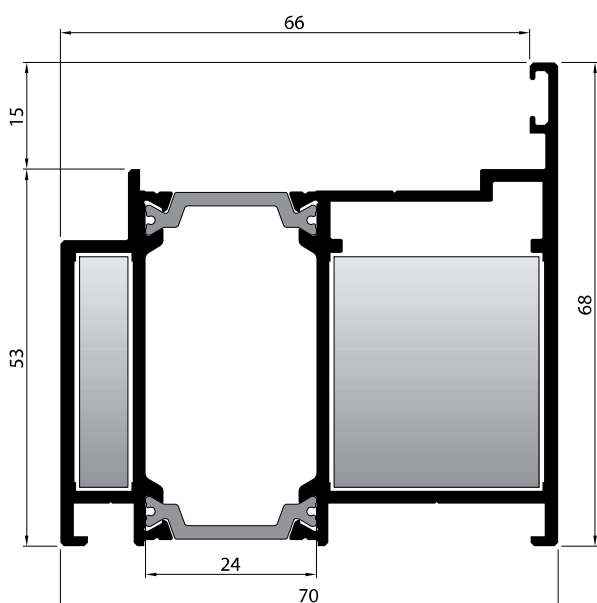
FRAME 05 1103	Weight gr/m	Ix / Iy cm4	Wx / Wy cm3
	1857	21.61/39.79	5.40/9.92
JOINTS			WDS05100 WDS05101
GASKETS	 EPDM gasket for fixing the opening parts <b>US 11.5102</b>		

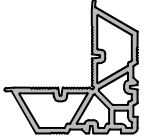

ALL OF THE PROFILE WEIGHTS ARE THEORETICAL  
M 1:1

## PROFILES

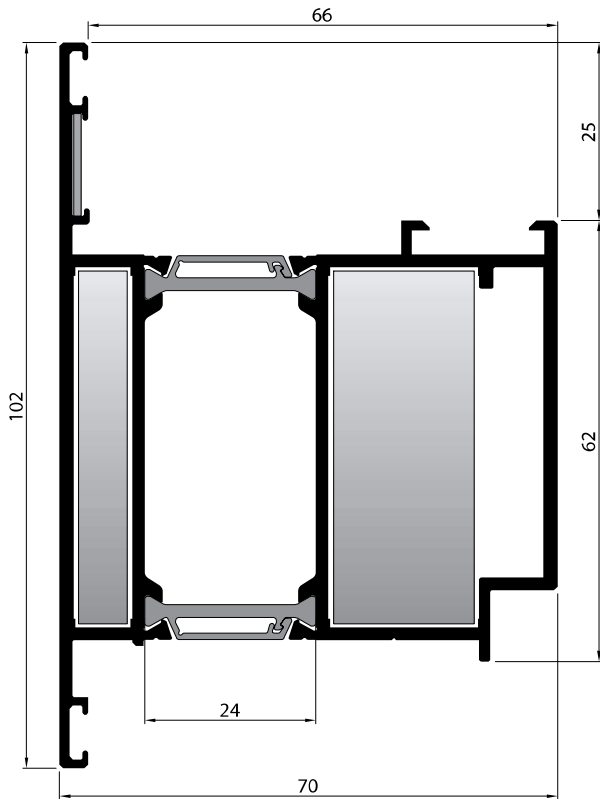



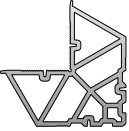




SASH	Weight gr/m	Ix / Iy cm <sup>4</sup>	Wx / Wy cm <sup>3</sup>
05 1203	2170	41.60/51.17	7.66/13.79
JOINTS	 APE 7		WDS05800 WDS05810
GASKETS	 EPDM gasket for the fix parts  US 0723	 EPDM gasket for fixing the glass  U2	 EPDM gasket for the fix parts  US 11.5100
		 EPDM gasket for fixing the opening parts  US 11.5102	

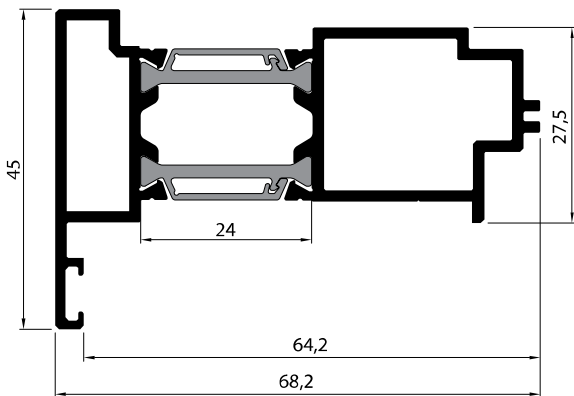



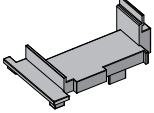
FRAME	Weight gr/m	Ix / Iy cm <sup>4</sup>	Wx / Wy cm <sup>3</sup>
05 1104	1831	21.36/40.86	5.31/11.54
JOINTS			WDS05100 WDS05101
GASKETS		 EPDM gasket for fixing the opening parts  US 11.5102	

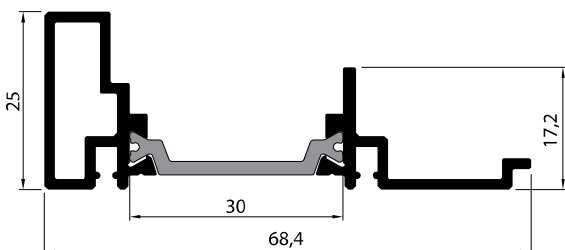
## PROFILES

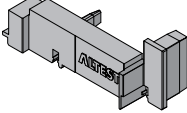



SASH	Weight gr/m	Ix / Iy cm4	Wx / Wy cm3
05 1204	2164	41.11/48.62	7.61/11.83
JOINTS	 APE 7		WDS05900 WDS05910
GASKETS	 EPDM gasket for the fix parts US 0723	 EPDM gasket for fixing the glass U2	 EPDM gasket for the fix parts US 11.5100
		 EPDM gasket for fixing the opening parts US 11.5102	

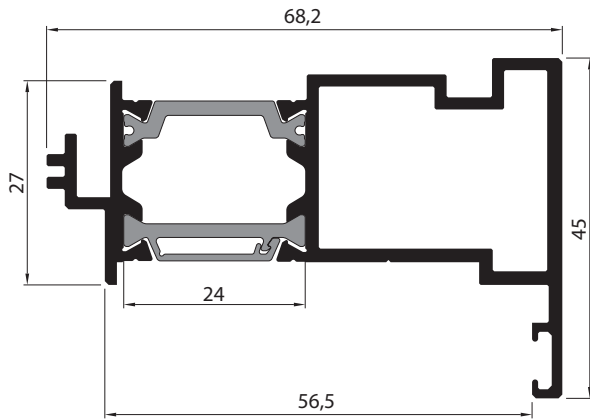



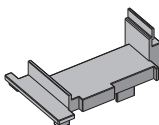
	Weight (gr/m)	Ix / Iy cm4	Wx / Wy cm3
05 1303	1546	4.58 / 20.78	1.64 / 5.29
GASKETS	 EPDM gasket for fixing the opening parts US 11.5102		
COVER CAPS	 APE 317		

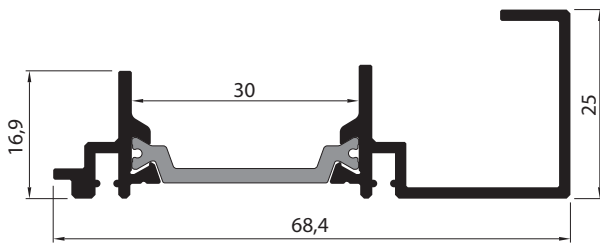


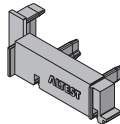

	Weight (gr/m)	Ix / Iy cm4	Wx / Wy cm3
05 1400	693	1.20 / 10.87	0.71 / 2.49
COVER CAPS	 WDS 1400		
BRUSHES	 TZ WDS		

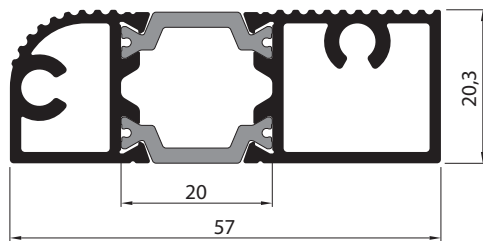
## PROFILES



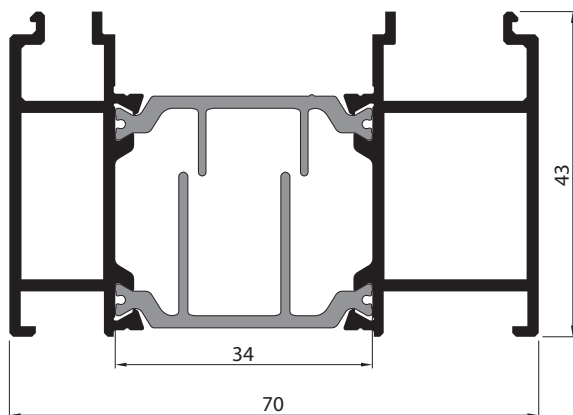
<b>05 1304</b>	Weight (gr/m)	lx / ly cm4	Wx / Wy cm3
	1238	4.64 / 20.90	1.68 / 5.24
<b>GASKETS</b>	 EPDM gasket for fixing the opening parts <b>US 11.5102</b>		
<b>COVER CAPS</b>	 <b>APE 318</b>		



<b>05 1401</b>	Weight (gr/m)	lx / ly cm4	Wx / Wy cm3
	667	1.04 / 11.75	0.60 / 3.08
<b>COVER CAPS</b>	 <b>WDS 1401</b>		
<b>BRUSHES</b>	 <b>TZ WDS</b>		

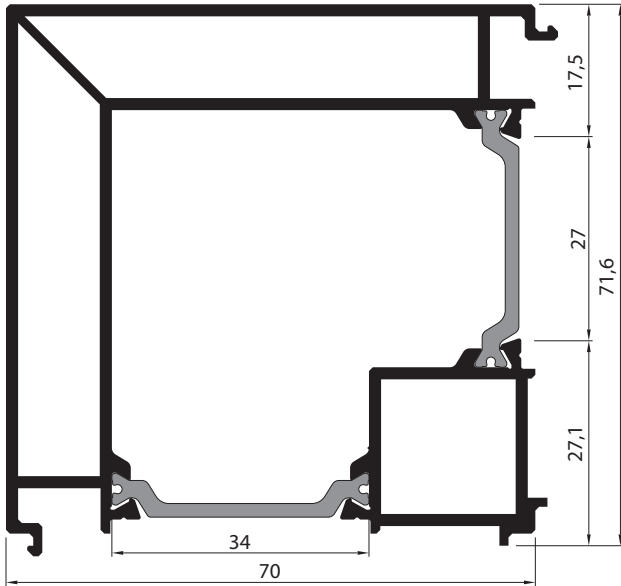


<b>05 1420</b>	Weight (gr/m)	lx / ly cm4	Wx / Wy cm3
	972	1.59 / 11.11	1.42 / 3.83

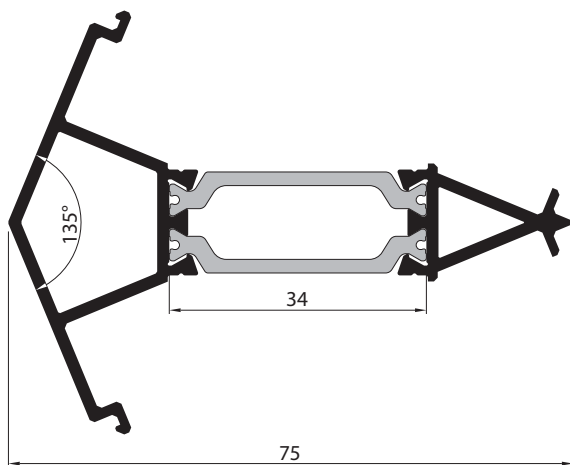


<b>05 0600</b>	Weight (gr/m)	lx / ly cm4	Wx / Wy cm3
	1452	7.27 / 29.50	3.22 / 8.26

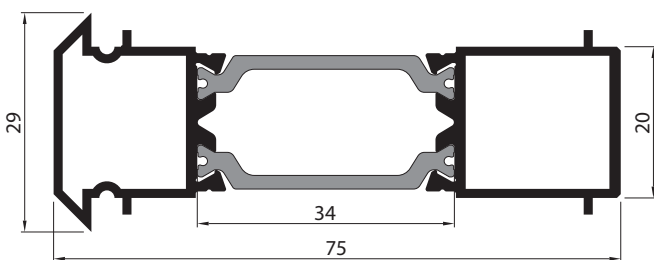
## PROFILES



05 0604	Weight (gr/m)	Ix / Iy cm <sup>4</sup>	Wx / Wy cm <sup>3</sup>
	1976	43.03 / 43.03	10.73 / 10.73

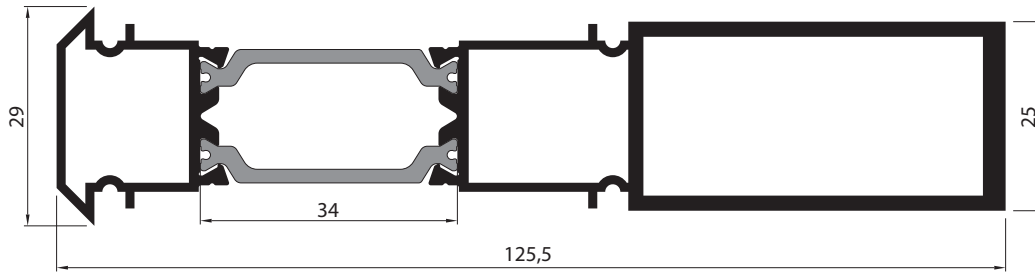


05 0605	Weight (gr/m)	Ix / Iy cm <sup>4</sup>	Wx / Wy cm <sup>3</sup>
	1027	4.05 / 18.15	1.45 / 4.02

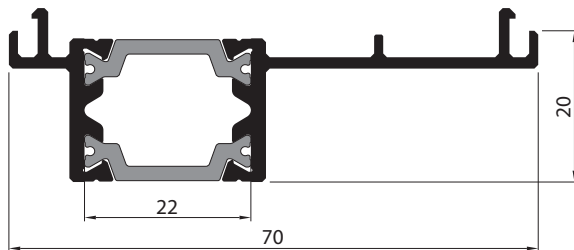


05 0602	Weight (gr/m)	Ix / Iy cm <sup>4</sup>	Wx / Wy cm <sup>3</sup>
	949	1.78 / 19.53	1.23 / 5.06

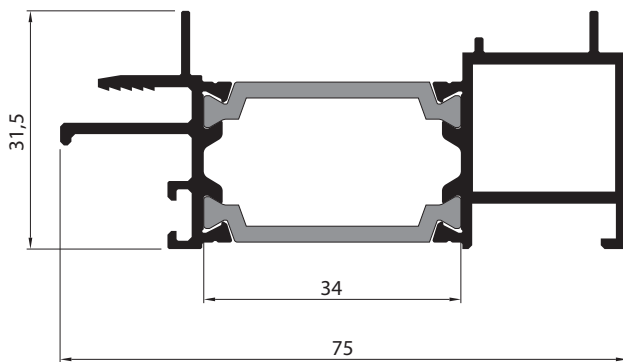
## PROFILES



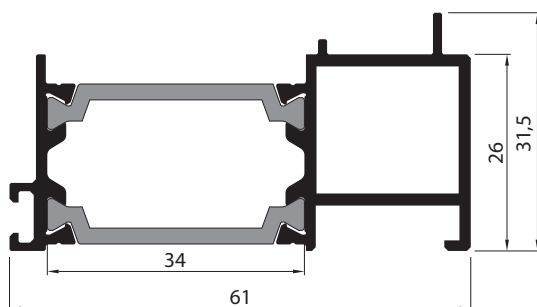
<b>05 0603</b>	<b>Weight (gr/m)</b>
	1609
<b>Ix / Iy cm4</b>	<b>Wx / Wy cm3</b>
4.77 / 93.05	3.29 / 13.25



<b>05 0700</b>	<b>Weight (gr/m)</b>	<b>Ix / Iy cm4</b>	<b>Wx / Wy cm3</b>
	755	0.87 / 9.71	0.64 / 2.4



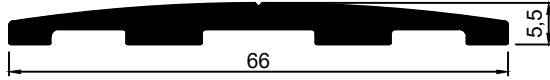
<b>05 0804</b>	<b>Weight (gr/m)</b>	<b>Ix / Iy cm4</b>	<b>Wx / Wy cm3</b>
	1060	2.33 / 19.04	1.37 / 4.52



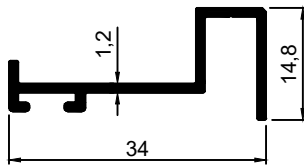
<b>05 0805</b>	<b>Weight (gr/m)</b>	<b>Ix / Iy cm4</b>	<b>Wx / Wy cm3</b>
	900	2.05 / 12.11	1.13 / 3.49




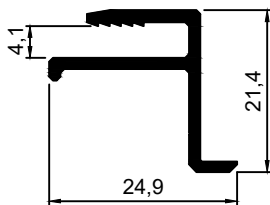
## PROFILES



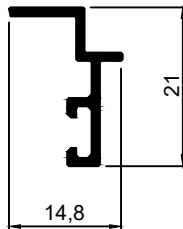
05 1410	Weight gr/m
	646



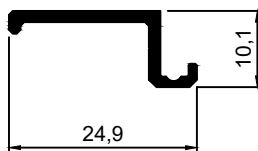
05 1411	Weight gr/m	BRUSHES
	222	 TZ 6;TZ12;TZ 18;



05 0800	Weight gr/m
	246

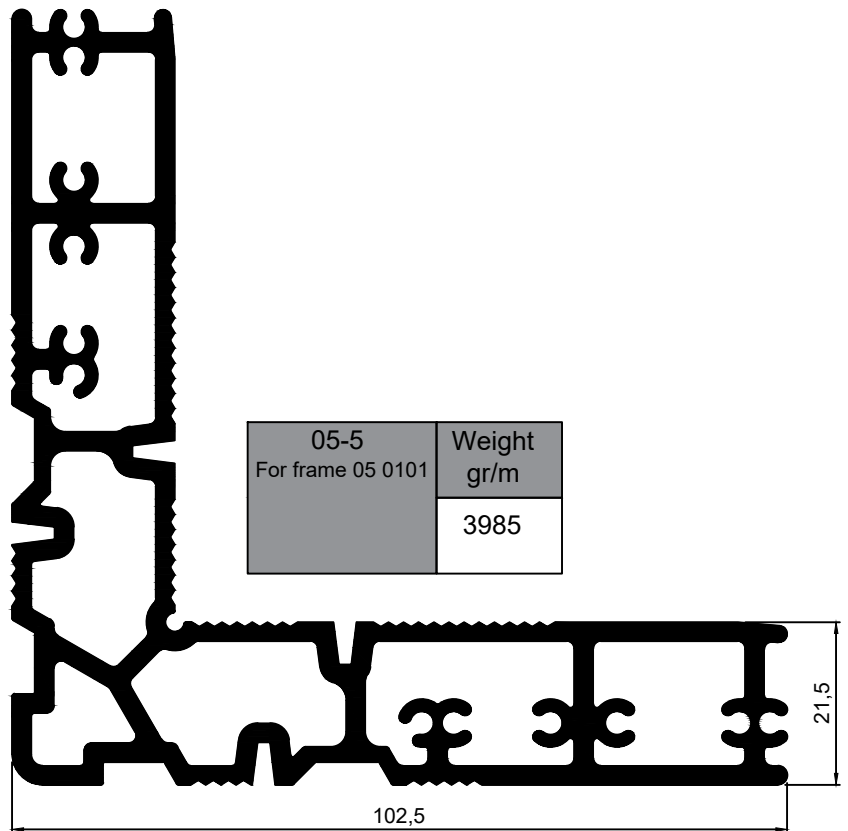
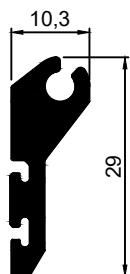
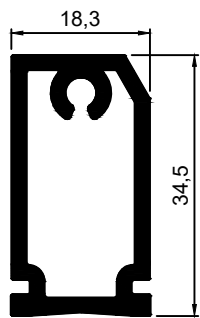
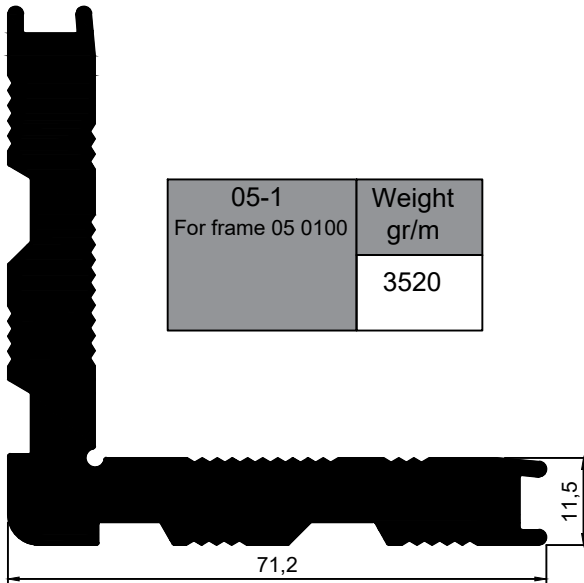


05 0802	Weight gr/m
	136

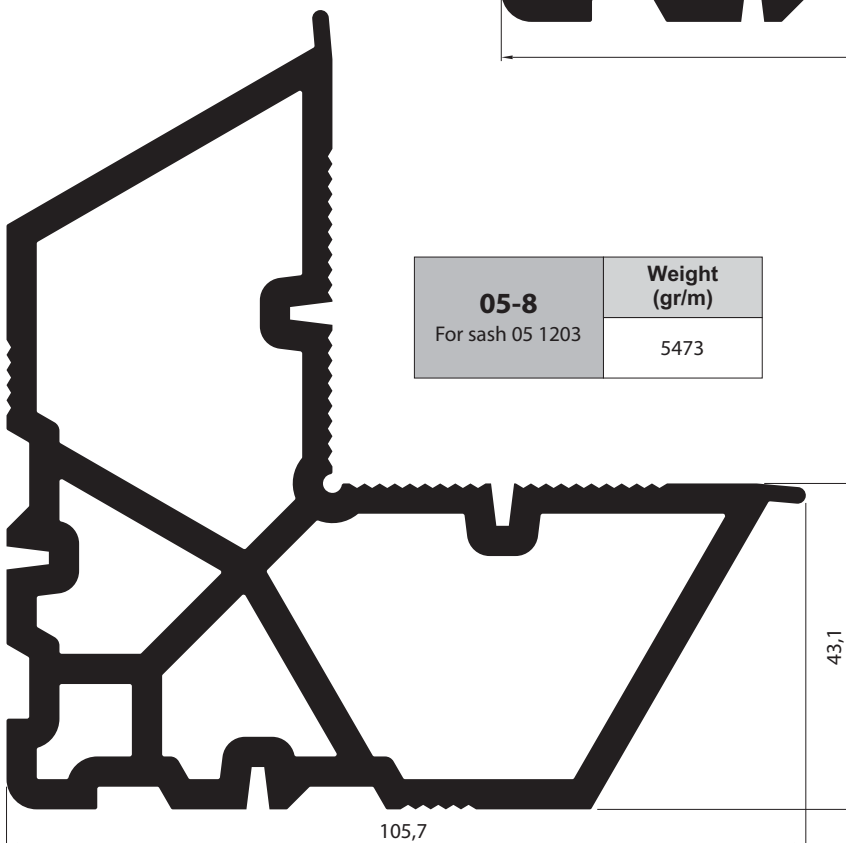
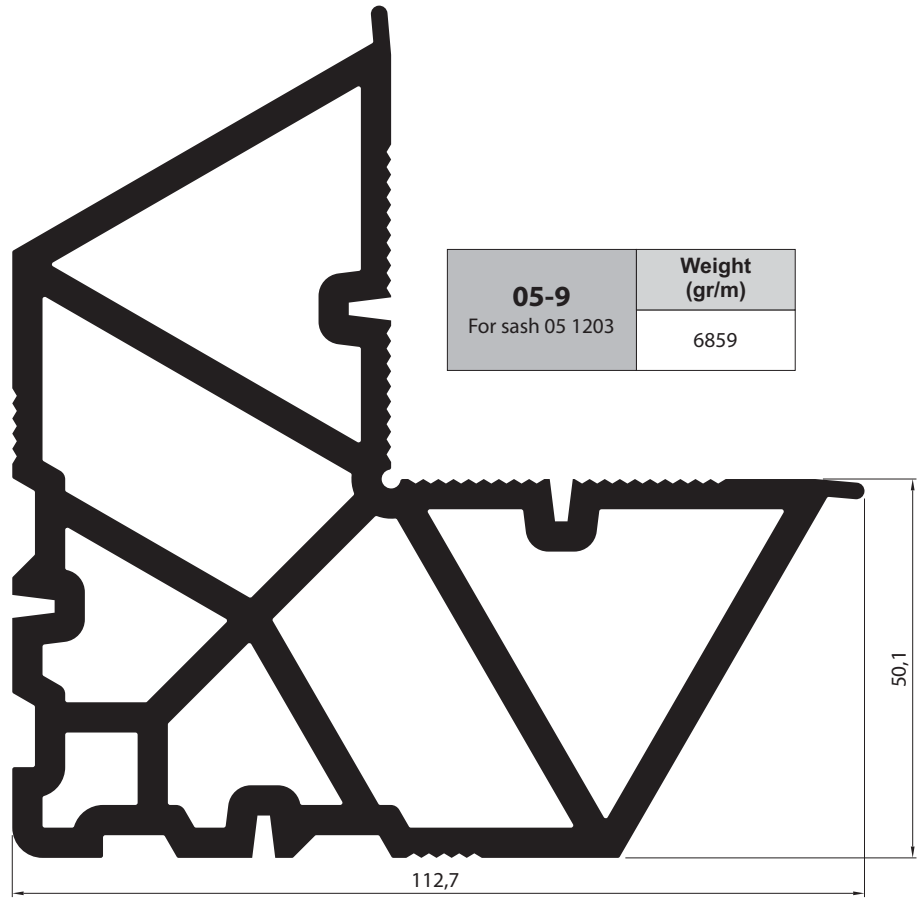


05 0803	Weight gr/m
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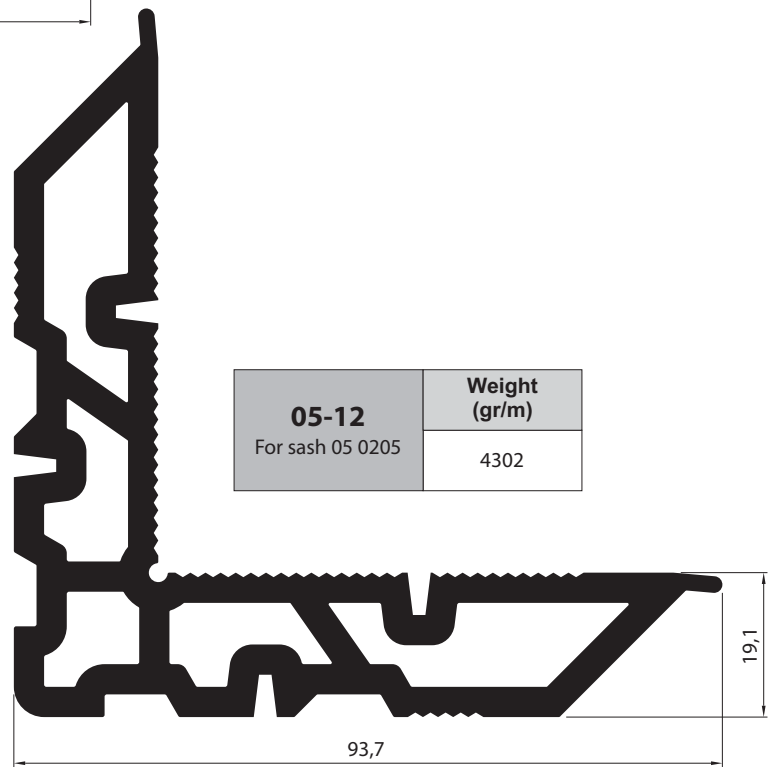
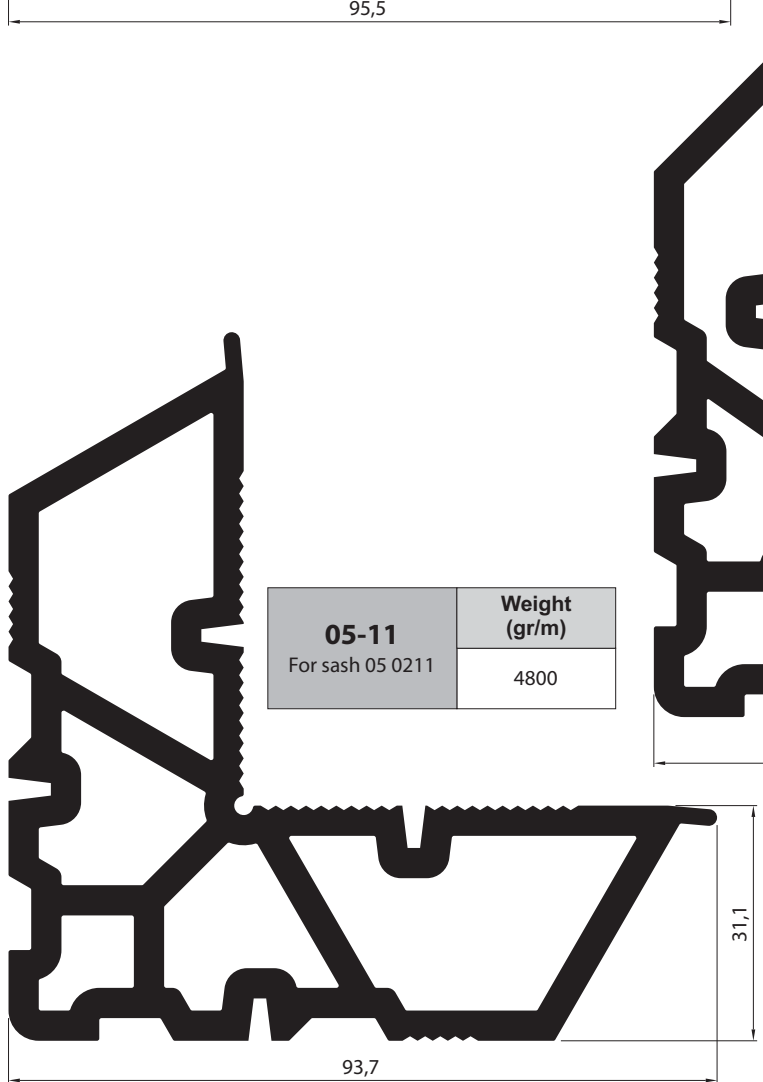
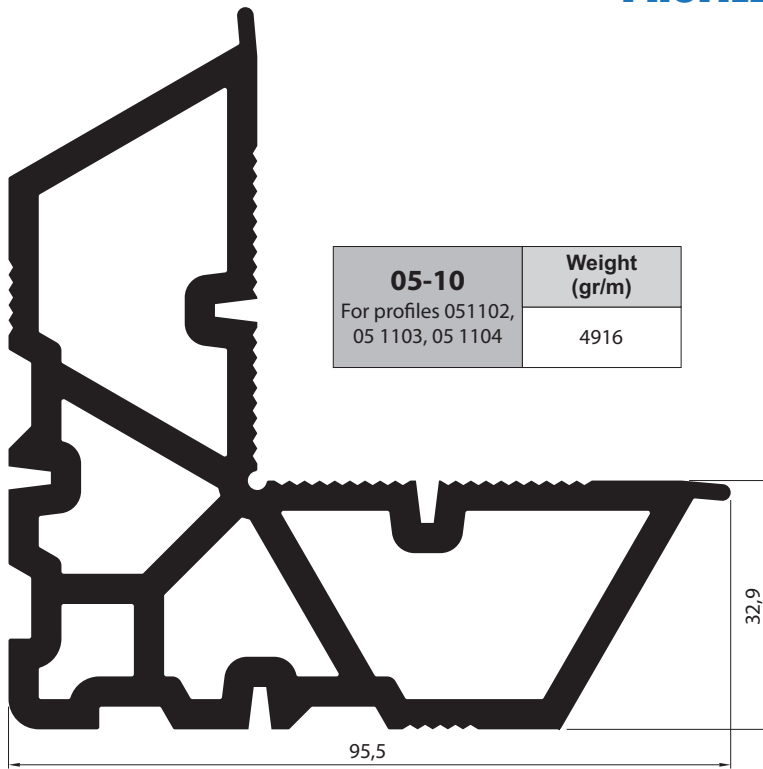
## PROFILES



**PROFILES**



**PROFILES**



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# **WINDOWS**

**ASPECT SECTIONS**

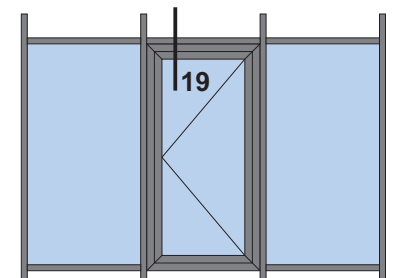
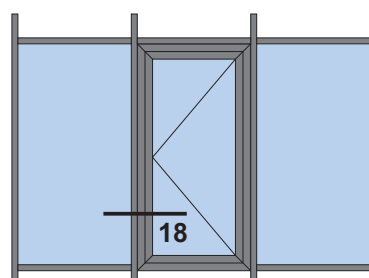
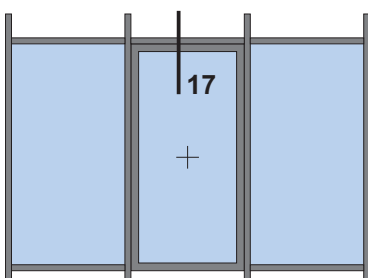
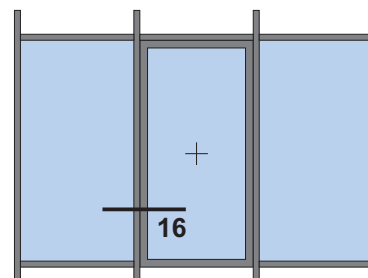
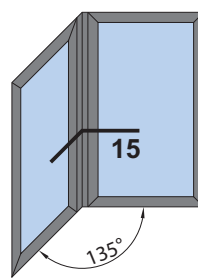
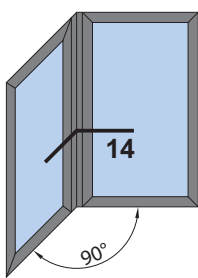
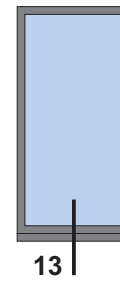
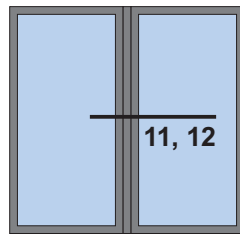
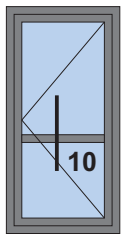
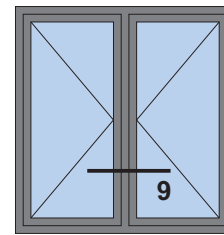
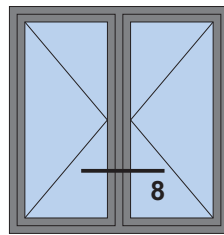
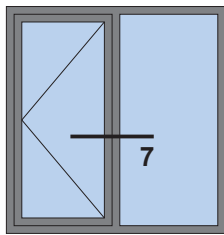
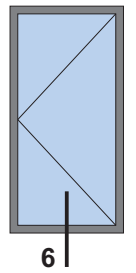
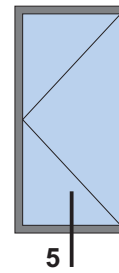
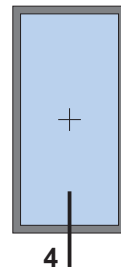
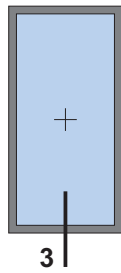
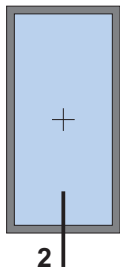
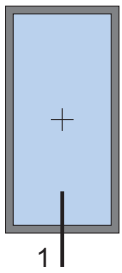
**WINDOWS SECTIONS**

**SECTIONS WITH BOND DETAILS**

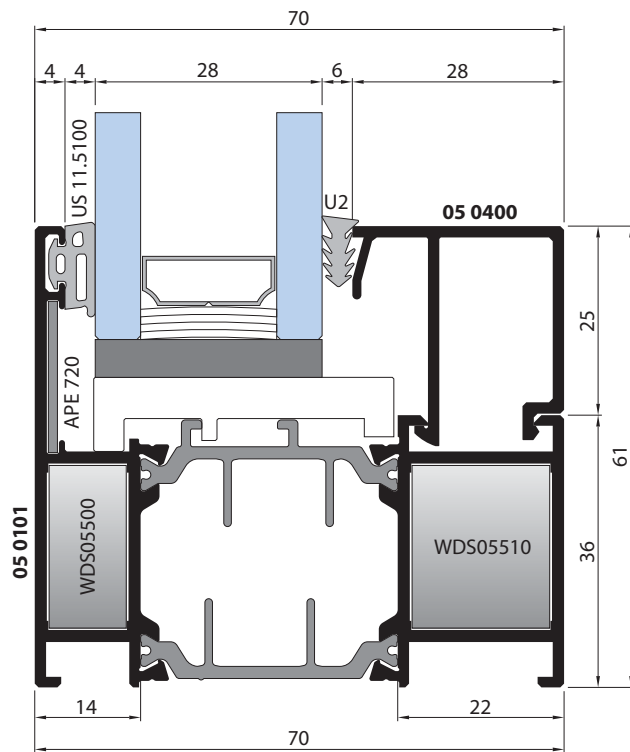
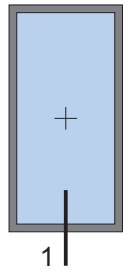
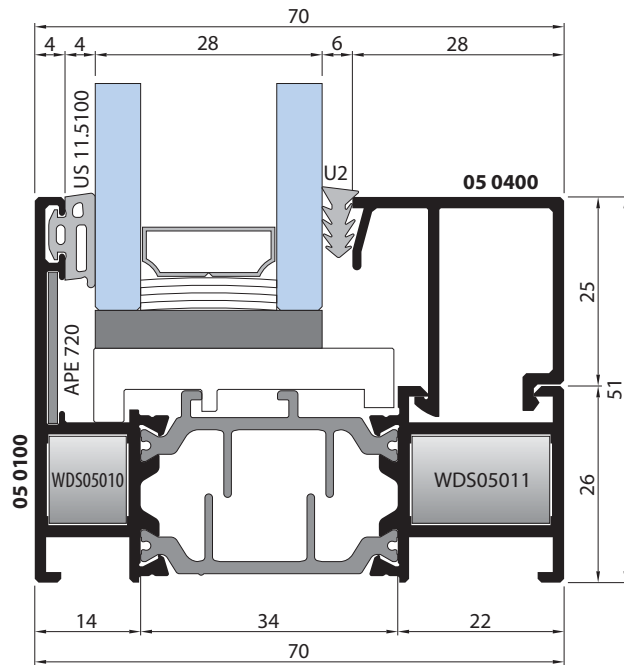
**GLAZING OPTIONS**

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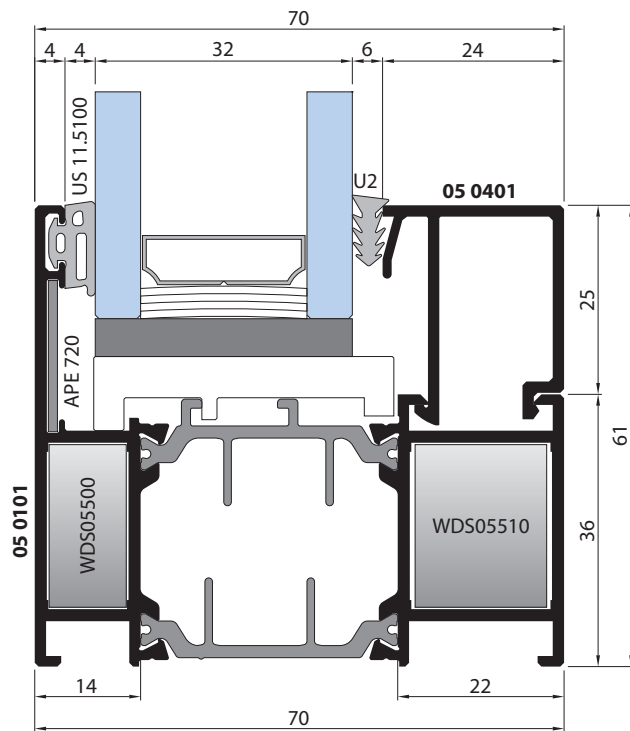
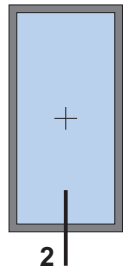
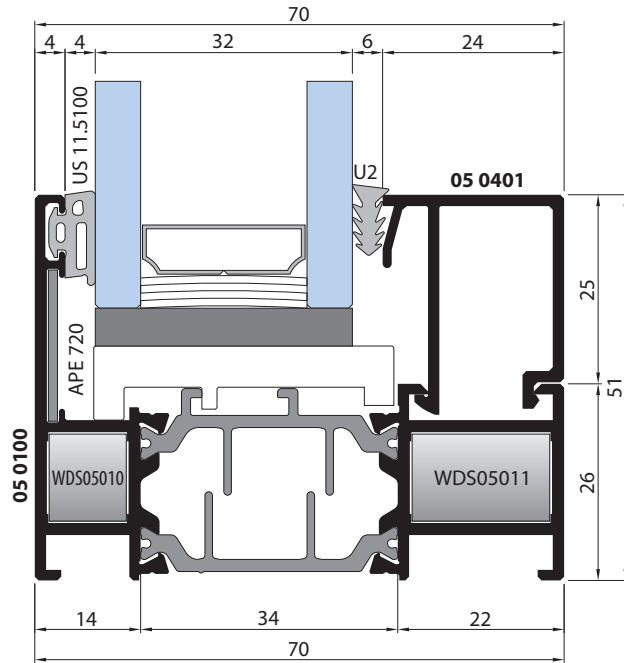
**ASPECT SECTIONS**



## WINDOWS SECTIONS

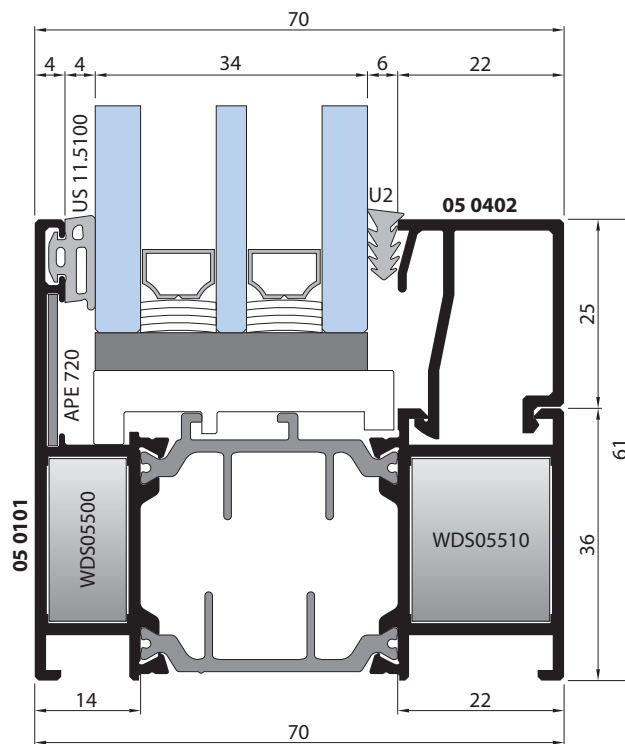
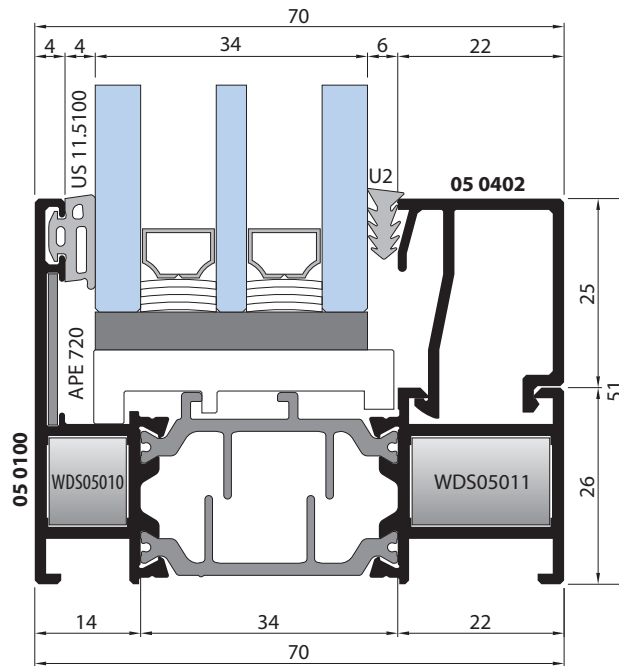
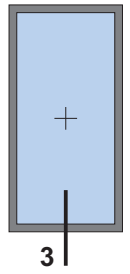


## WINDOWS SECTIONS

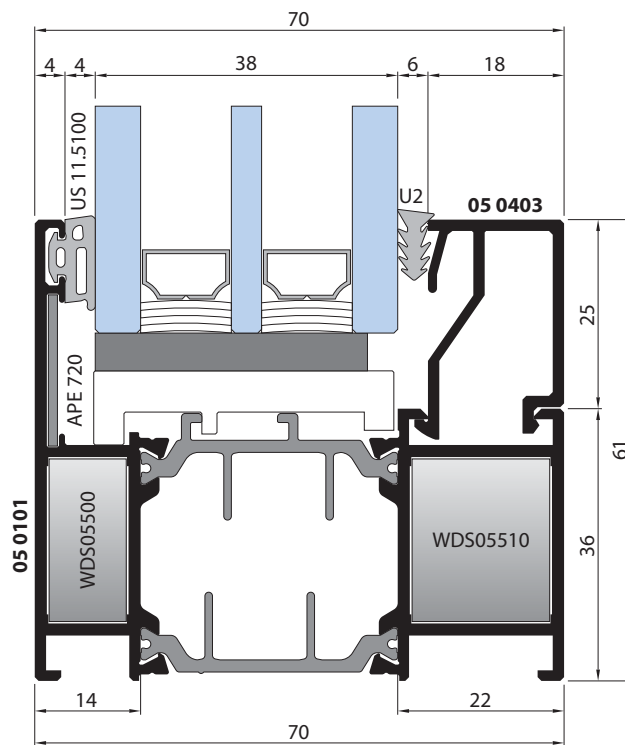
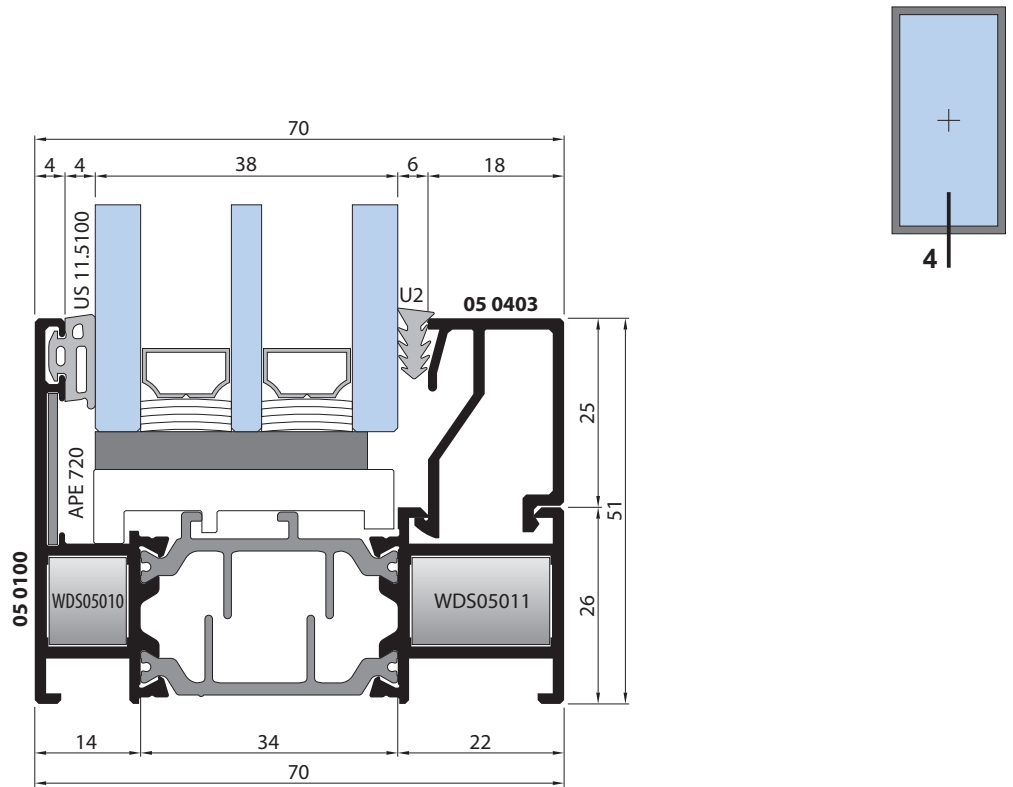




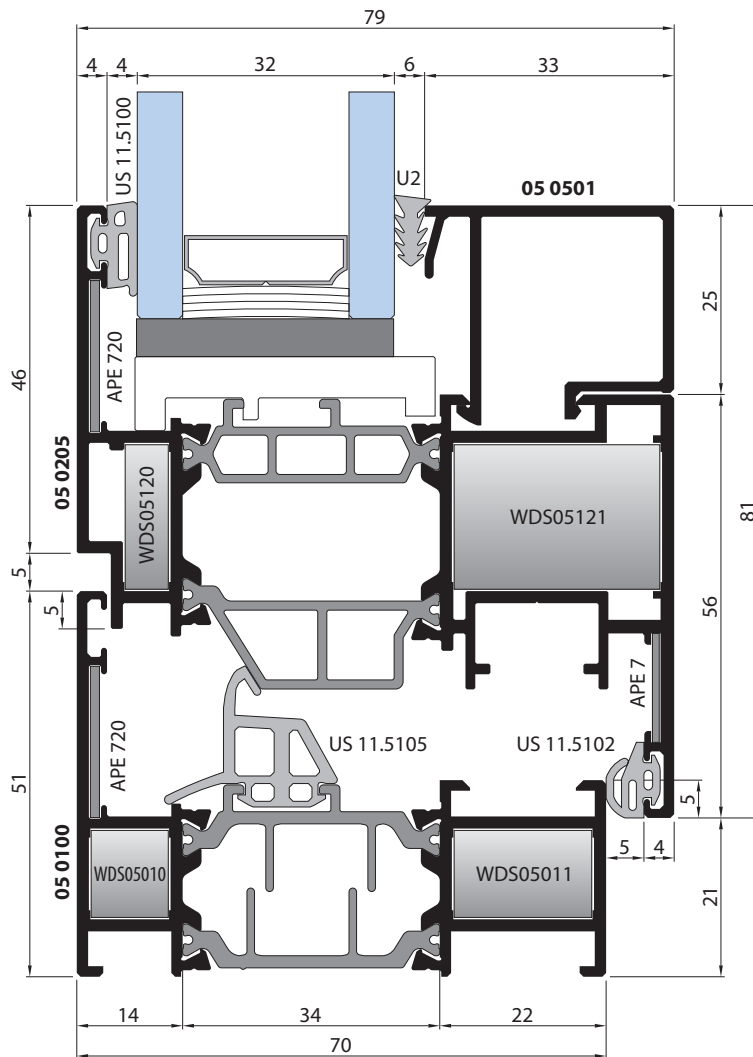
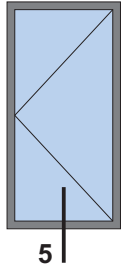
## WINDOWS SECTIONS



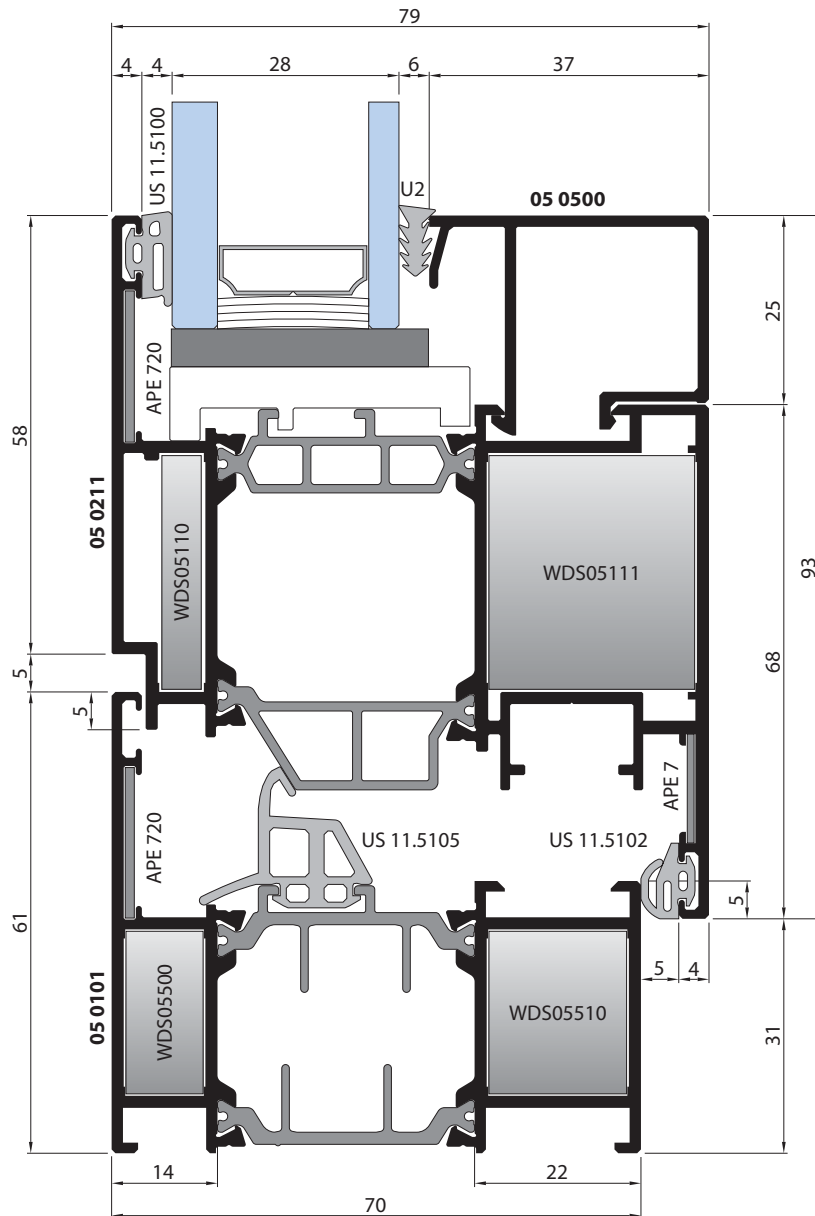
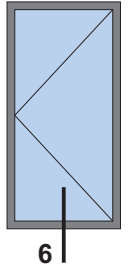
## WINDOWS SECTIONS



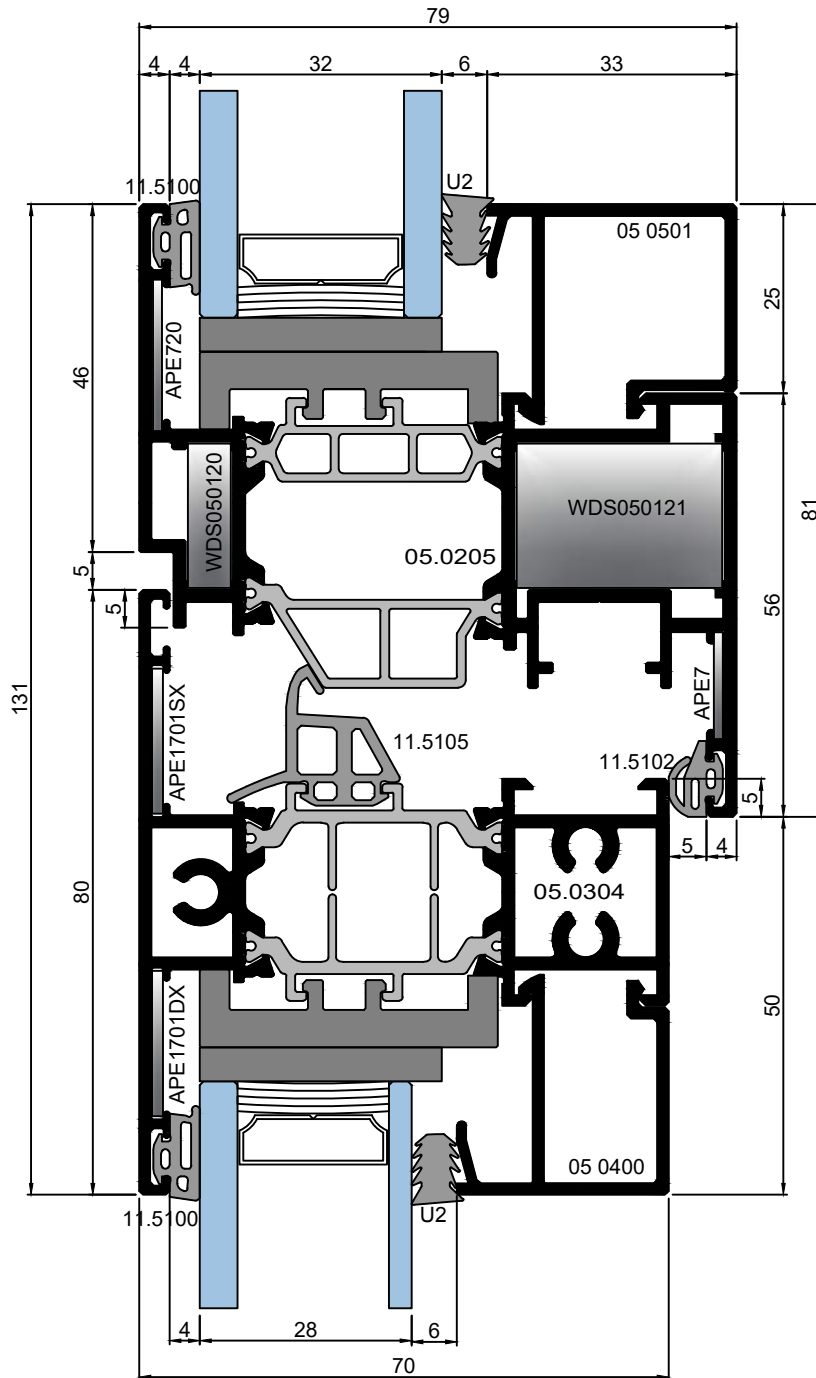
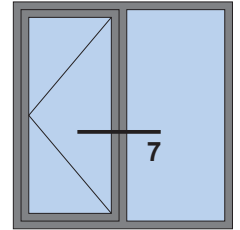
## WINDOWS SECTIONS



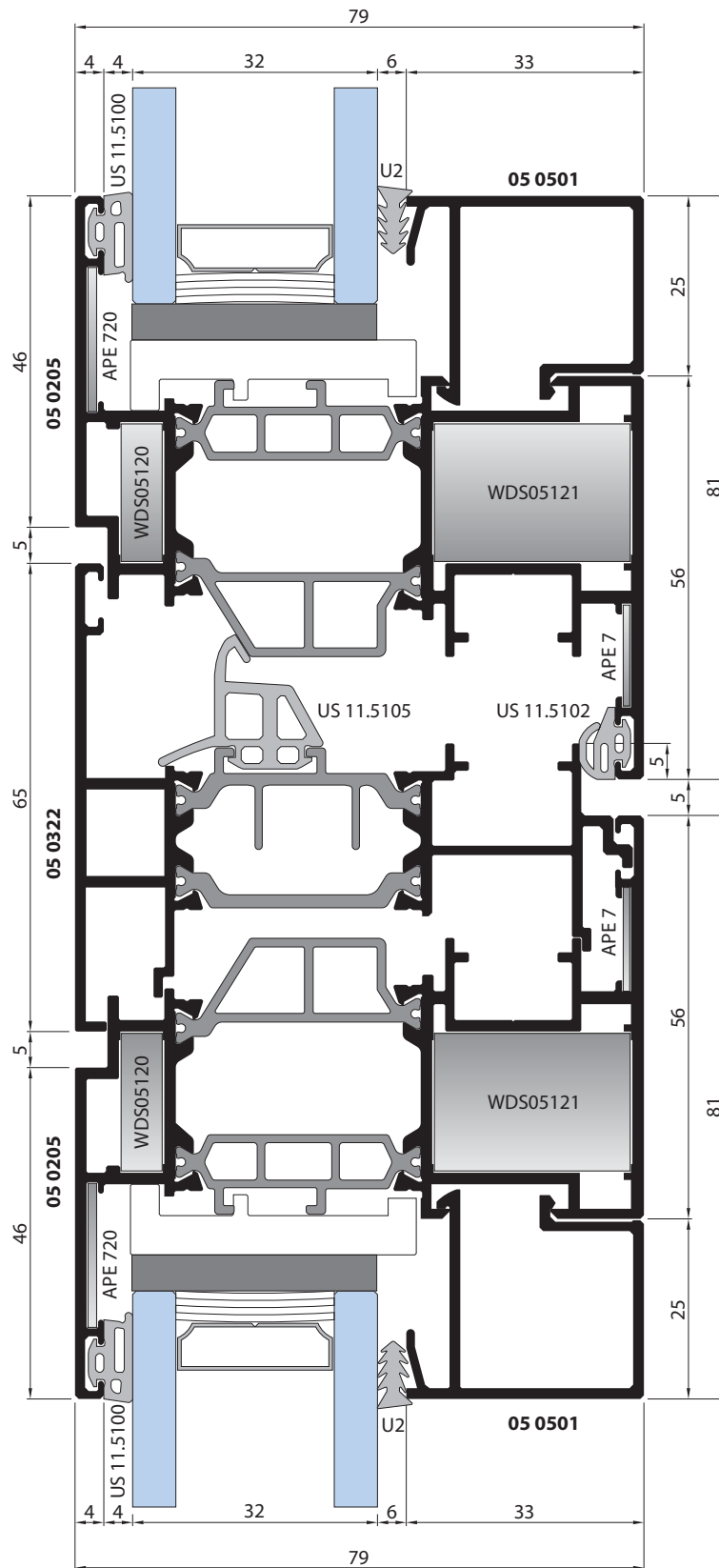
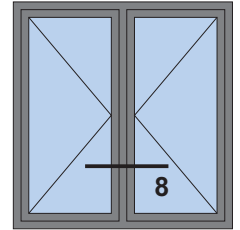
## WINDOWS SECTIONS



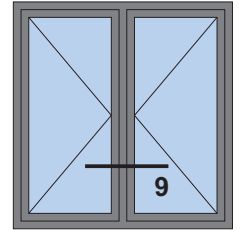
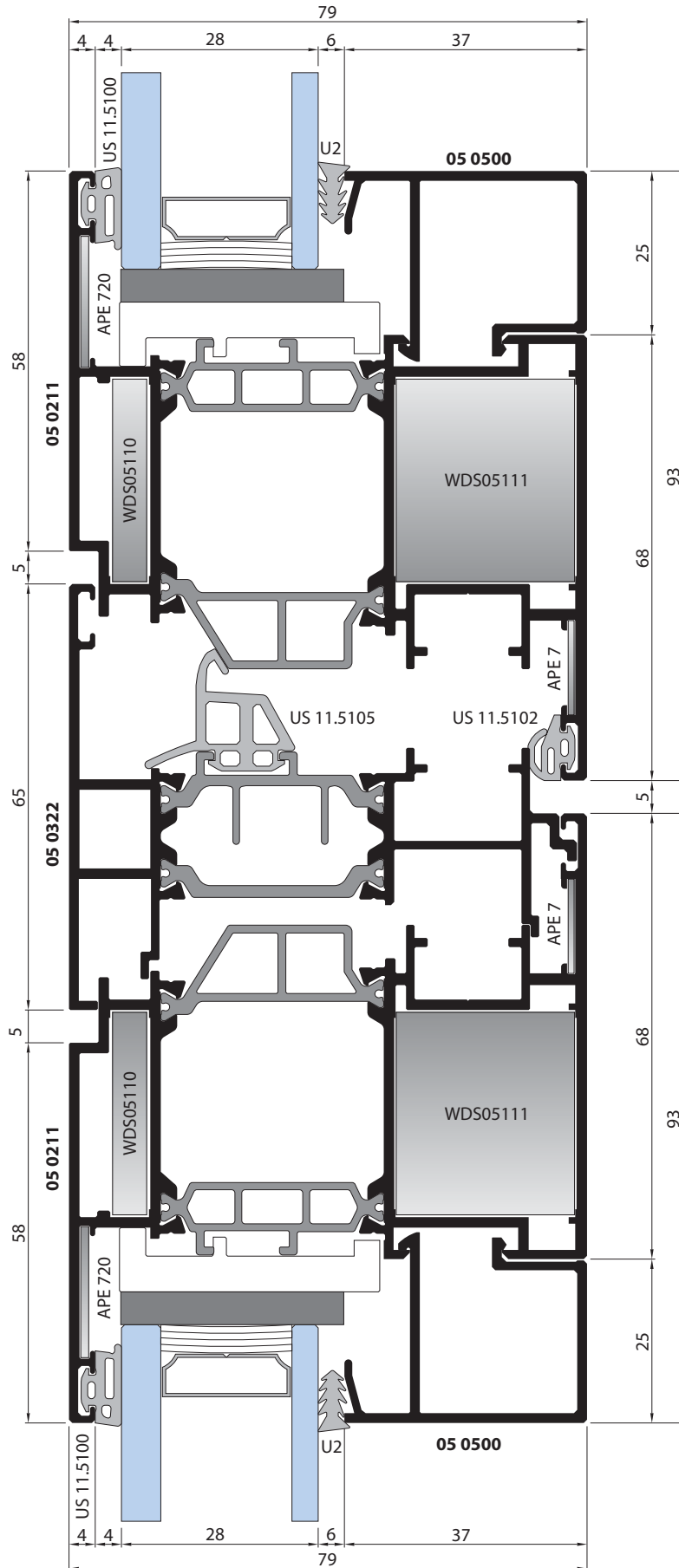
## WINDOWS SECTIONS



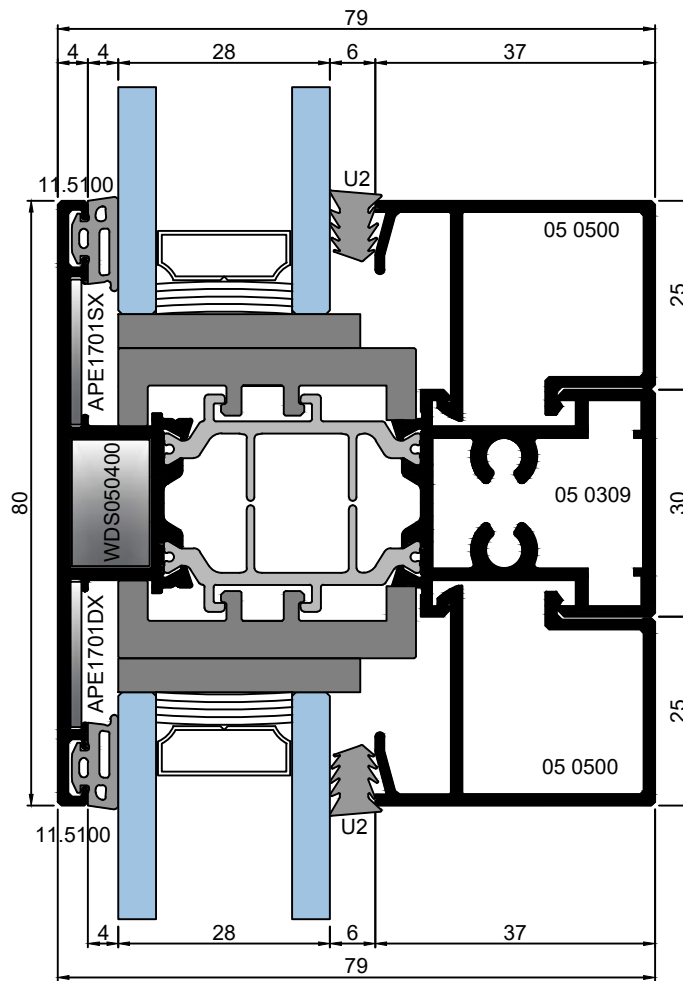
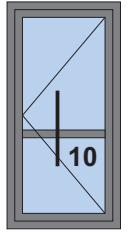
## WINDOWS SECTIONS



WINDOWS SECTIONS

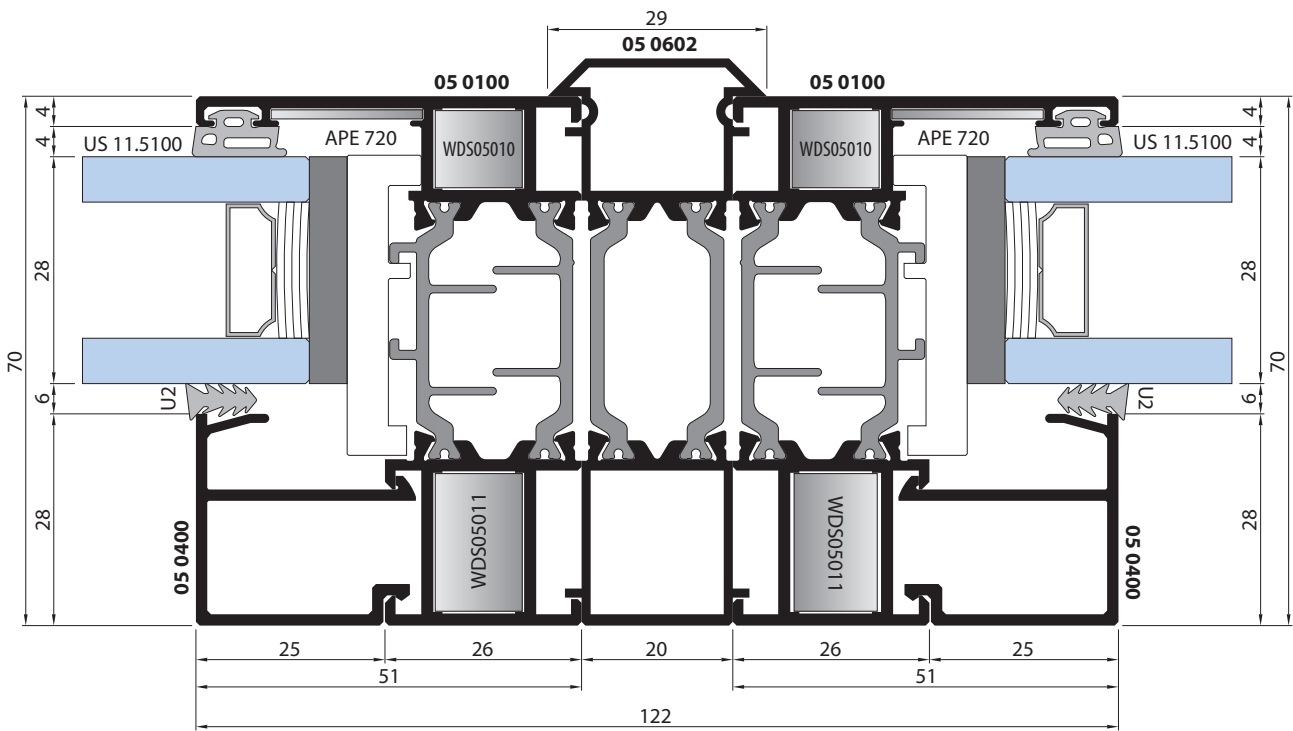
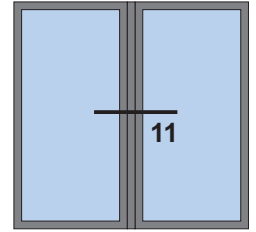


## WINDOWS SECTIONS

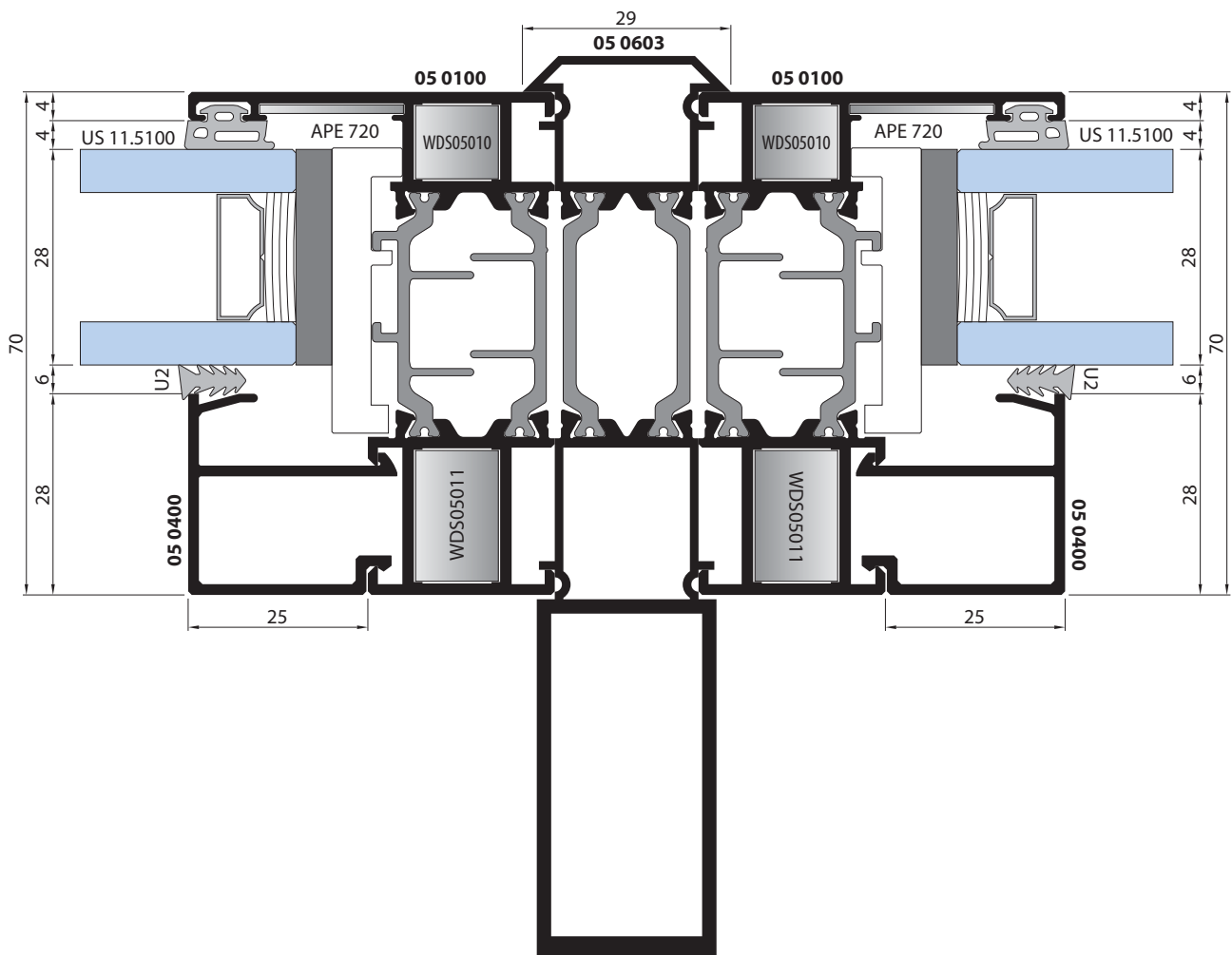
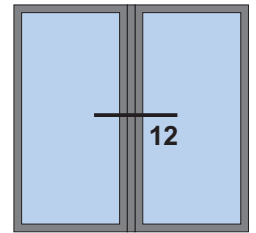




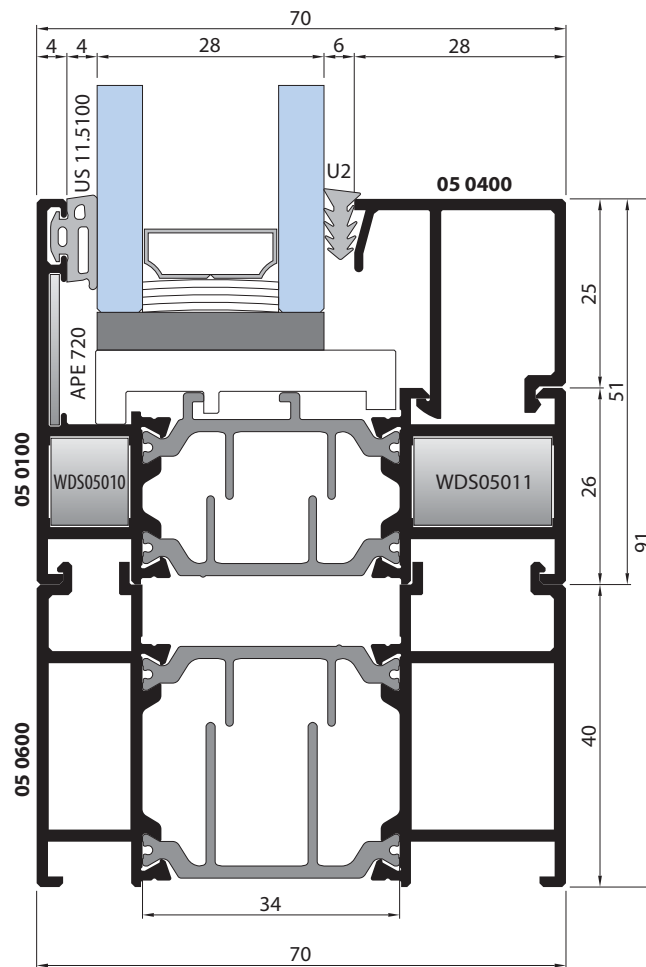
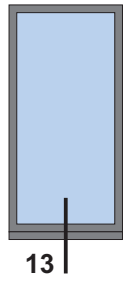
**WINDOWS SECTIONS**



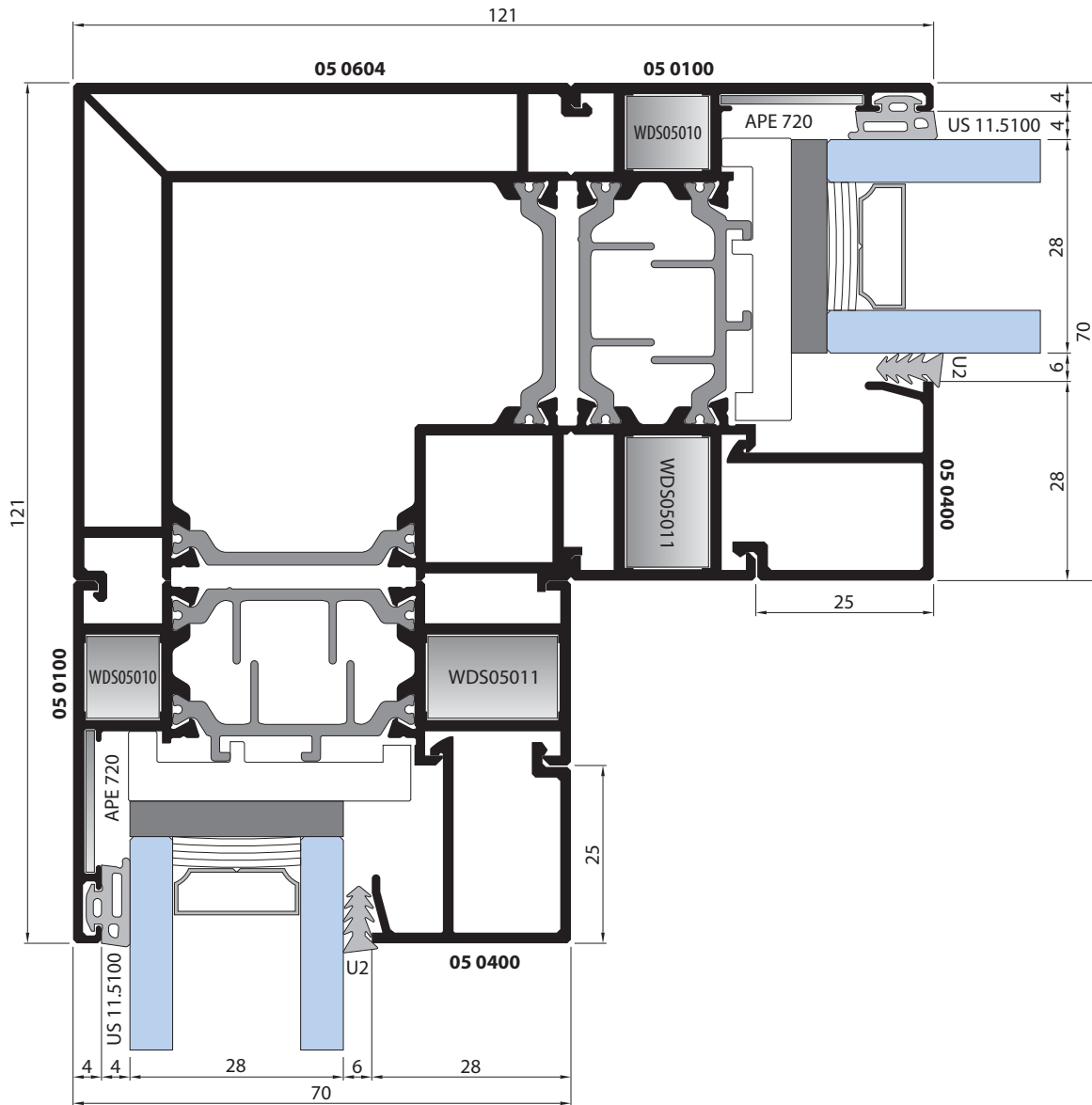
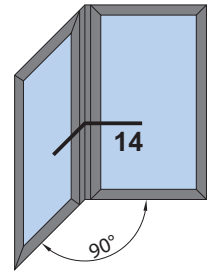
## WINDOWS SECTIONS



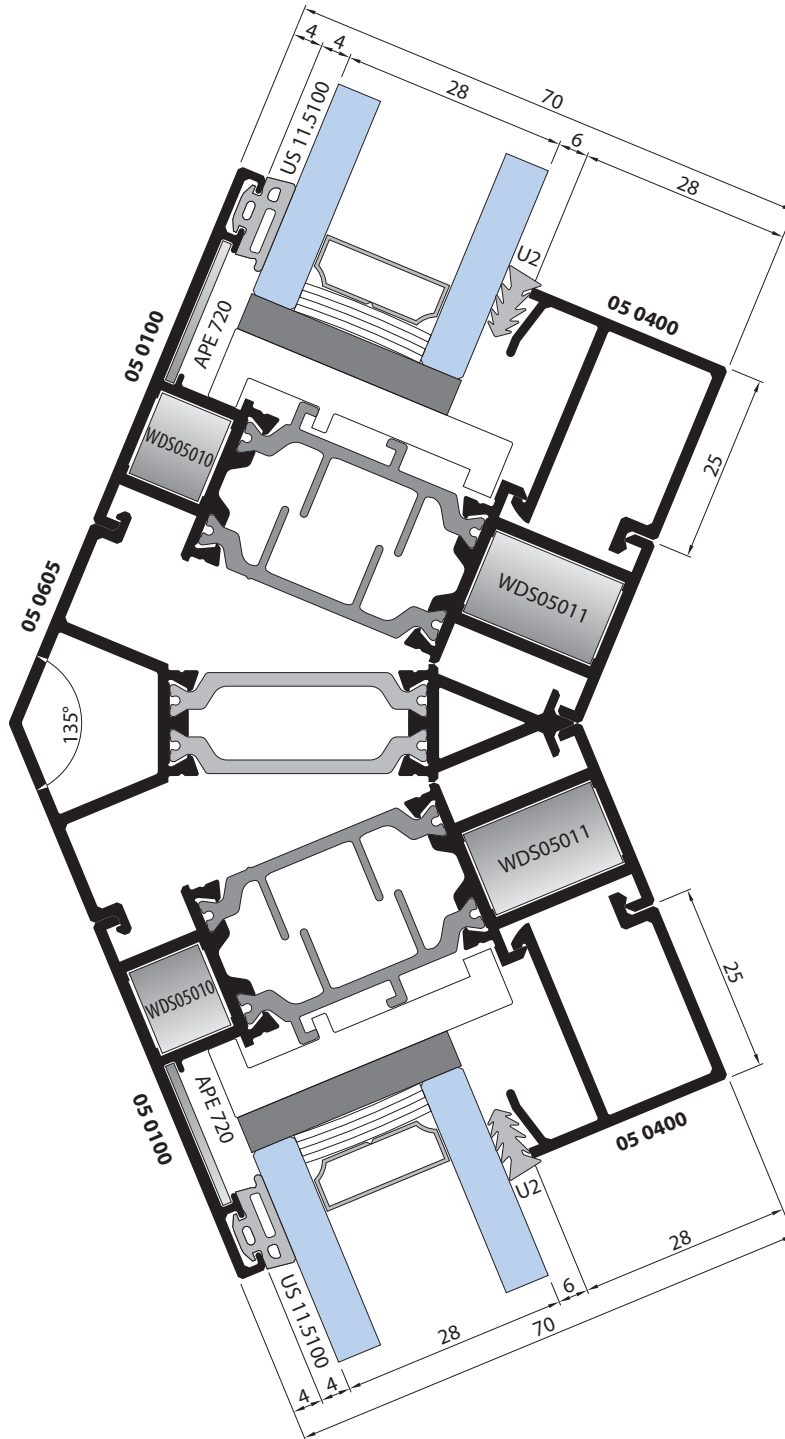
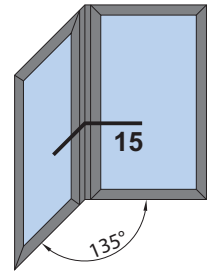
## WINDOWS SECTIONS



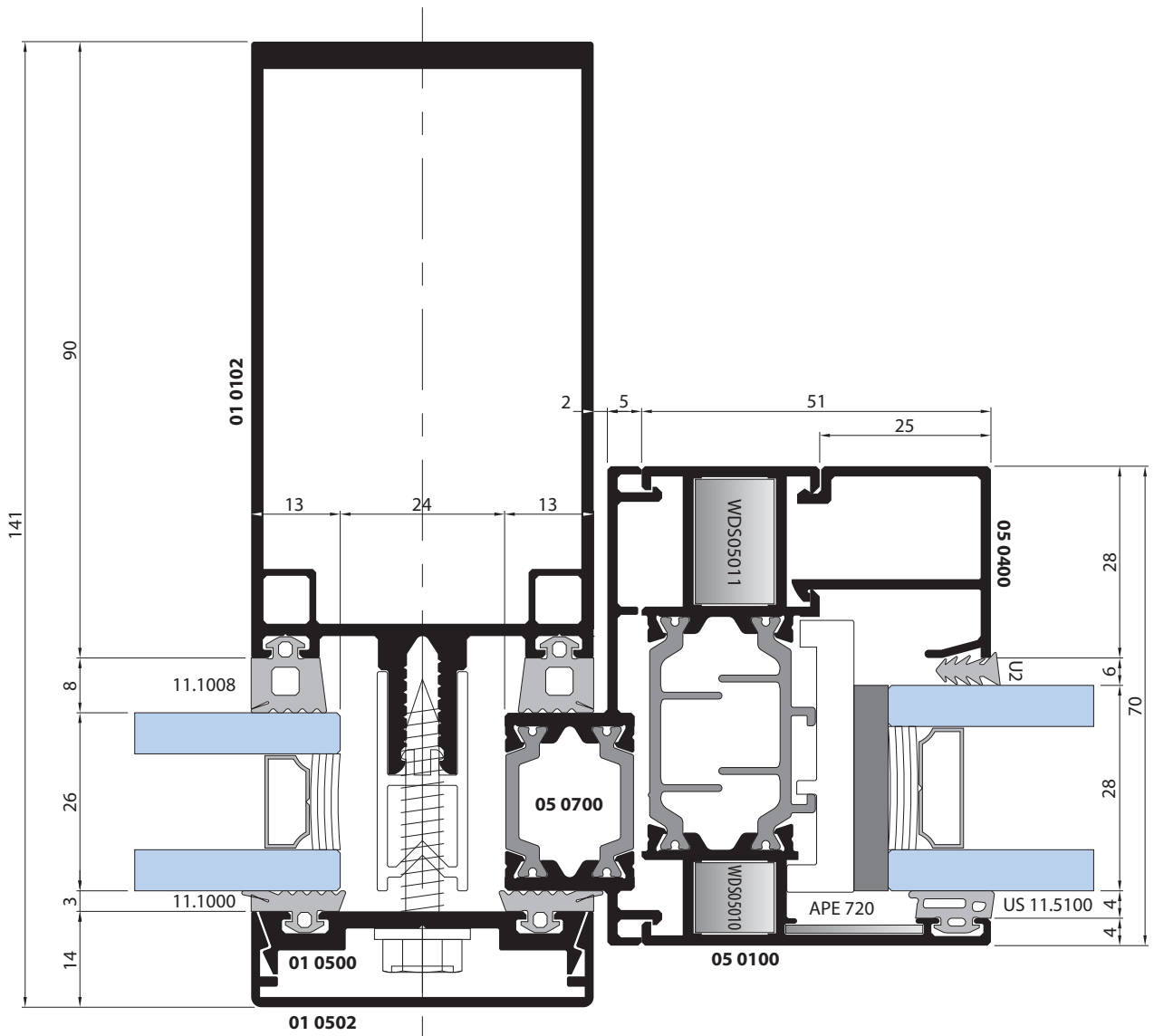
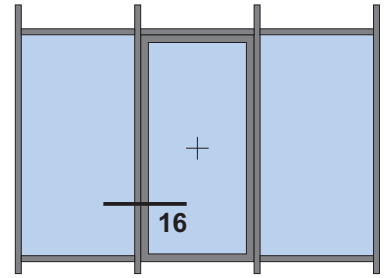
## WINDOWS SECTIONS



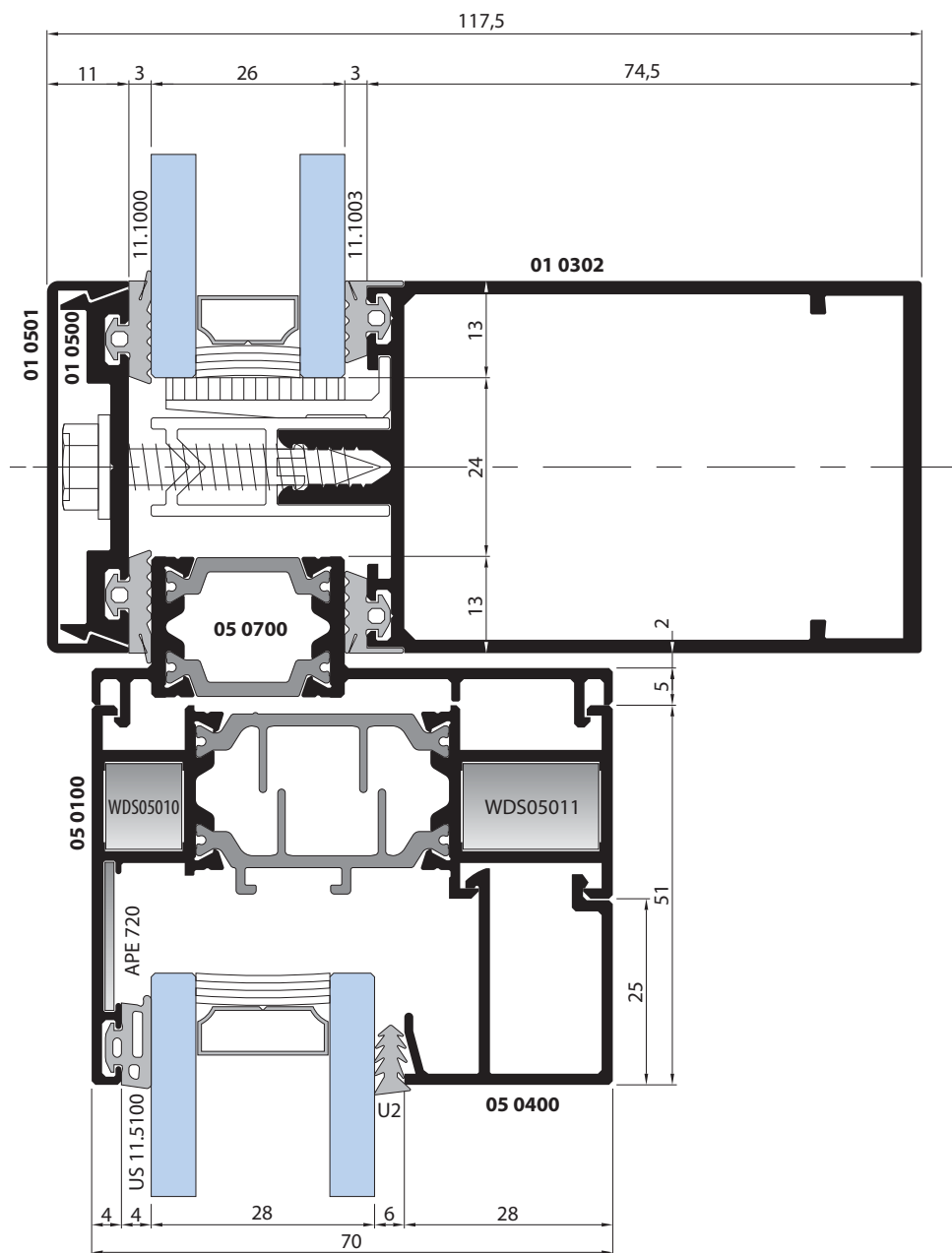
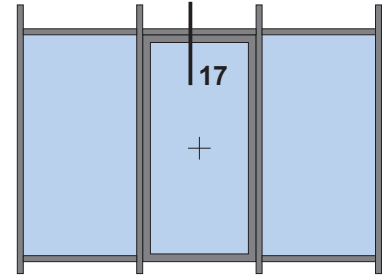
**WINDOWS SECTIONS**



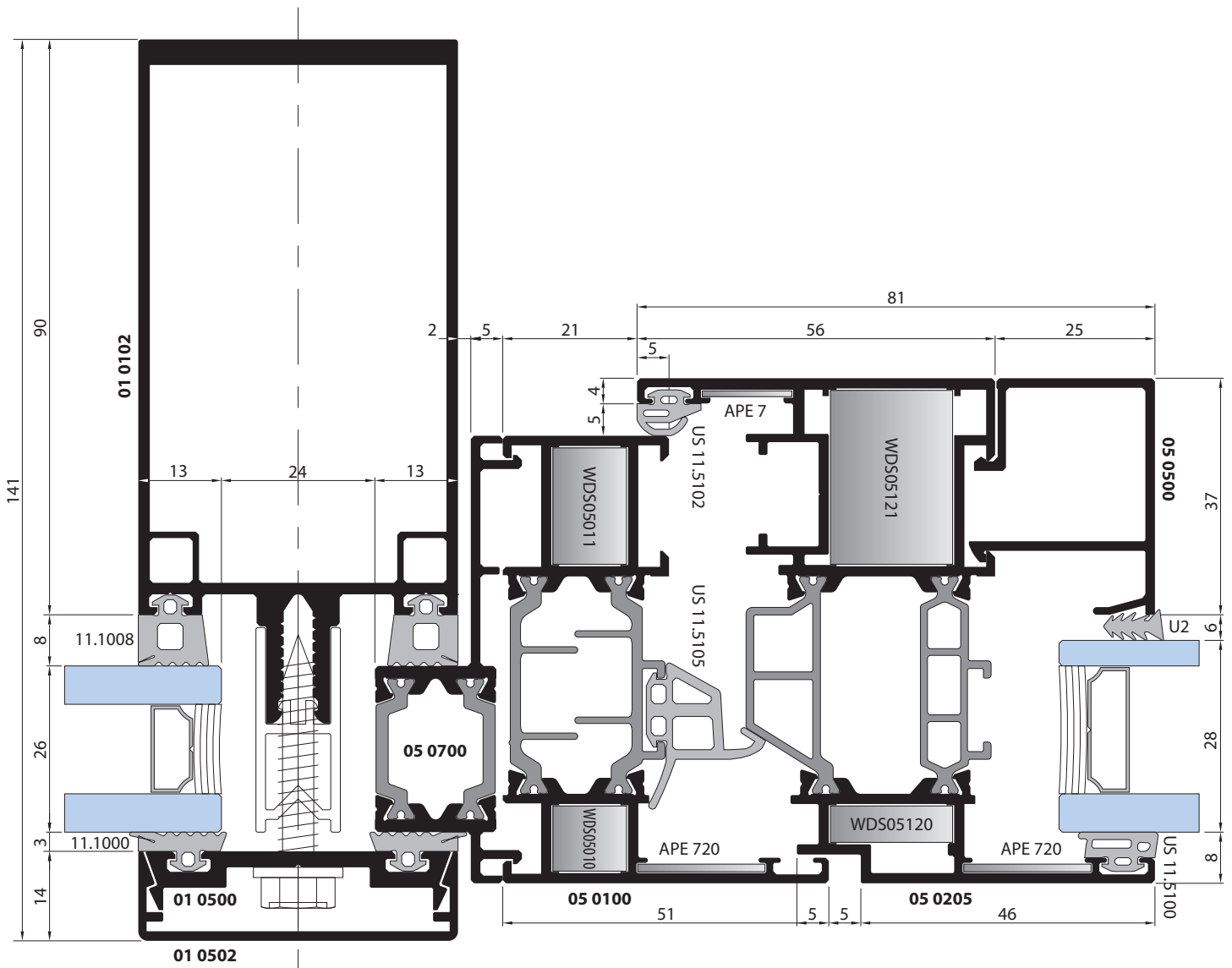
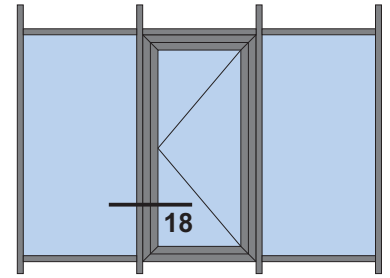
## WINDOWS SECTIONS



WINDOWS SECTIONS

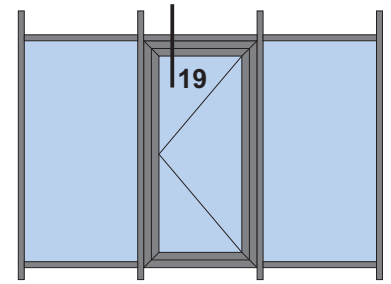
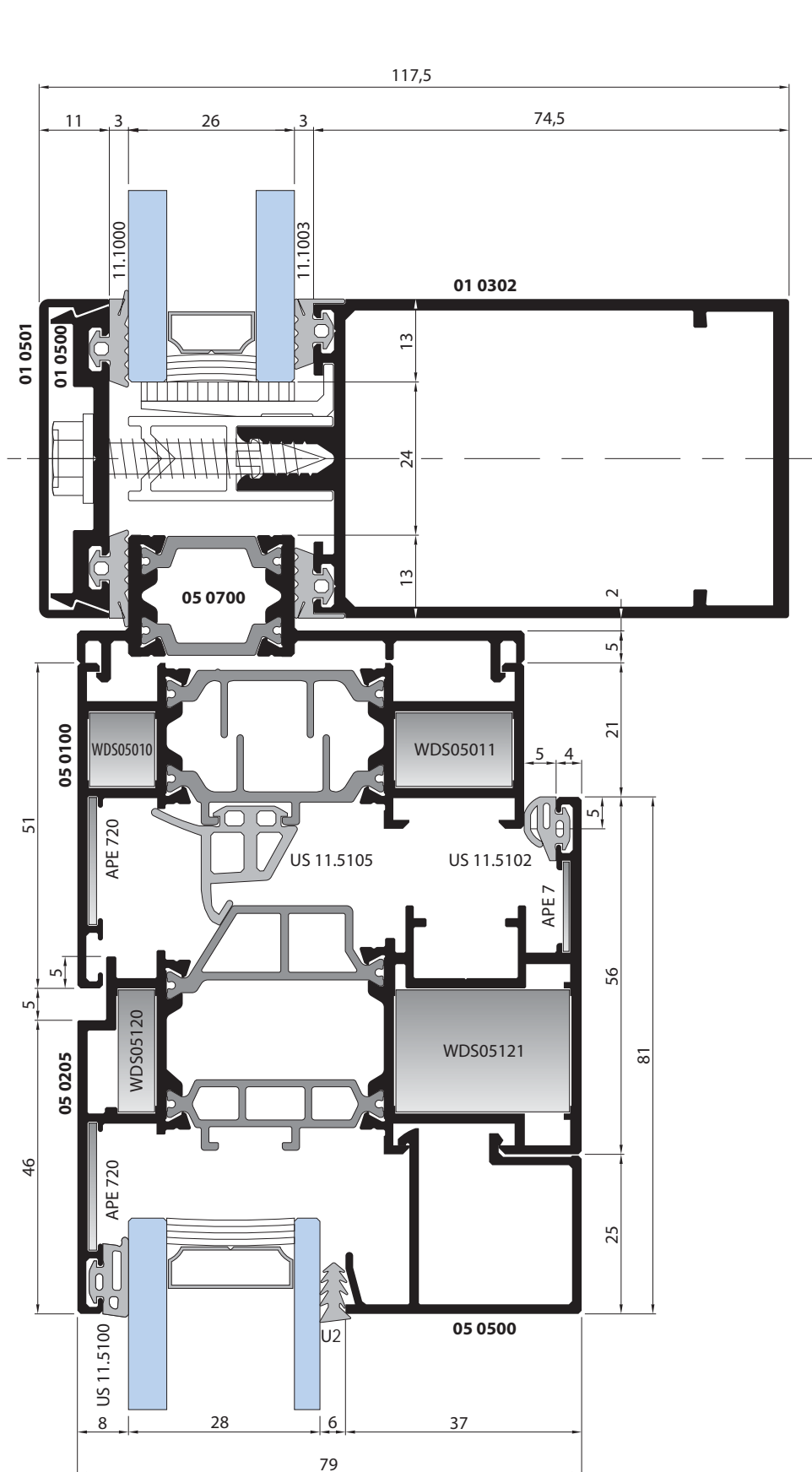


## WINDOWS SECTIONS

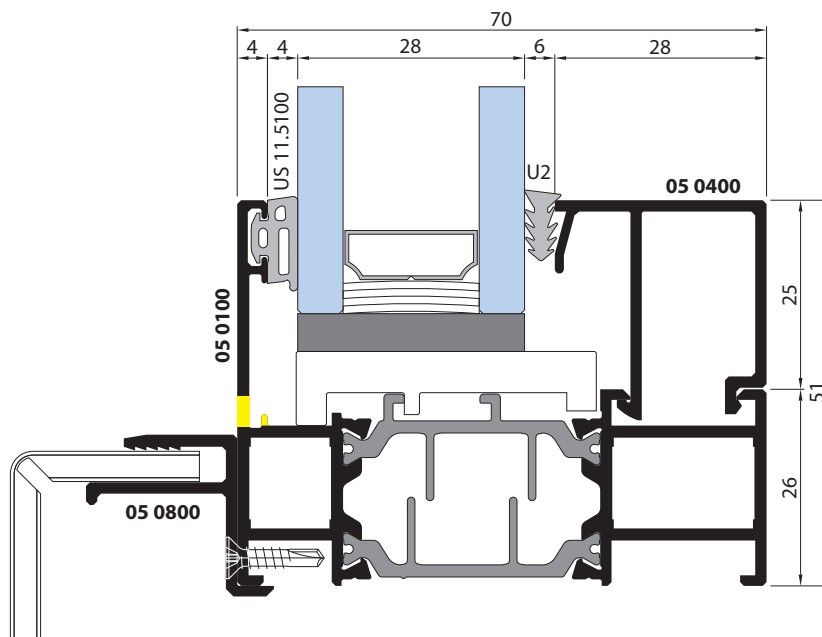
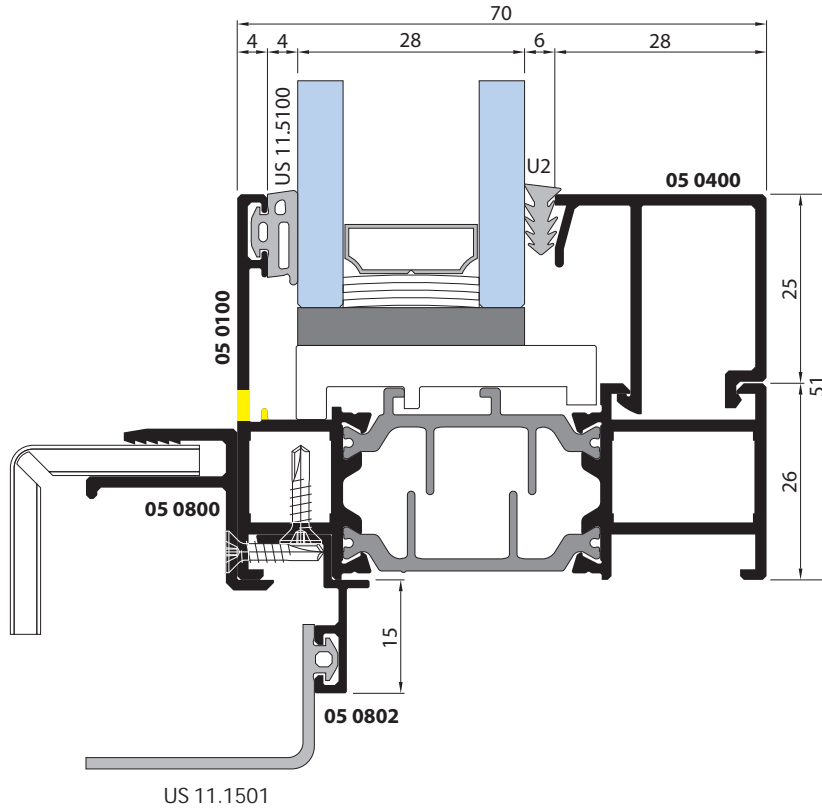




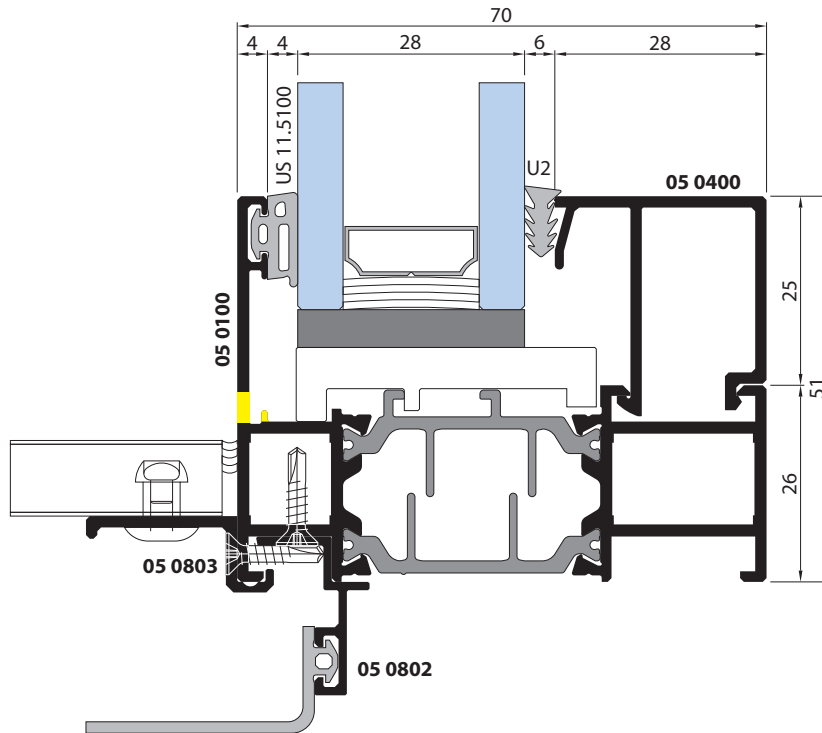
## WINDOWS SECTIONS



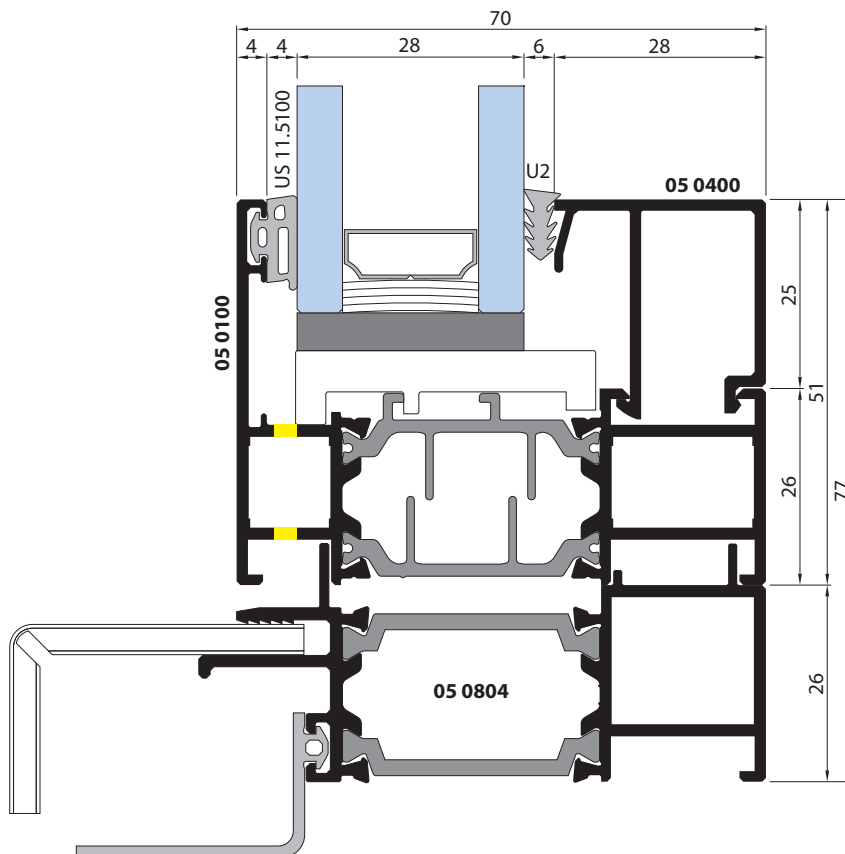
## SECTIONS WITH BOND DETAILS



**SECTIONS WITH BOND DETAILS**

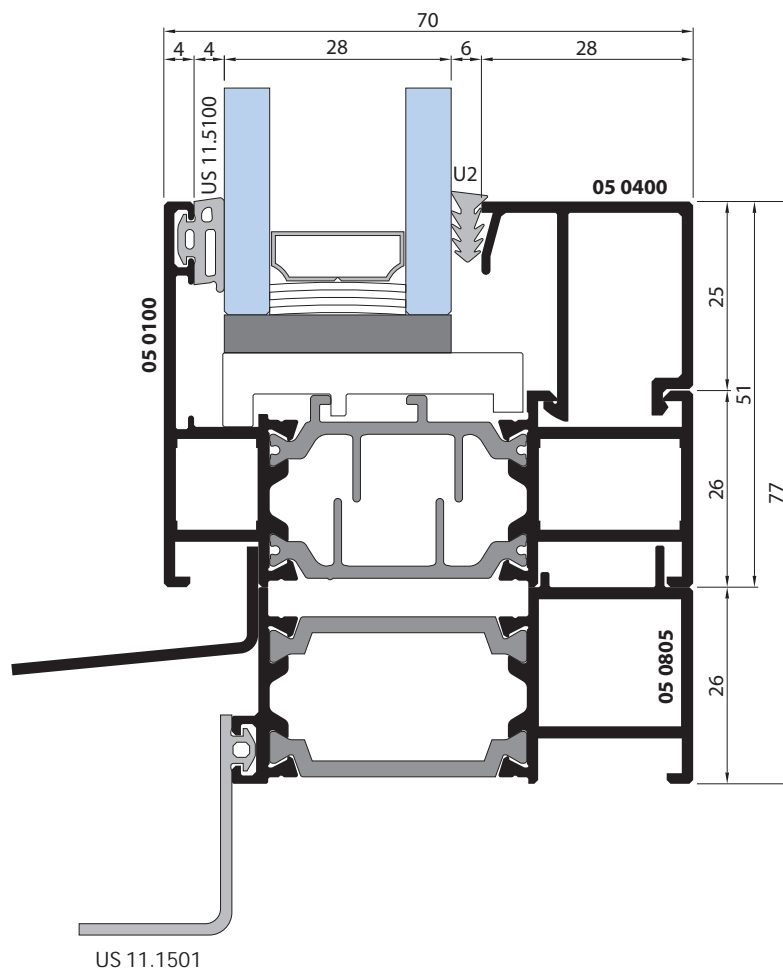


US 11.1501

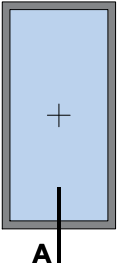
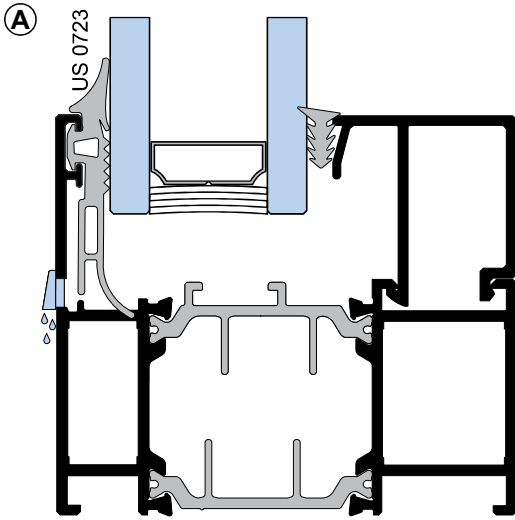


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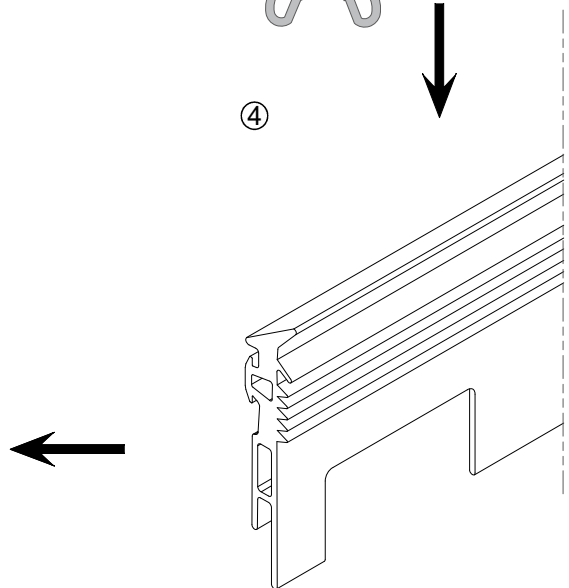
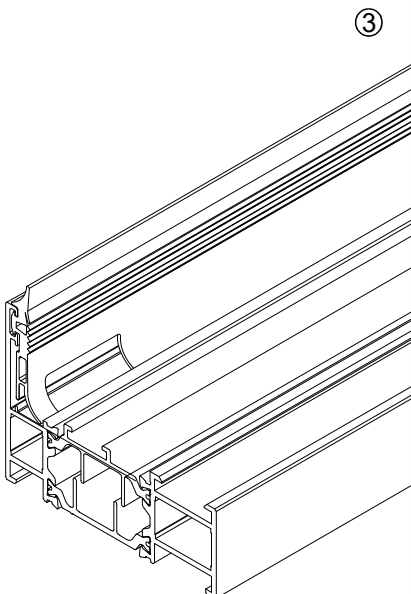
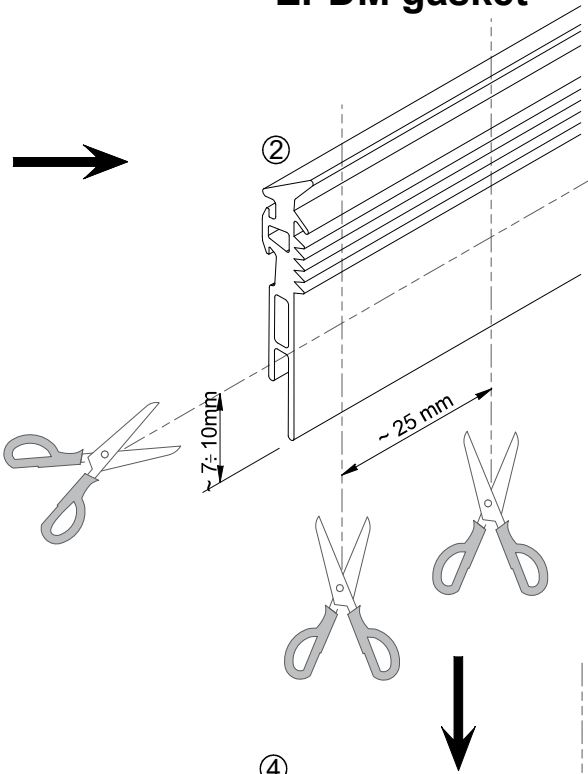
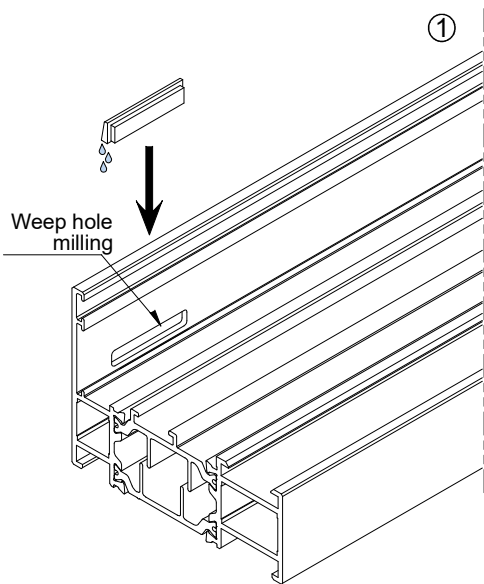
SECTIONS WITH BOND DETAILS



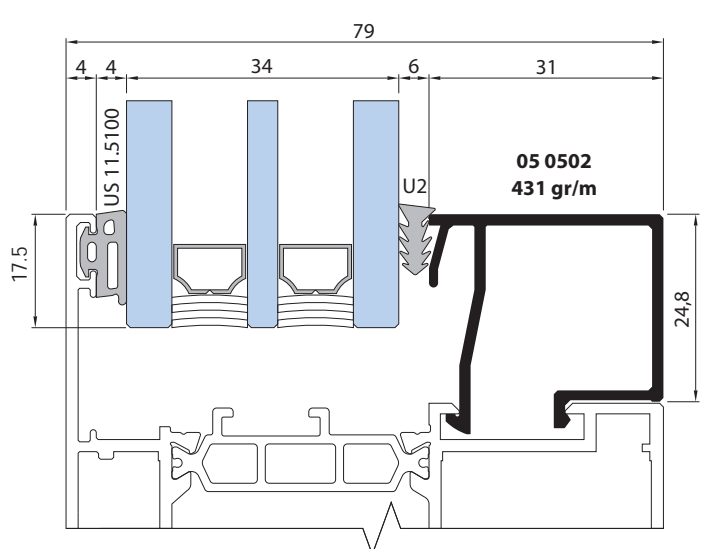
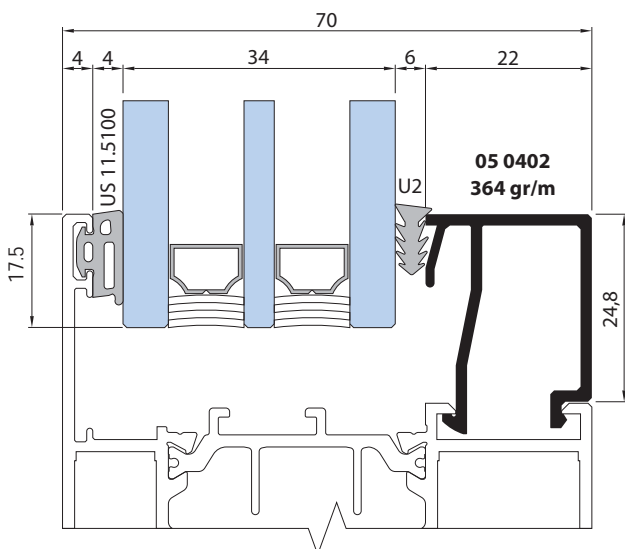
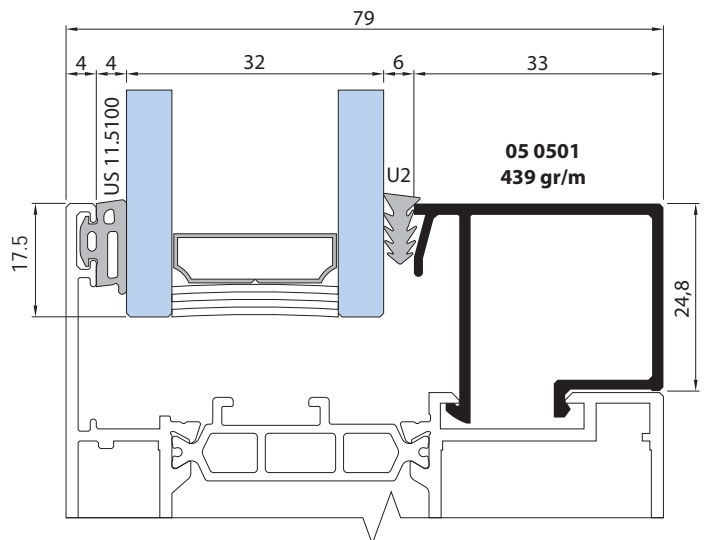
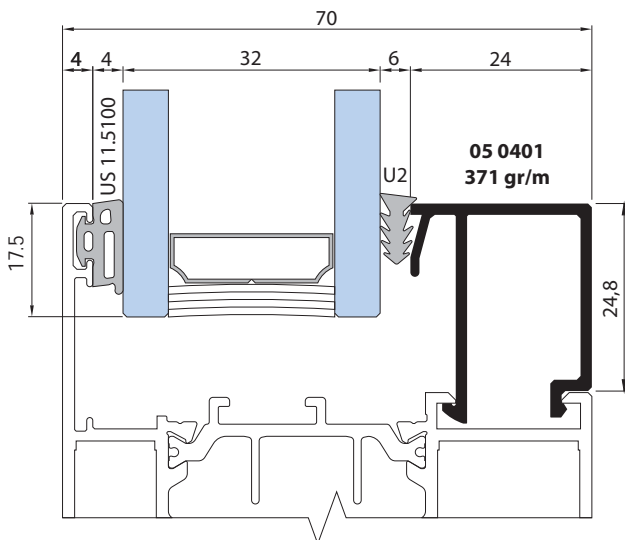
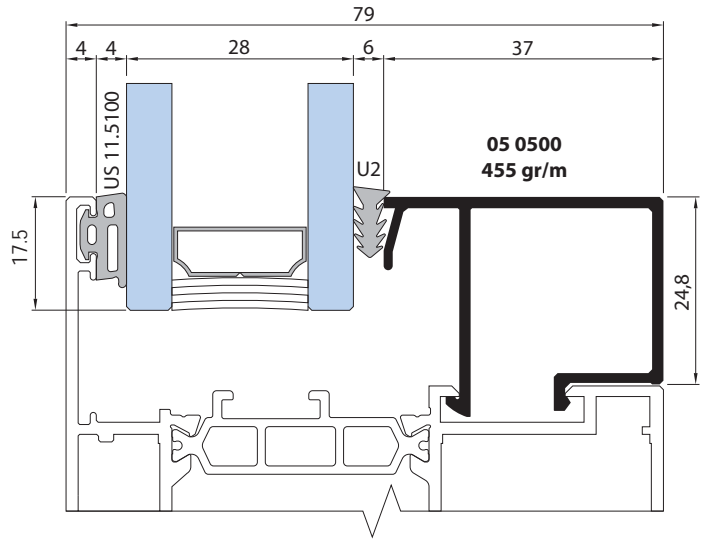
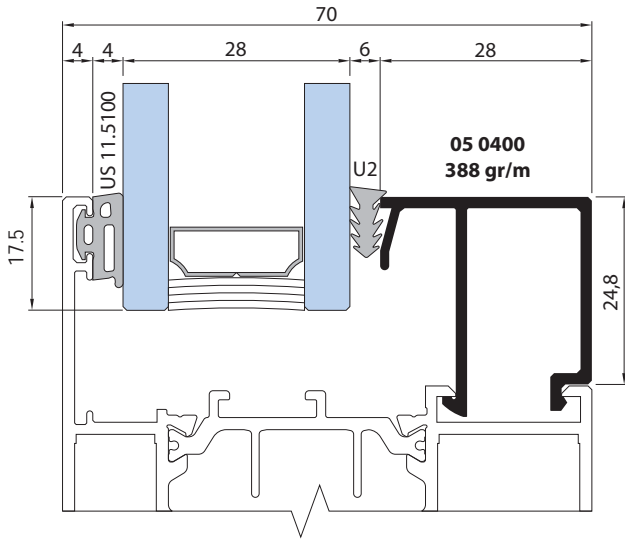
## DRAINAGE



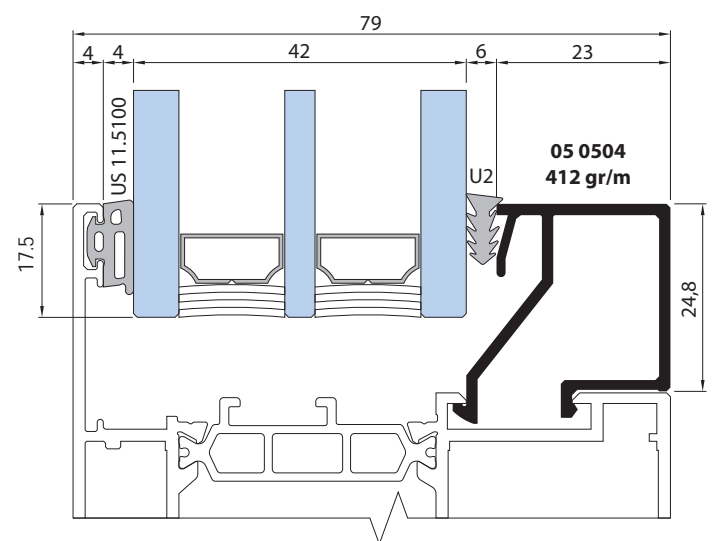
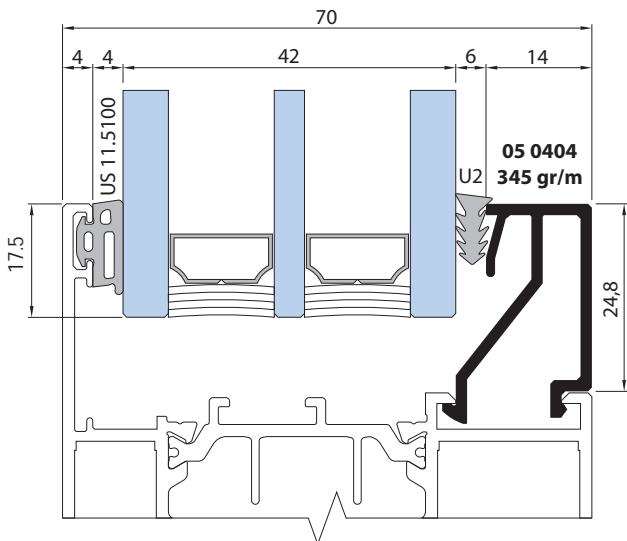
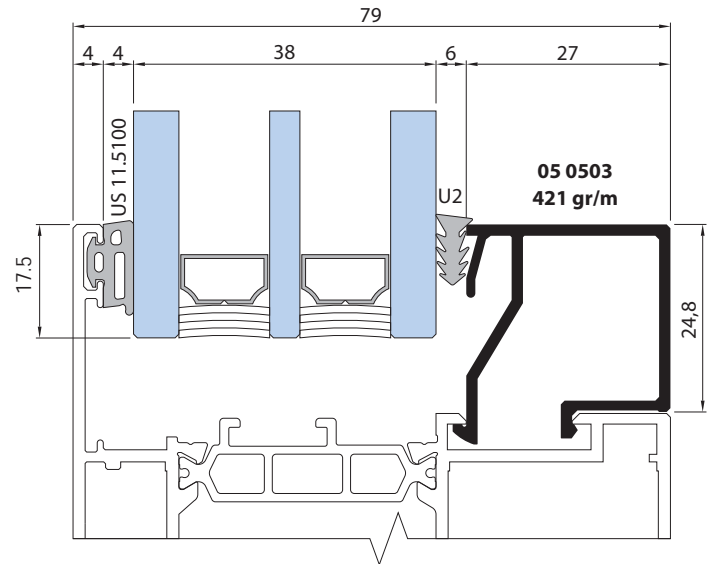
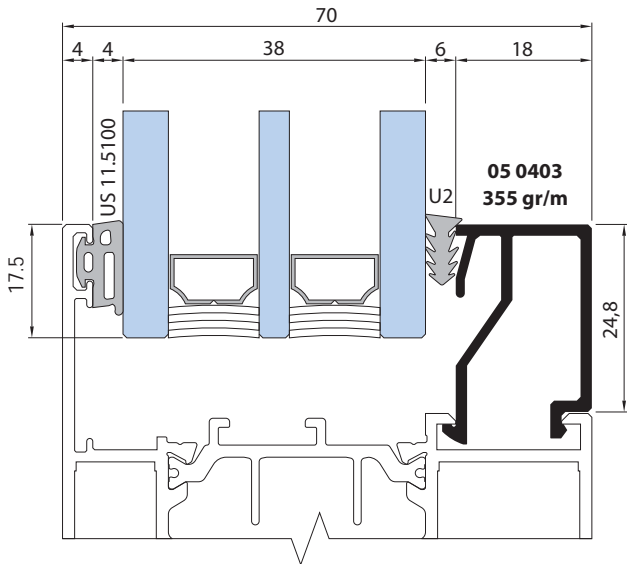
Pattern of cutting  
of US 0723  
EPDM gasket



**GLAZING OPTIONS**



**GLAZING OPTIONS**



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# **DOORS**

**ASPECT SECTIONS**

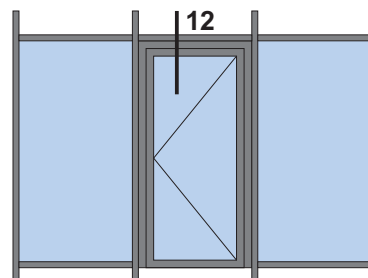
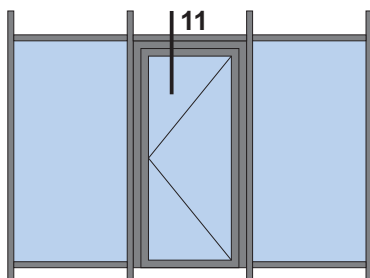
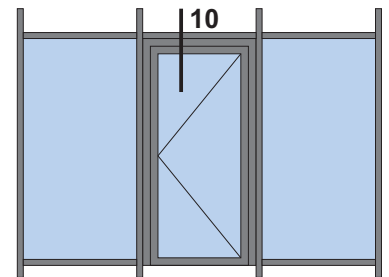
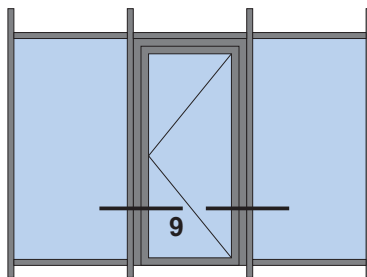
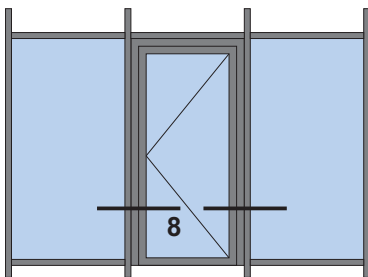
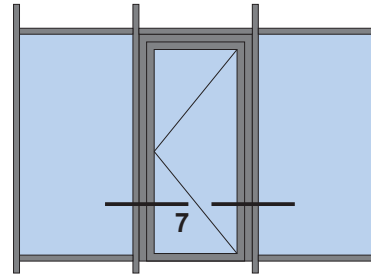
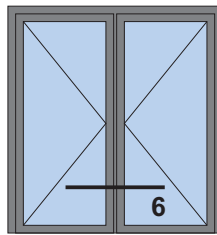
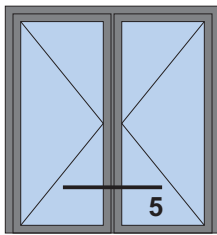
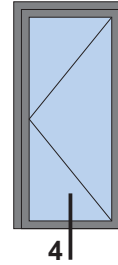
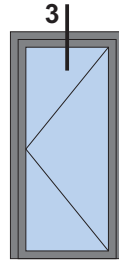
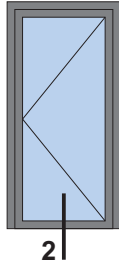
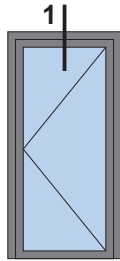
**DOORS SECTIONS**

**GLAZING OPTIONS**

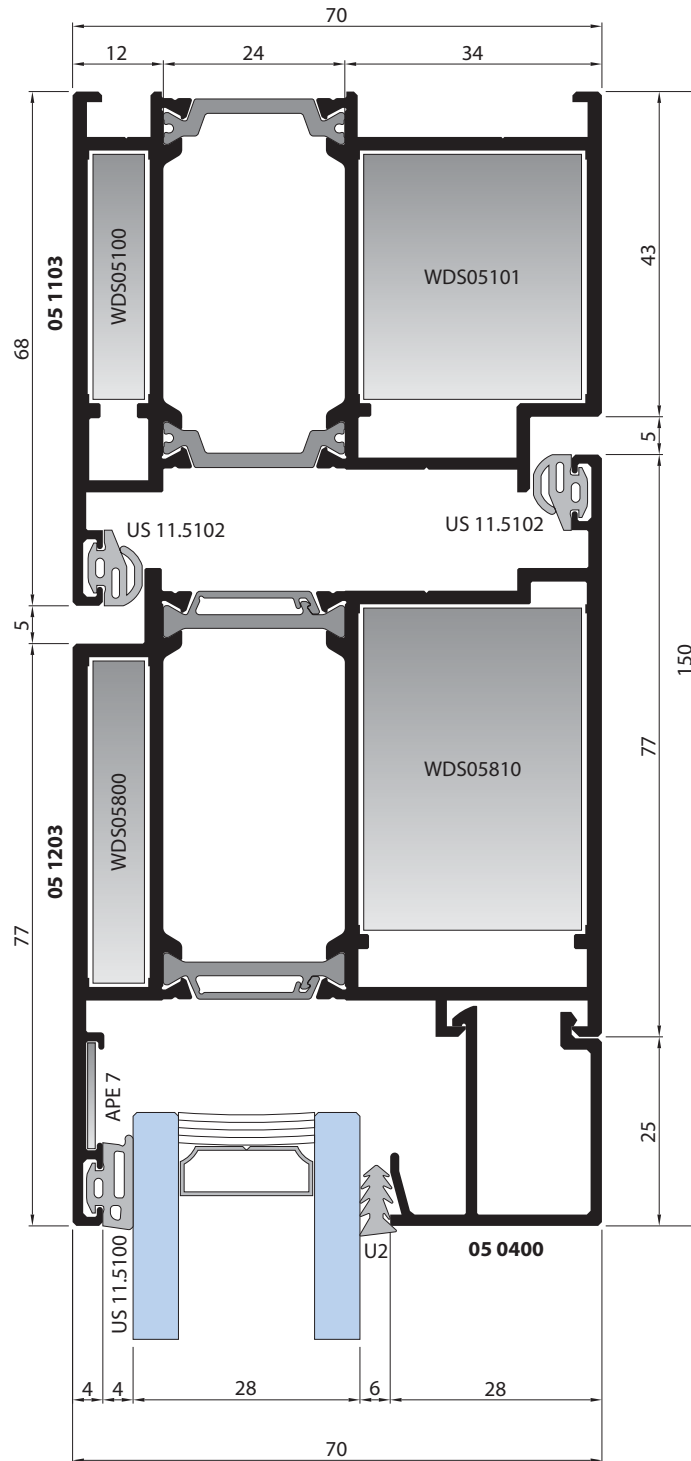
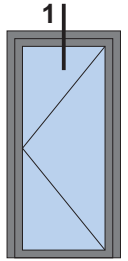
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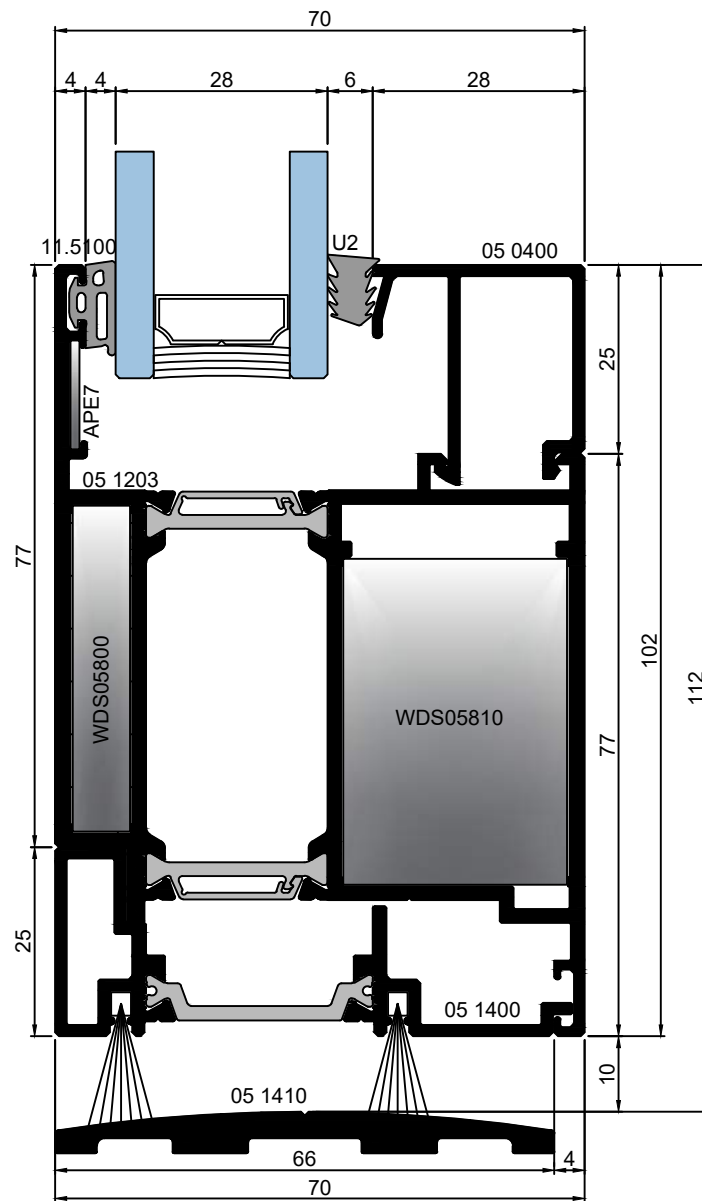
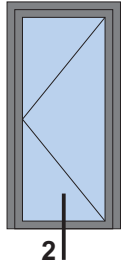
## ASPECT SECTIONS



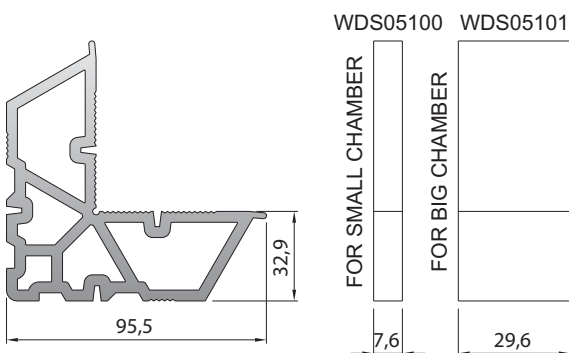
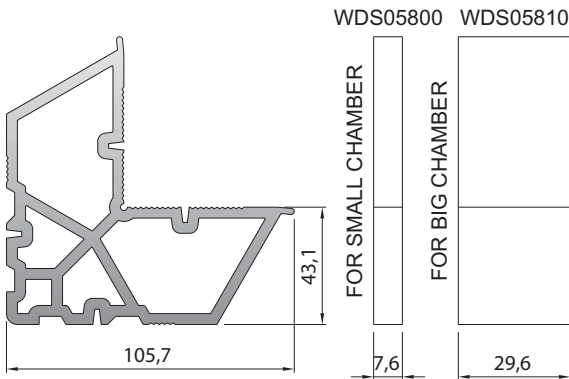
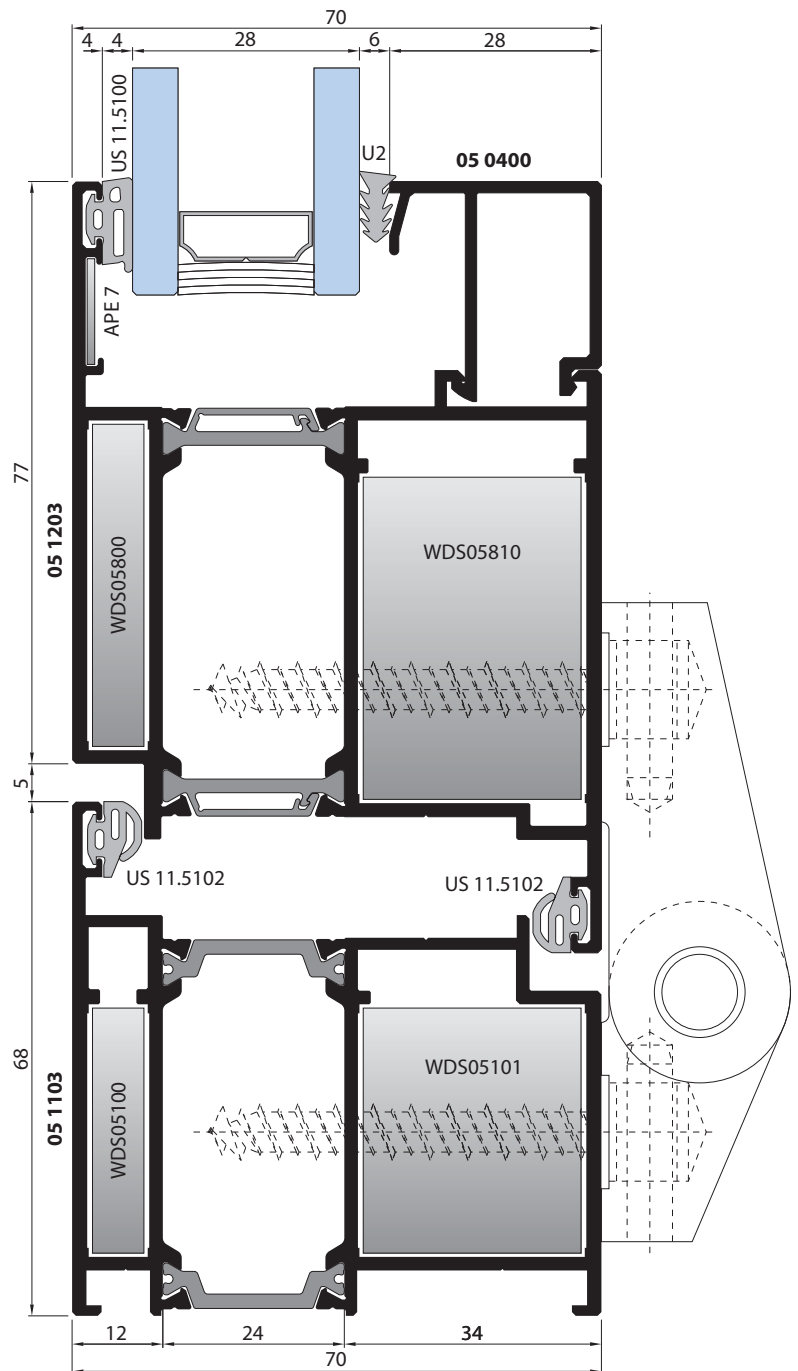
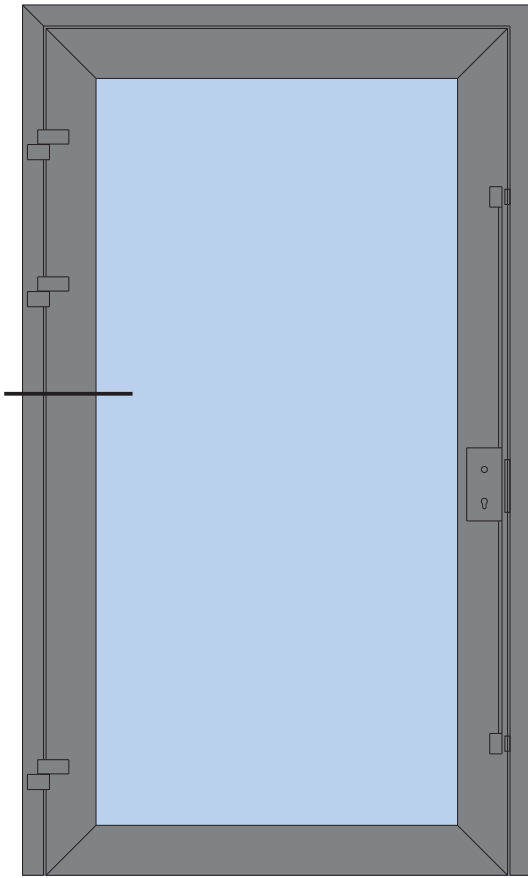
DOORS SECTIONS



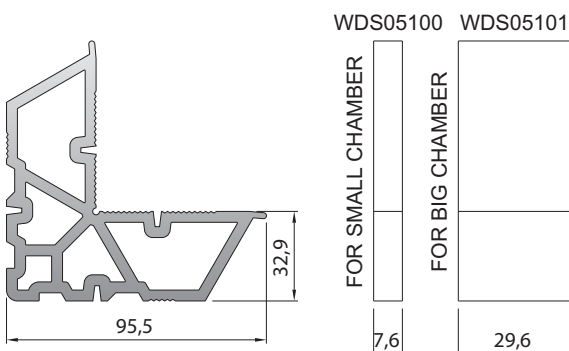
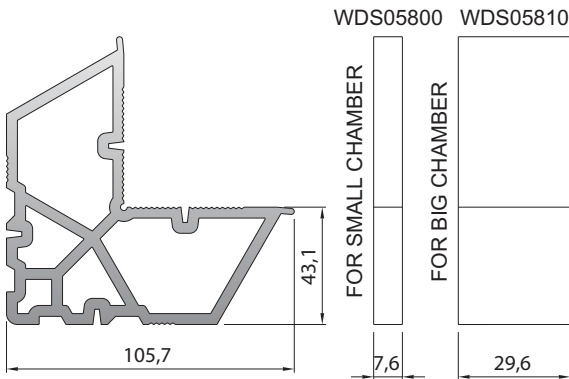
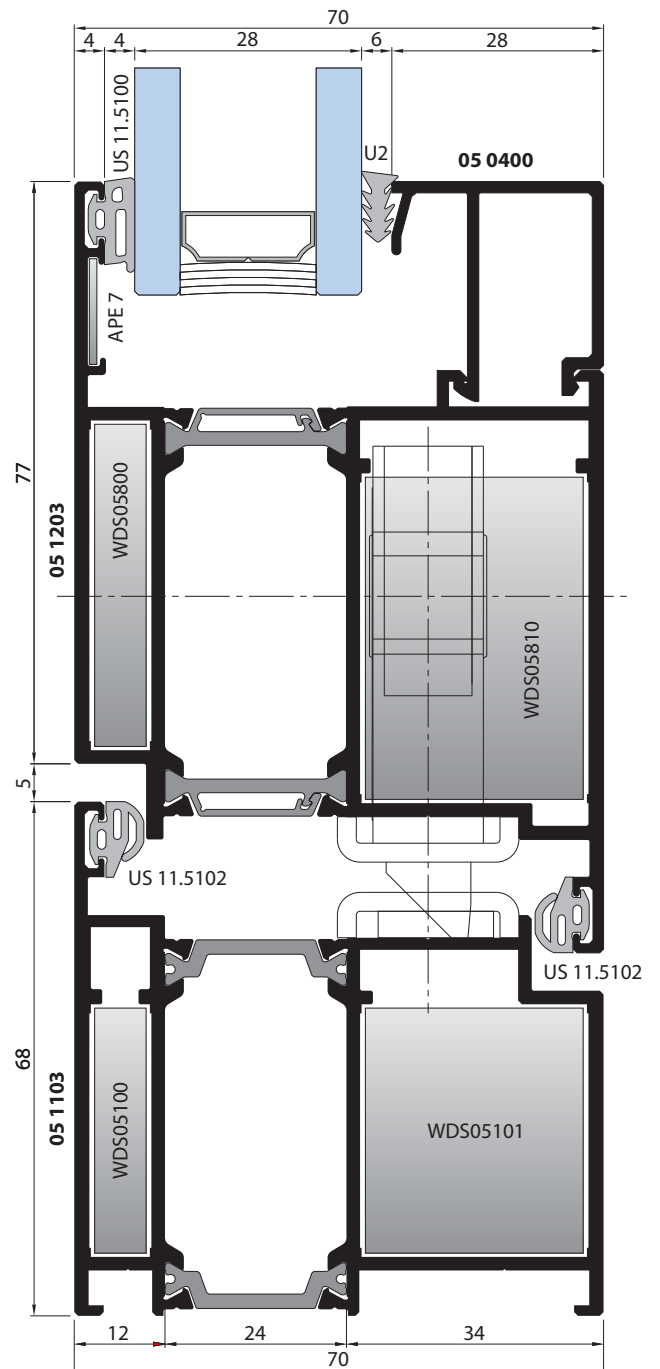
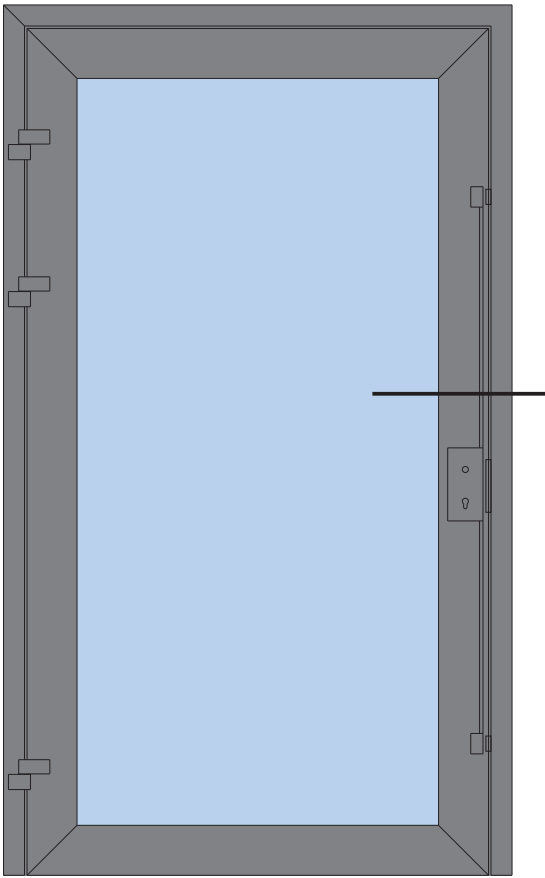
## DOORS SECTIONS



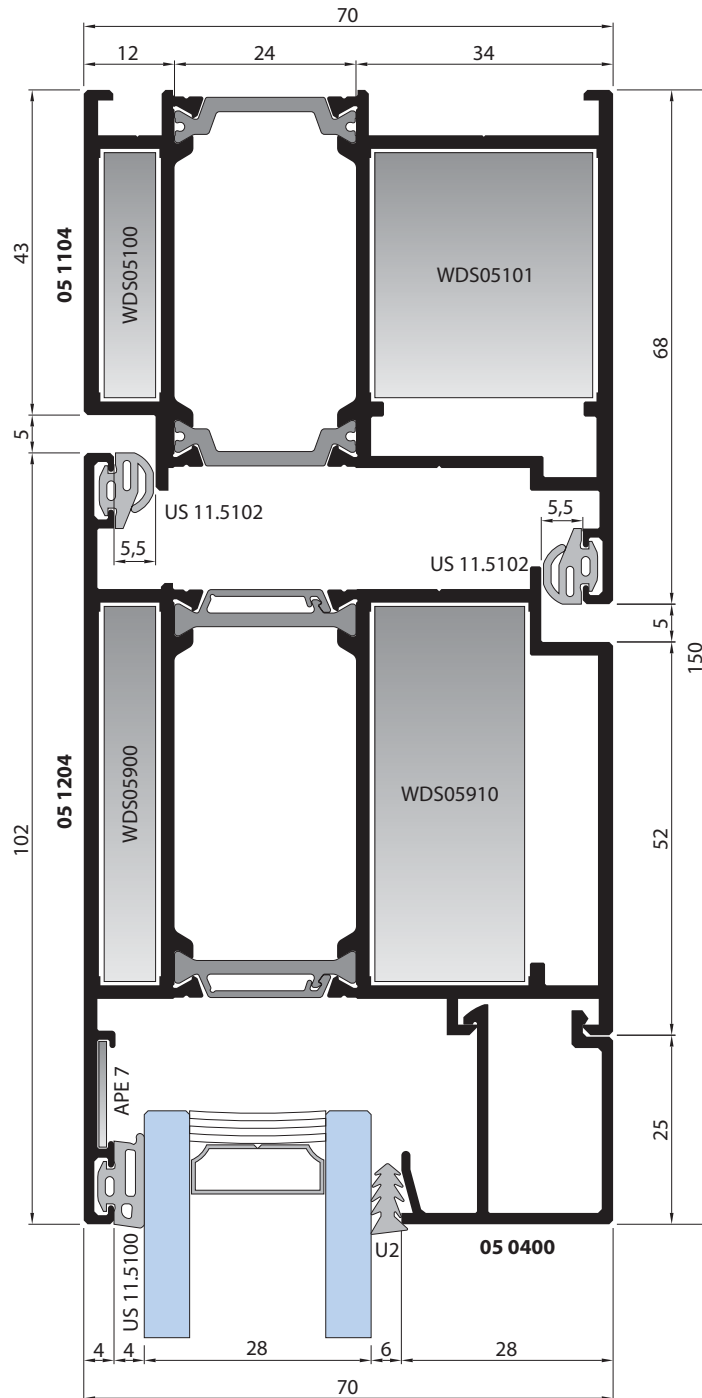
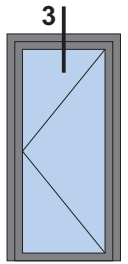
## DOORS SECTIONS



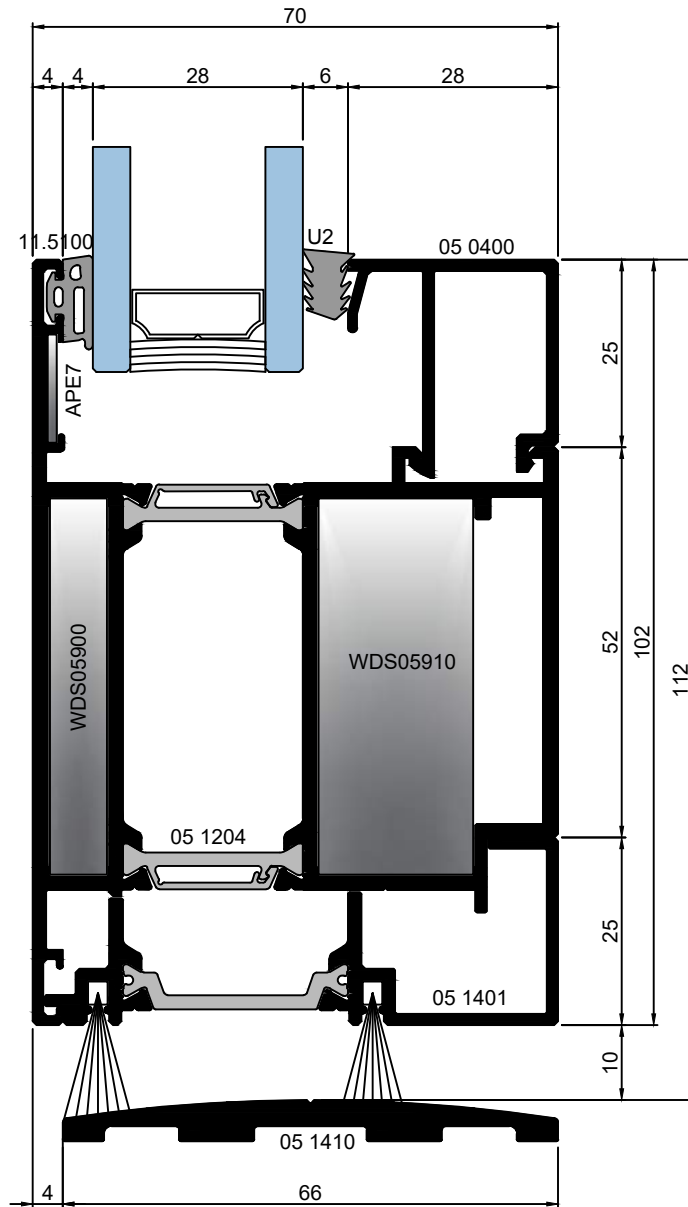
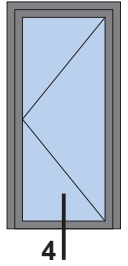
## DOORS SECTIONS



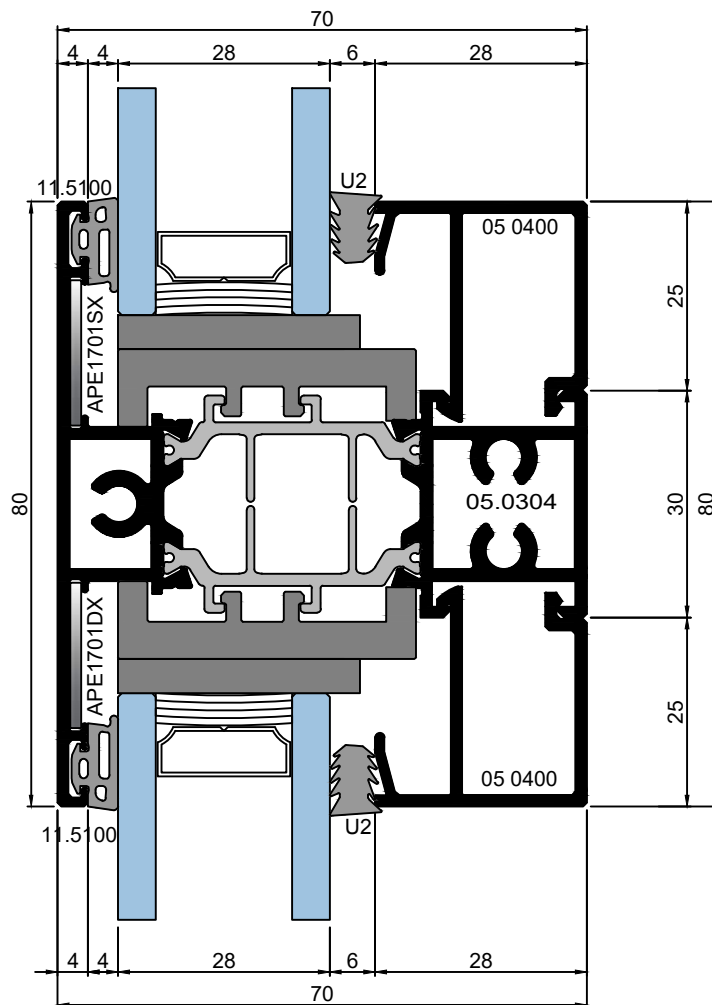
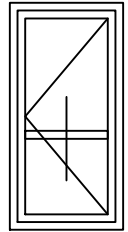
## DOORS SECTIONS



**DOORS SECTIONS**

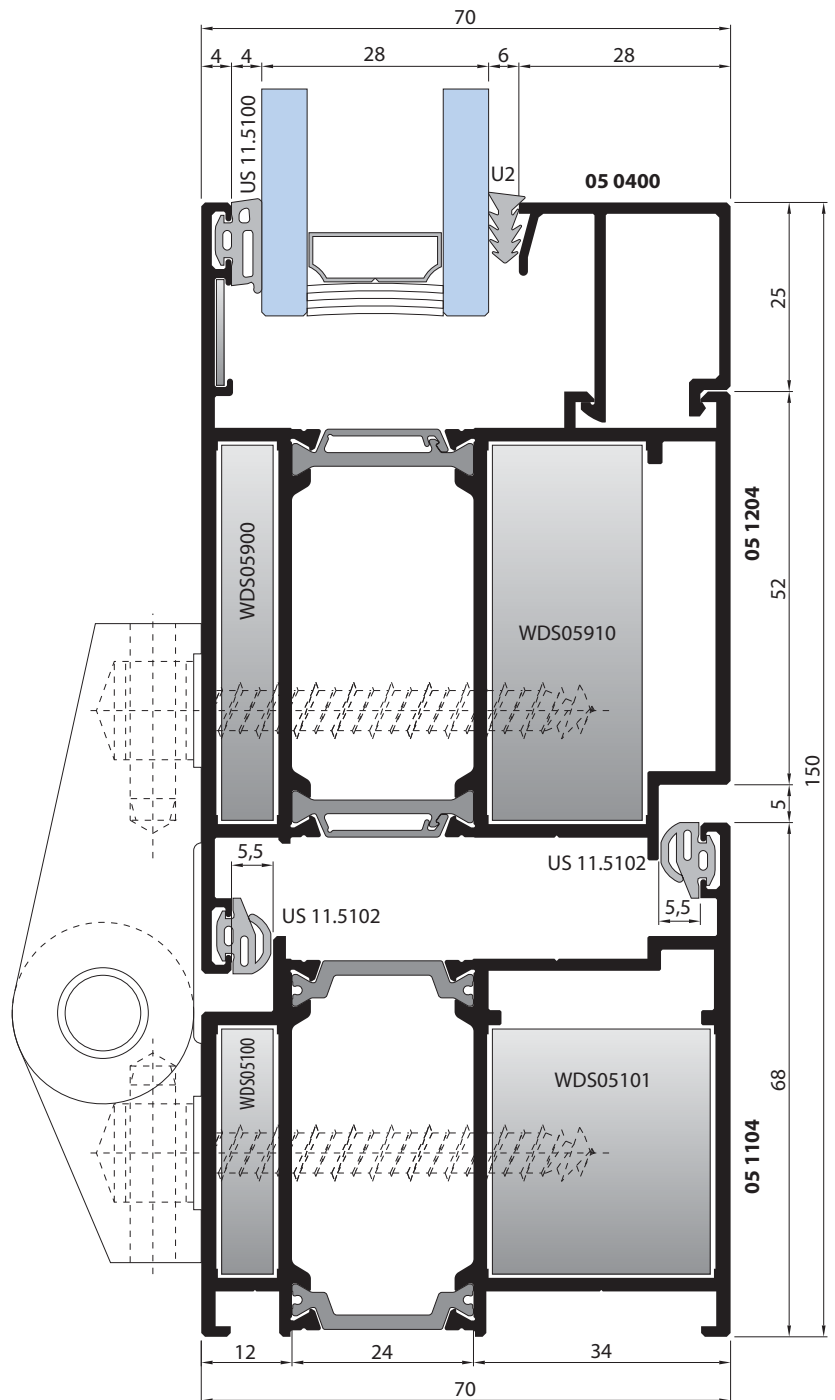
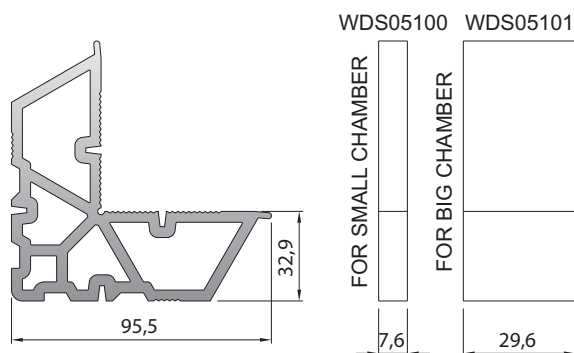
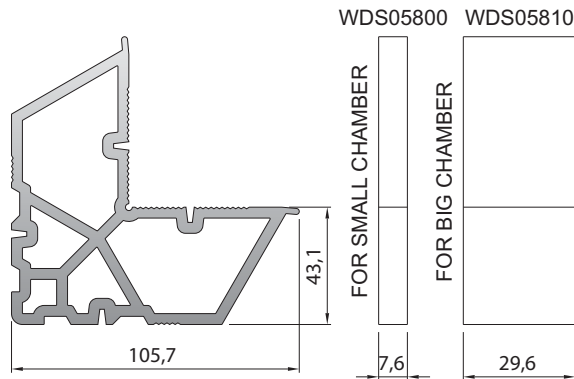
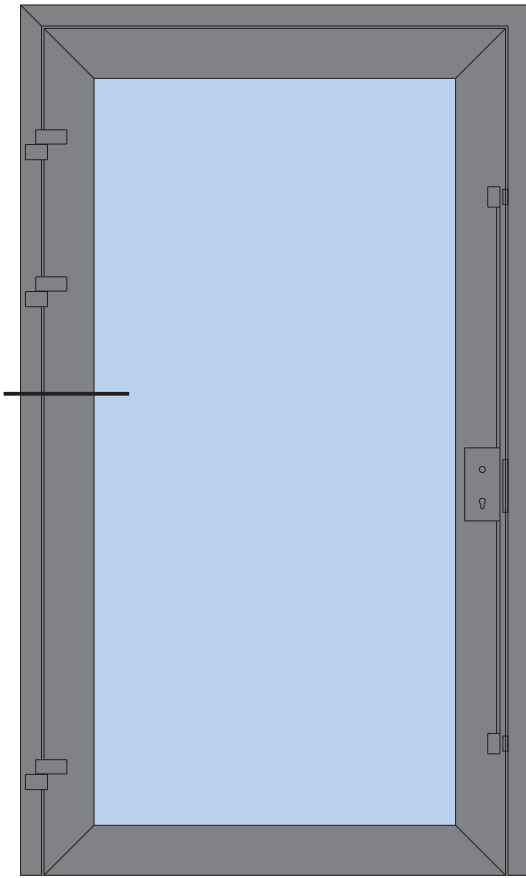


# DOORS SECTIONS

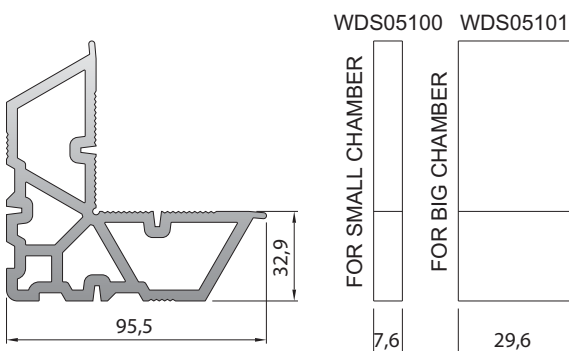
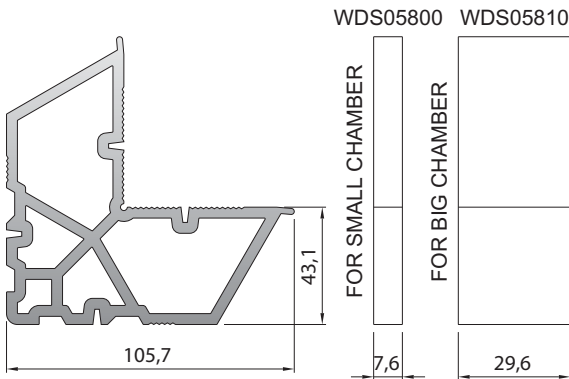
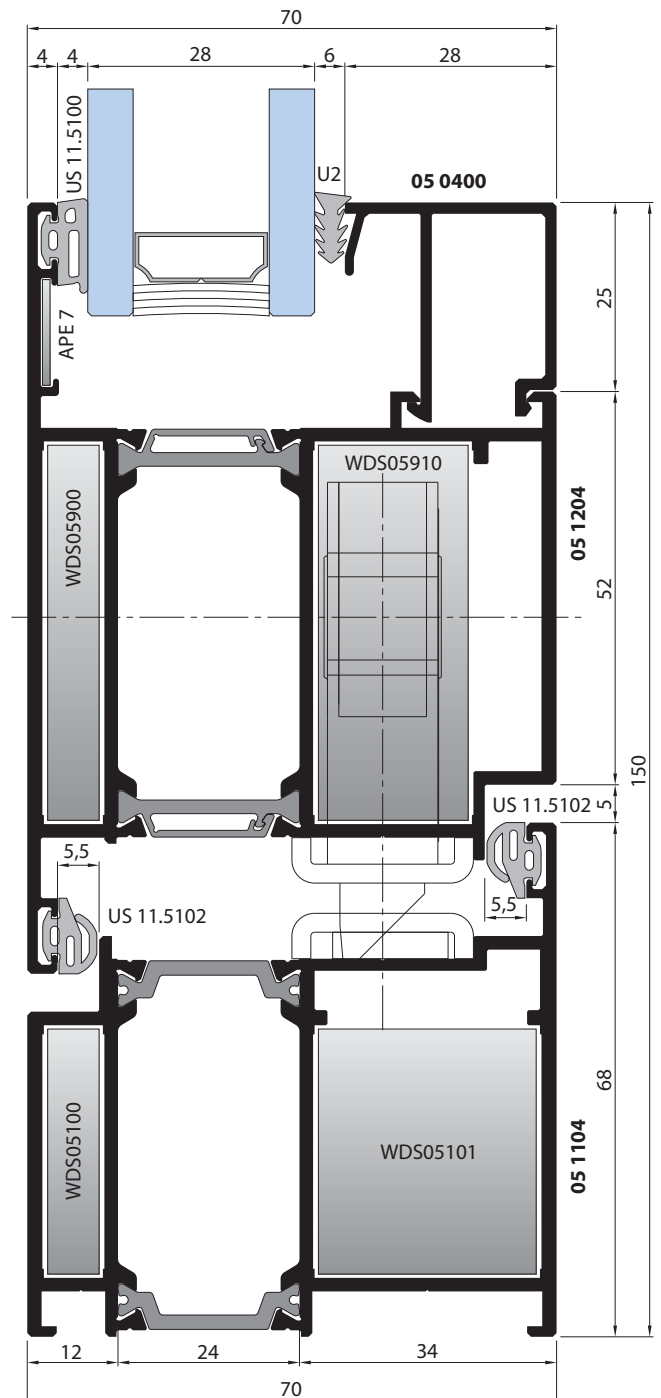
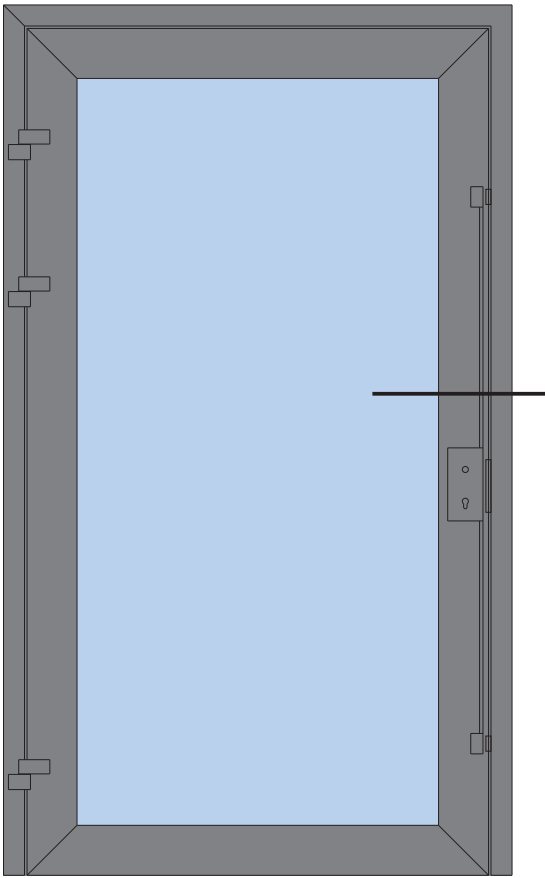




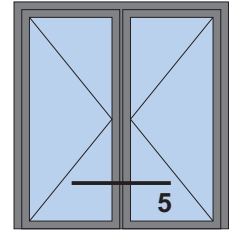
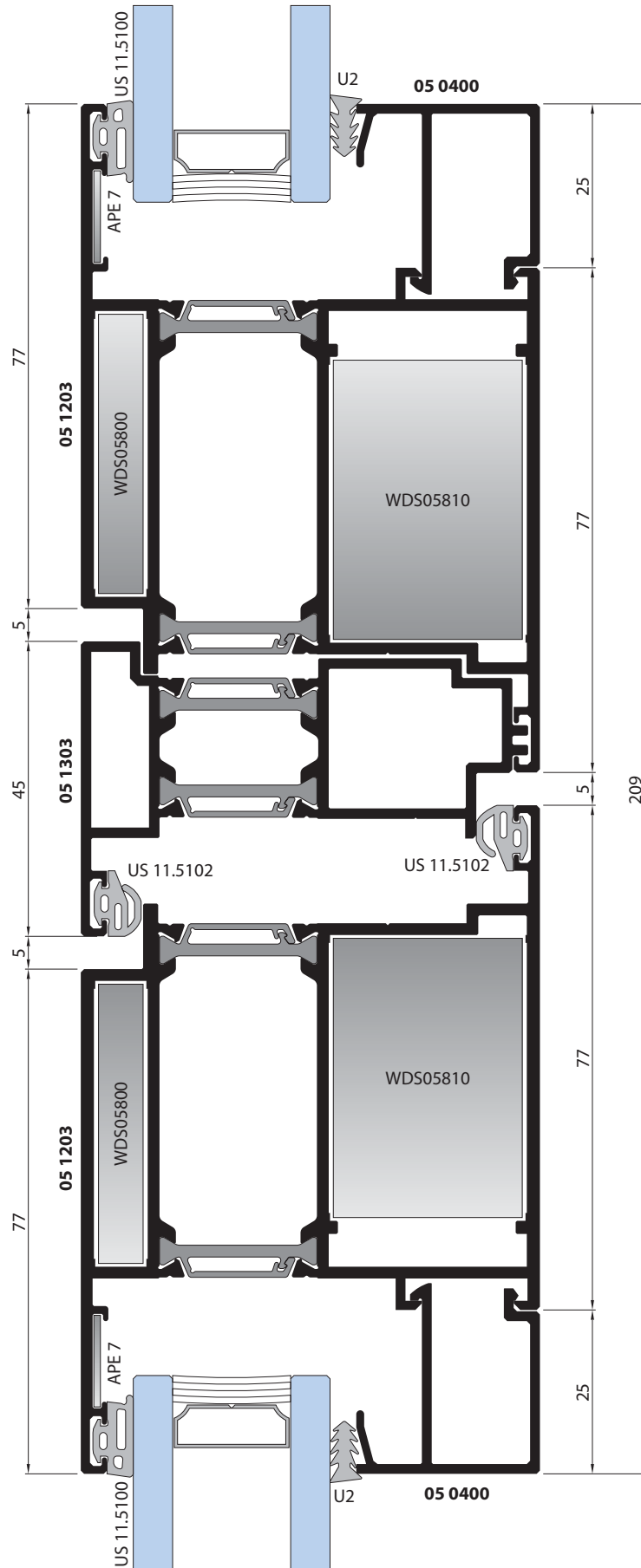
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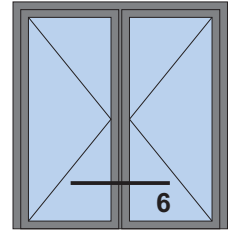
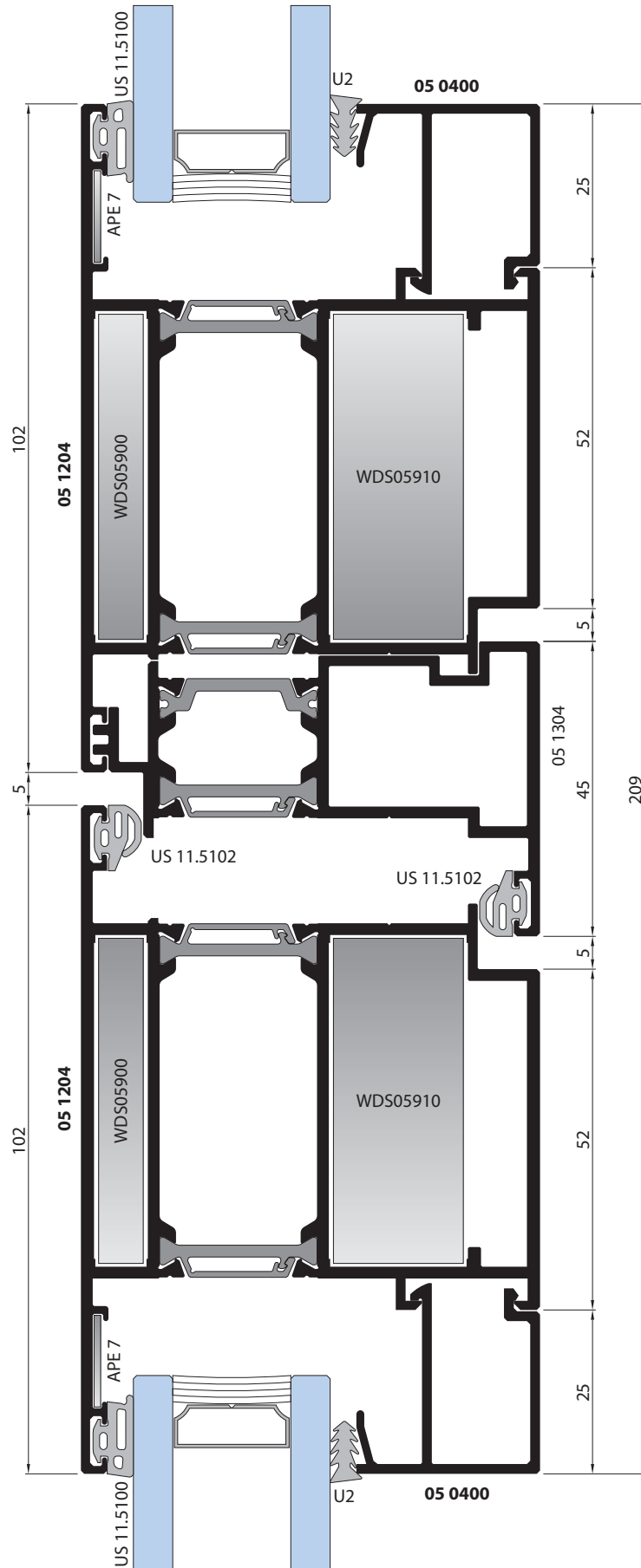
## DOORS SECTIONS



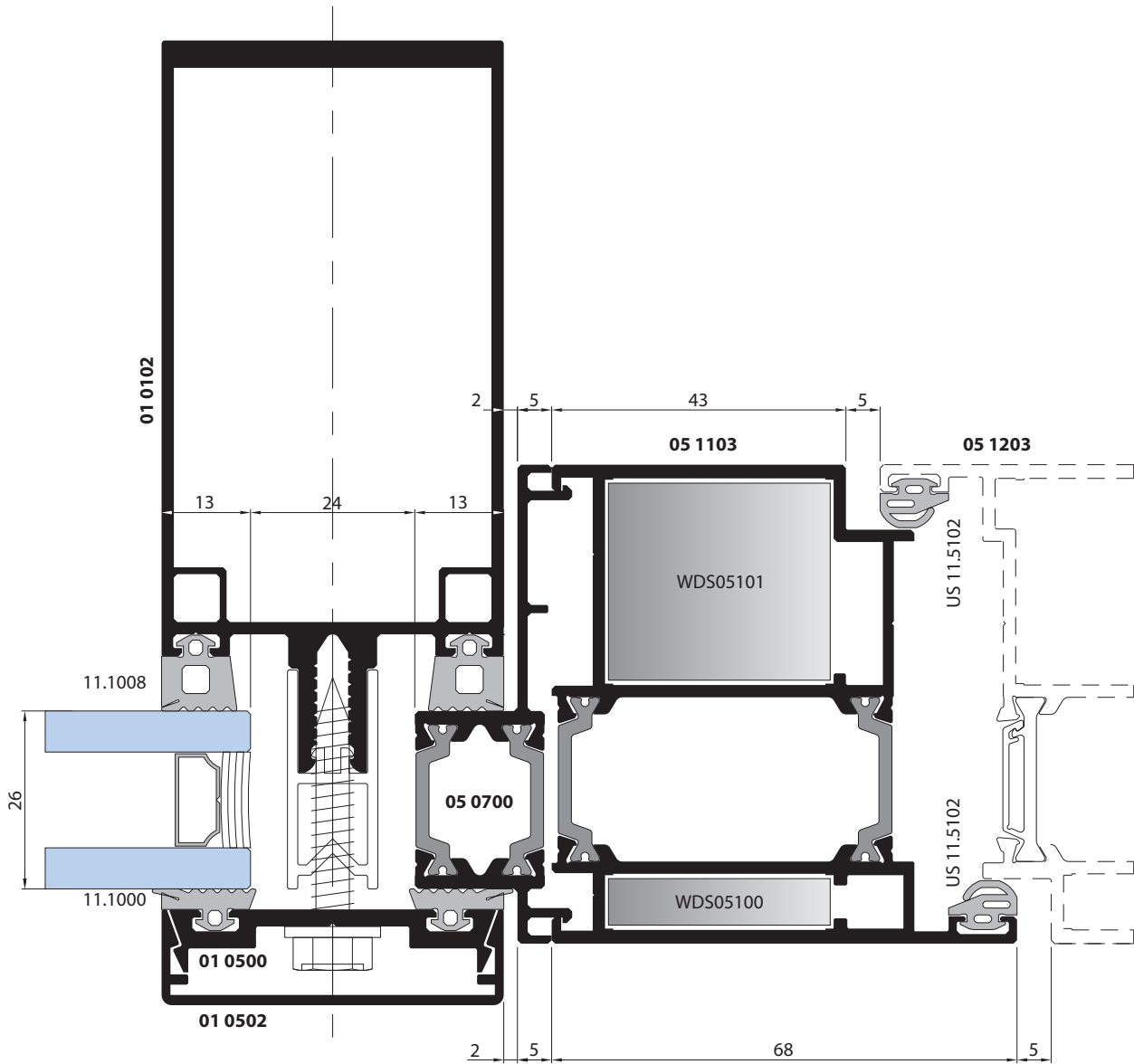
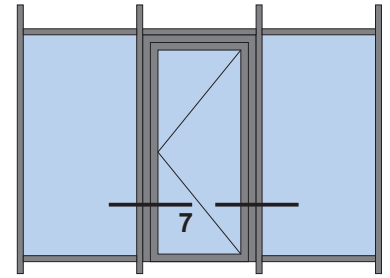
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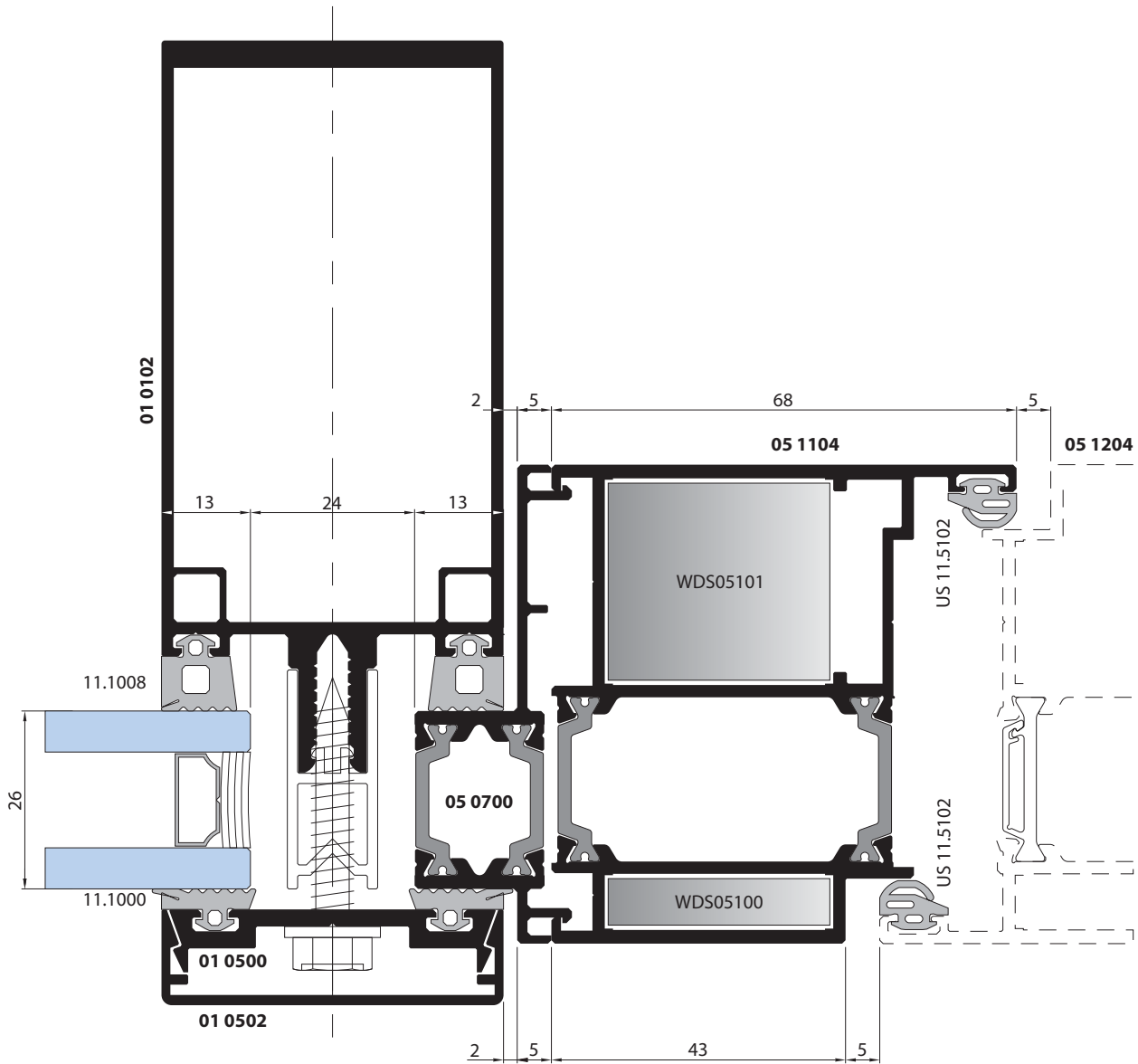
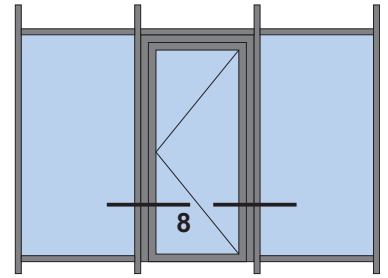
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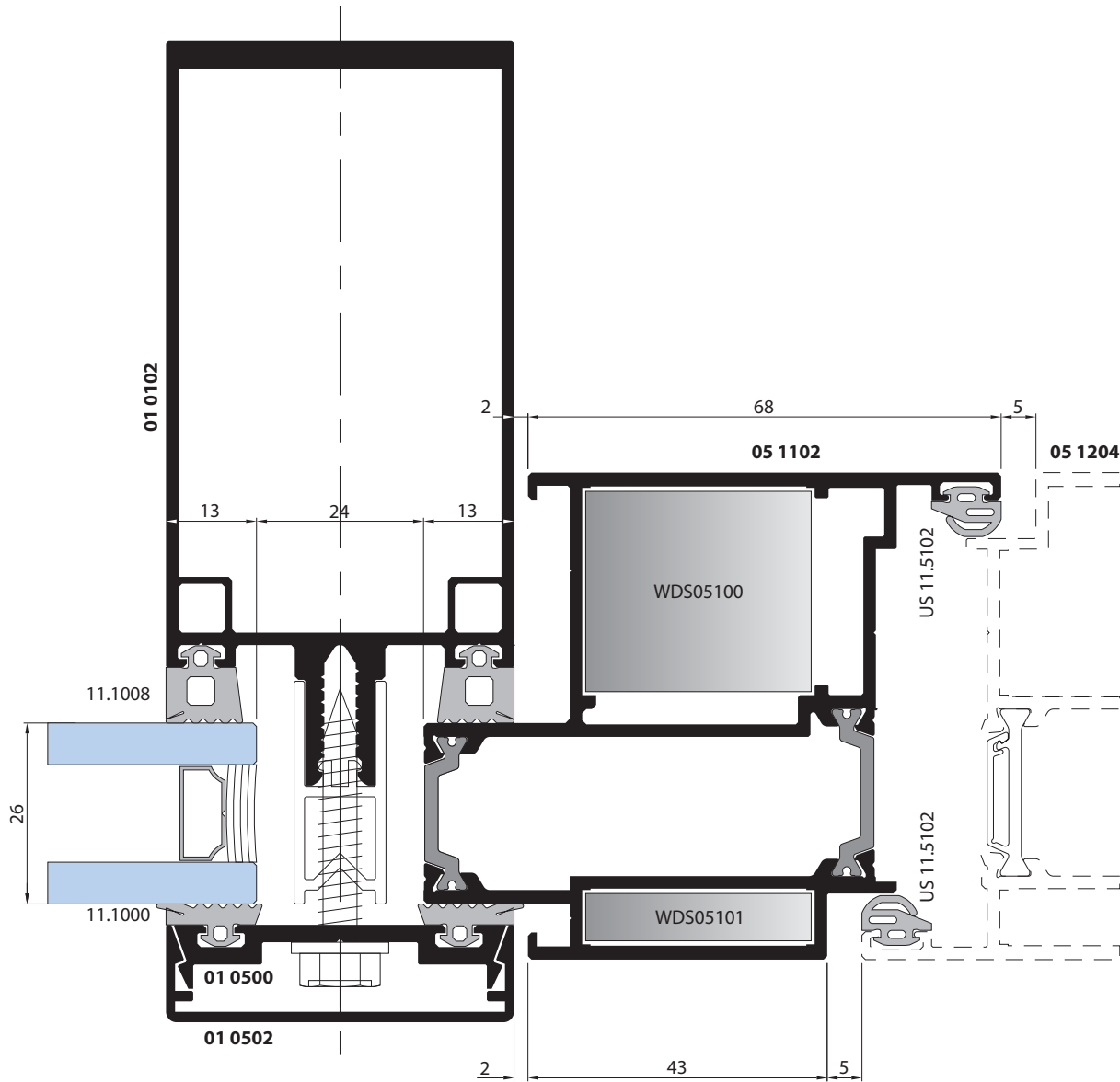
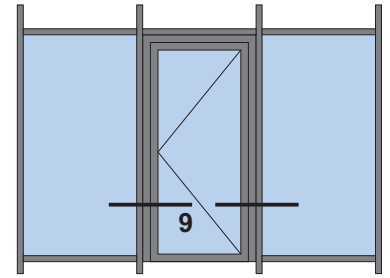
## DOORS SECTIONS



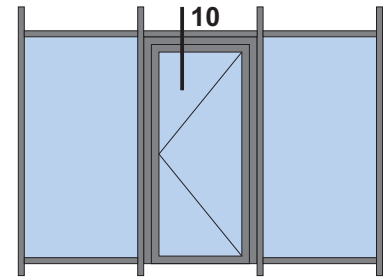
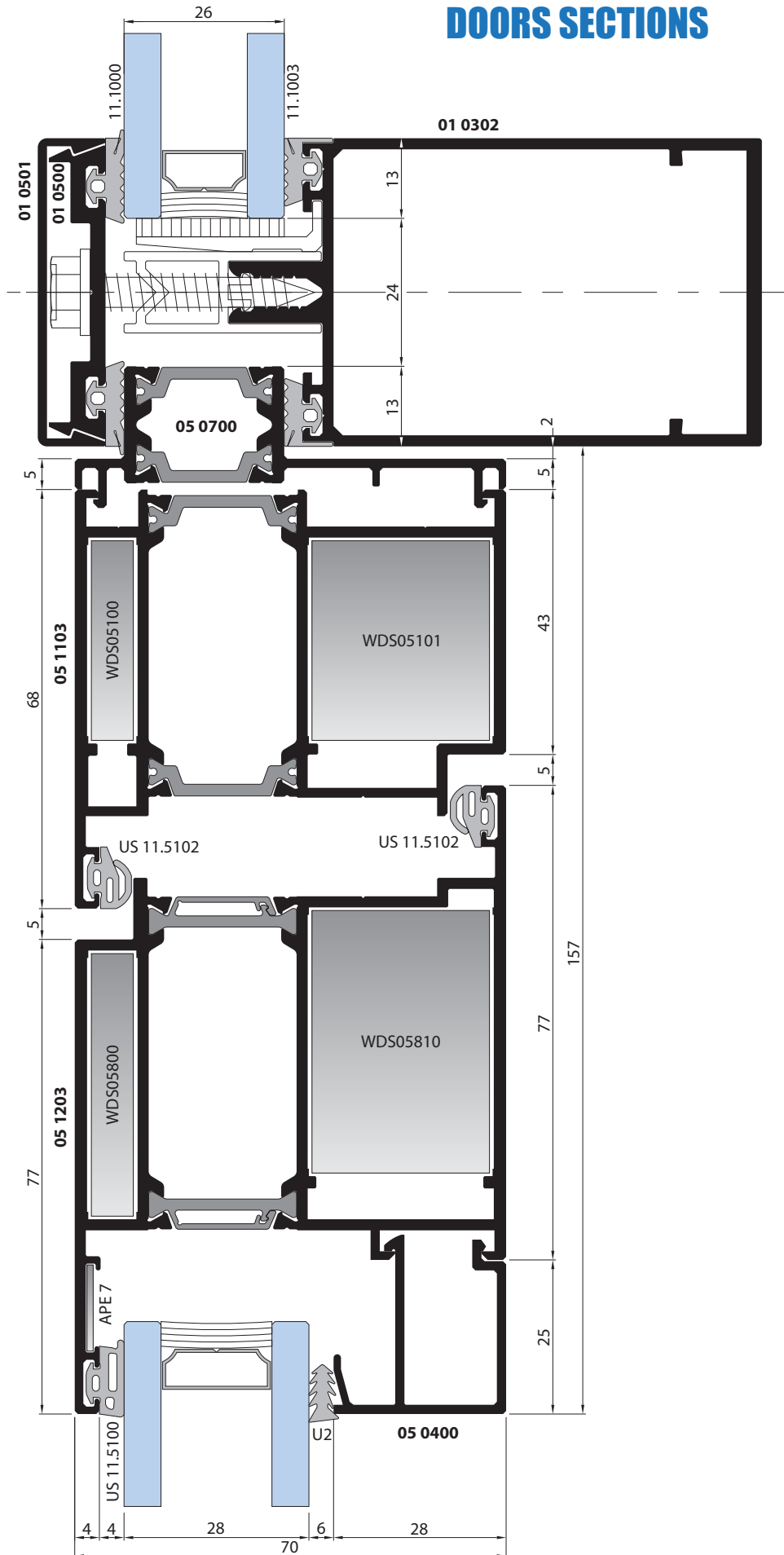
## DOORS SECTIONS



## DOORS SECTIONS

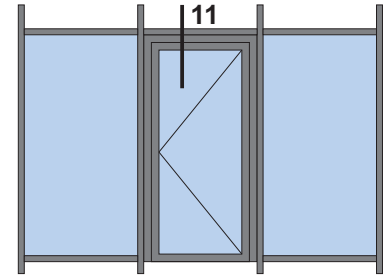
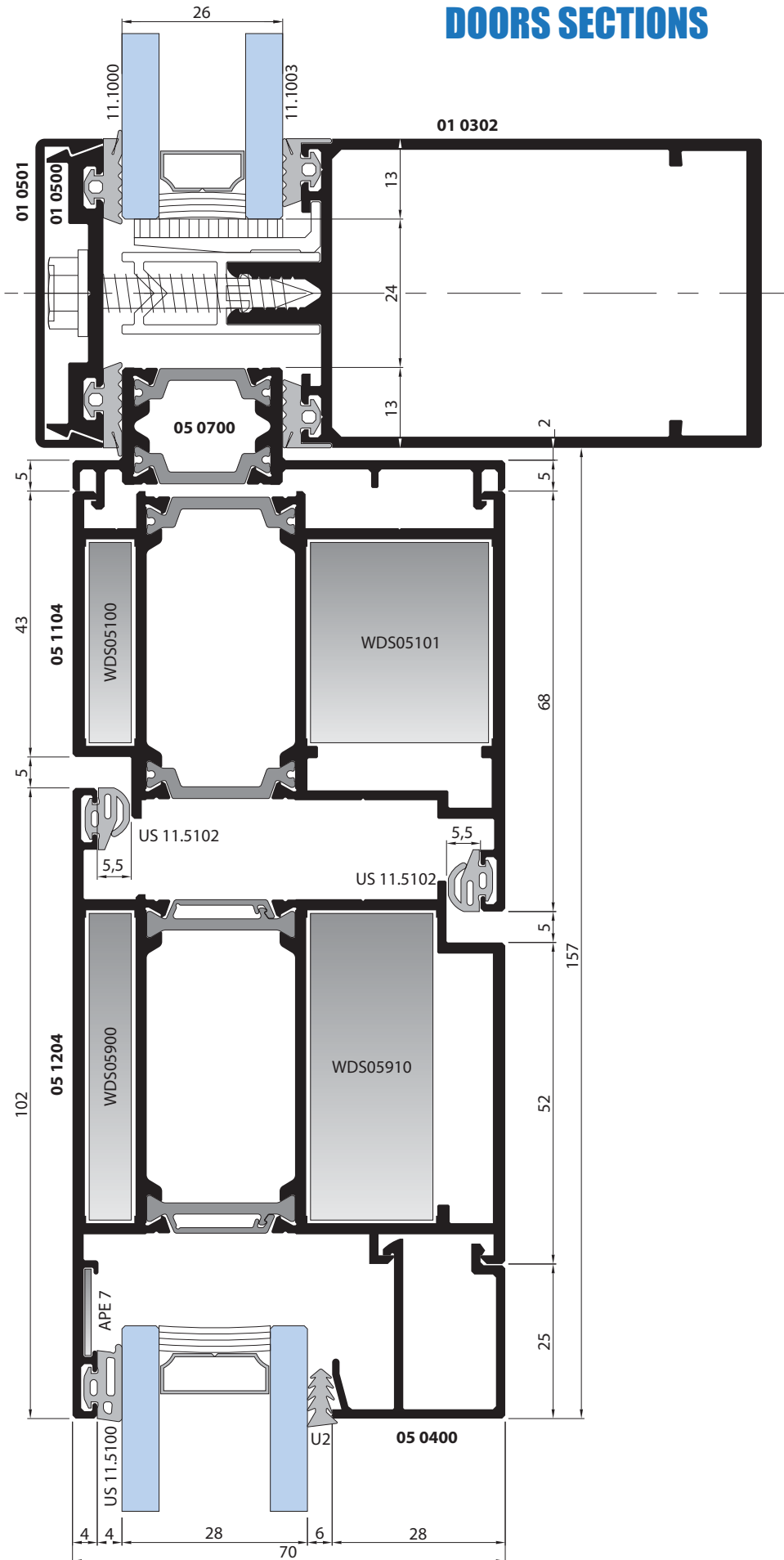


## DOORS SECTIONS

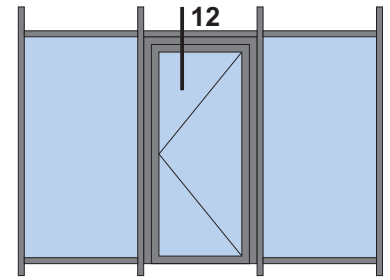
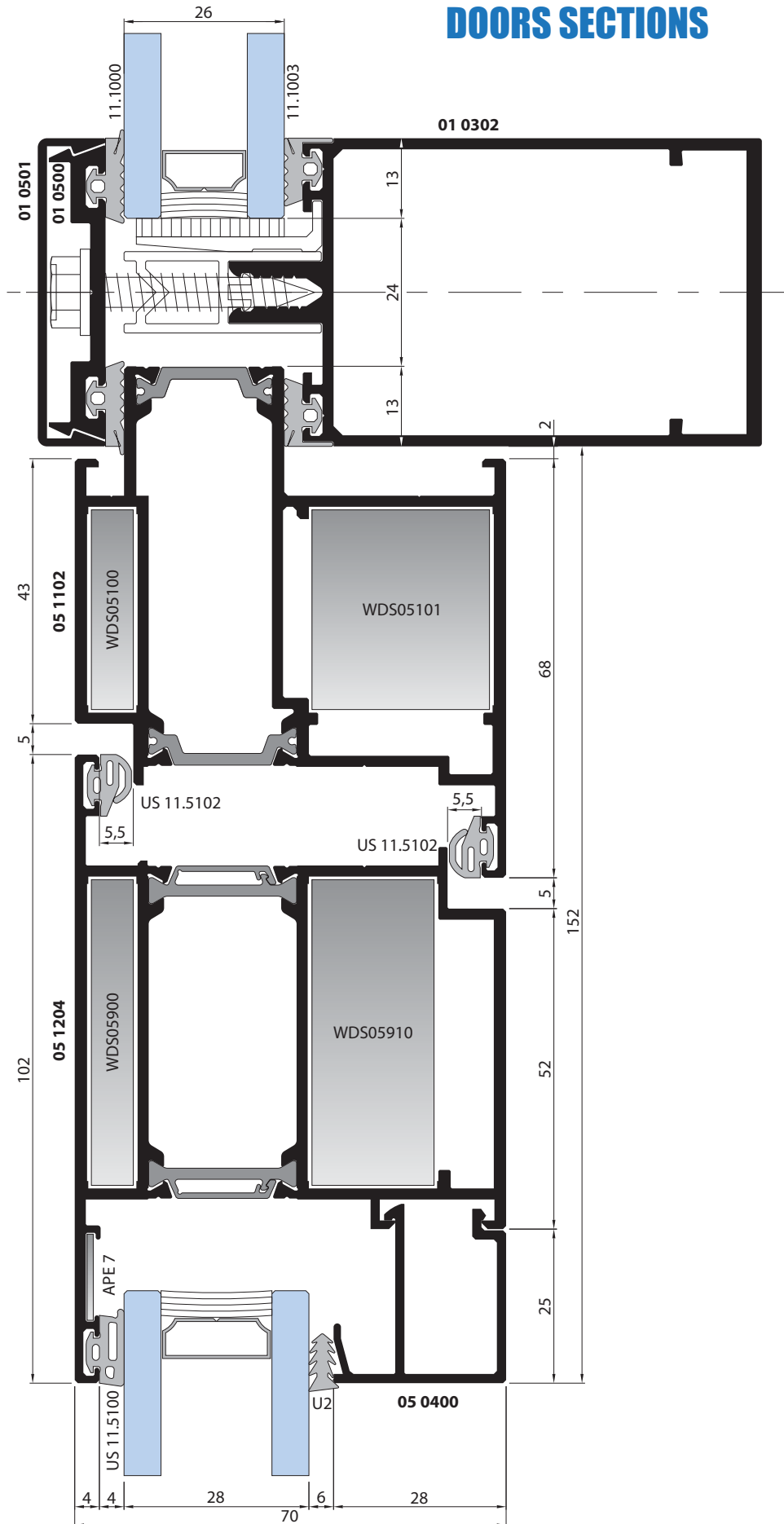




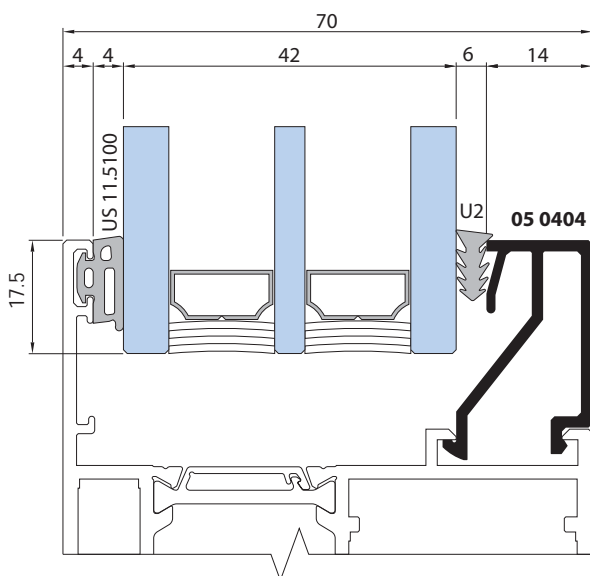
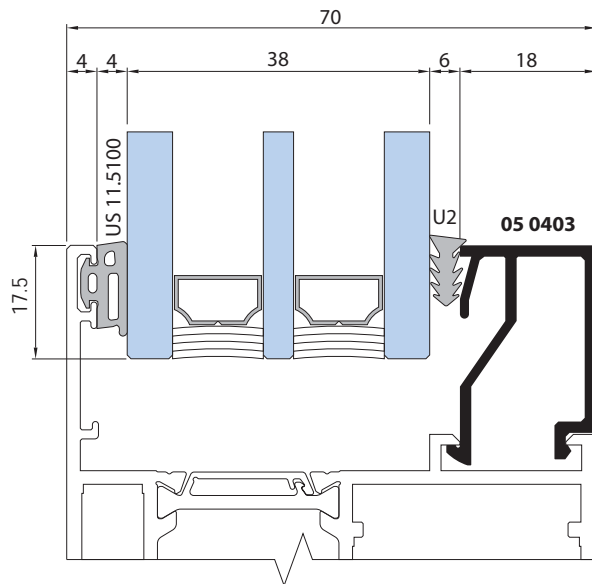
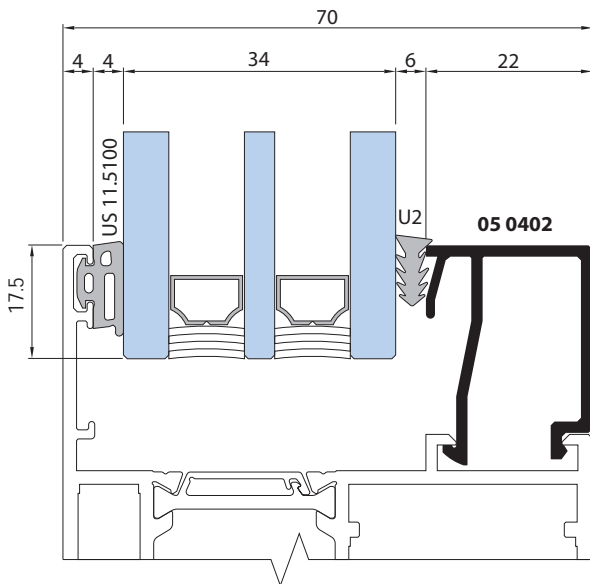
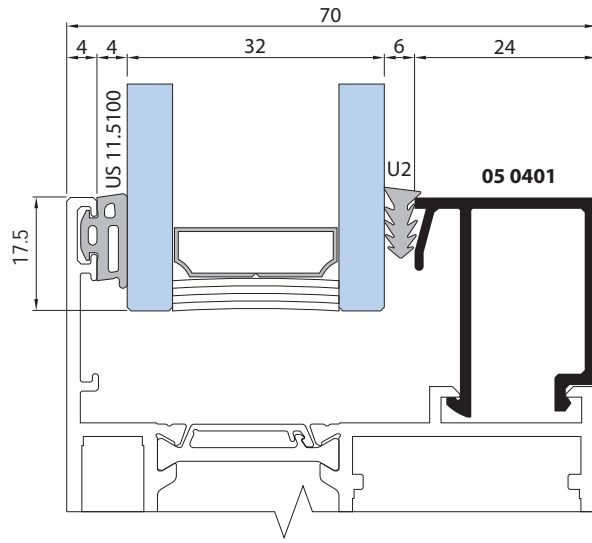
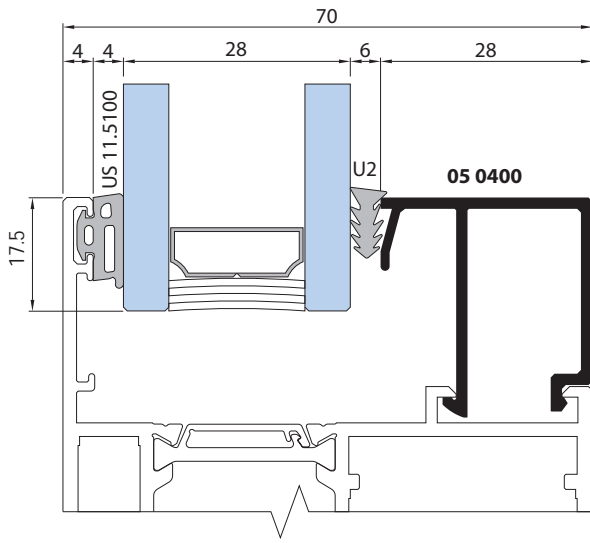
## DOORS SECTIONS



## DOORS SECTIONS



**GLAZING OPTIONS**



## NOTES

A series of horizontal dotted lines for taking notes.

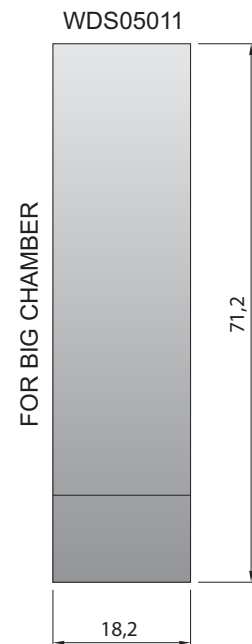
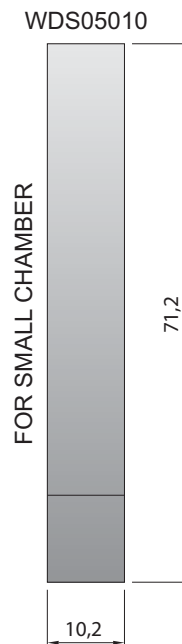
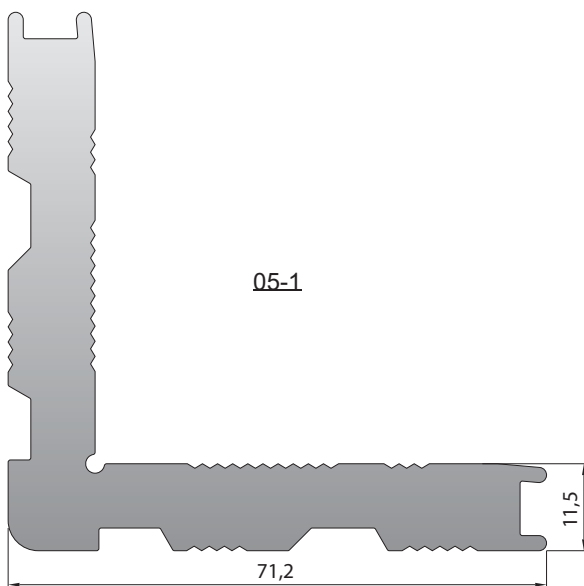
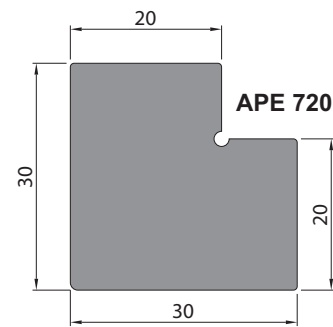
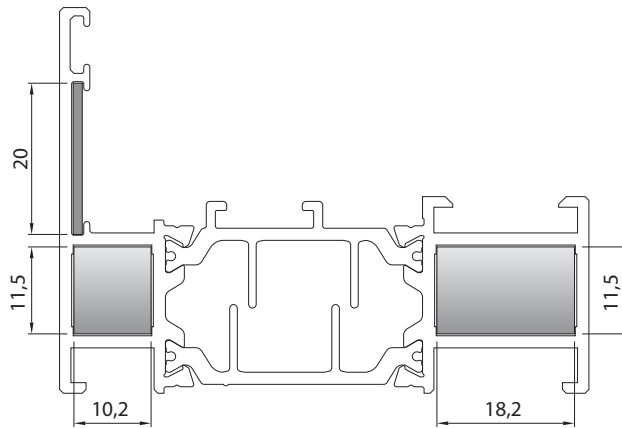
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# **DETAILS**

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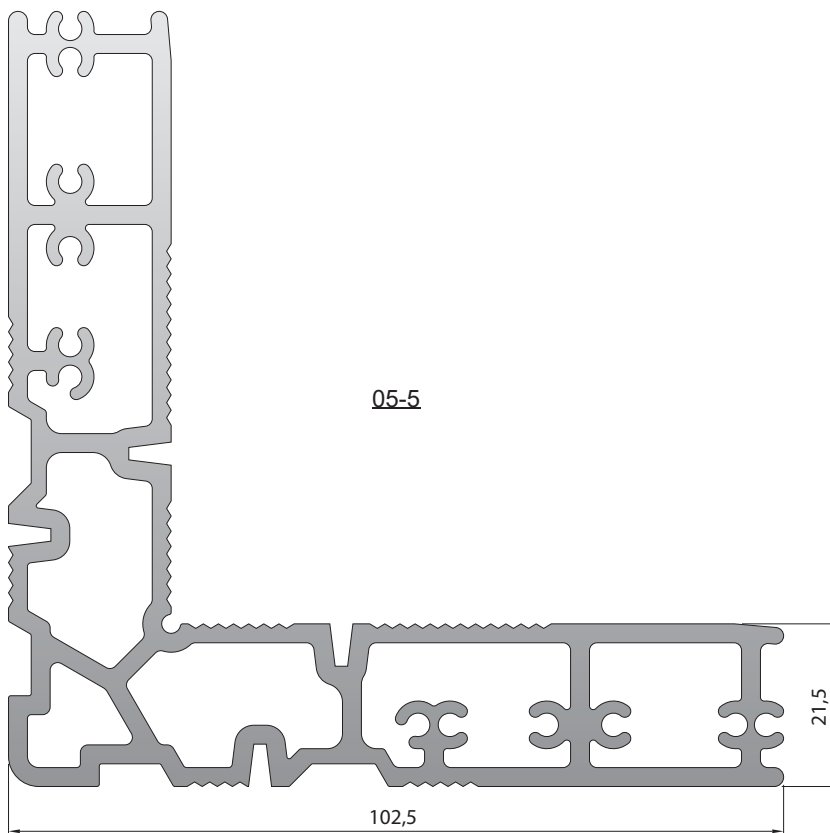
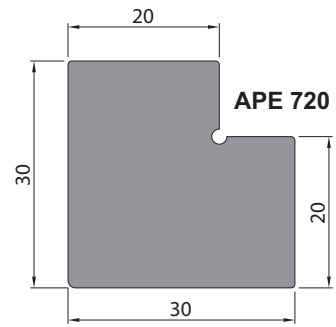
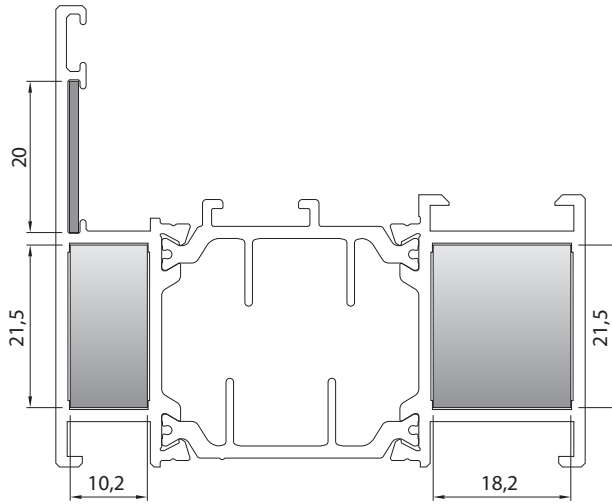
**DETAILS**

**CONNECTION CORNERS FOR PROFILE - 05.0100**

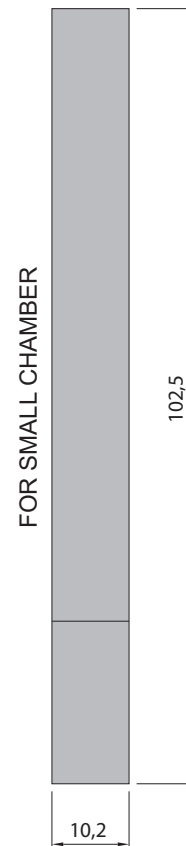


**DETAILS**

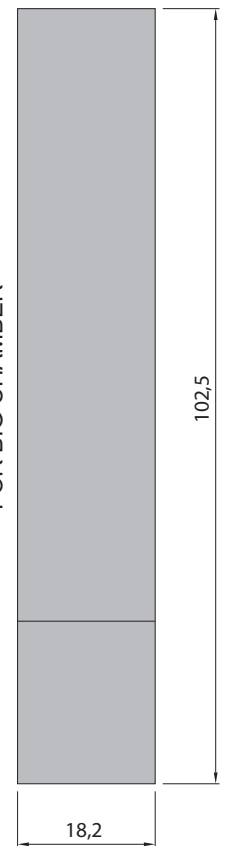
**CONNECTION CORNERS FOR PROFILE - 05.0101**



WDS05500

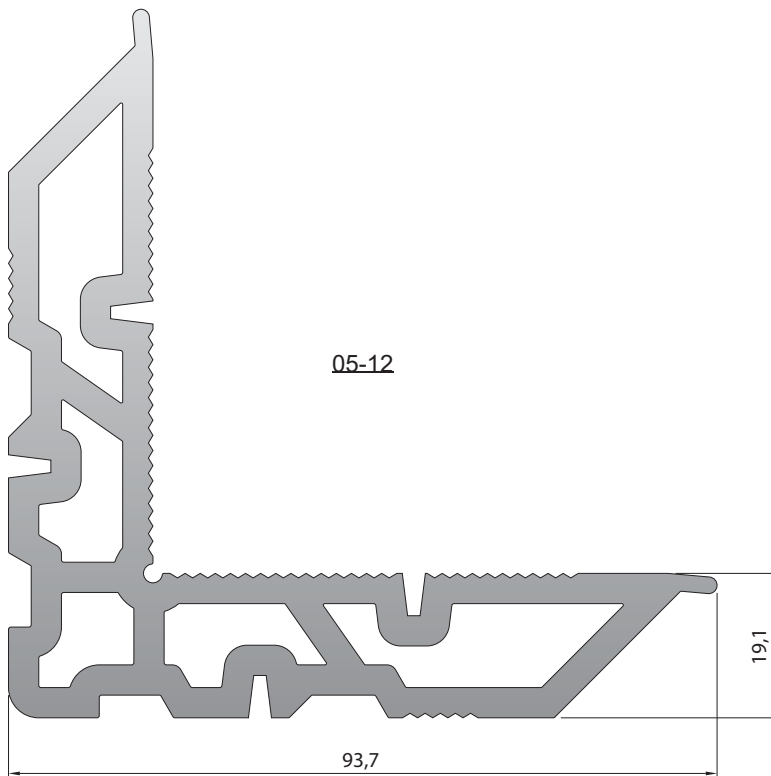
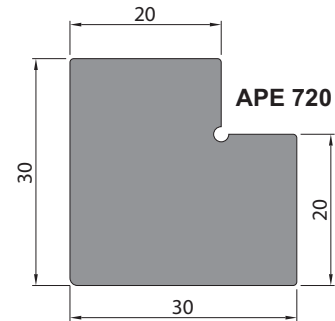
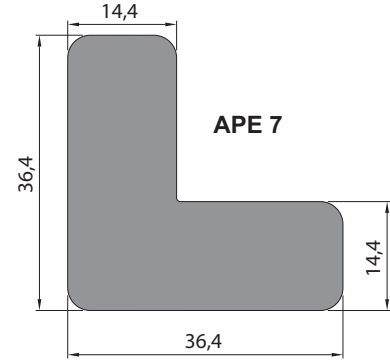
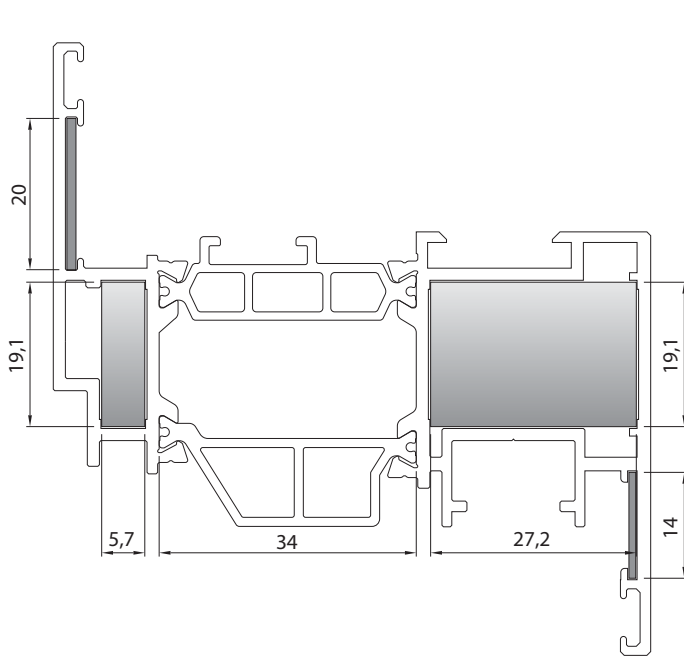


WDS05510

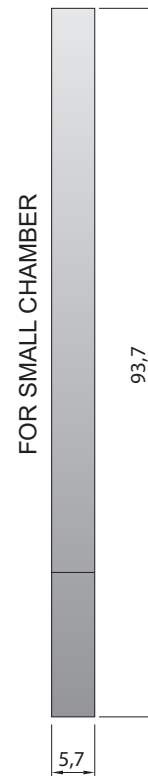


**DETAILS**

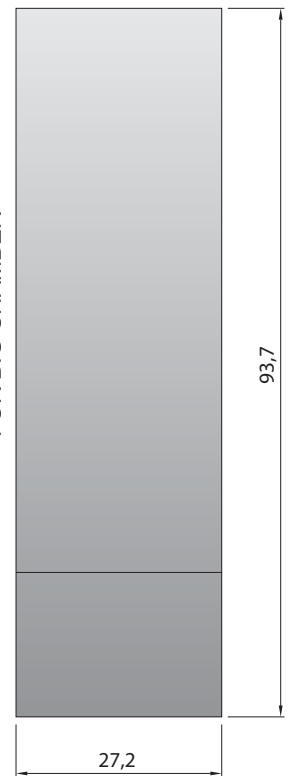
**CONNECTION CORNERS FOR PROFILE - 05.0205**



WDS05120



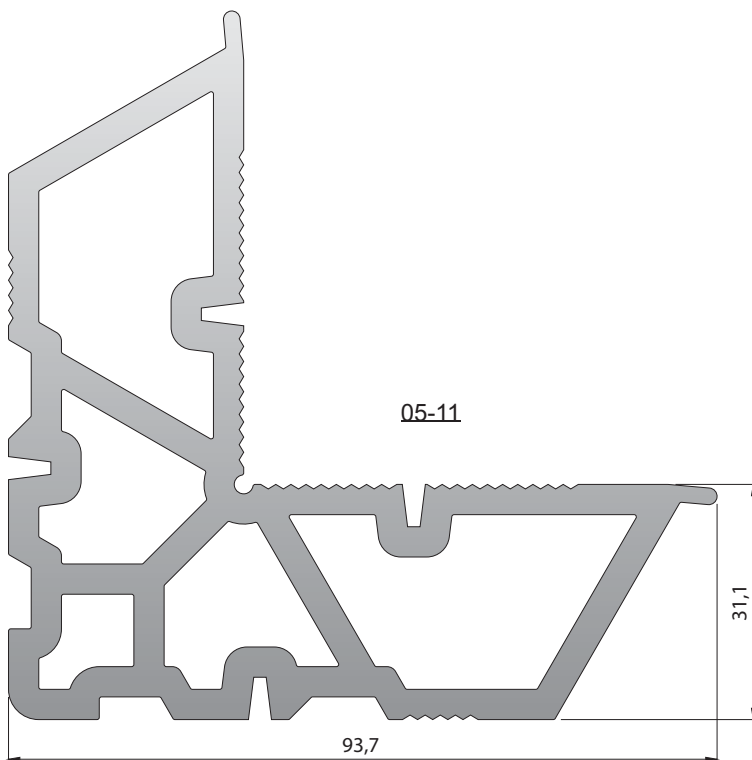
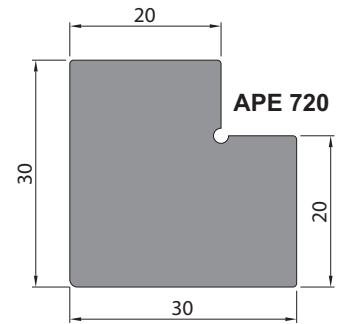
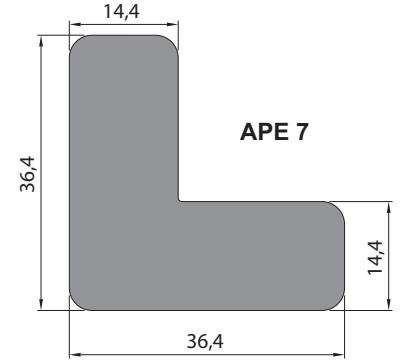
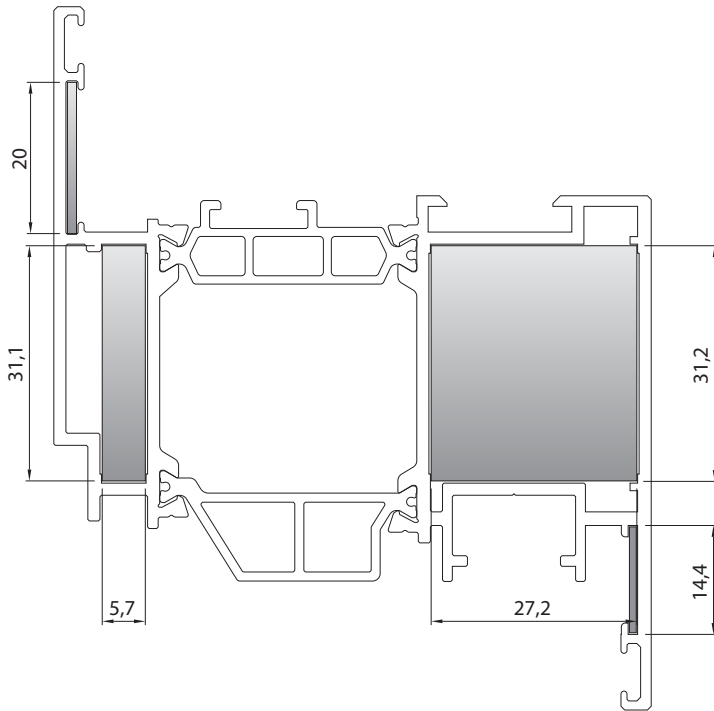
WDS05121





**DETAILS**

**CONNECTION CORNERS FOR PROFILE - 05.0211**



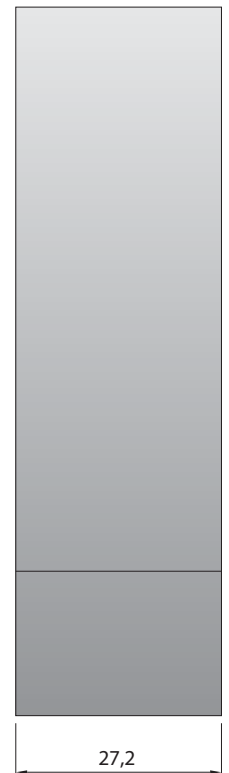
WDS05110

FOR SMALL CHAMBER



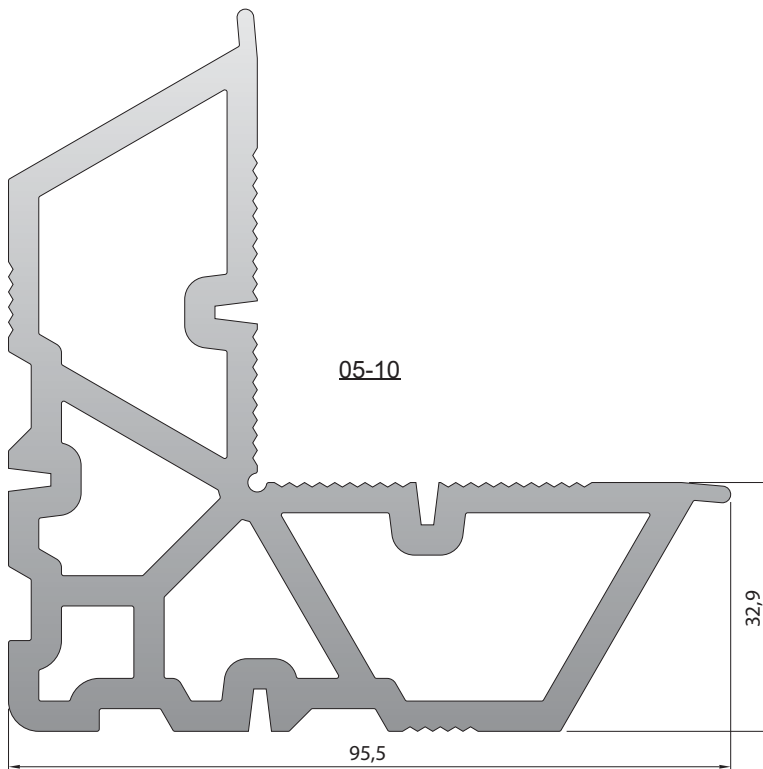
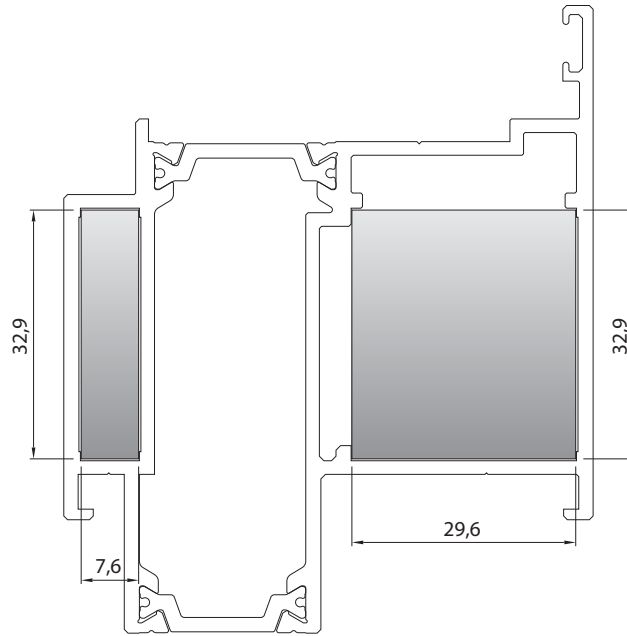
WDS05111

FOR BIG CHAMBER

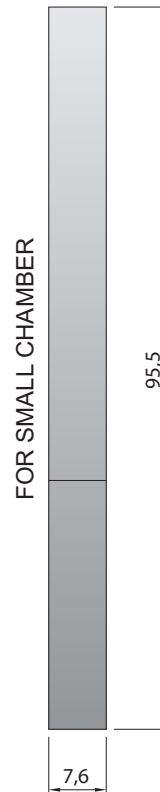


## DETAILS

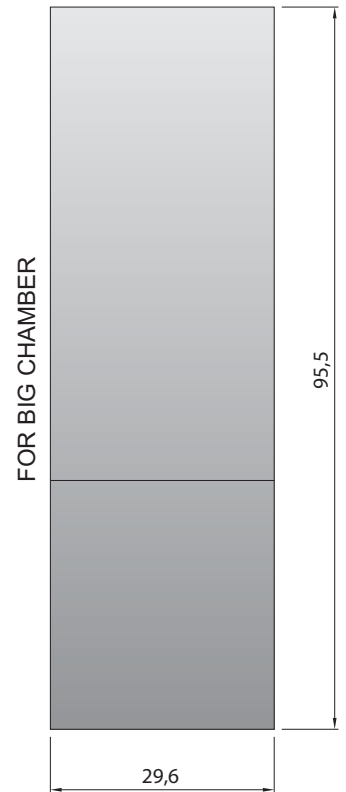
### CONNECTION CORNERS FOR PROFILE - 05.1102



WDS05100

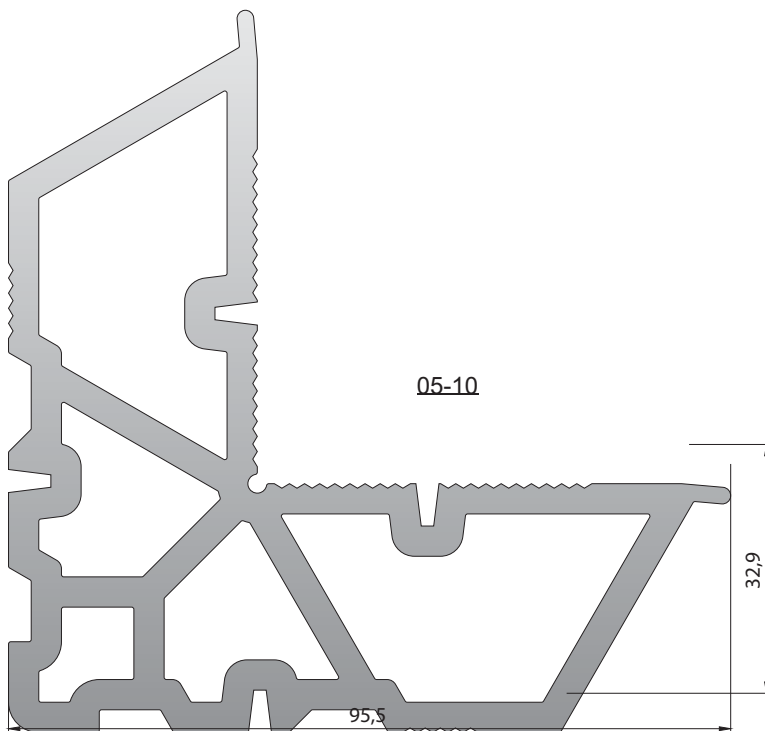
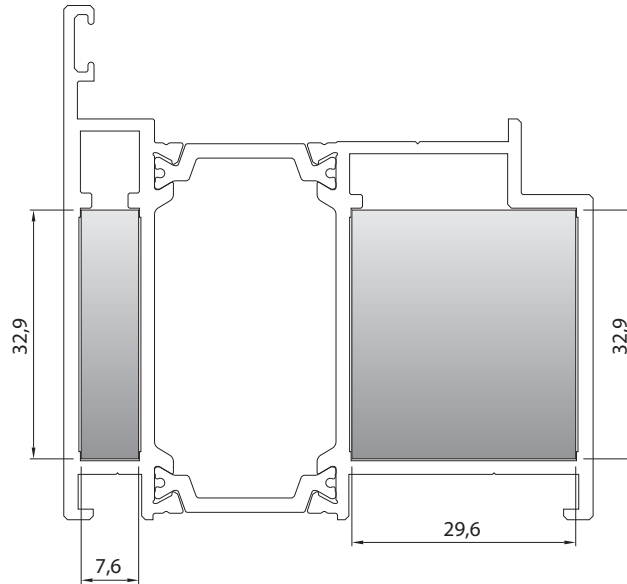


WDS05101



## DETAILS

### CONNECTION CORNERS FOR PROFILE - 05.1103



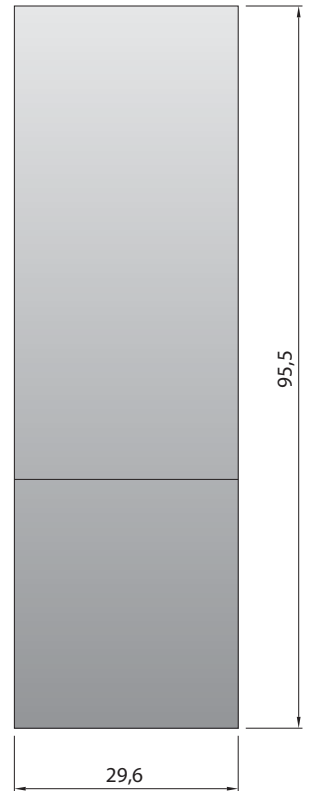
WDS05100

FOR SMALL CHAMBER



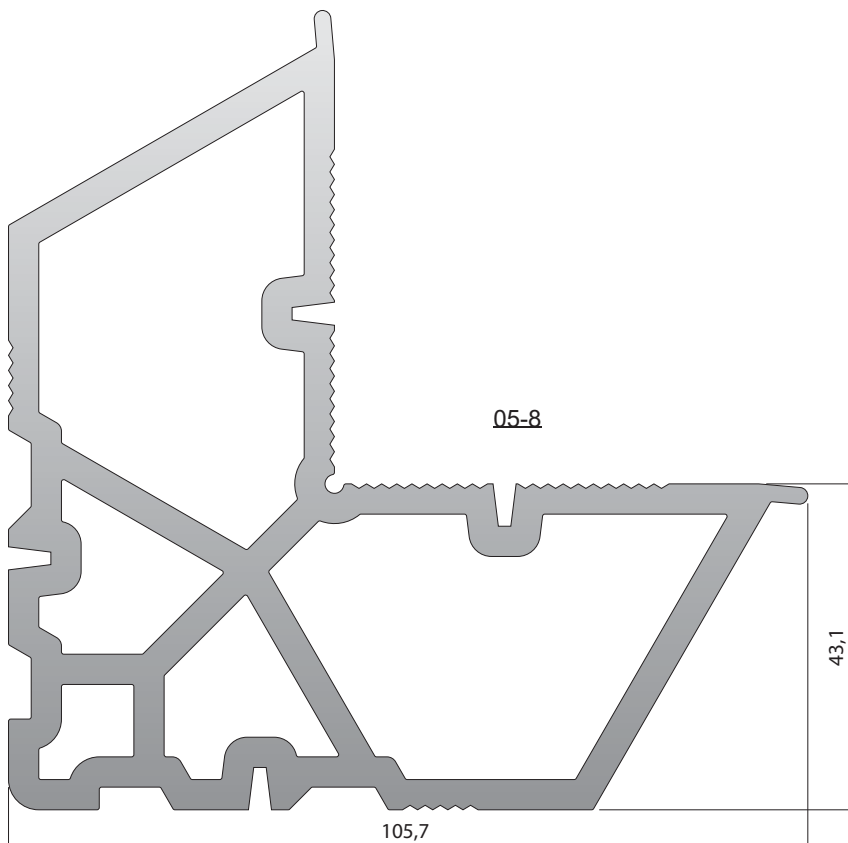
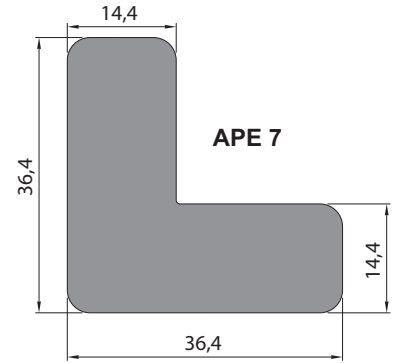
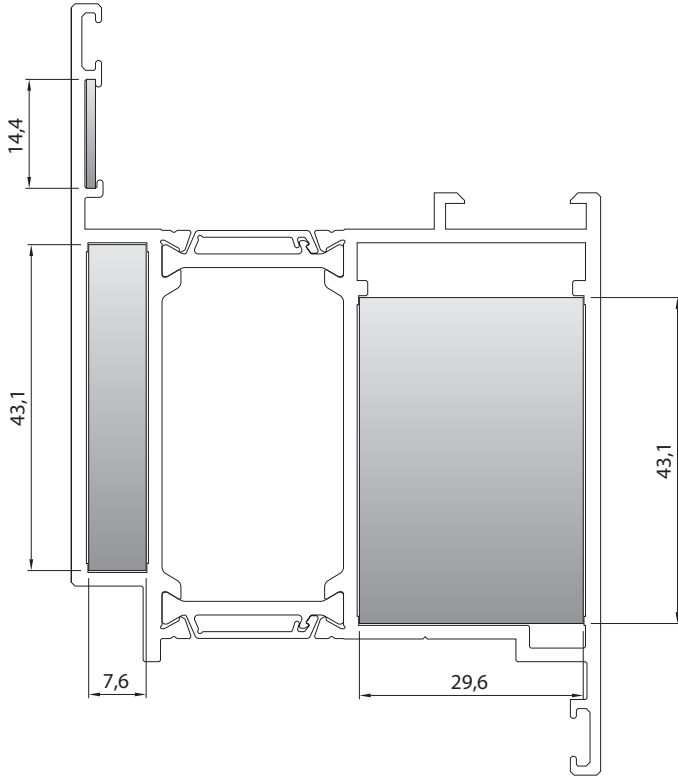
WDS05101

FOR BIG CHAMBER



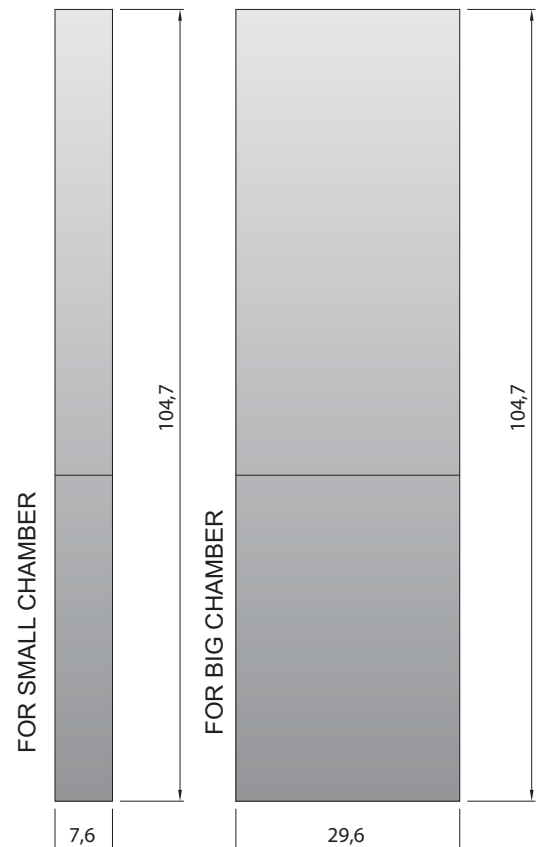
**DETAILS**

**CONNECTION CORNERS FOR PROFILE - 05.1203**



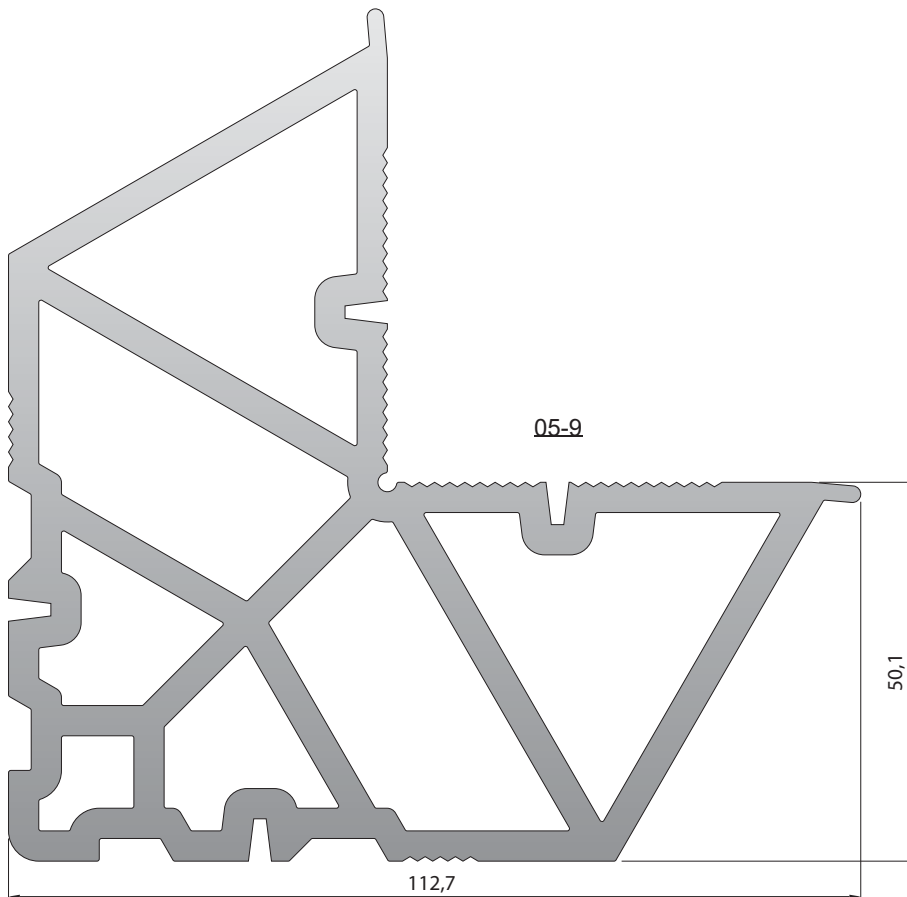
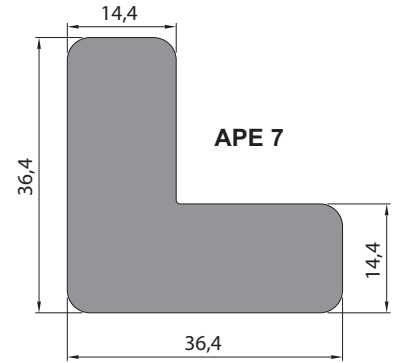
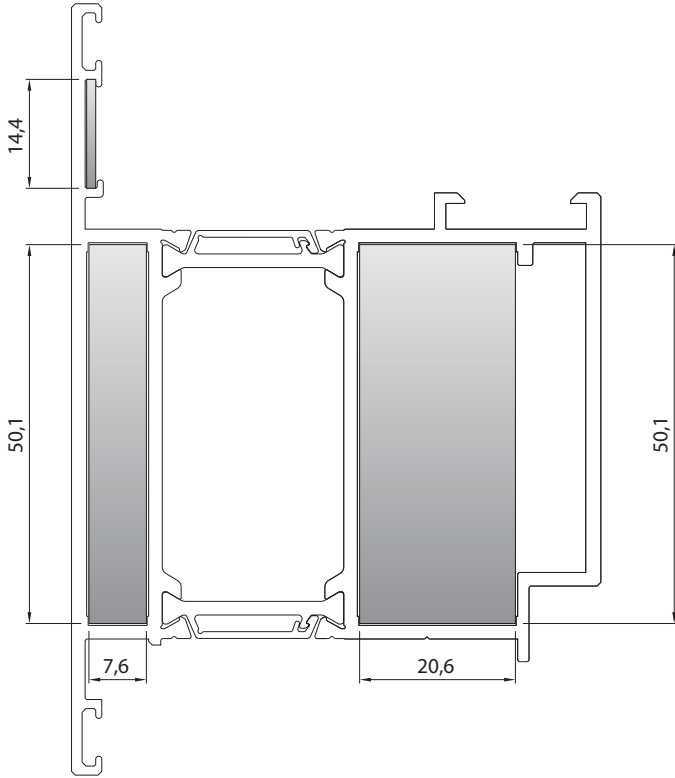
WDS05800

WDS05810



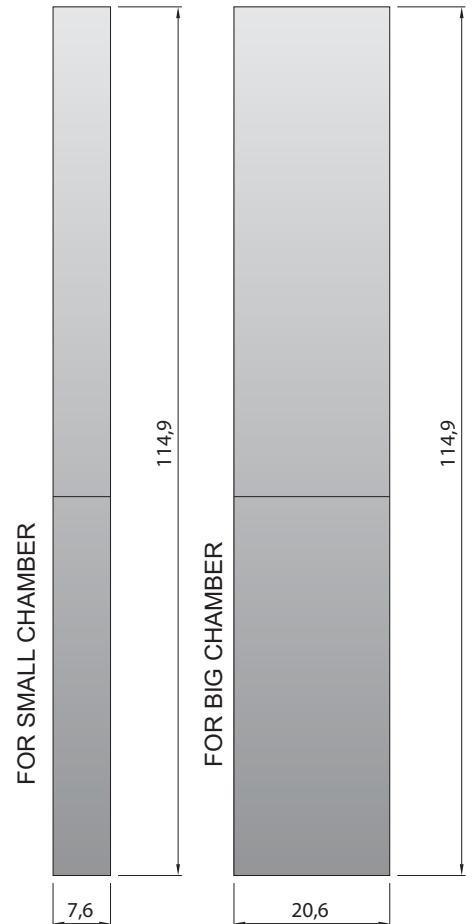
**DETAILS**

**CONNECTION CORNERS FOR PROFILE - 05.1204**



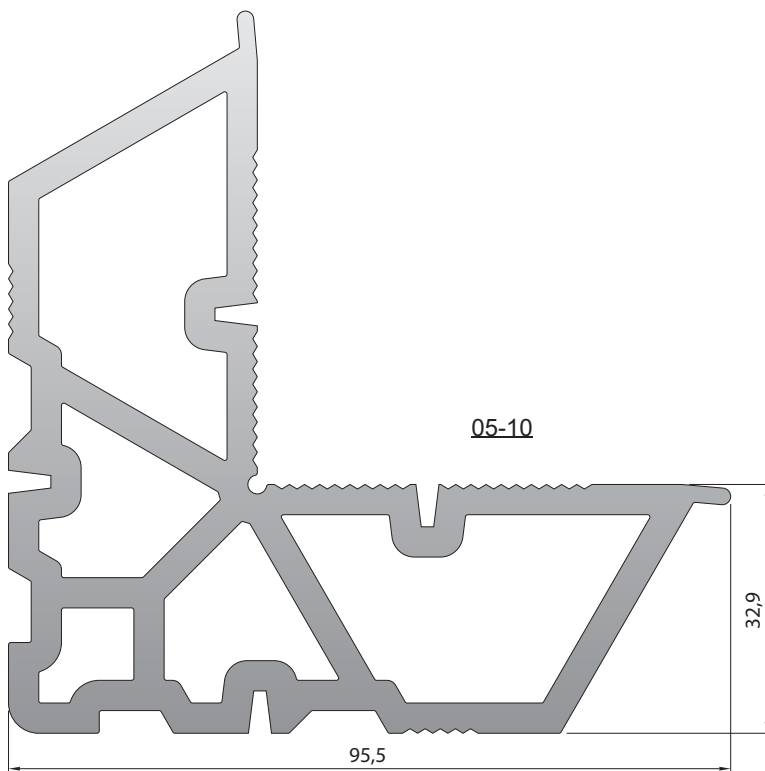
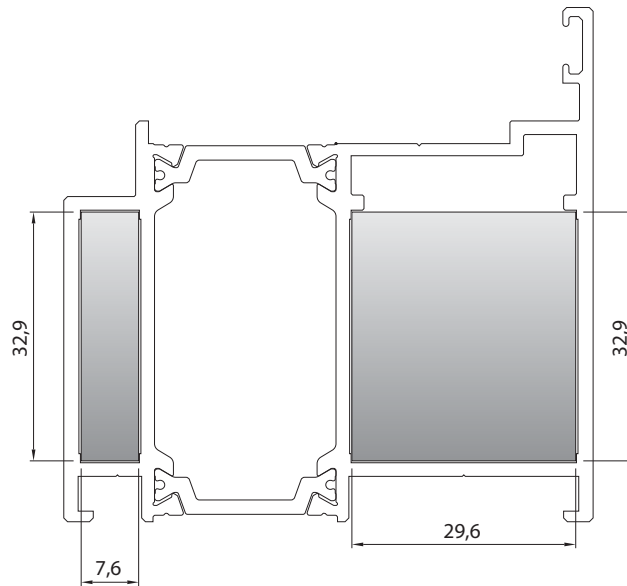
WDS05900

WDS05910



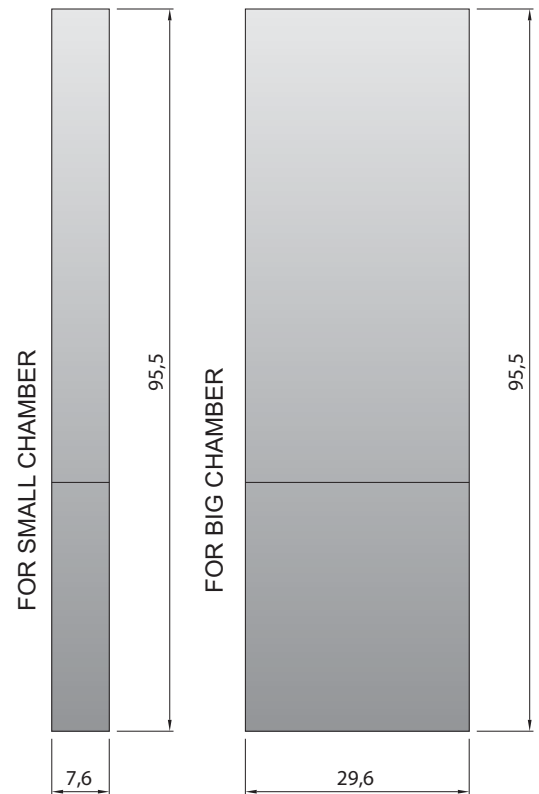
## DETAILS

### CONNECTION CORNERS FOR PROFILE - 05.1104

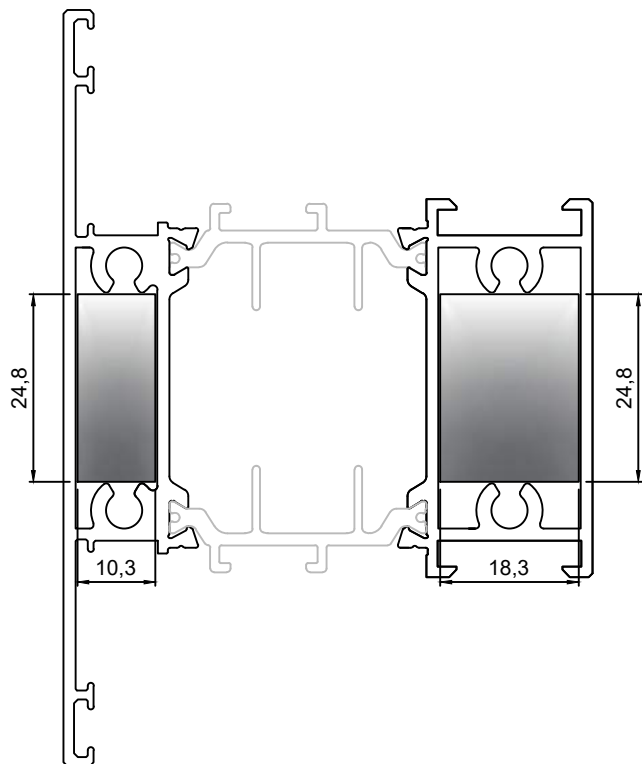


WDS05100

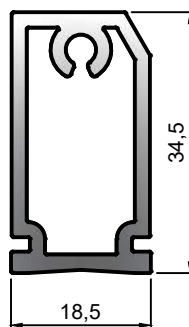
WDS05101



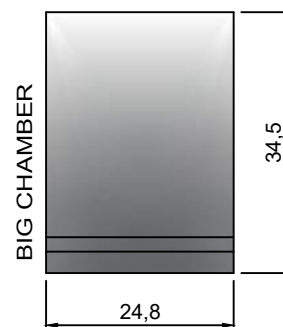
## CONNECTION CORNERS FOR MULLION - 05.0301



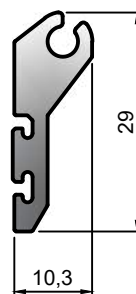
05-3



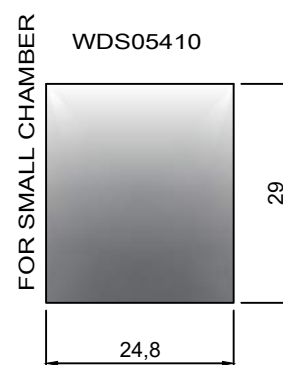
WDS05300



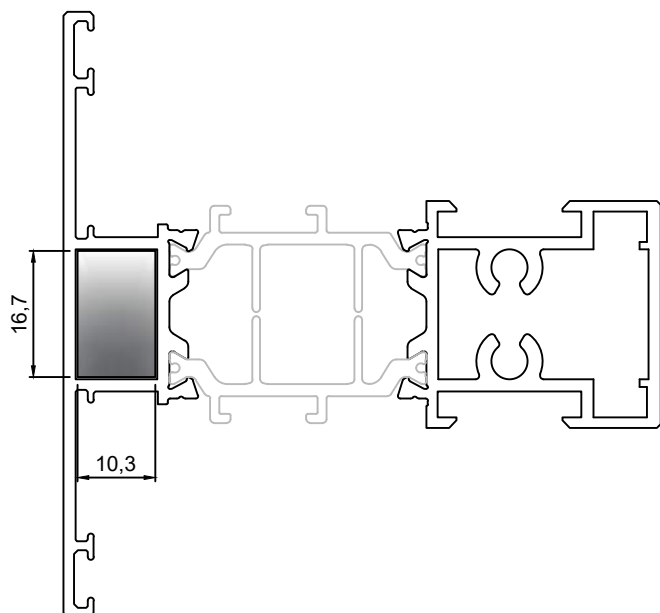
05-4



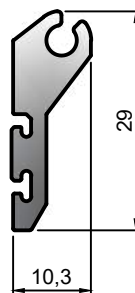
WDS05410



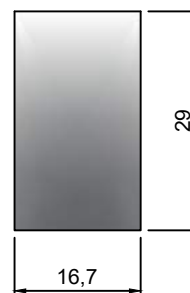
## CONNECTION CORNER FOR MULLION - 05.0309



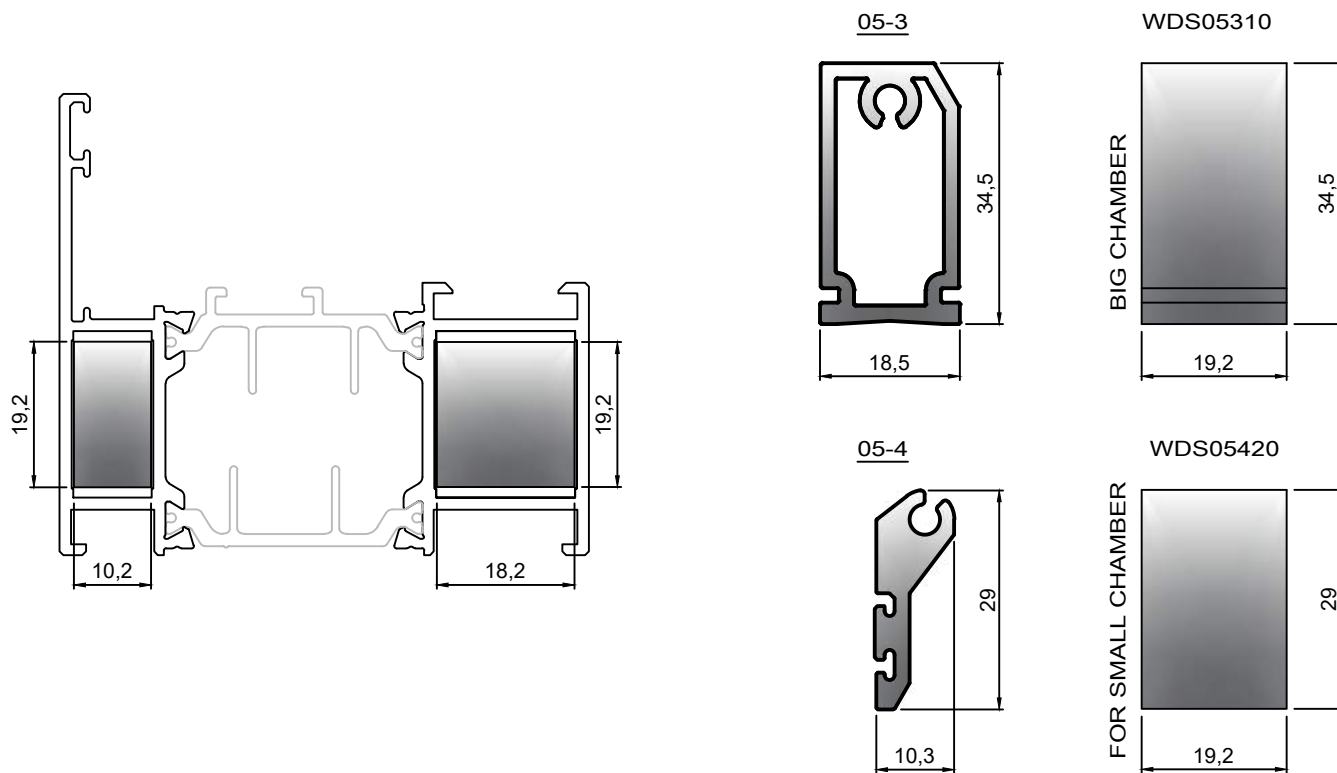
05-4



WDS05400



## CONNECTING MULLIONS 05 0302 AND 05 0303 WITH FRAME 05 0101





## ACCESSORIES

Gasket:  
US11.5100



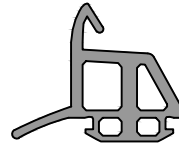
Gasket:  
U2



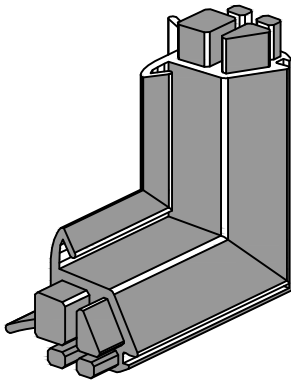
Gasket:  
US11.5102



Gasket:  
US11.5105



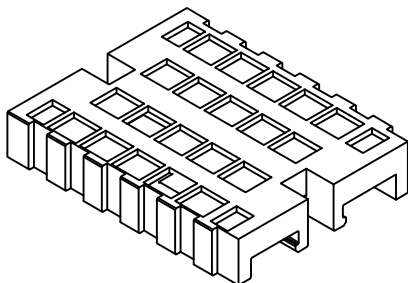
US11.5107



US11.1501

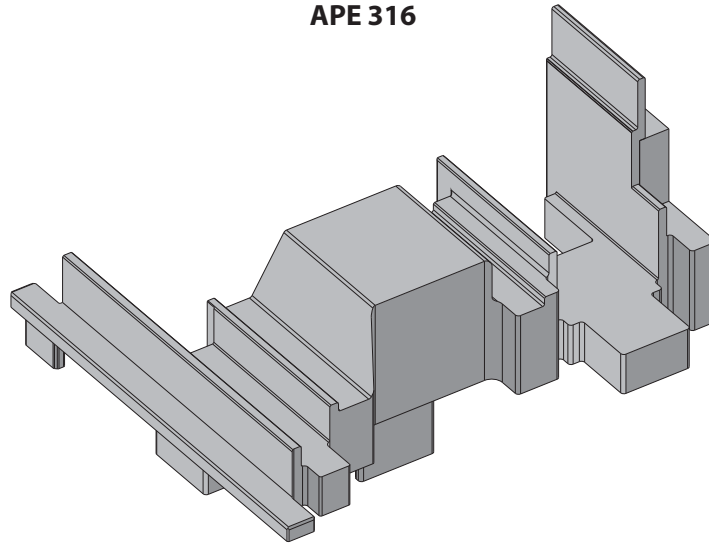


Glazing pad:  
WDS141

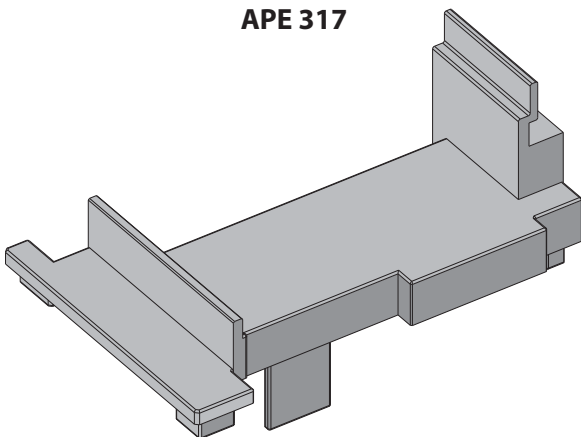


**DETAILS**

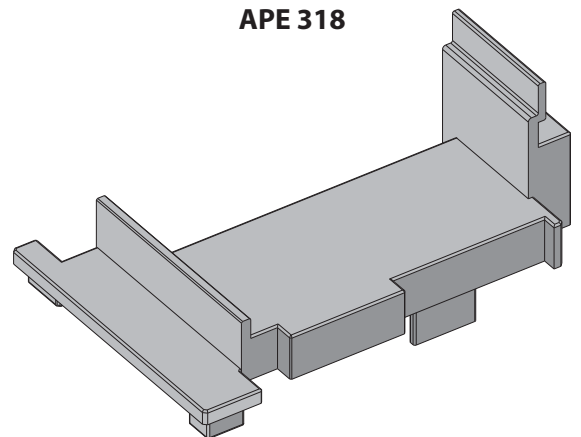
**APE 316**



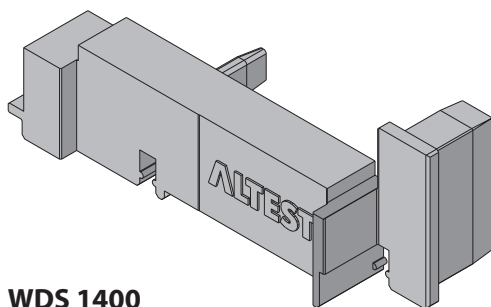
**APE 317**



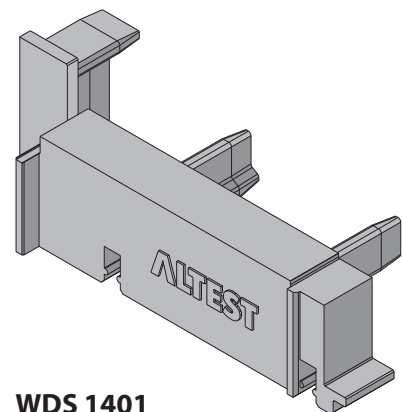
**APE 318**



**WDS 1400**



**WDS 1401**






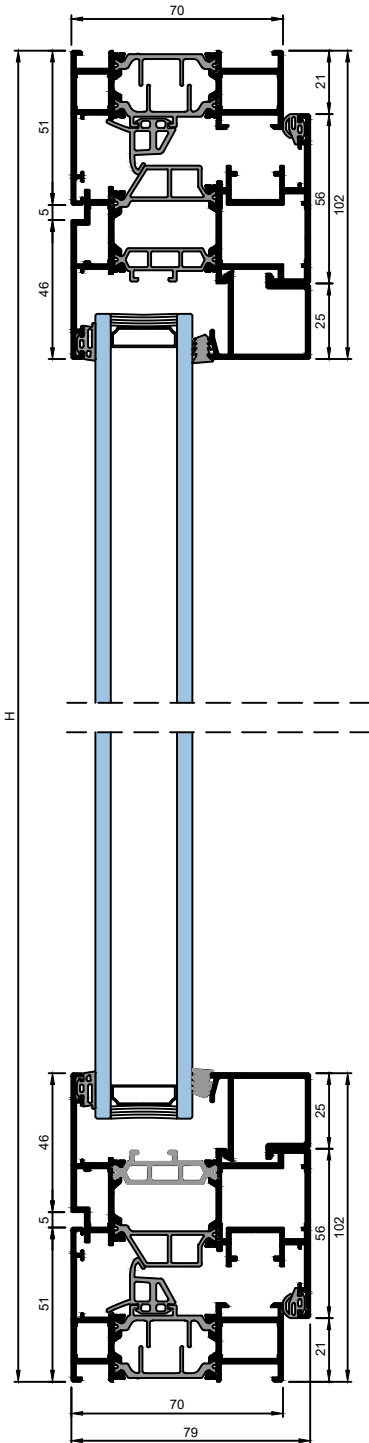
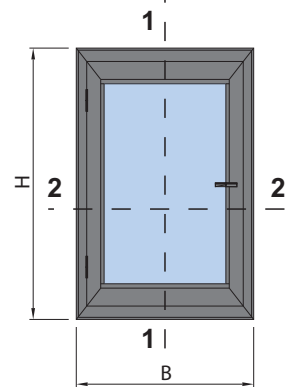
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# **SCHEMES**

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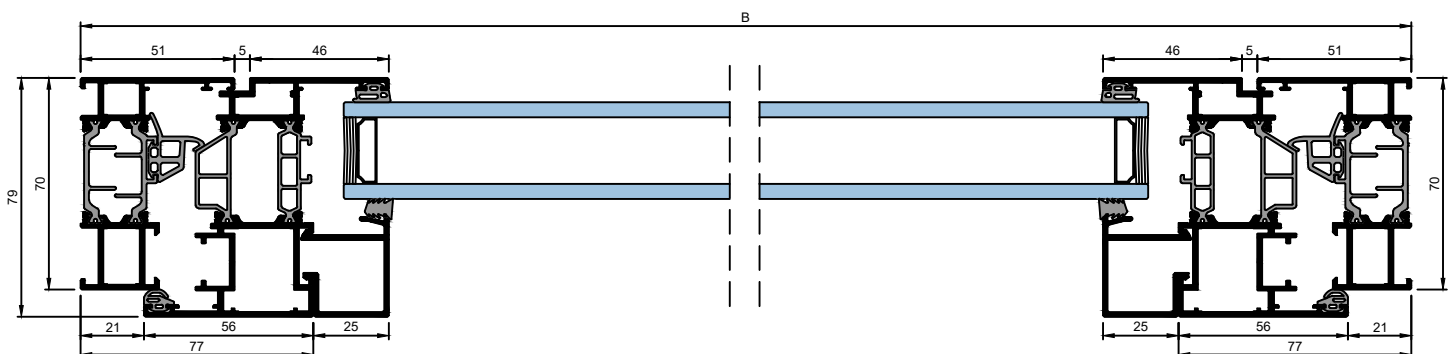
## SCHEMES

FRAME	2pcs=B	
	2pcs=H	
SASH	2pcs=B-42 mm	
	2pcs=H-42mm	
For frame: 05.0100		
GLASSHOLDER	2pcs=B-154mm	
	2pcs=B-204mm	
For frame: 05.0100 Sash: 05.0205		
GLASS WIDTH	GW=B-169 mm	
GLASS HEIGHT	GH=H-169 mm	

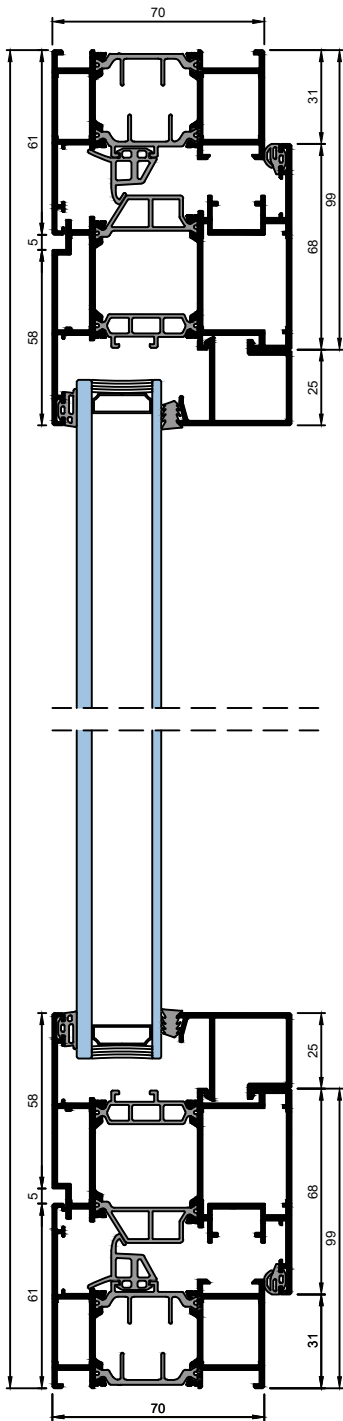


1-1

2-2

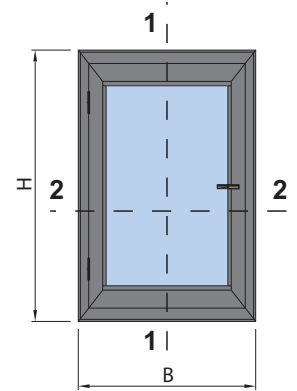


## SCHEMES

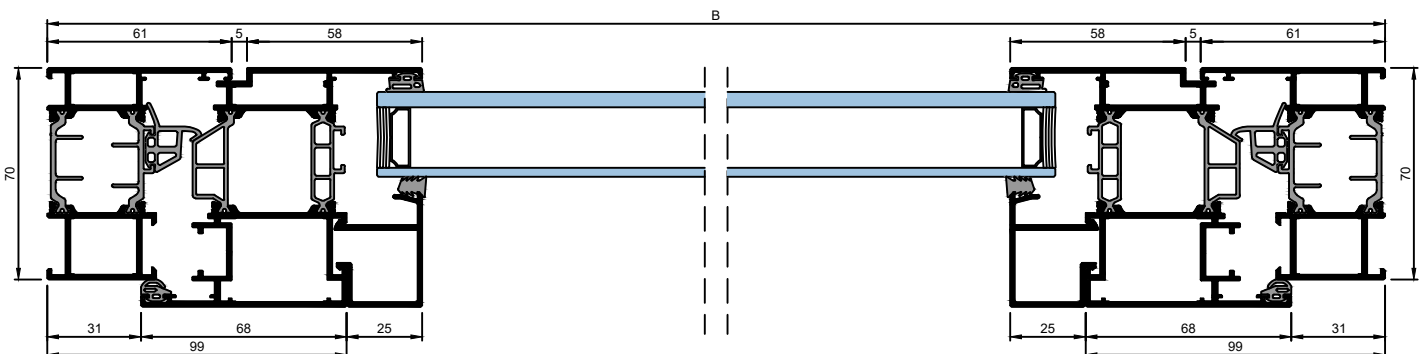


1-1

FRAME	2pcs=B	
	2pcs=H	
SASH	2pcs=B-62 mm	
	2pcs=H-62mm	
For frame: 05.0101		
GLASSHOLDER	2pcs=B-198mm	
	2pcs=H-248mm	
For frame: 05.0101 Sash: 05.0211		
GLASS WIDTH	GW=B-213mm	
GLASS HEIGHT	GH=H-213 mm	

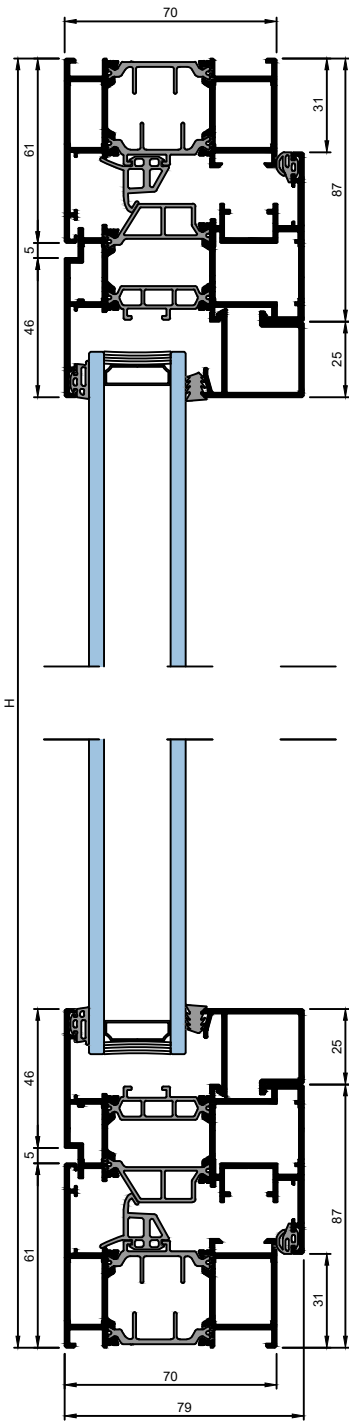
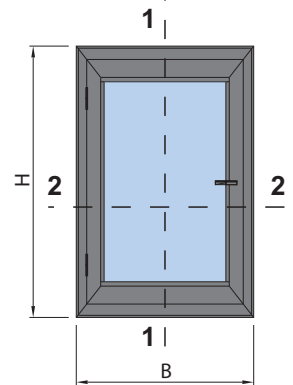


2-2



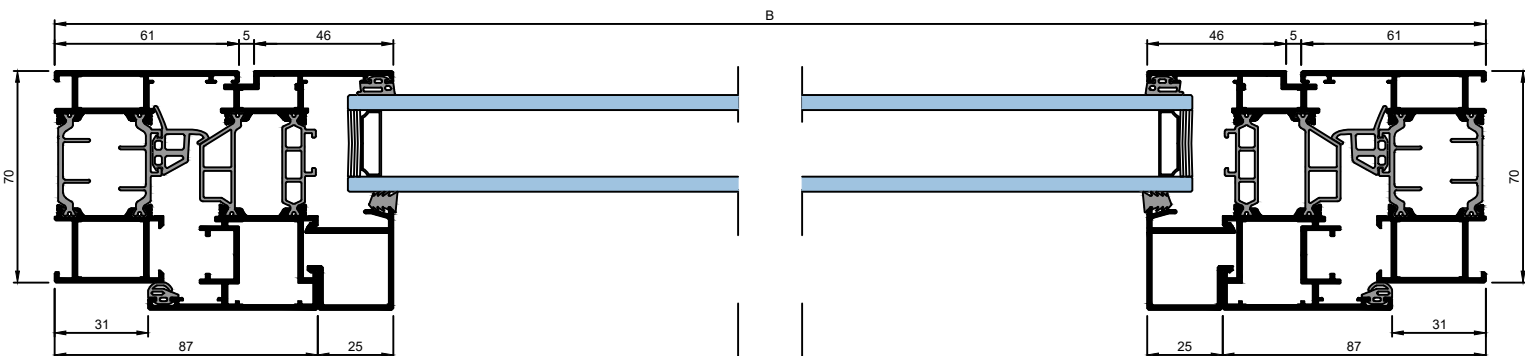
## SCHEMES

FRAME	2pcs=B	
	2pcs=H	
SASH	2pcs=B-62 mm	
	2pcs=H-62mm	
For frame: 05.0101		
GLASSHOLDER	2pcs=B-174mm	
	2pcs=H-224mm	
For frame: 05.0101 Sash: 05.0205		
GLASS WIDTH	GW=B-189 mm	
GLASS HEIGHT	GH=H-189 mm	

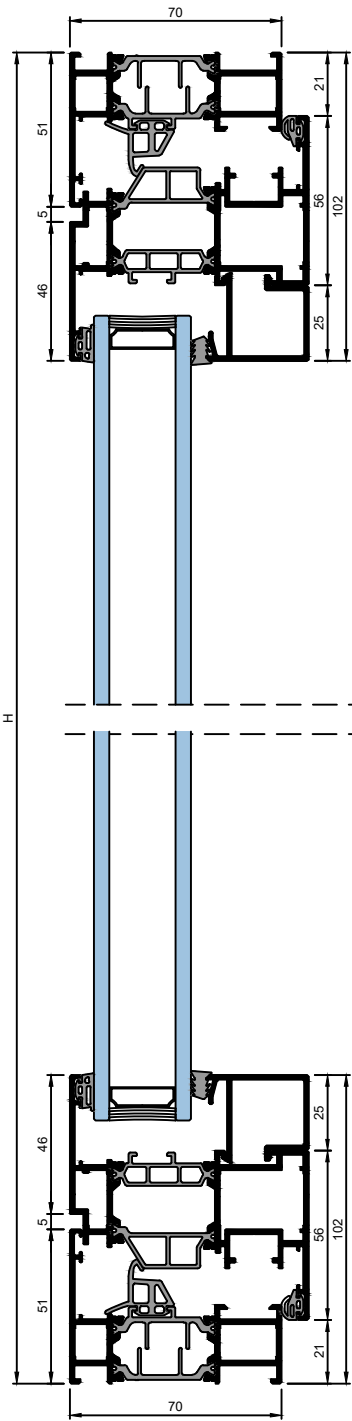


1-1

2-2

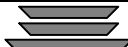




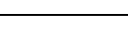
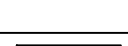




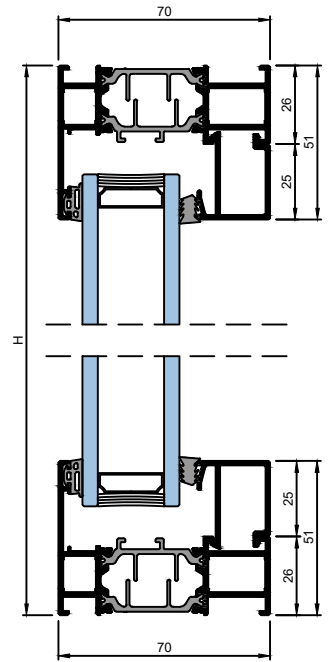
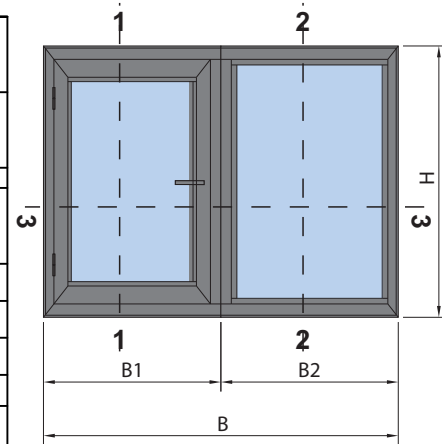
## SCHEMES



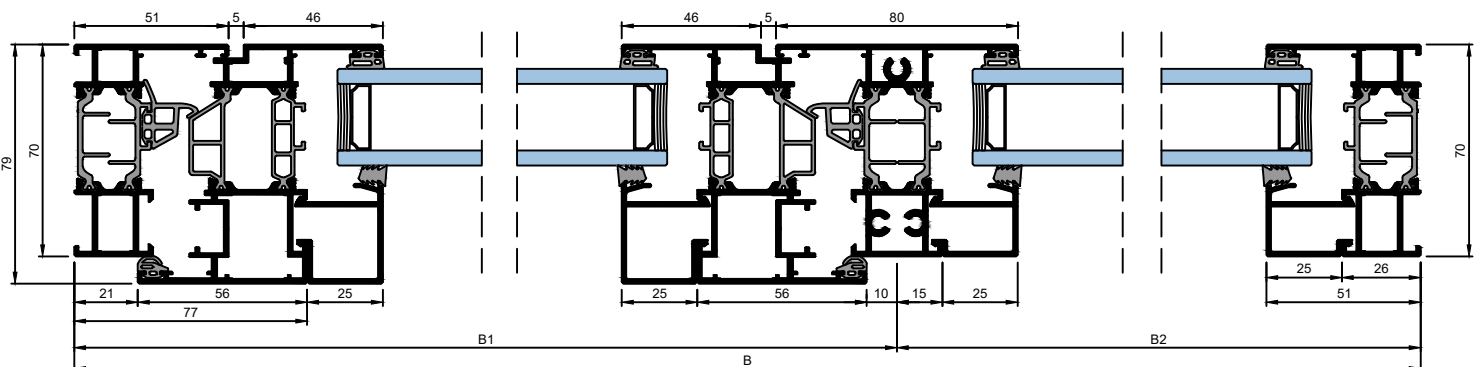
1-1

2-2

FRAME	2pcs=B	
	2pcs=H	
SASH only for 05.0205*	2pcs=B1-31 mm	
	2pcs=H-42mm	
For frame: 05.0100		
GLASSHOLDERS	2pcs=B1-143mm	
	2pcs=H-204mm	
	2pcs=B2-41mm	
	2pcs=H-102mm	
For frame: 05.0100		
MULLION	1pcs=H-52mm	
For frame: 05.0100 Sash: 05.0205		
GLASS WIDTH	GW <sub>1</sub> =B <sub>1</sub> -158 mm; GW <sub>2</sub> =B <sub>2</sub> -56 mm	
GLASS HEIGHT	GH=H-169 mm	

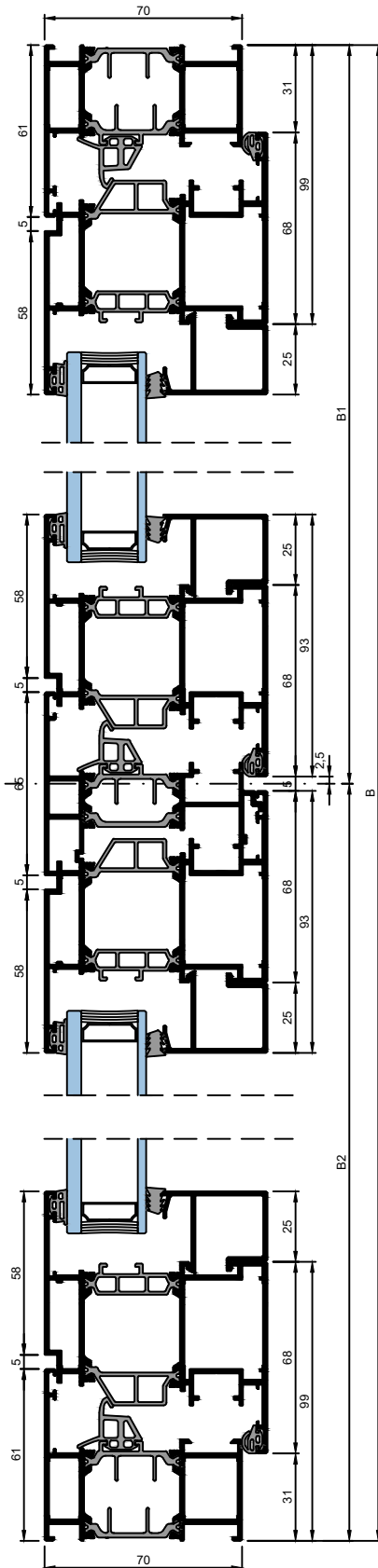


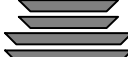

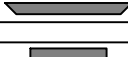


3-3

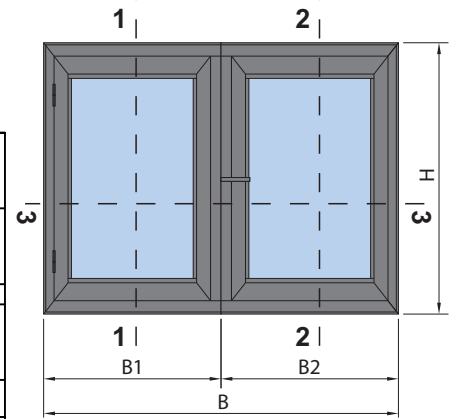


## SCHEMES

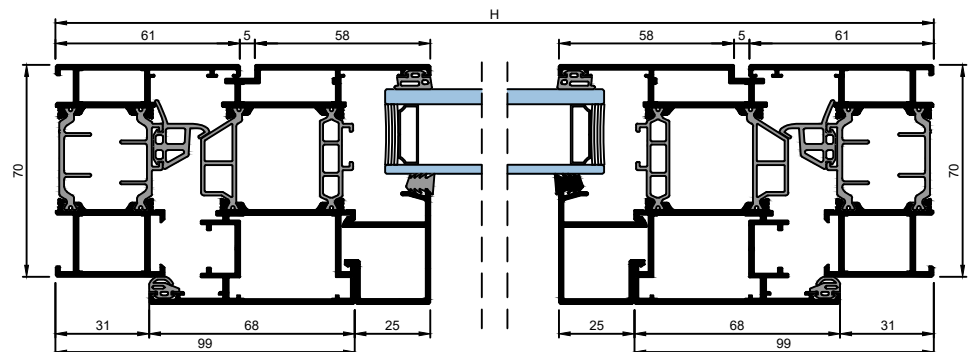
3-3



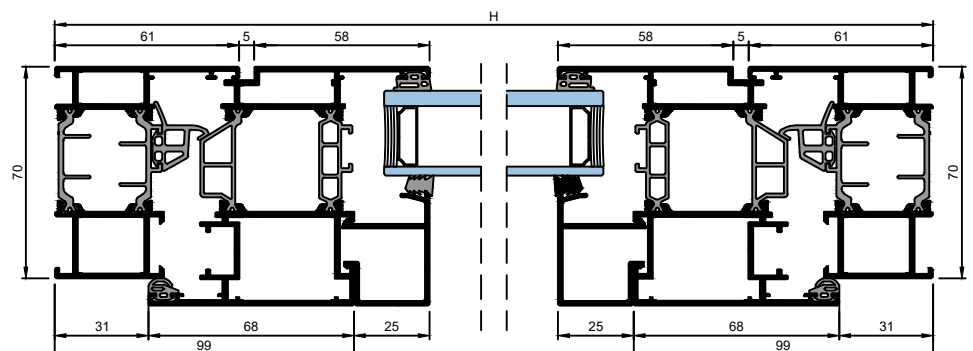
FRAME	2pcs=B	
	2pcs=H	
SASH	2pcs=B1-33.5mm	
	2pcs=B2-33.5mm	
only for 05.0211*	4pcs=H-62mm	
For frame: 05.0101		
GLASSHOLDERS	2pcs=B1-169,5mm	
	4pcs=H-248mm	
	2pcs=B2-169,5mm	
For frame: 05.0101		
OVERHUNG	1pcs=H-131,6mm	
For frame: 05.0101 Sash: 05.0211	overhung: 05.0322	
GLASS WIDTH	GW <sub>1</sub> =B <sub>1</sub> -184.5 mm; GW <sub>2</sub> =B <sub>2</sub> -184.5 mm	
GLASS HEIGHT	GH=H-213 mm	



1-1



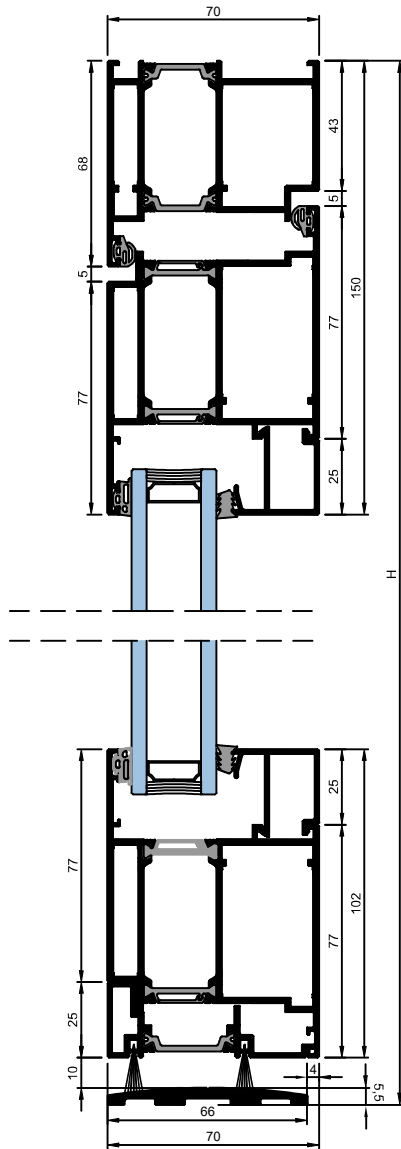
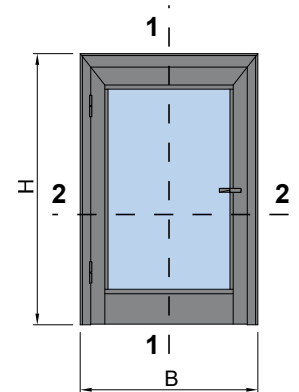
2-2





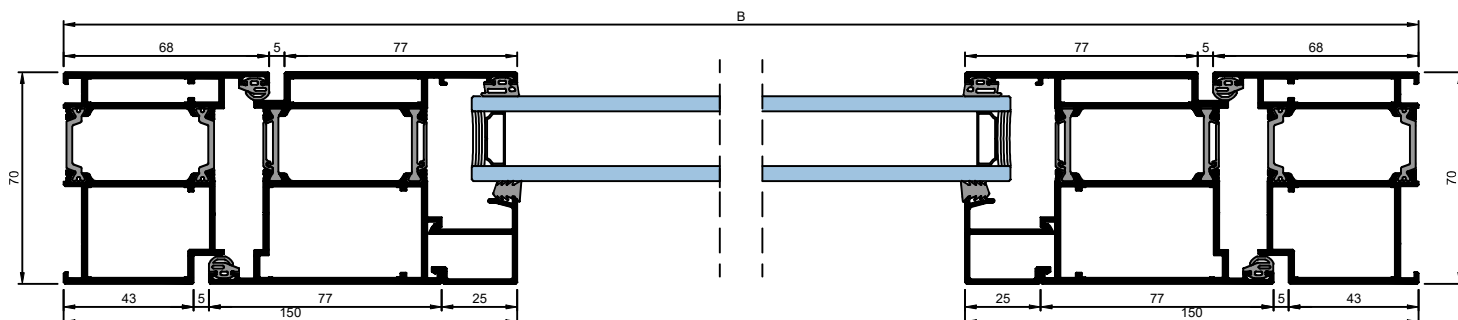
## SCHEMES

FRAME	1pcs=B	
	2pcs=H	
SASH	1pcs=B-96 mm	
	2pcs=H-63,5mm	
ADD ON	1pcs=B-150mm	
KICKPLATE	1pcs=B-106mm	
For sash: 05.1203	For kickplate: 05.1410	
GLASSHOLDER	2pcs=B-250mm	
	2pcs=H-267,5mm	
GLASS	Glass width=B-265mm	
	Glass height=H-232,5mm	



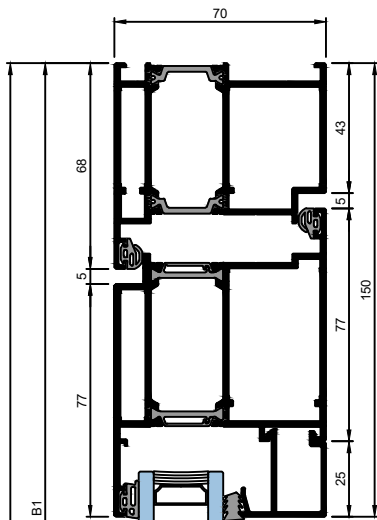
1-1











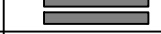

2-2

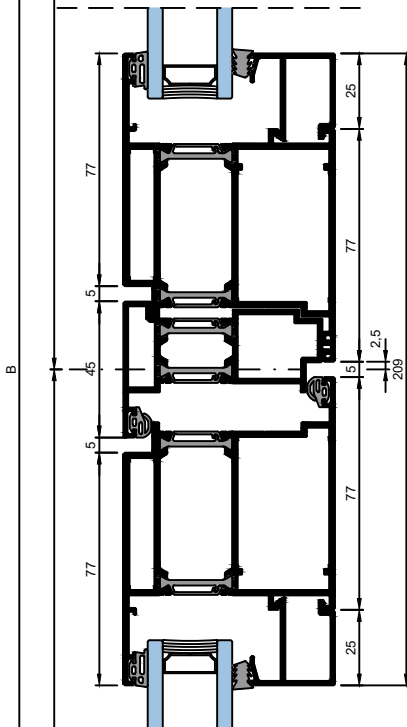
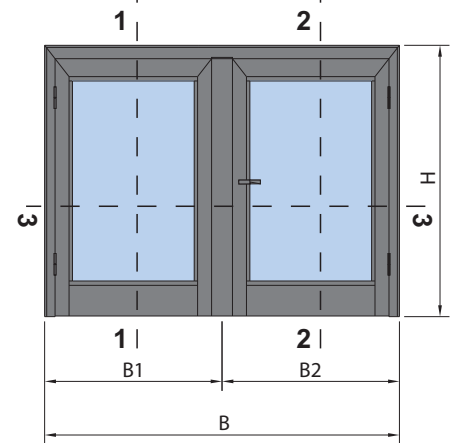


## SCHEMES

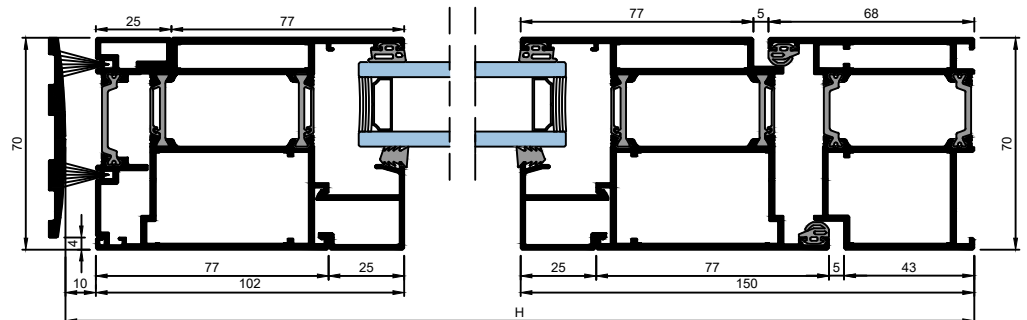
3-3



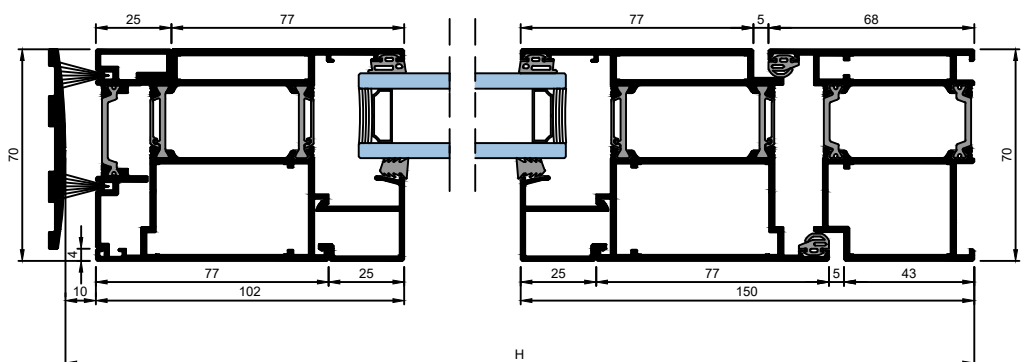
FRAME	1pcs=B	
	2pcs=H	
SASH *only for 05 1203	2pcs=B1-50,5mm	
	2pcs=B2-50,5mm	
	4pcs=H-58mm	
ADD ON	1pcs=B1-104,5mm	
	1pcs=B2-104,5mm	
KICKPLATE *only for 05 1410	1pcs=B-106mm	
		
GLASSHOLDERS	2pcs=B1-204,5mm	
	4pcs=H-262mm	
	2pcs=B2-204,5mm	
GLASS WIDTH	GW <sub>1</sub> =B <sub>1</sub> -219,5 mm; GW <sub>2</sub> =B <sub>2</sub> -219,5 mm	
GLASS HEIGHT	GH=H-227 mm	



1-1



2-2

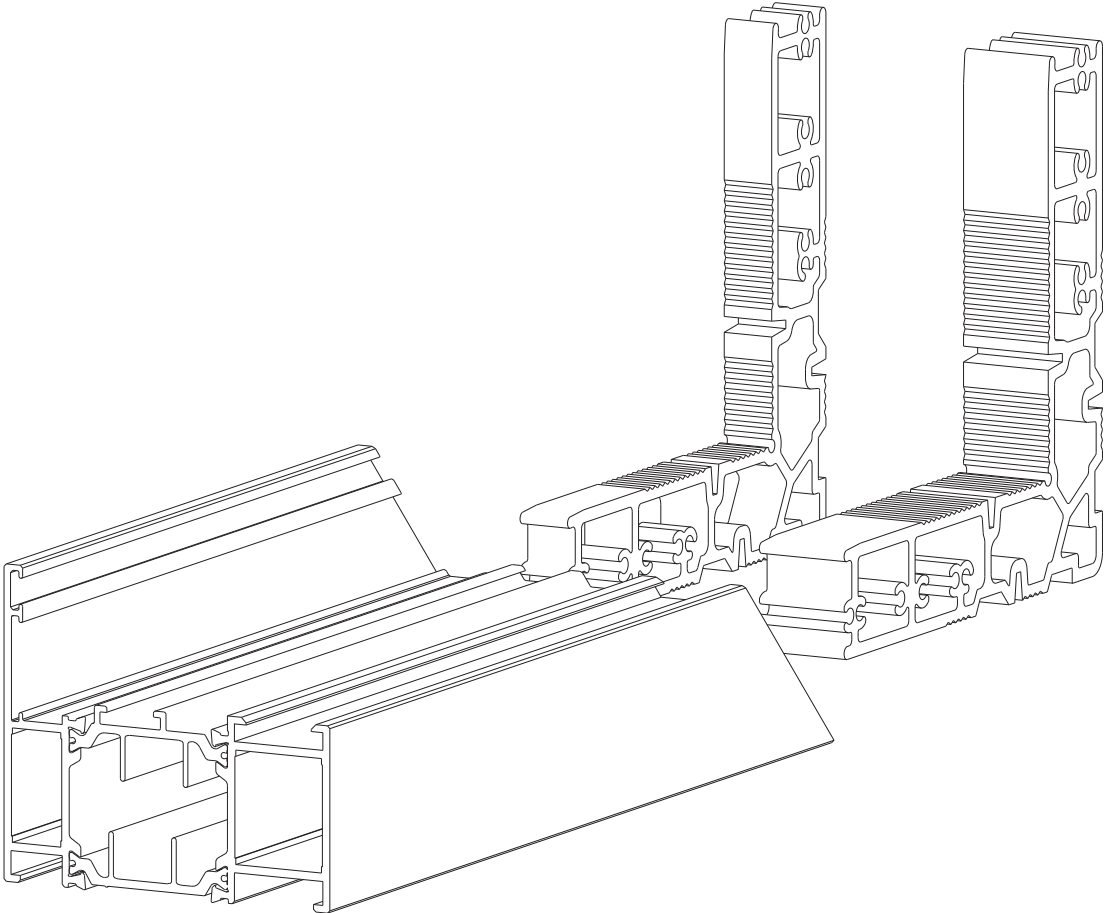
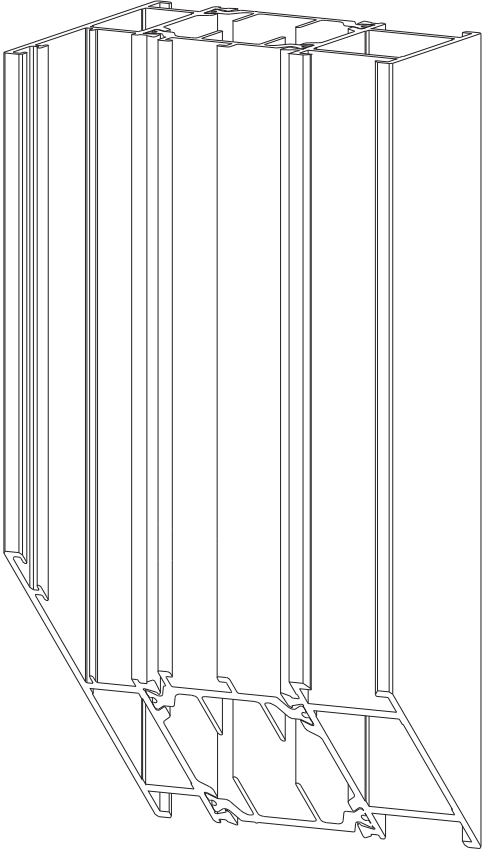


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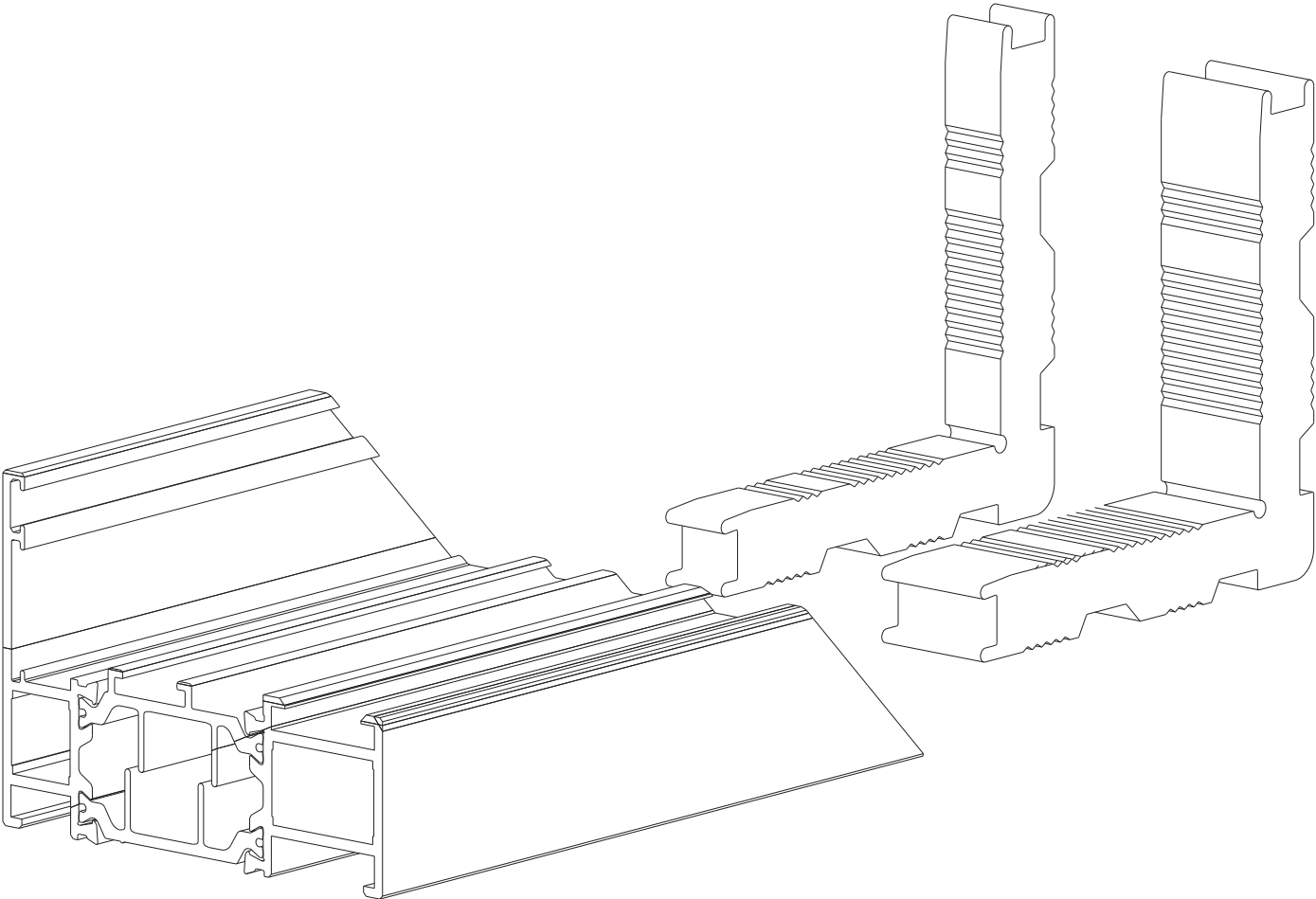
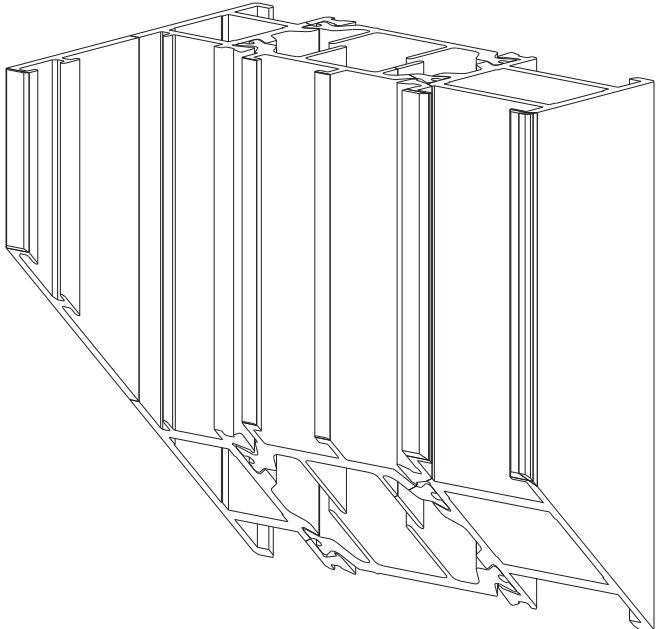
# **THREE DIMENSIONS DETAILS**

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**THREE DIMENSIONS DETAILS**  
CONNECTION FRAME 05 0100

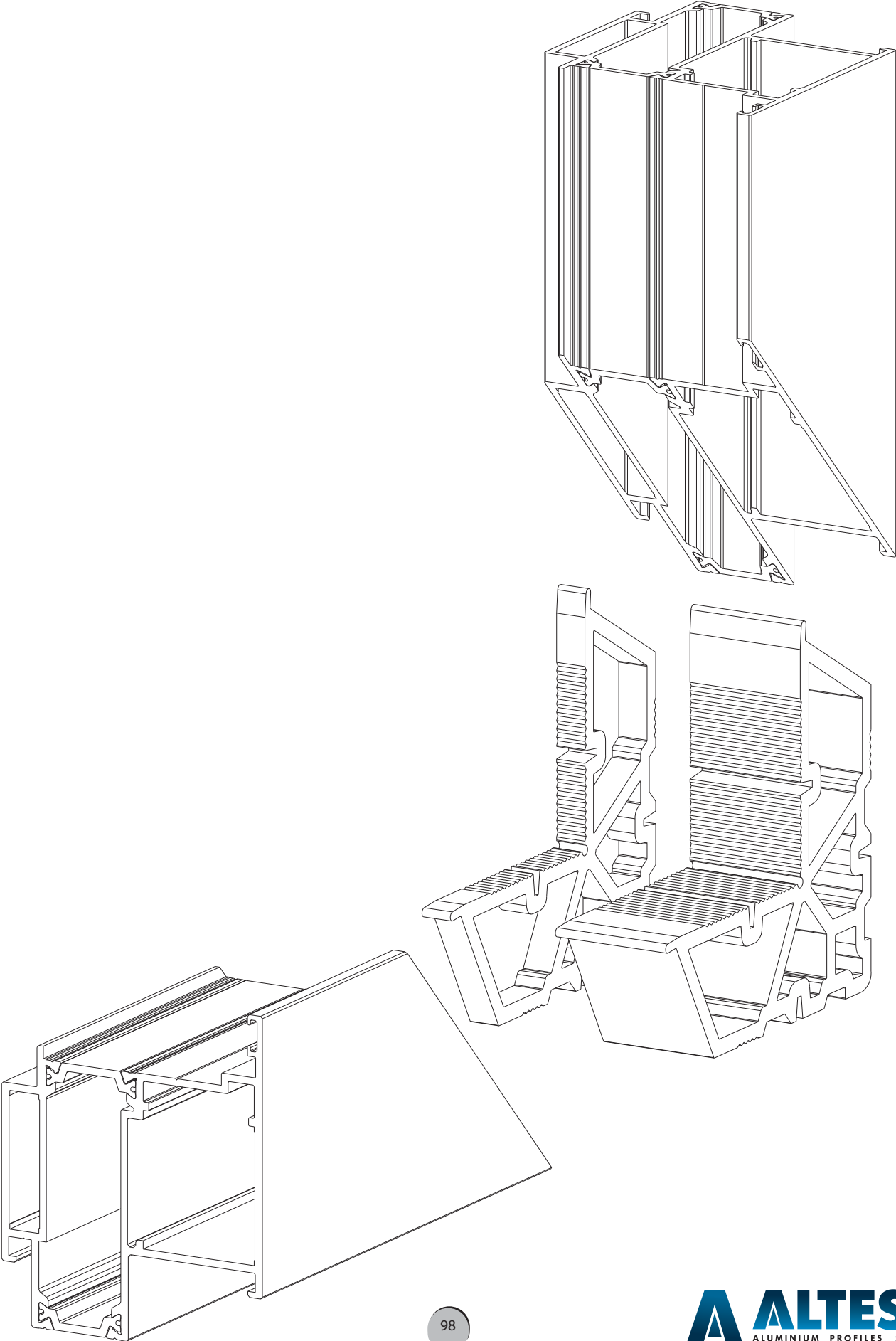


**THREE DIMENSIONS DETAILS**  
CONNECTION FRAME 05 0101

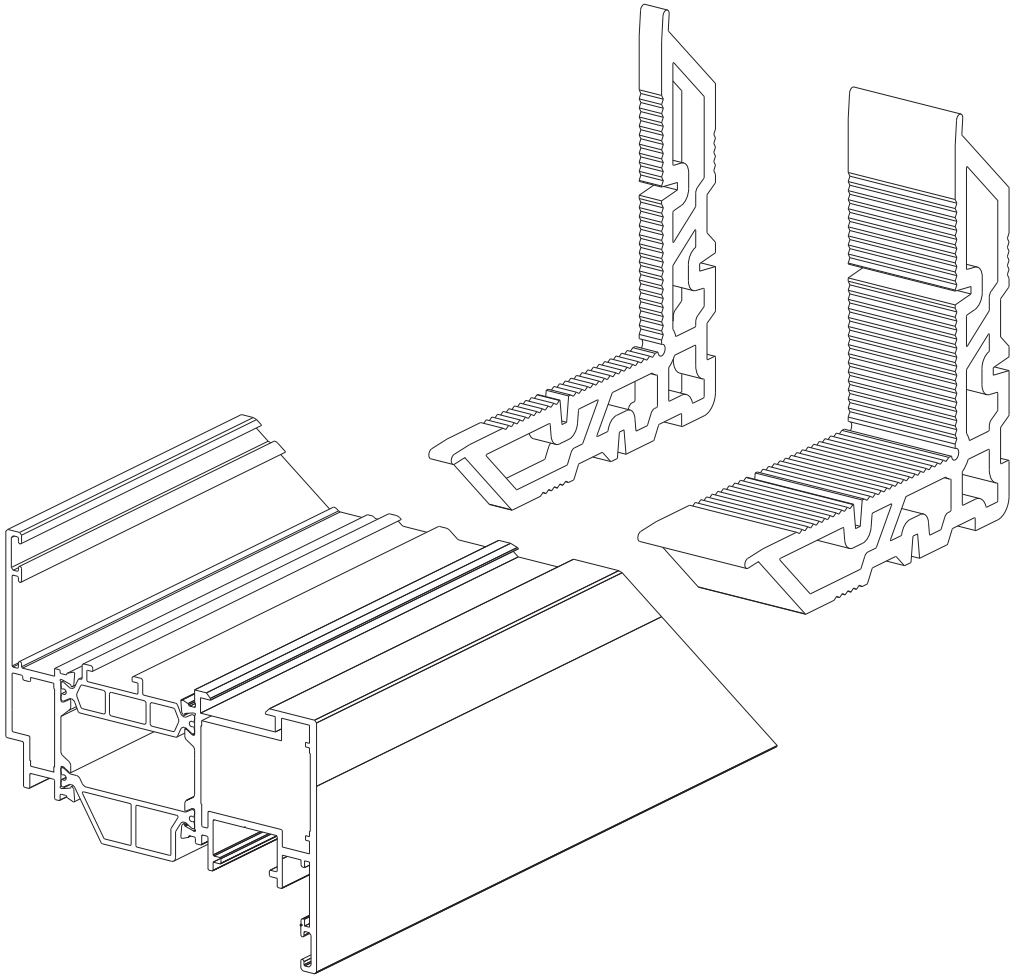
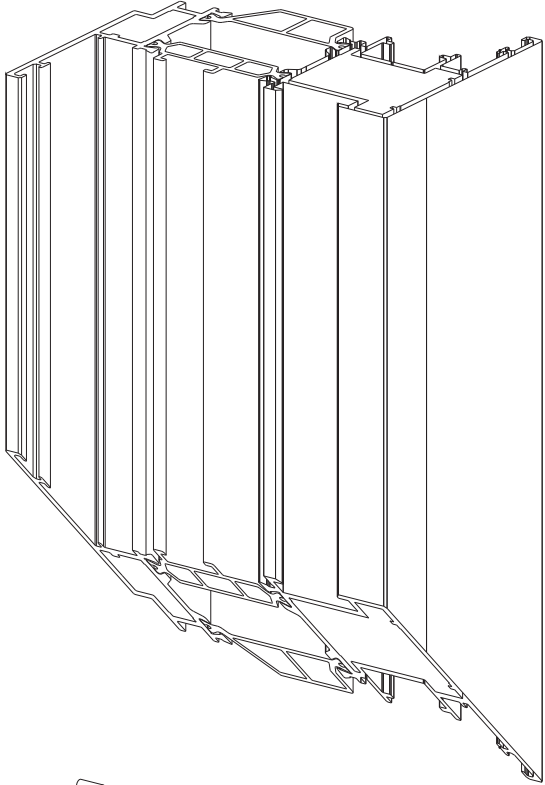


**THREE DIMENSIONS DETAILS**

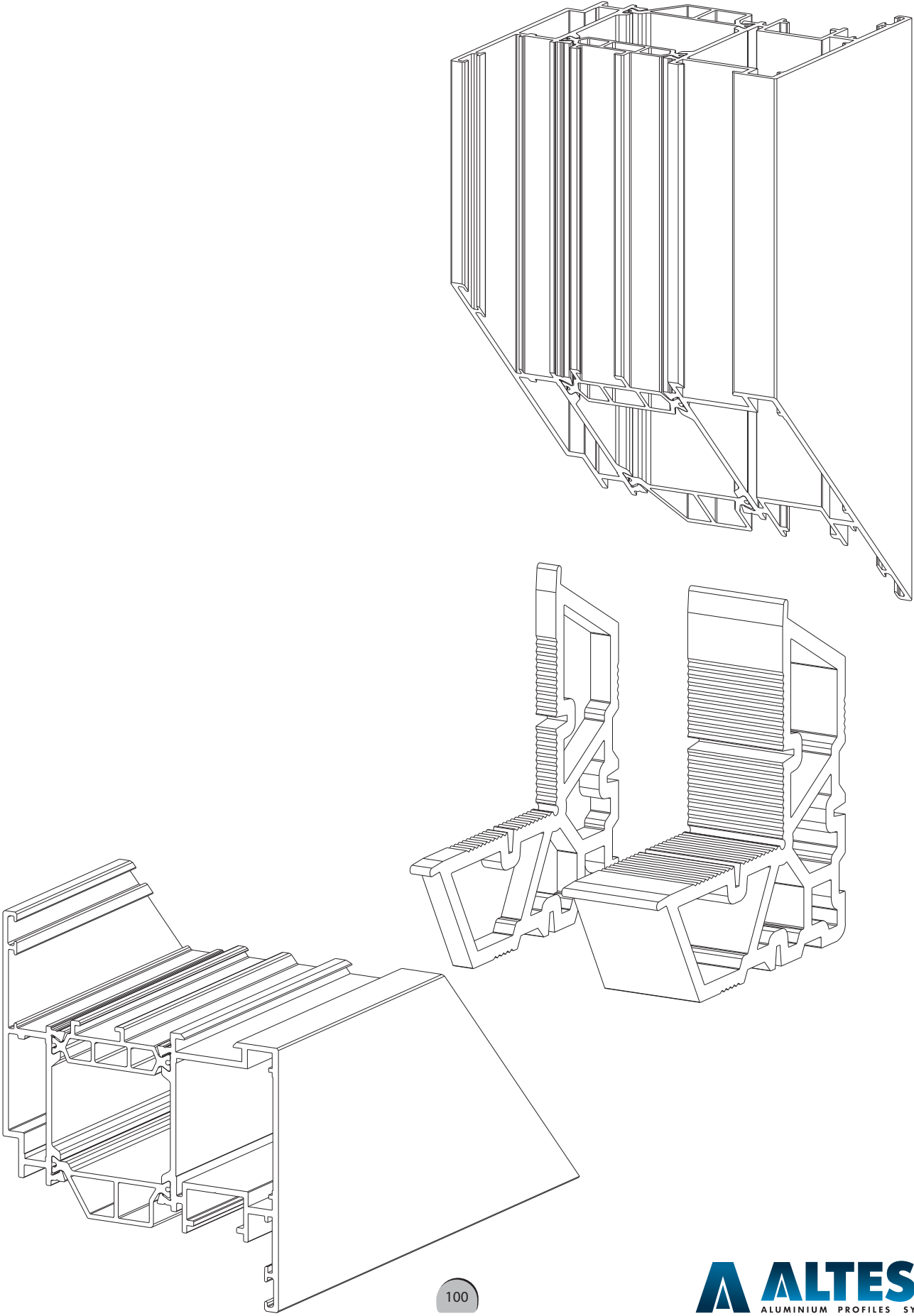
CONNECTION FRAME 05 0102



**THREE DIMENSIONS DETAILS**  
CONNECTION SASH 05 0205



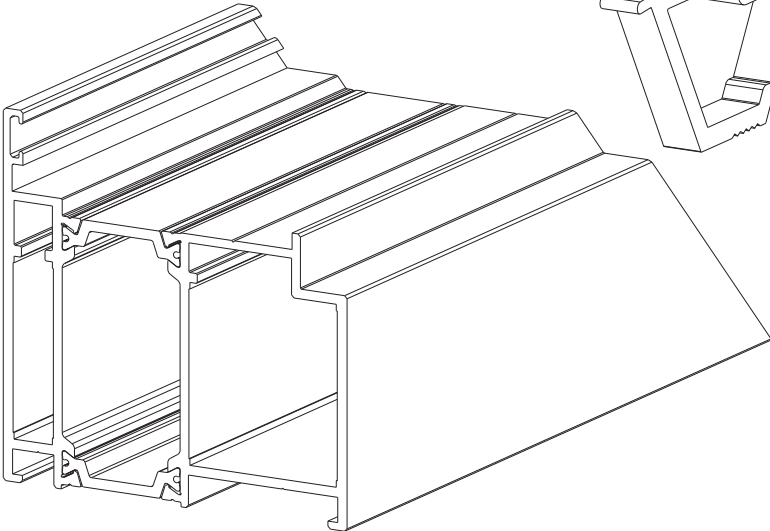
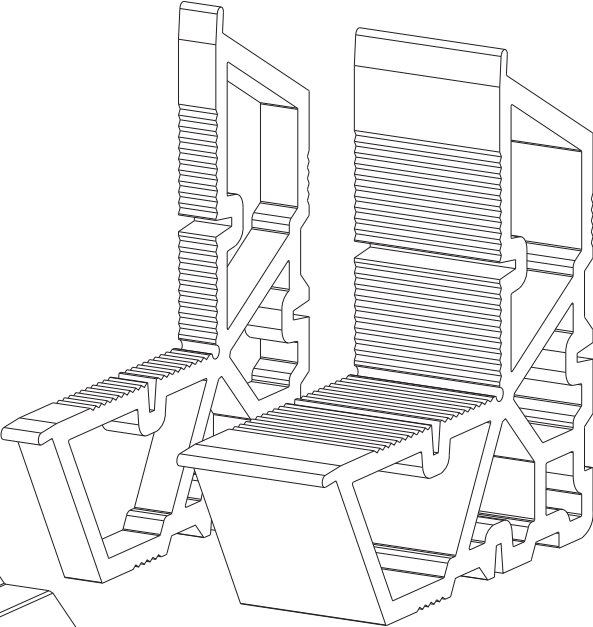
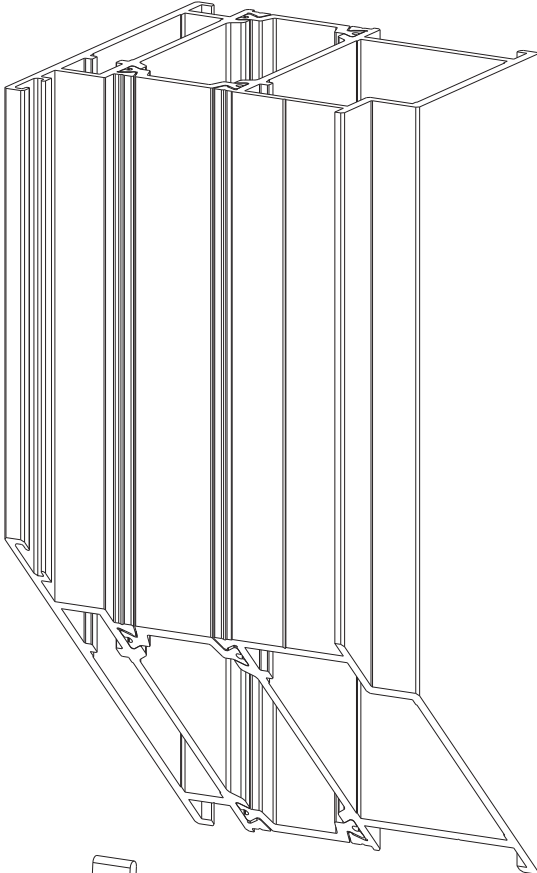
**THREE DIMENSIONS DETAILS**  
CONNECTION SASH 05 0211





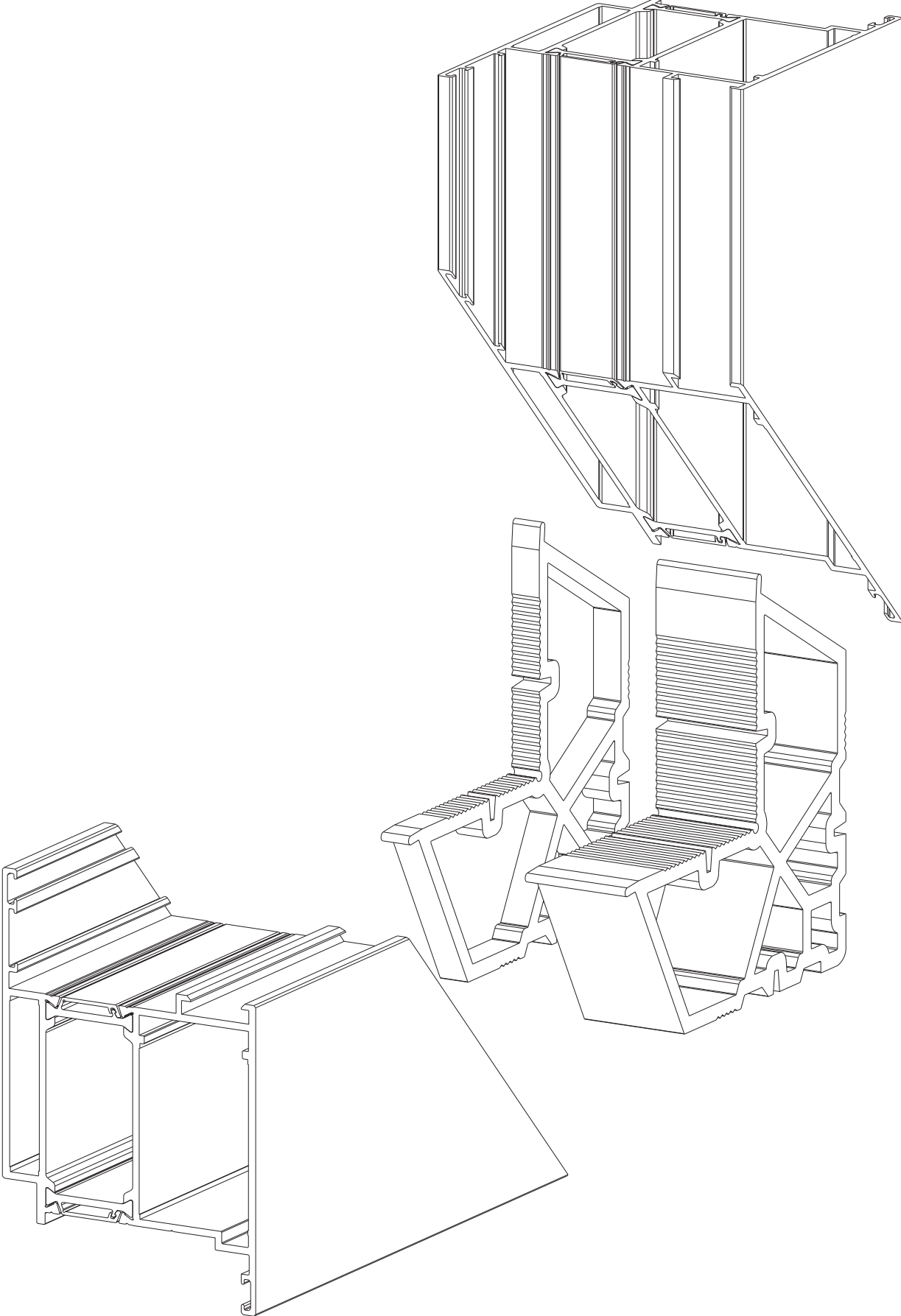
**THREE DIMENSIONS DETAILS**

CONNECTION FRAME 05 1103



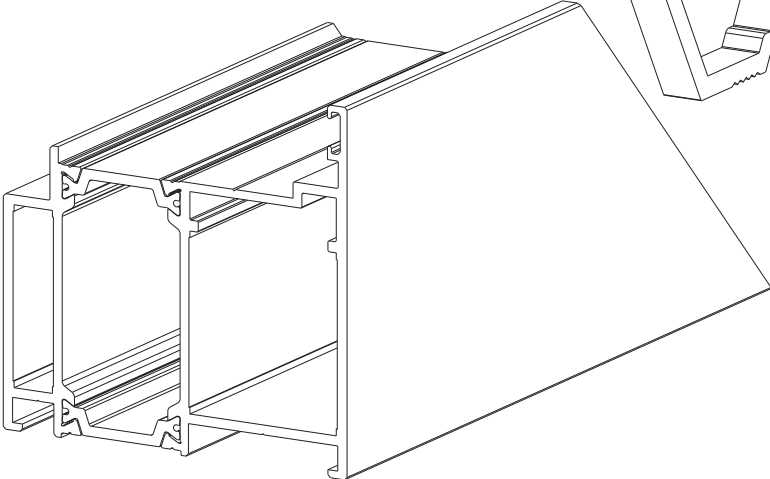
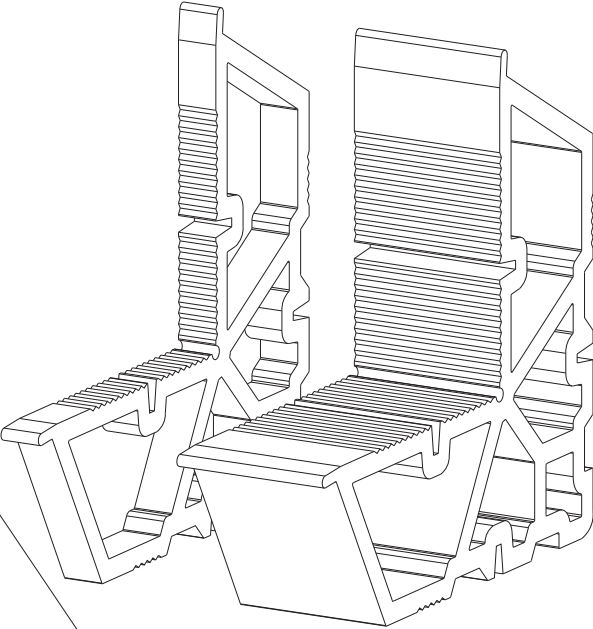
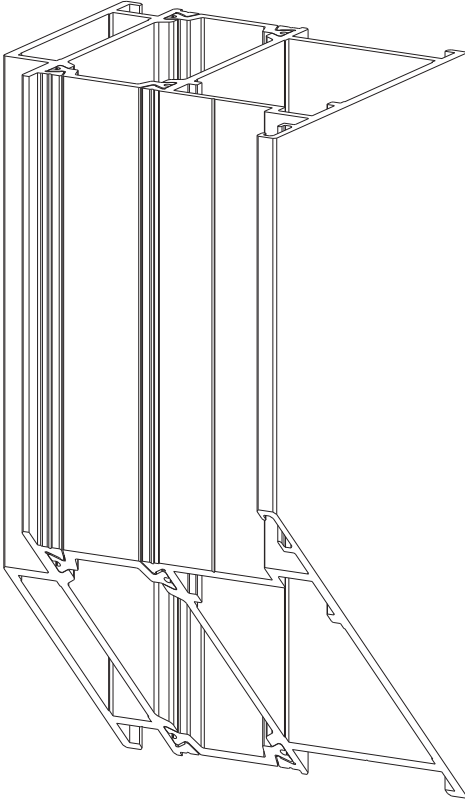
**THREE DIMENSIONS DETAILS**

CONNECTION SASH 05 1203

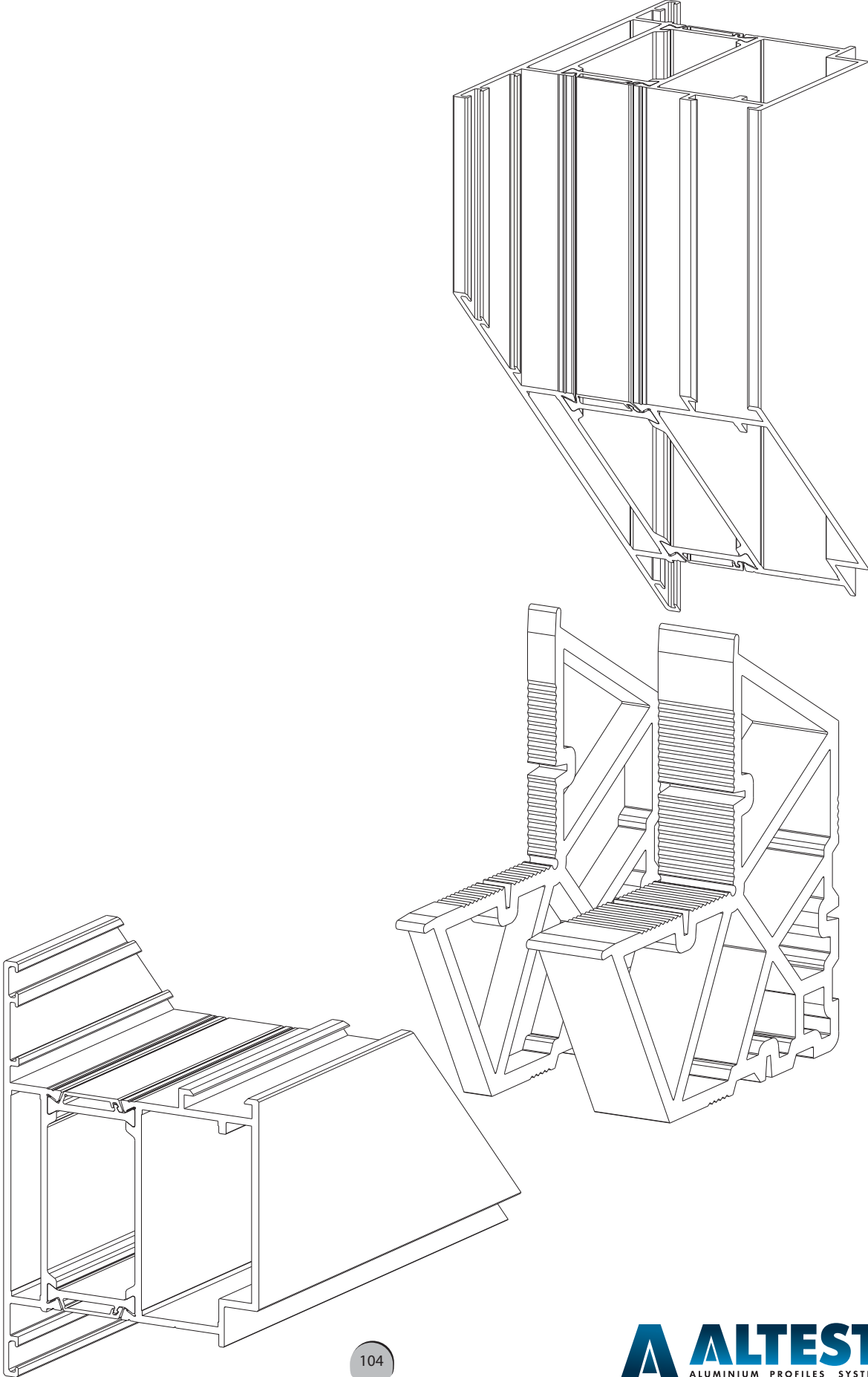


**THREE DIMENSIONS DETAILS**

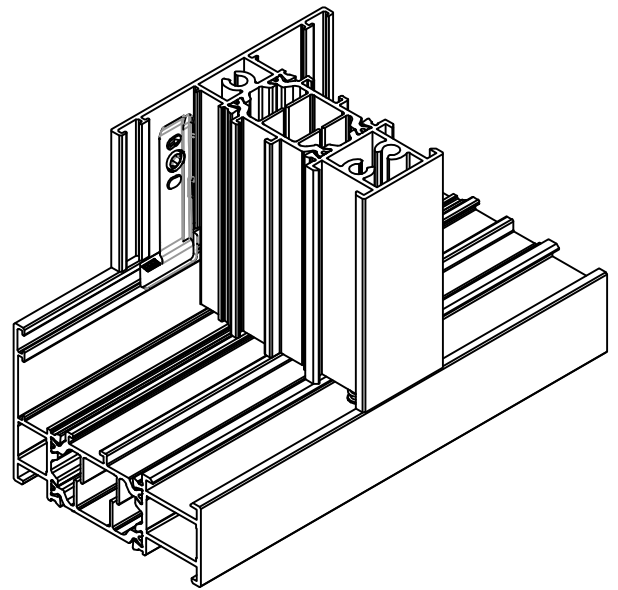
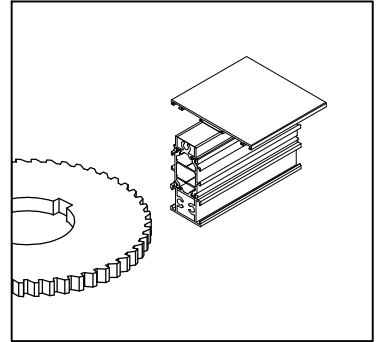
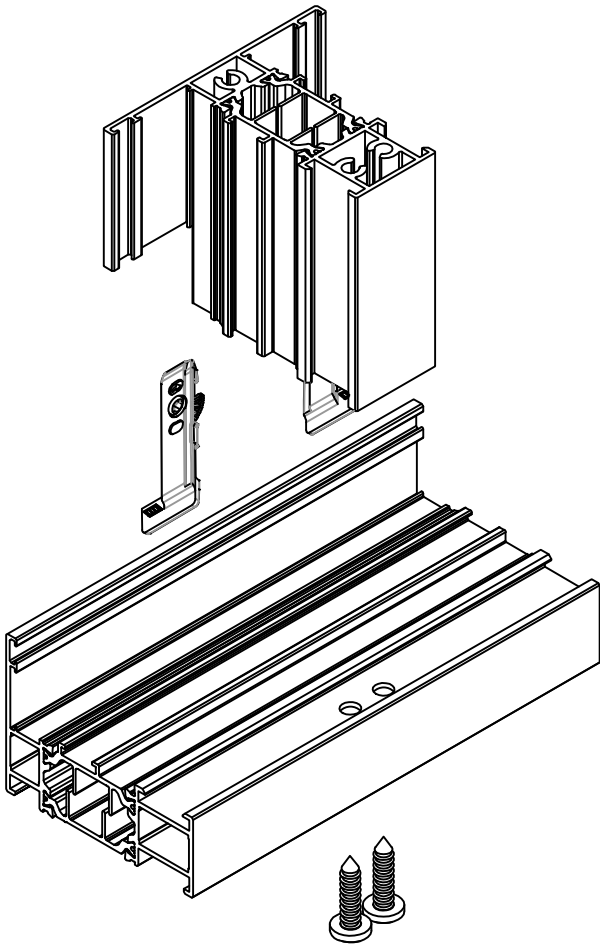
CONNECTION FRAME 05 1104



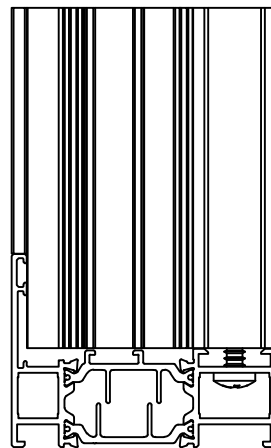
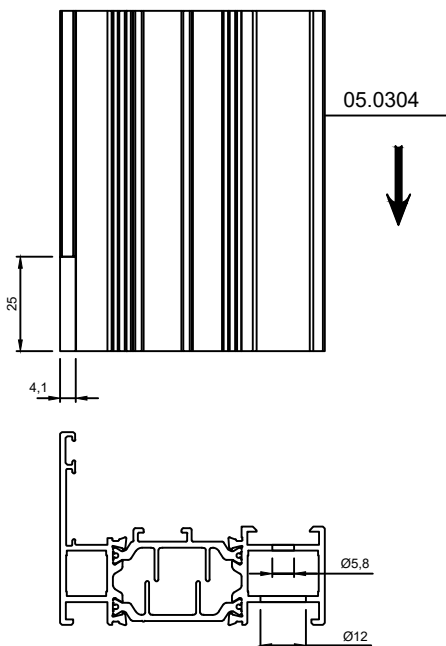
**THREE DIMENSIONS DETAILS**  
CONNECTION SASH 05 1204



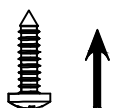
CONNENCTION "T" PROFILE 05.0304 WITH FRAME 05.0100  
AND CUTTING OF "T" PROFILE



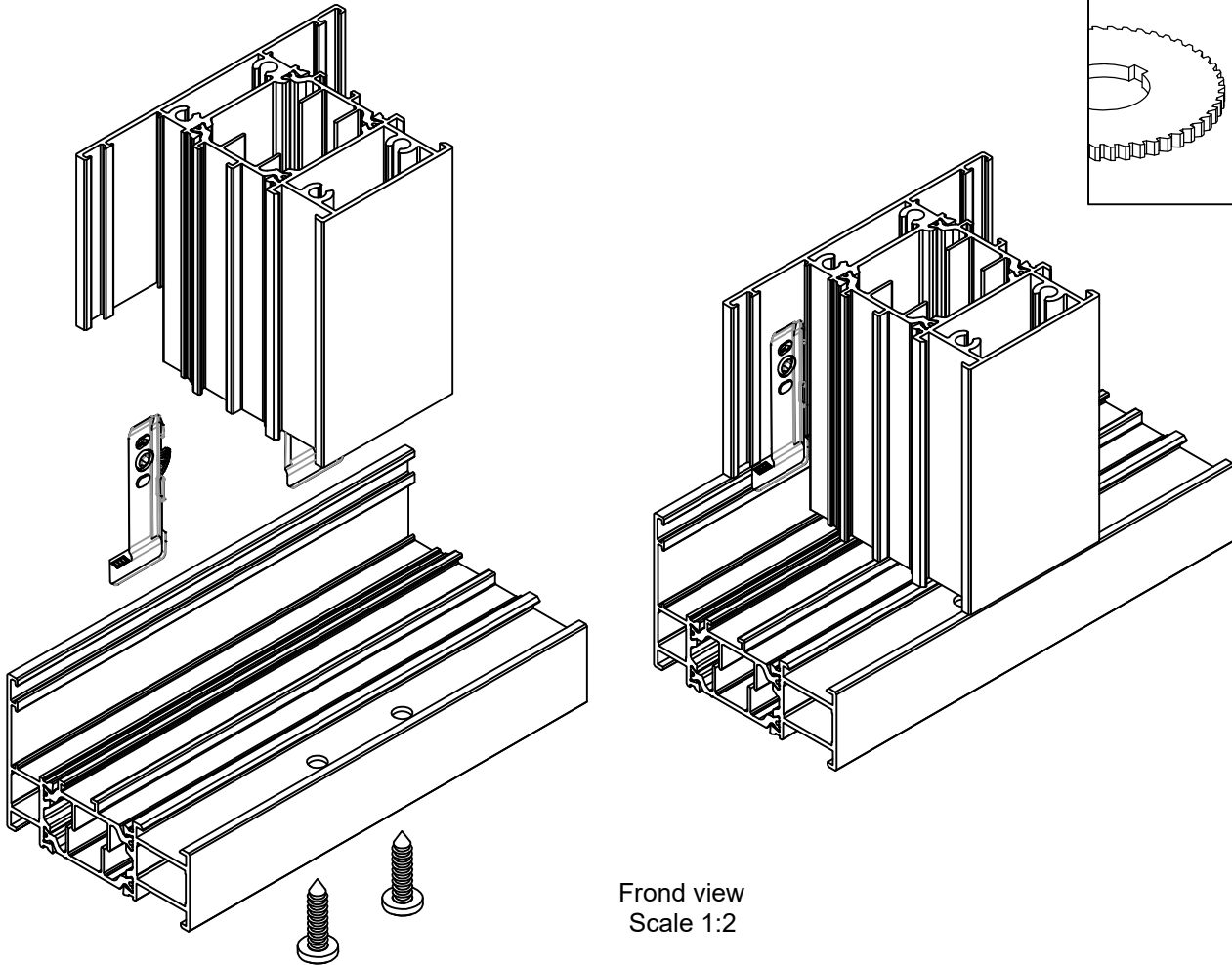
Front view  
Scale 1:2



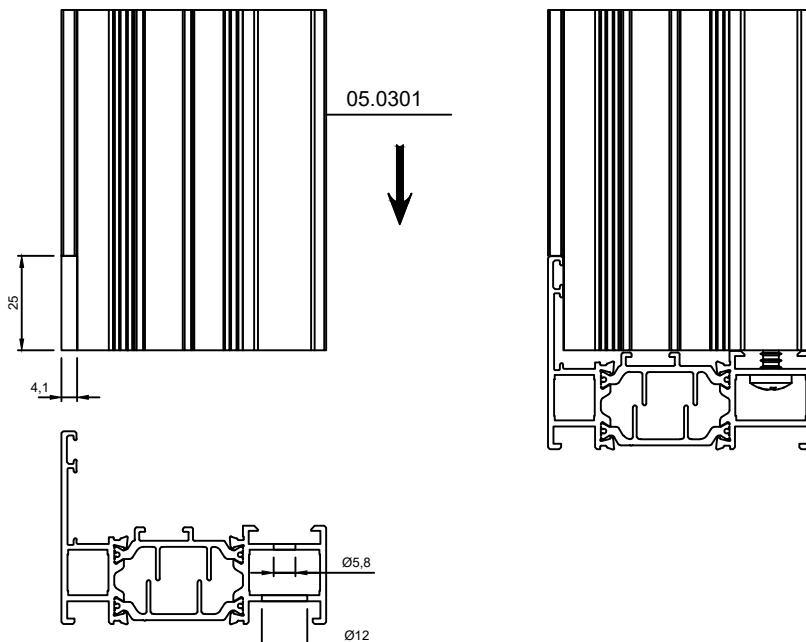
SCALE 1:2  
FRONT VIEW



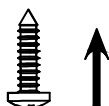
CONNECTION "T" PROFILE 05.0301 WITH FRAME 05.0100  
AND CUTTING OF "T" PROFILE



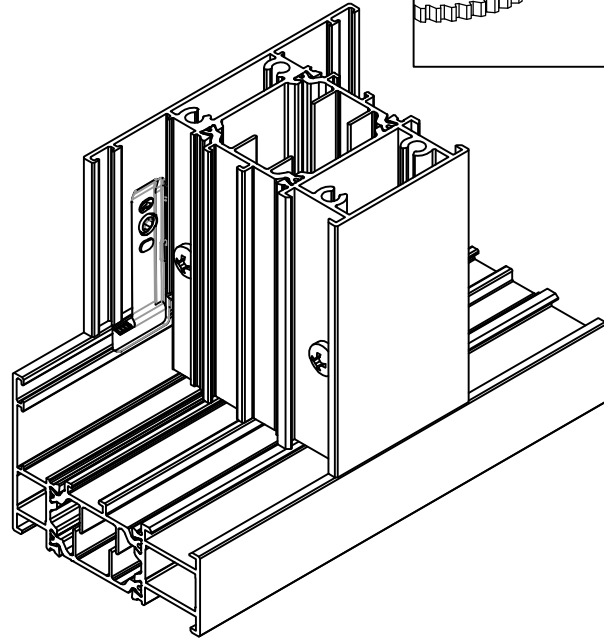
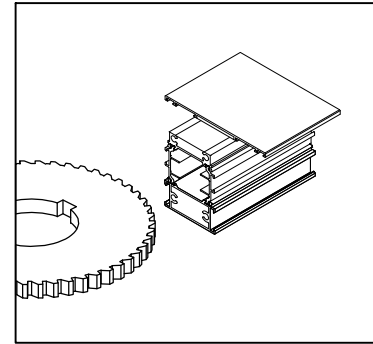
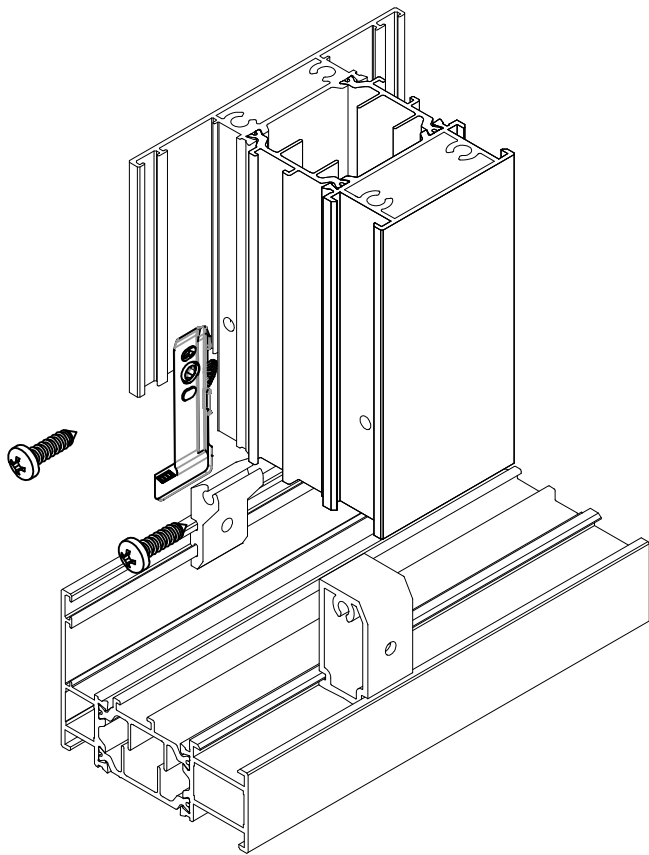
Front view  
Scale 1:2



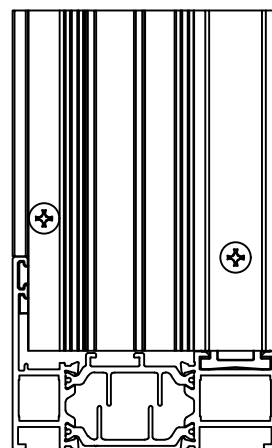
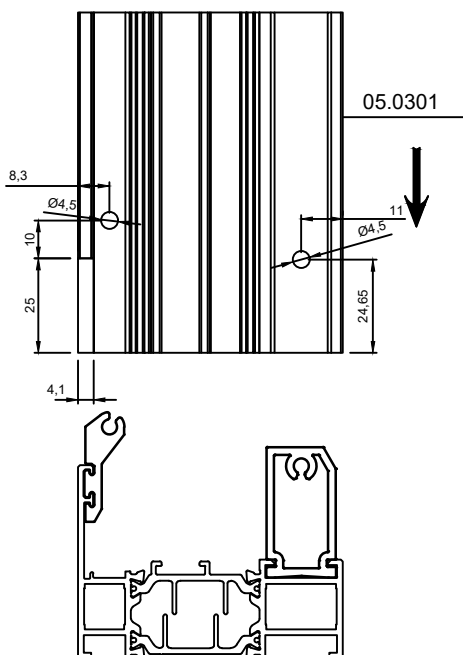
SCALE 1:2  
FRONT VIEW



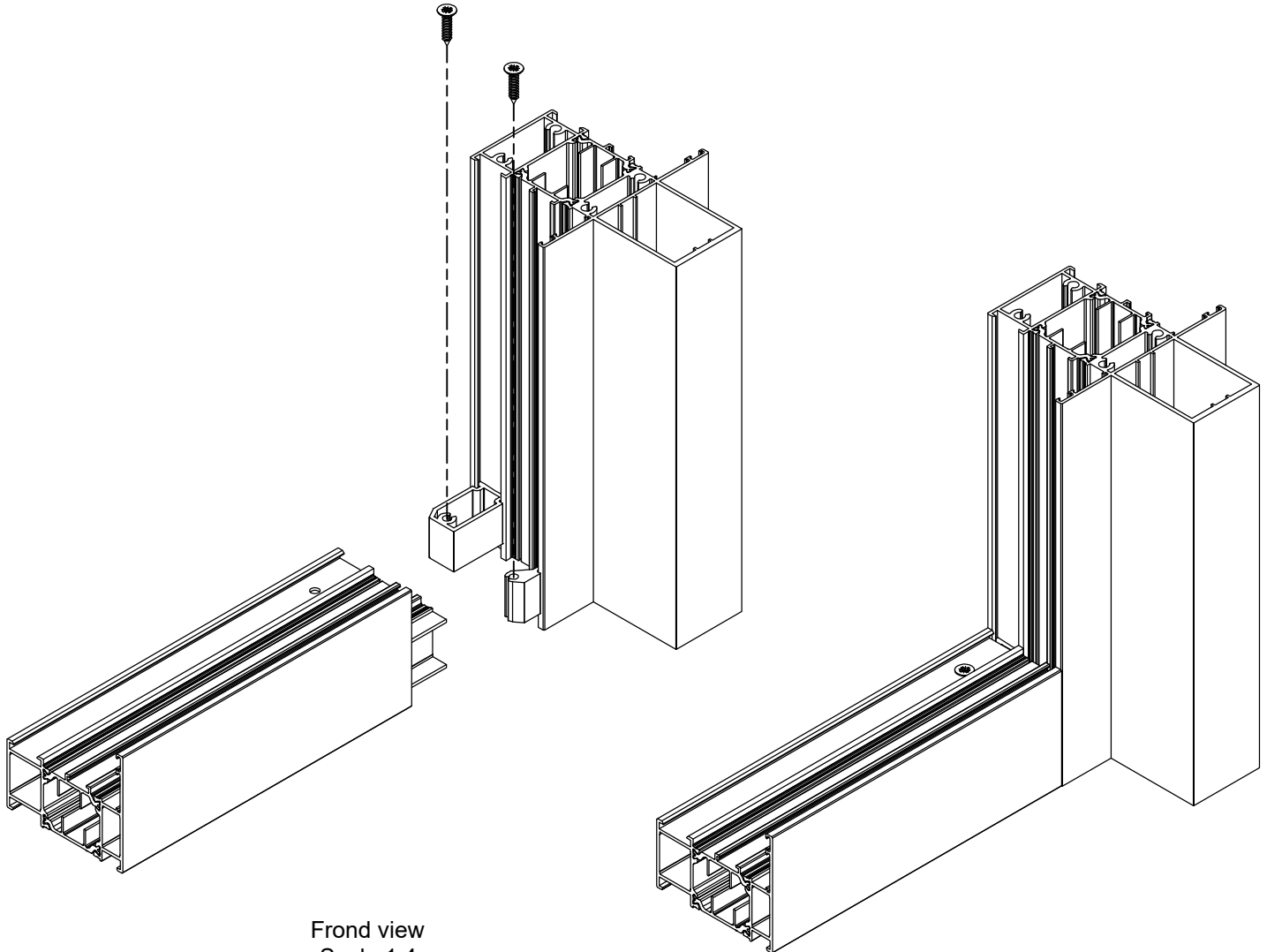
CONNECTION "T" PROFILE 05.0301 WITH FRAME 05.0100  
AND CUTTING OF "T" PROFILE  
CONNECTION WITH ACCESSORIES 05-3 & 05-4



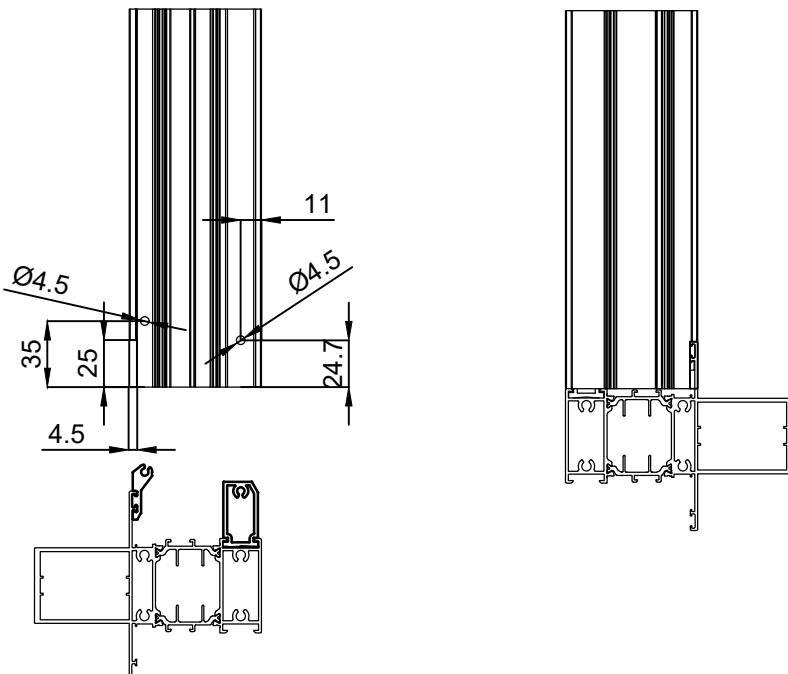
Front view  
Scale 1:2



CONNECTION "MULION" PROFILE 05.0302 WITH FRAME 05.0101  
AND CUTTING OF FRAME PROFILE  
CONNECTION WITH ACCESSORIES 05-3 & 05-4





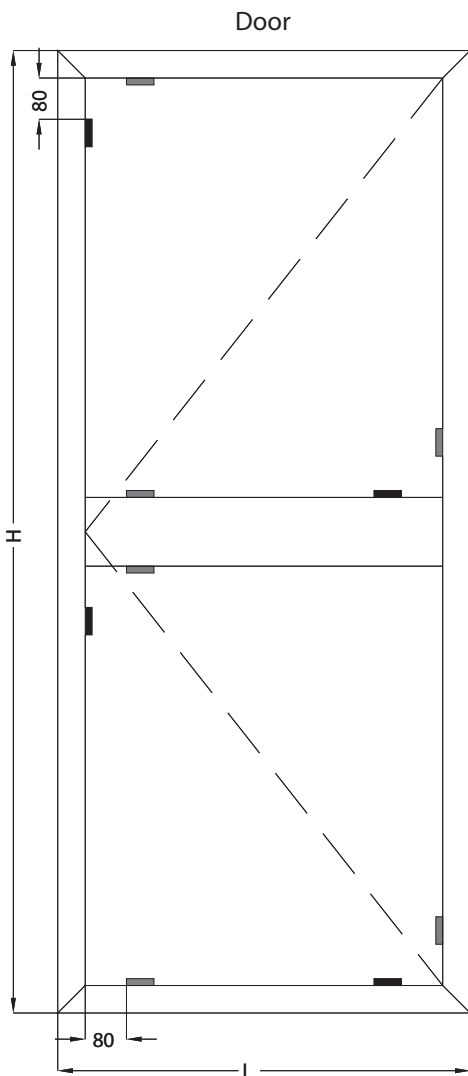
Front view  
Scale 1:4



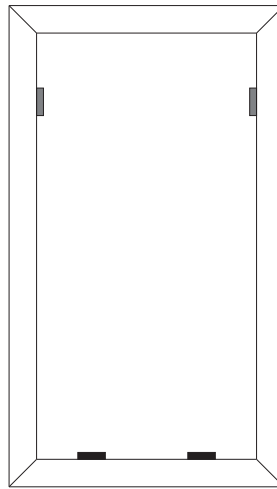


## THREE DIMENSIONS DETAILS GLAZING WEDGES

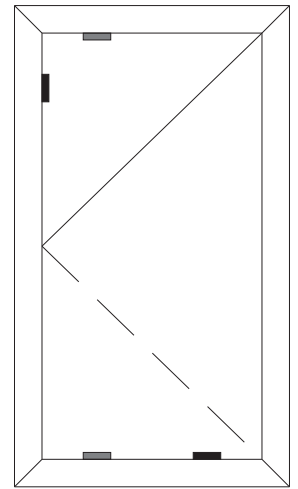
-  Glazing wedge for leveling
-  Glazing wedge for support



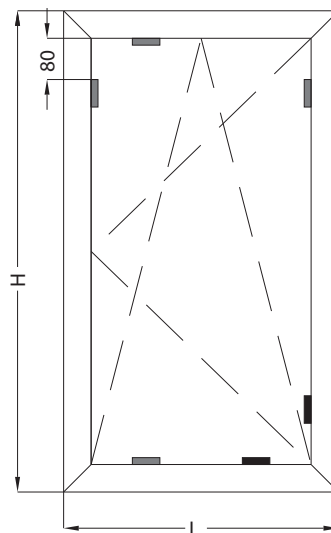
Fixed window



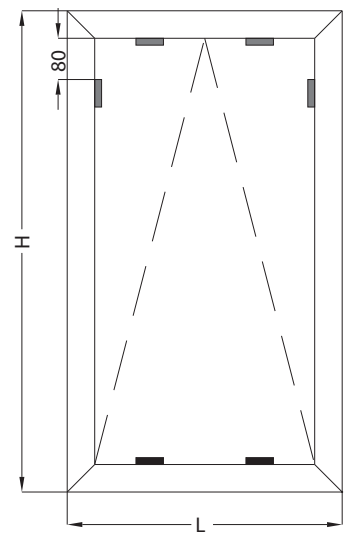
Turn window



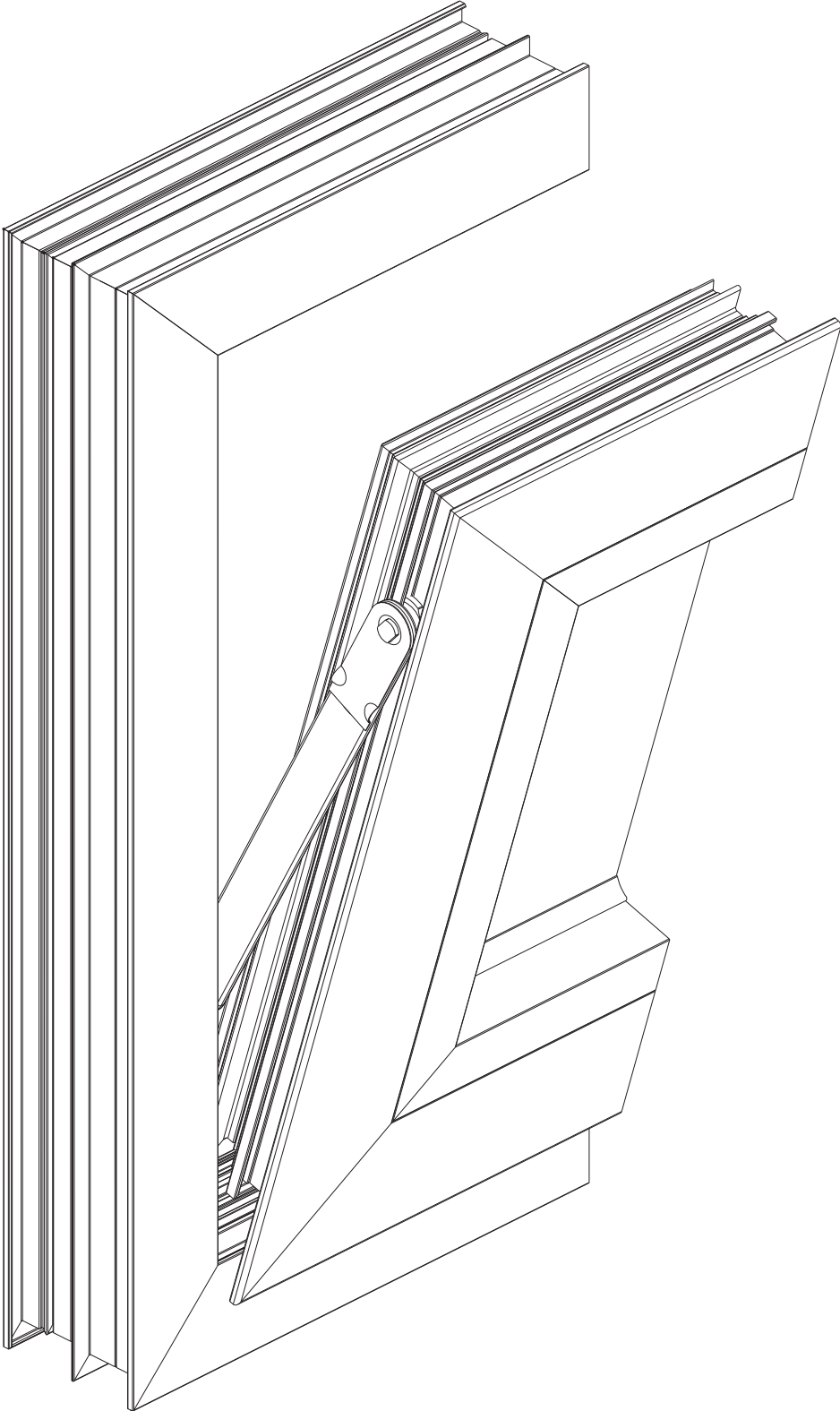
Tilt and turn window



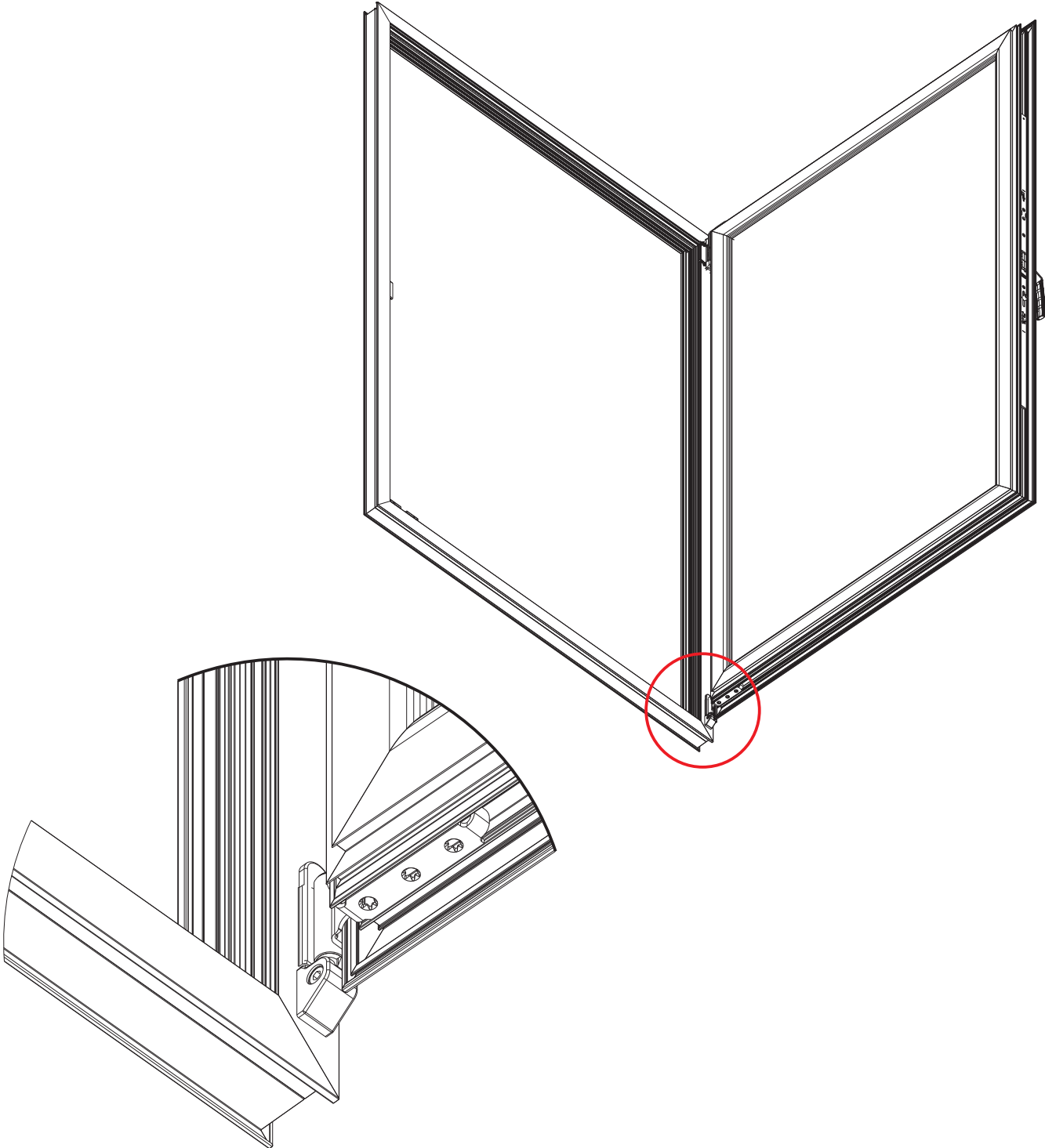
Tilt window



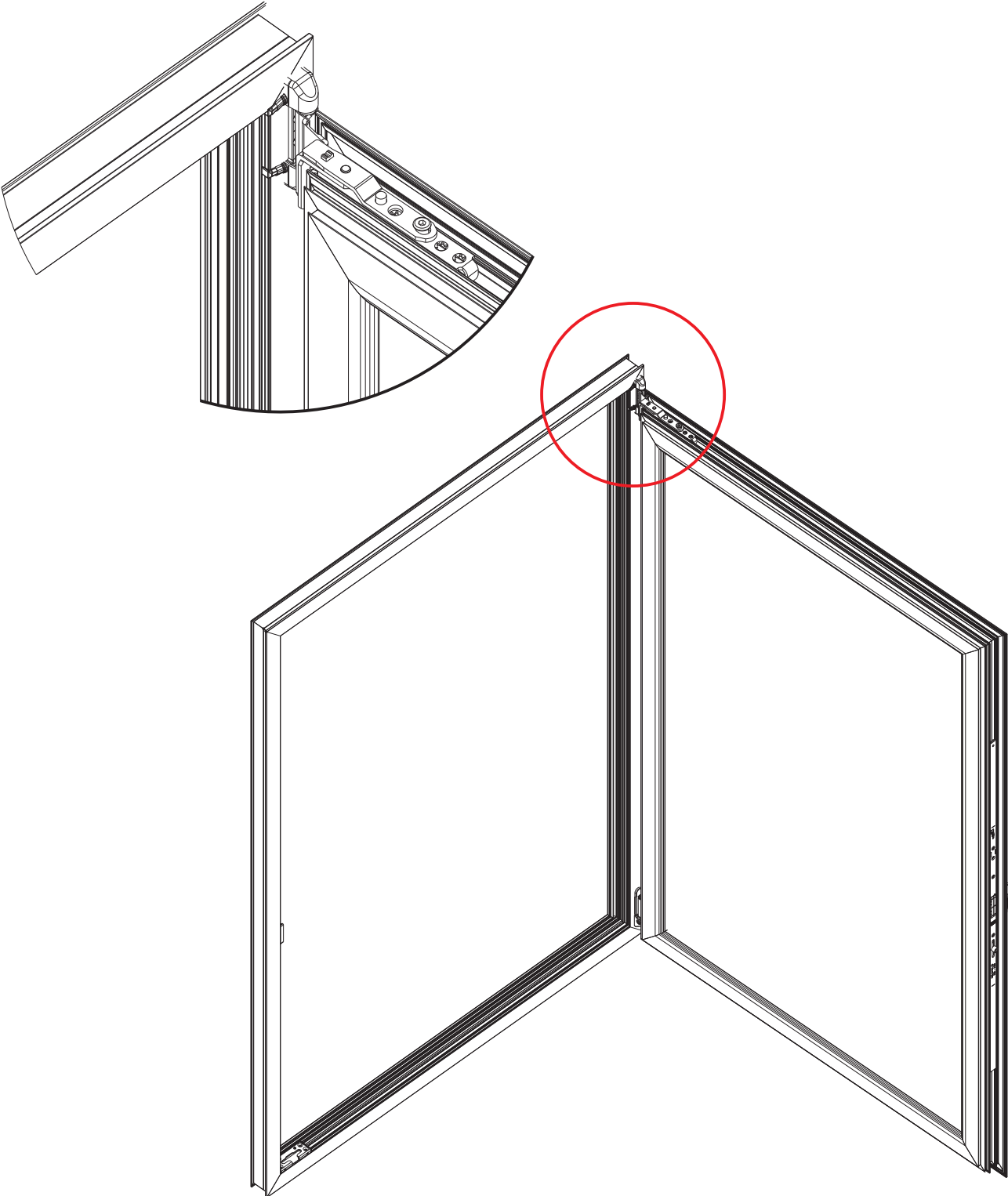
**THREE DIMENSIONS DETAILS**



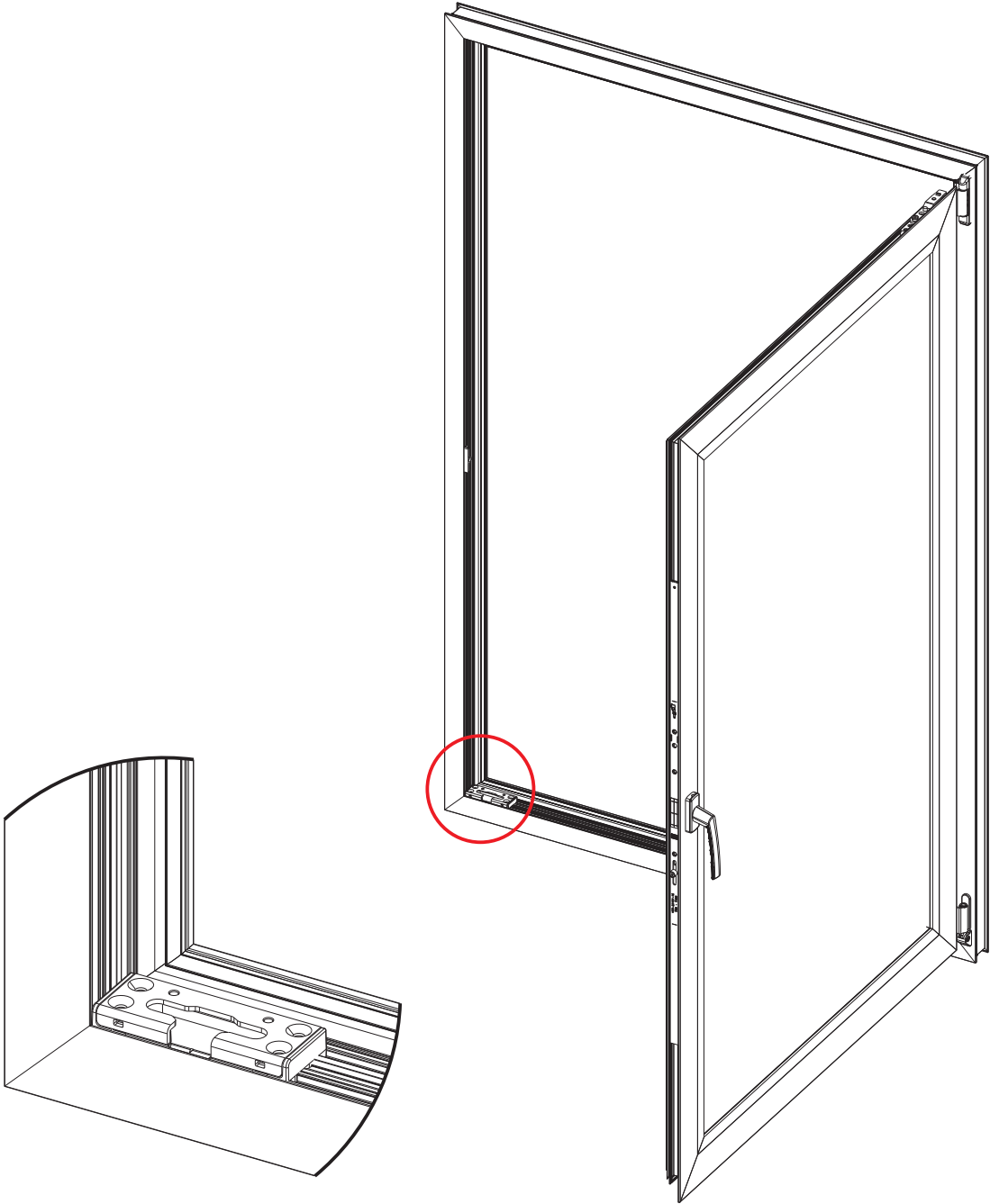
**THREE DIMENSIONS DETAILS**



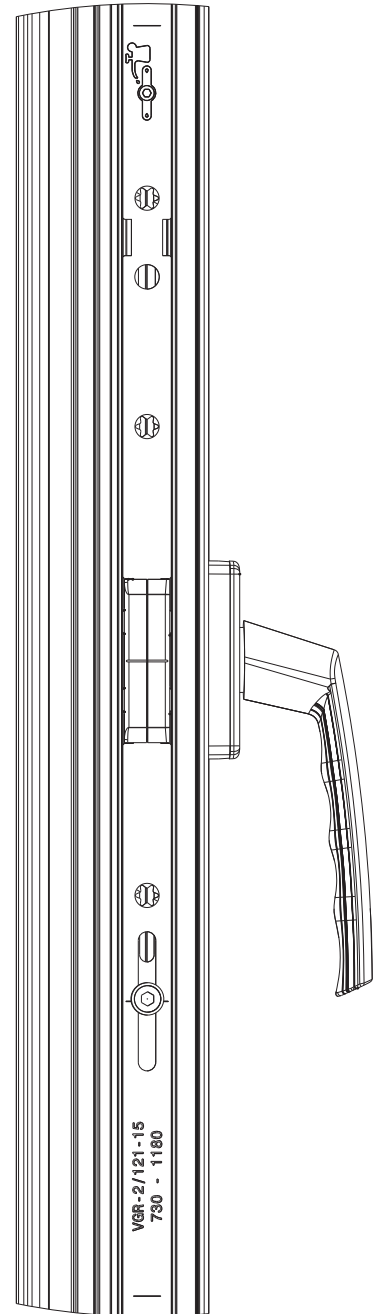
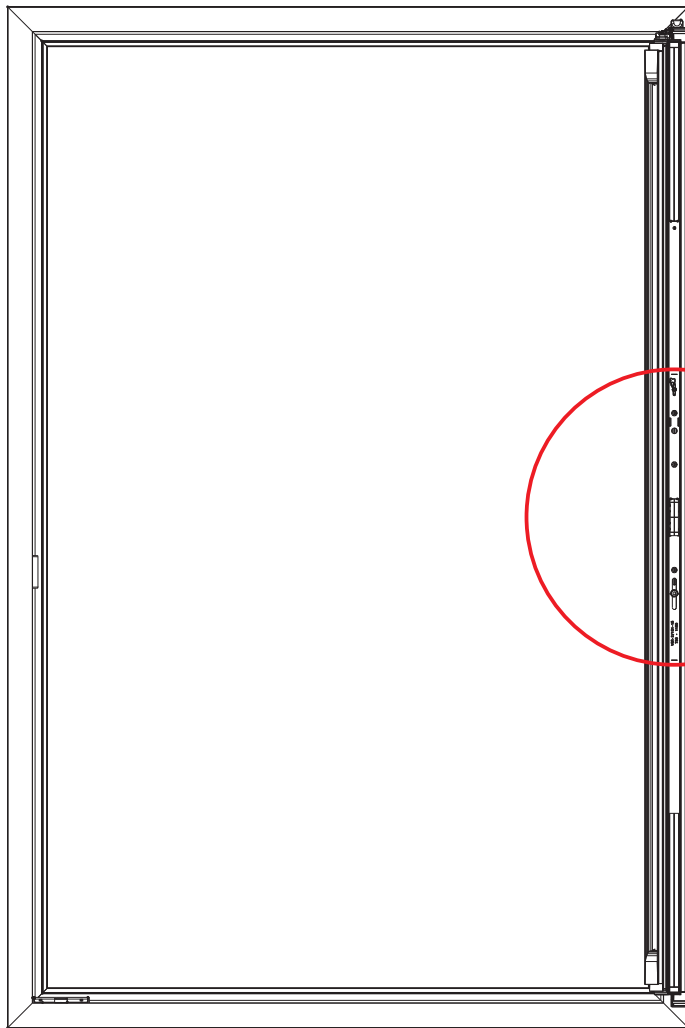
**THREE DIMENSIONS DETAILS**



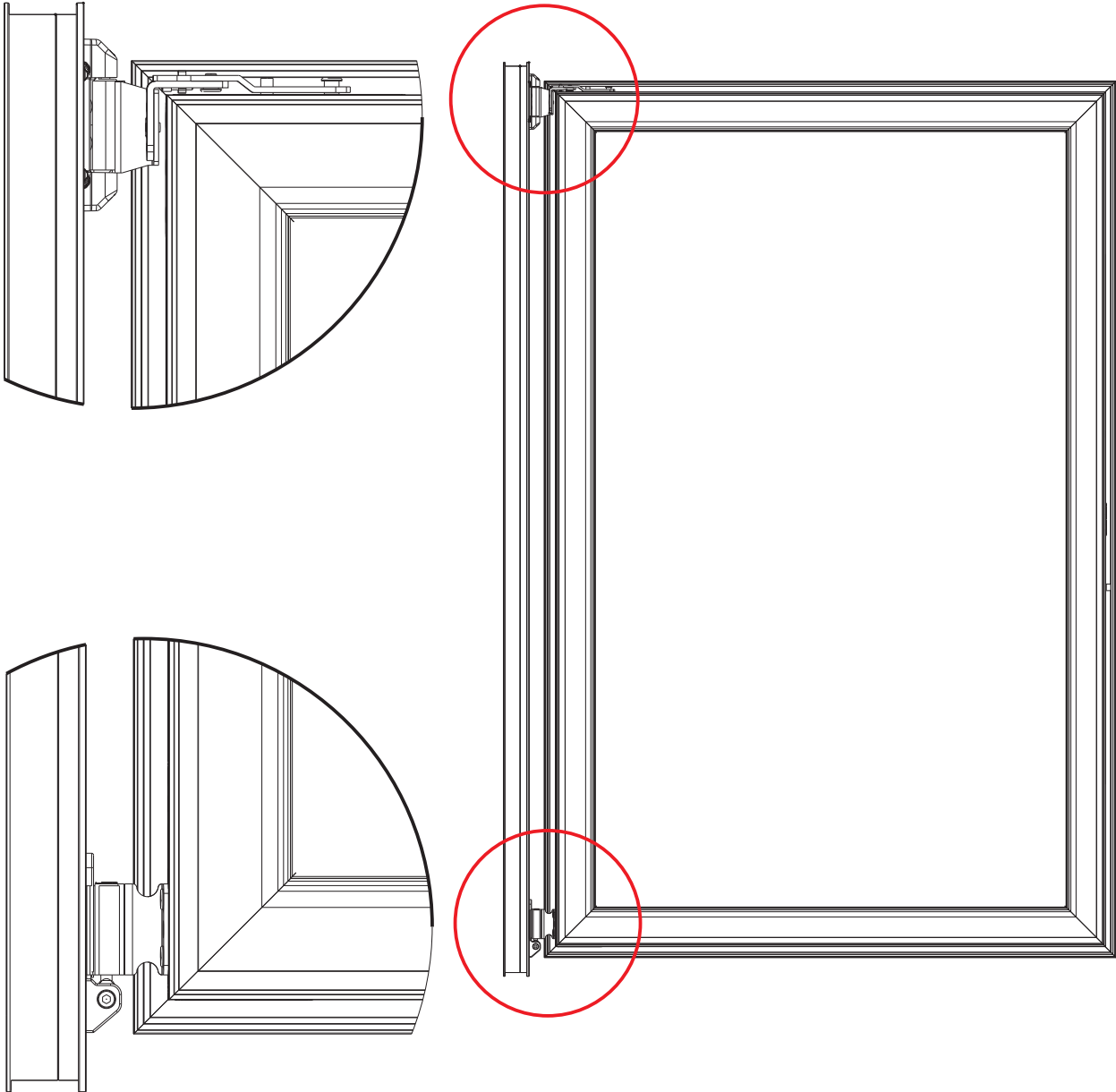
**THREE DIMENSIONS DETAILS**



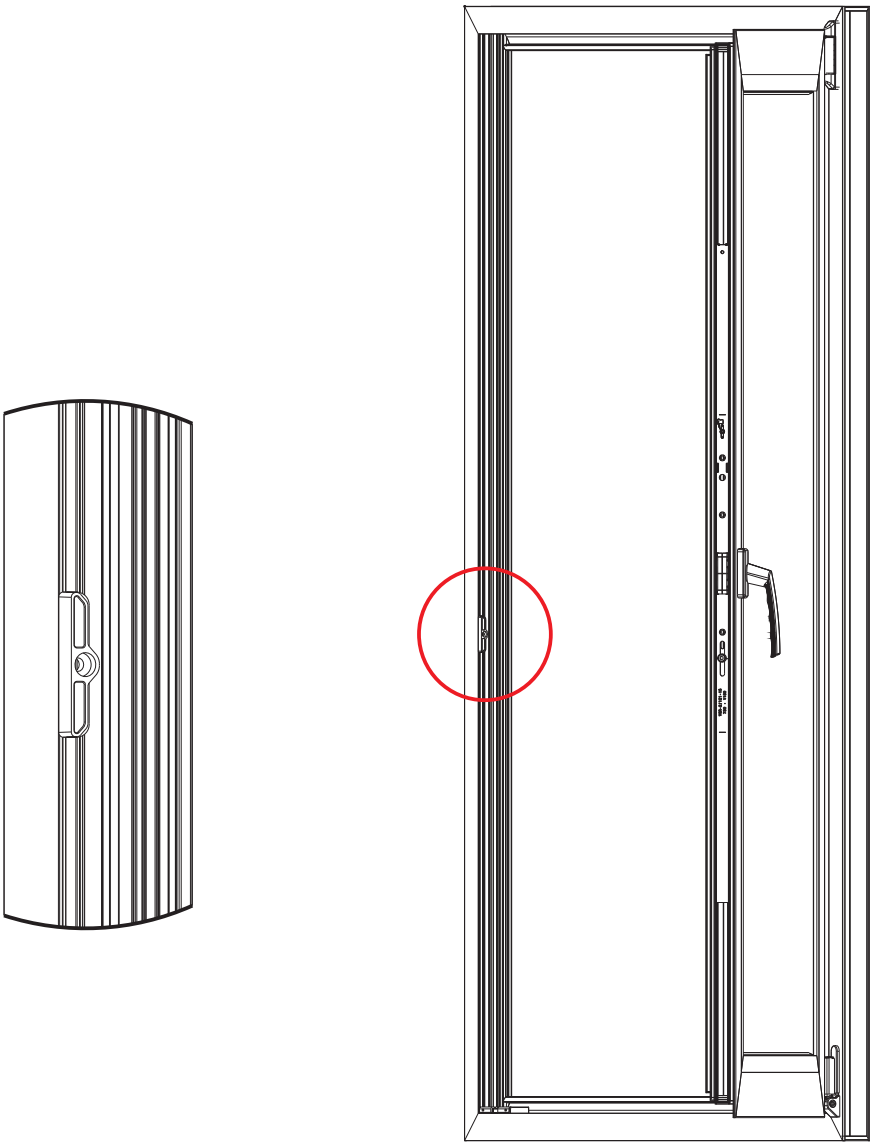
## THREE DIMENSIONS DETAILS



**THREE DIMENSIONS DETAILS**

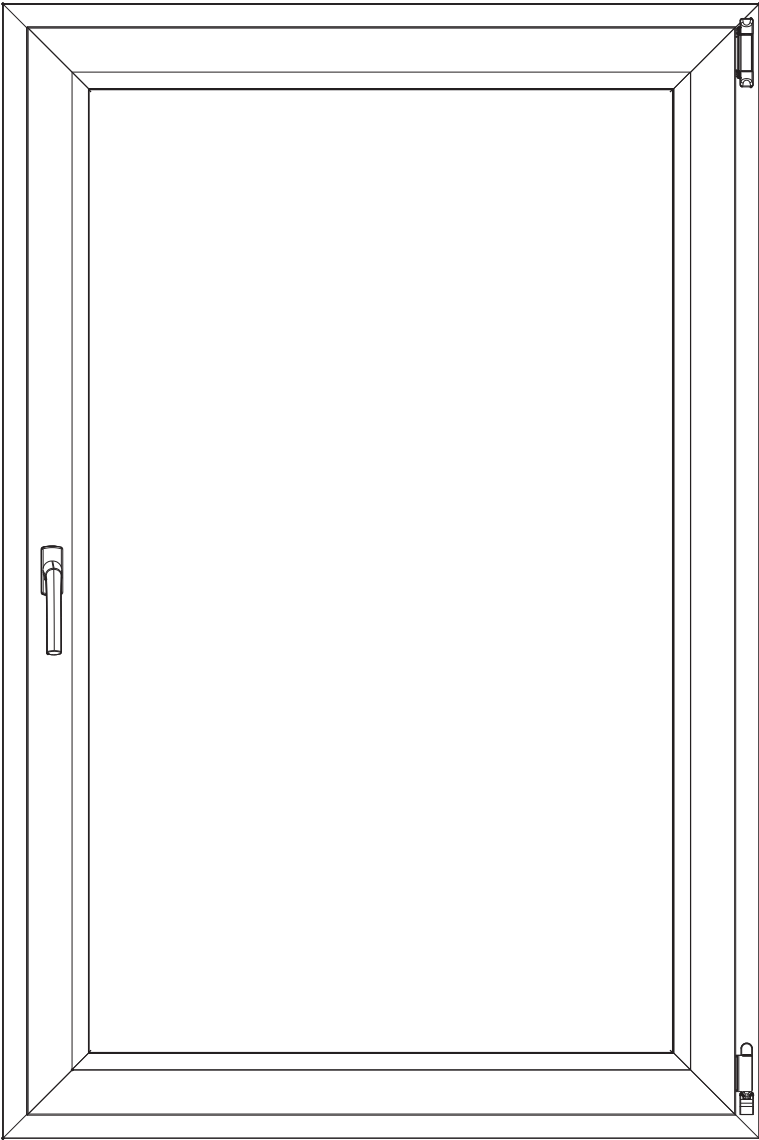


**THREE DIMENSIONS DETAILS**





**THREE DIMENSIONS DETAILS**



**NOTES**

A series of horizontal dotted lines for taking notes.



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