

Iconic[•] elvial

DESIGN

TECHNOLOGY

ENERGY PERFORMANCE

PERFORMANCE

IDENTITY

TYPOLOGIES

PROFILES OVERVIEW

TOOLS

MARKETING TOOLS

THE LOOK | BE INSPIRED



*Welcome to
ICONIC Systems*

What is a space all about?
Atmosphere, people that inhabit and
use it, the feeling of belonging?
Is it about boundaries?
Separating what is inside from what is
outside? Space is all about you.

What you consider important.
We create the frame that shapes your
vision, keeps it safe and makes it
beautiful.

The DESIGN

The core philosophy of ICONIC Systems is the unique design, which is used as a key to exceptional architectural creations.

The TECHNOLOGY

The technology used in ICONIC Systems stands out, in terms of high-class materials applied, ensuring excellent thermal and operational performance.

The FREEDOM

Fascinated by the challenge to perceive windows as artworks, rather than mere building elements, ICONIC Systems offer to Architects the freedom to design imaginatively and deliver projects with unparalleled character.

ELVIAL W77 AI²

You need the maximum freedom with no compromises:
to design & realize your ideas on demanding projects, when quality standards & design come first.

Challenge Accepted.

In ELVIAL W77 AI², the **high end technology** is harmoniously blended with **clean-cut design**, offering you a **plethora of construction solutions** that will definitely exceed your expectations.

ELVIAL W77 AI²

Starting from

- + classic linear sections
- + to minimal easy-access blind sash typologies
- + to window wall constructions with linear or steel look design
- + to rotating windows
- + to a complete range of profiles for French-type window installation.

ELVIAL W77AI² offer you endless solutions in both European Groove (CE) and PVC groove (Multilock).

**One System
Endless Solutions.**

**Be Inspired with no borders now.
Be Inspired. Be free.**

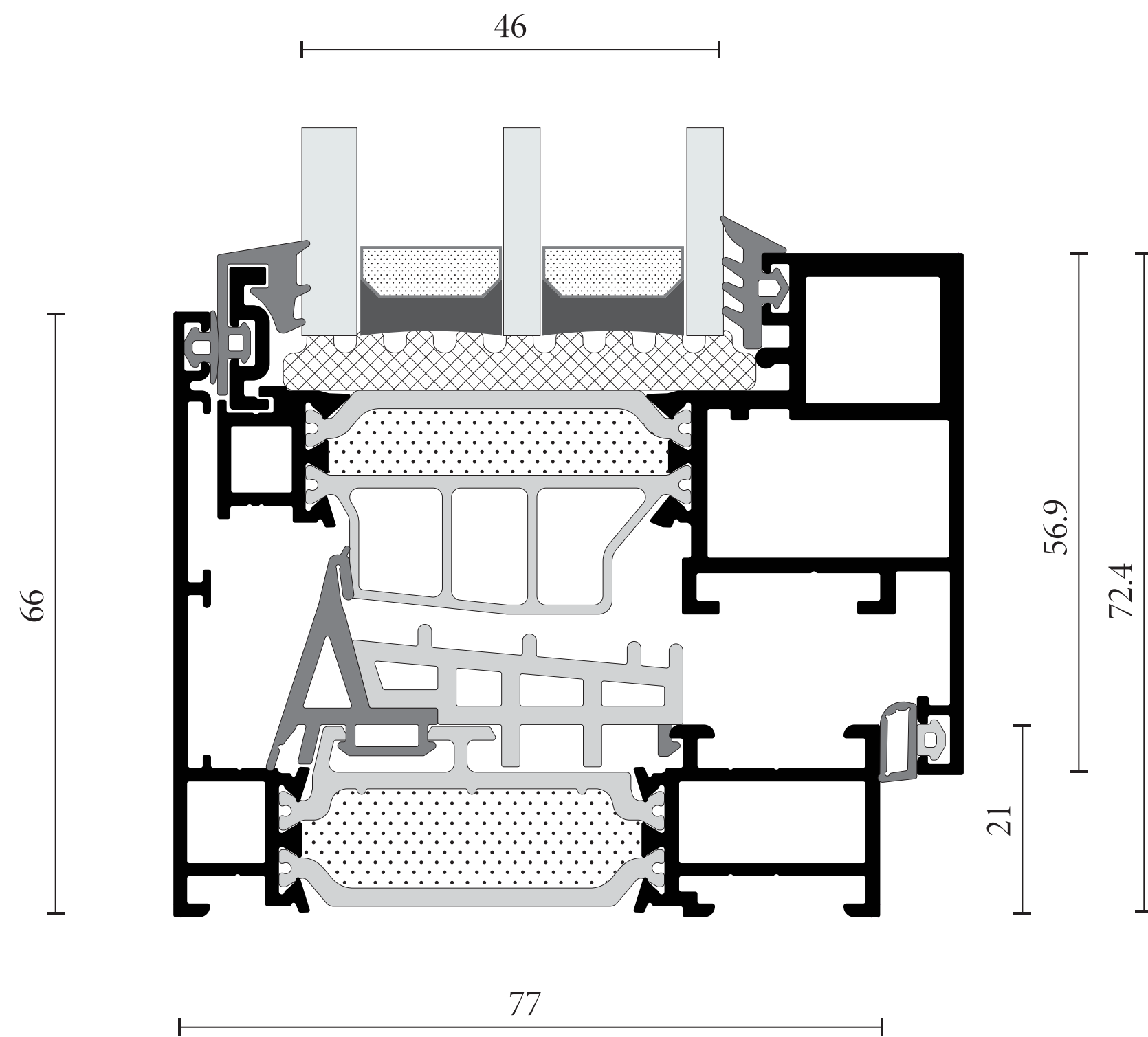
ENVIAL

W77 AI2

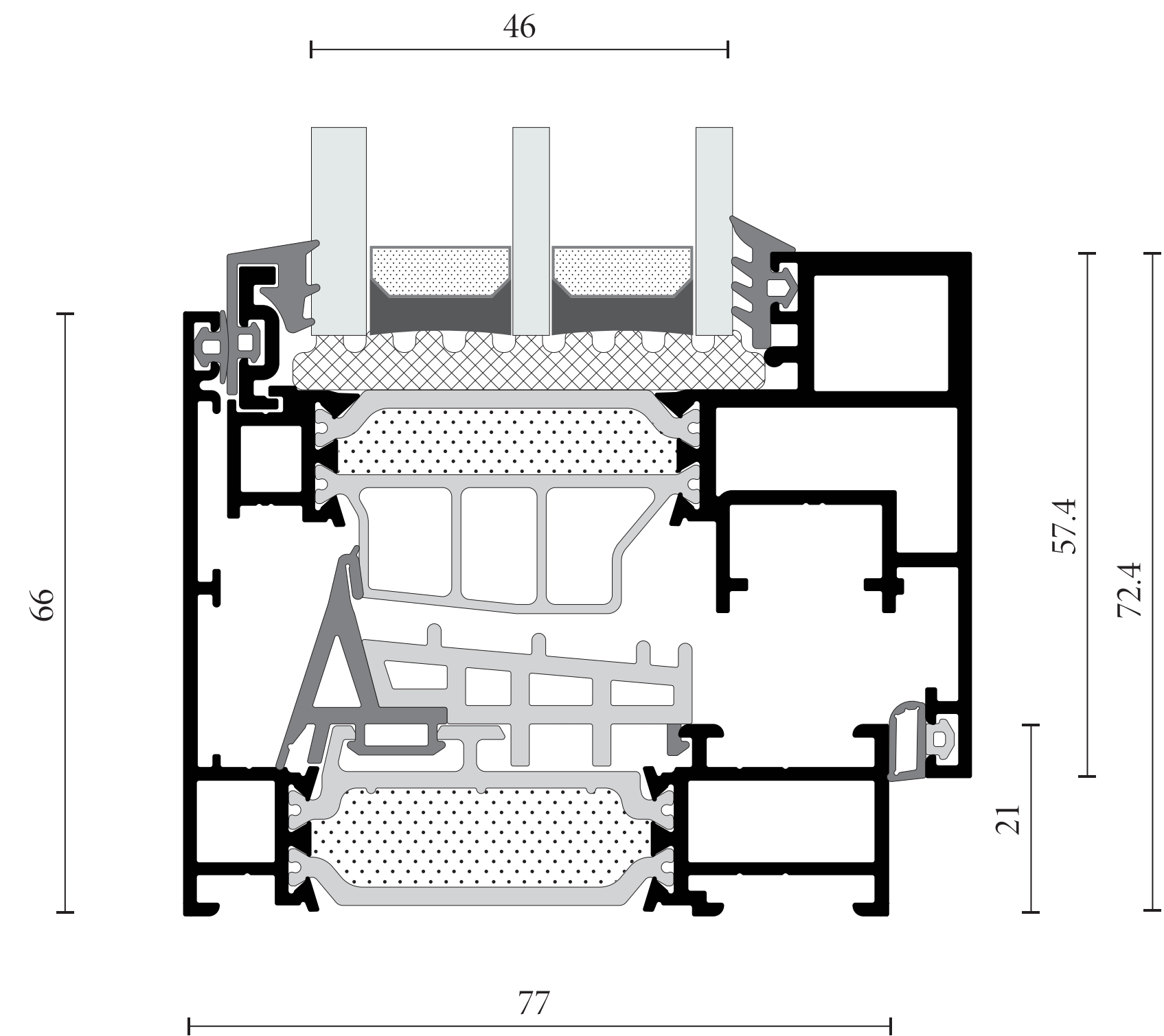
The
DESIGN

Attention to Details

*Minimal Blind Sash typologies are available in ELVIAL W77 AI² of ICONIC Collection,
answering to your need for more light, more view.*



The European Groove edition

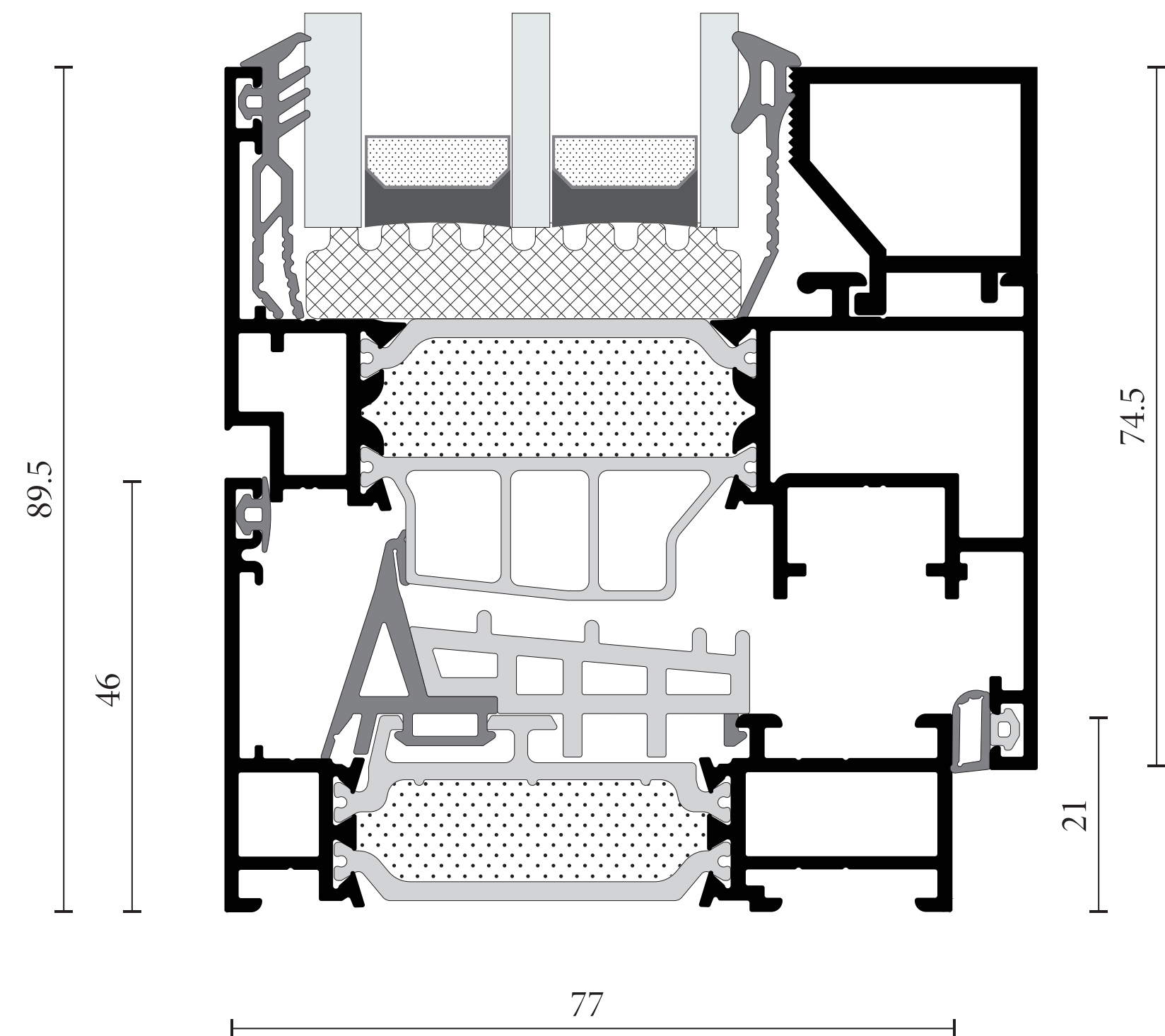
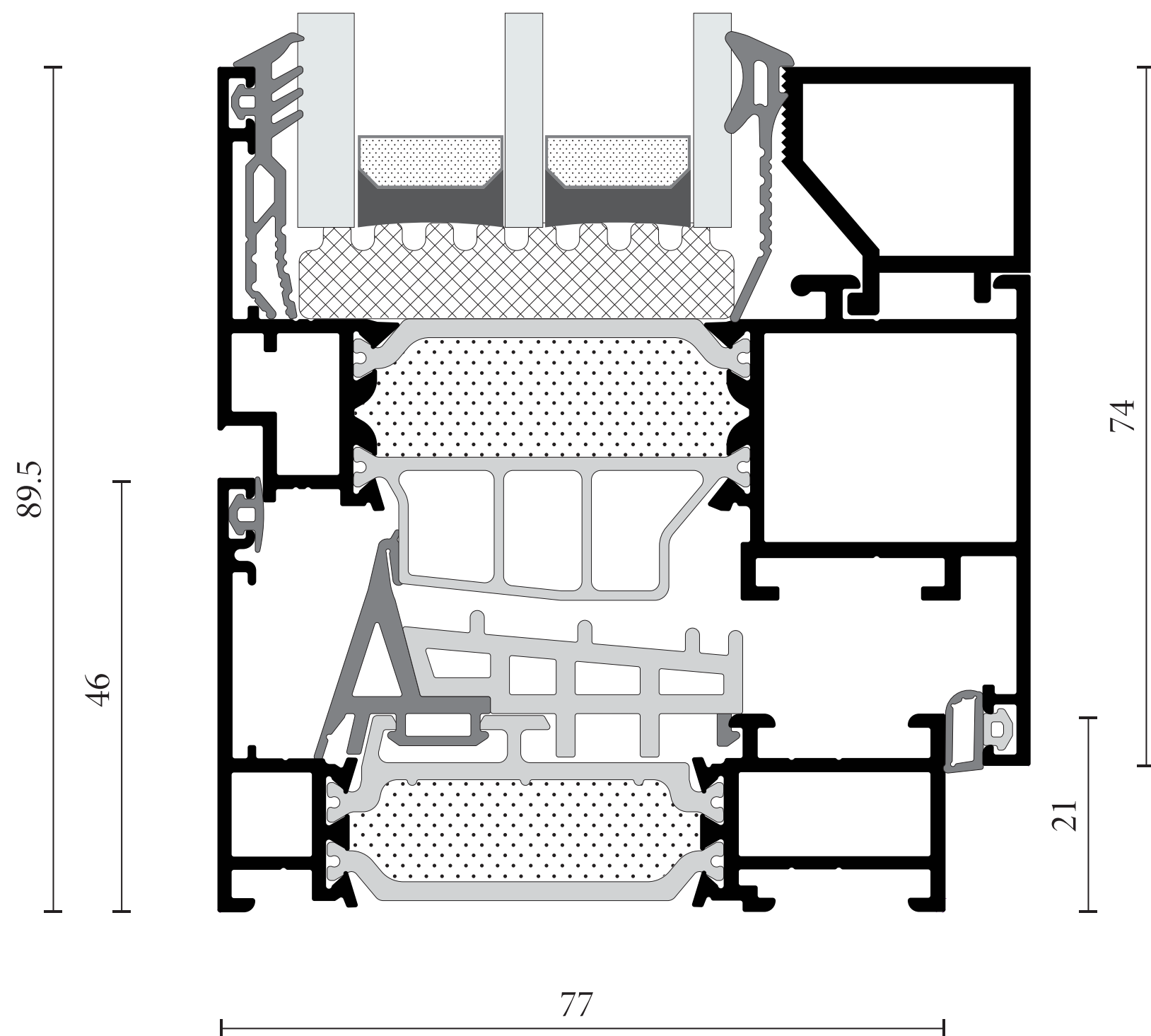


The Multilock edition

The
DESIGN

Attention to Details

The Classic linear typologies in ELVIAL W77 AI² are ideally featured with hidden hinge mechanism and a classy aluminium handle, delivering a result of high aesthetics and comfort.

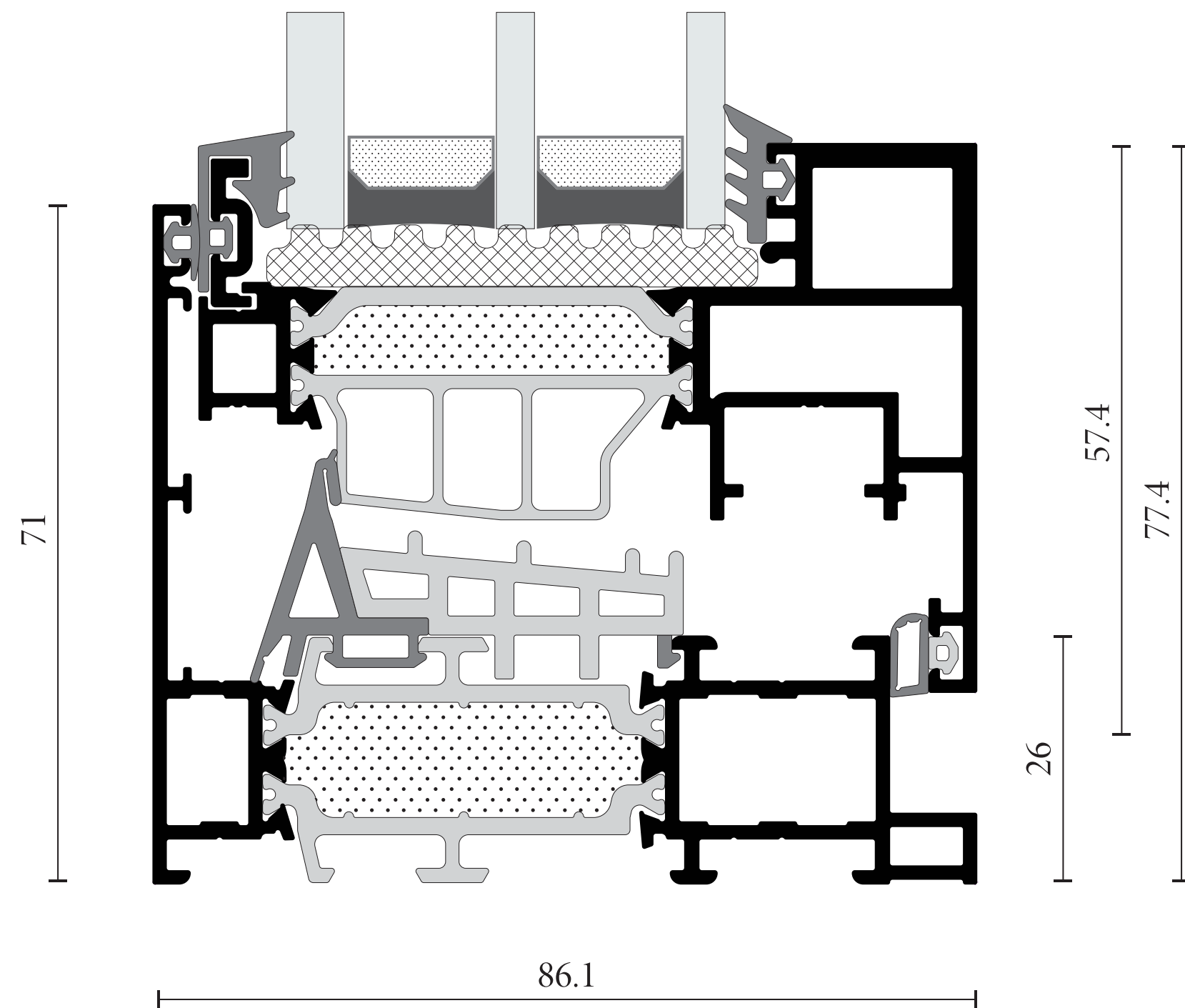


The
DESIGN

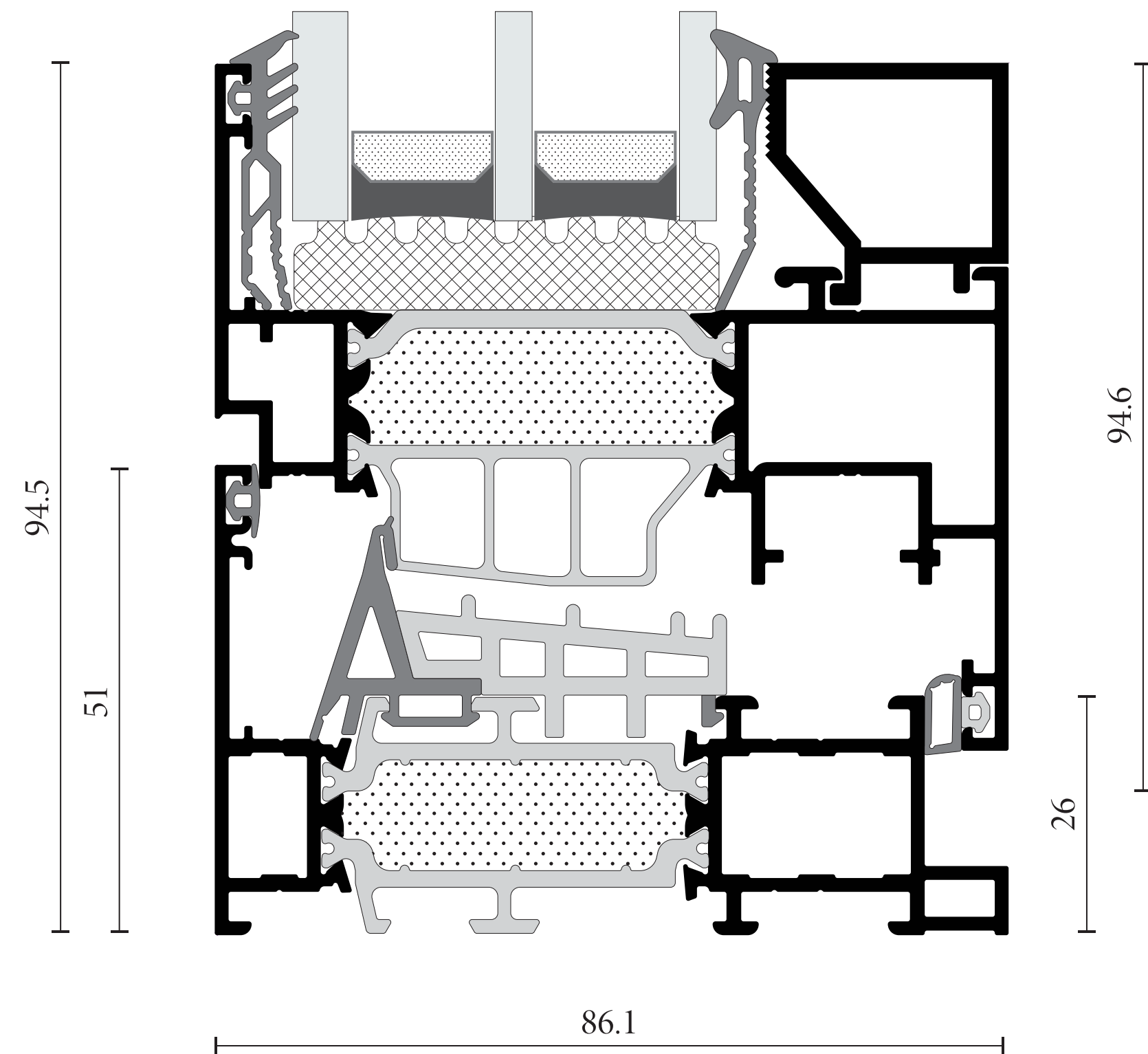
Attention to Details

Modern Aesthetics.

Same Level appearance is also available in the inner side of the window, delivering an even more minimal touch.



The BS edition

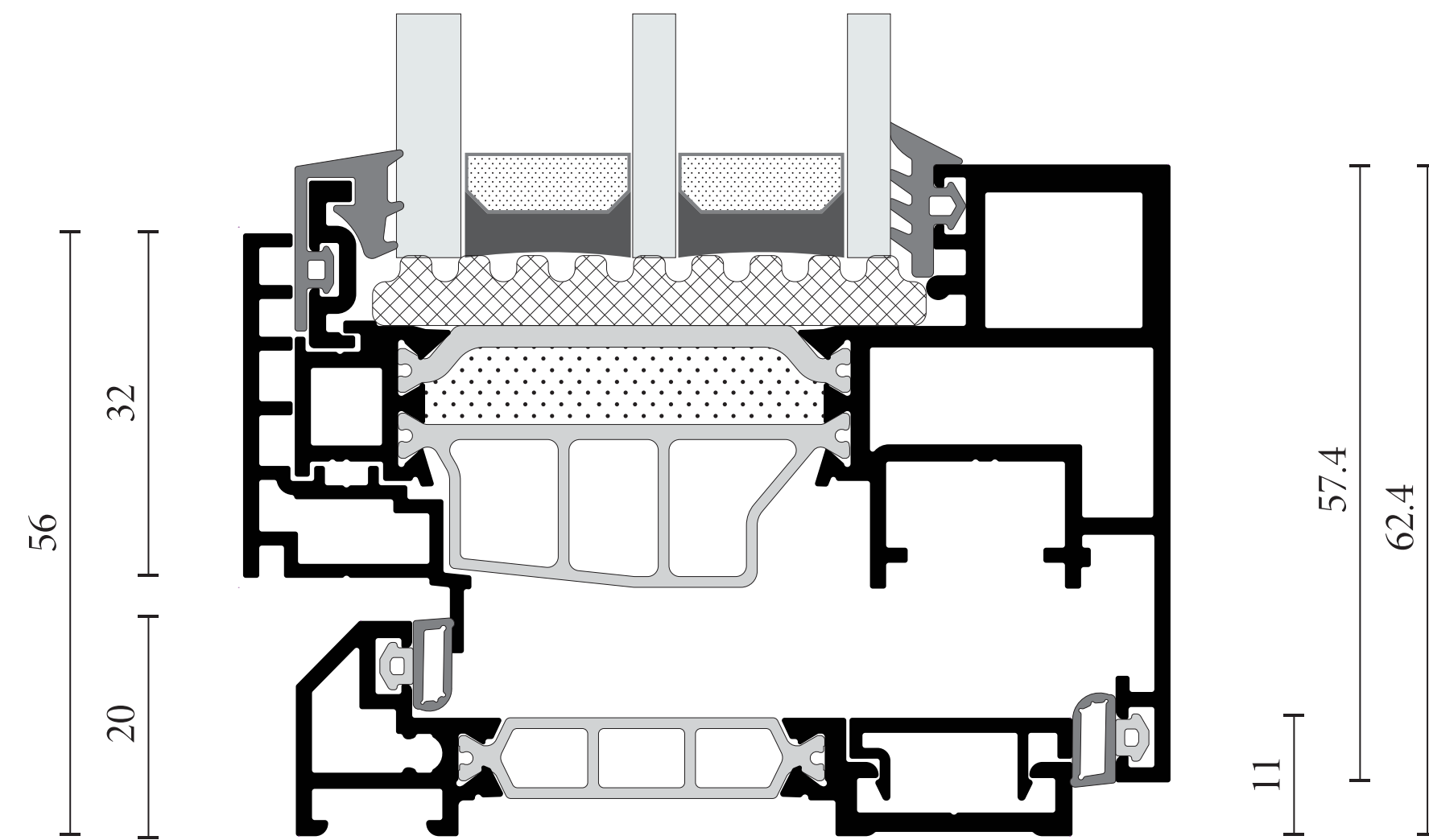


The Classic edition

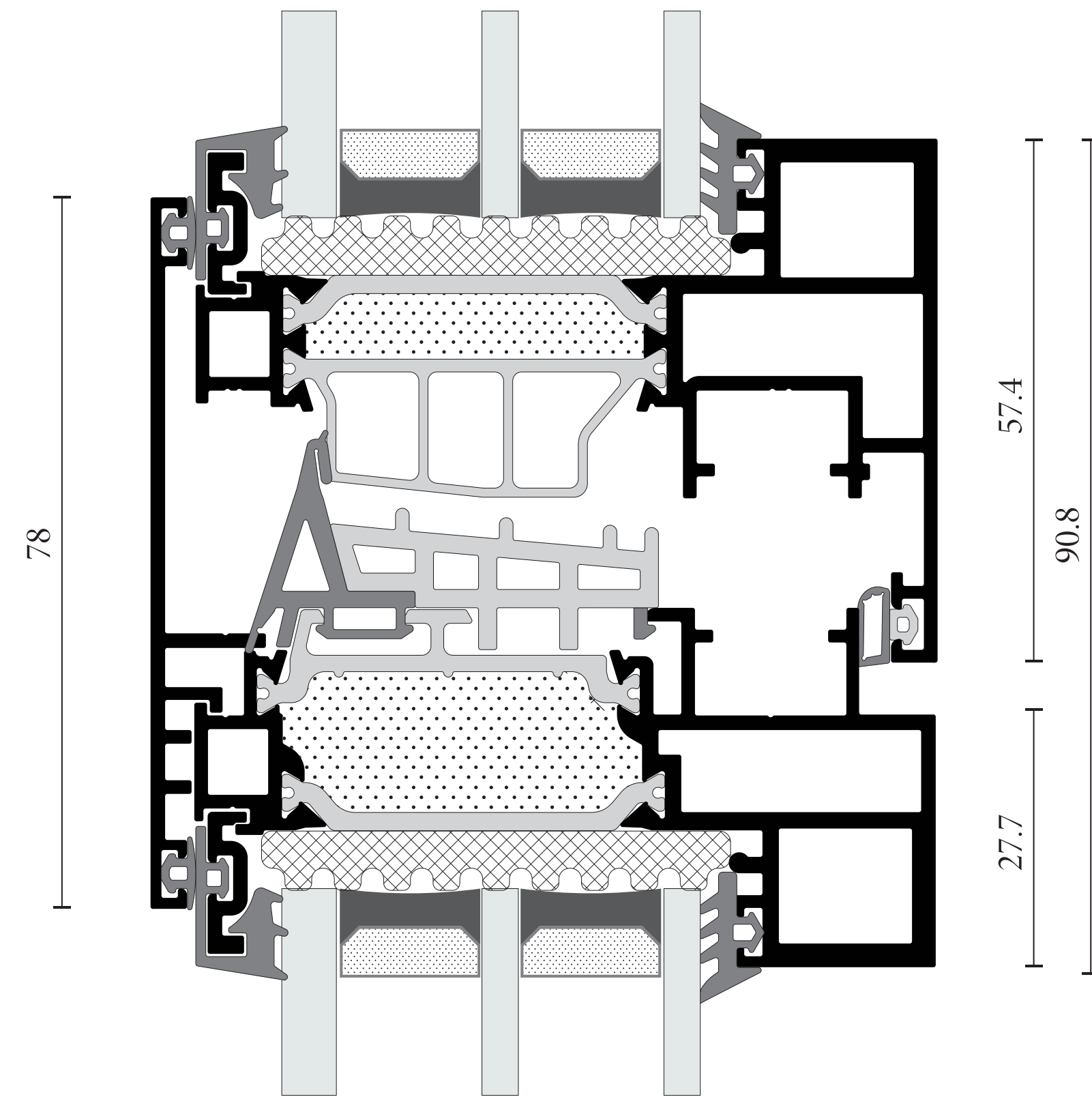
The
DESIGN

Attention to Details

*Easy-access, ideal for children and PWDs,
due to extra low threshold of 20mm.*



*Reach a Minimal face width of only 78mm in the middle area of a double
window, due to integrated adjoining profile.*

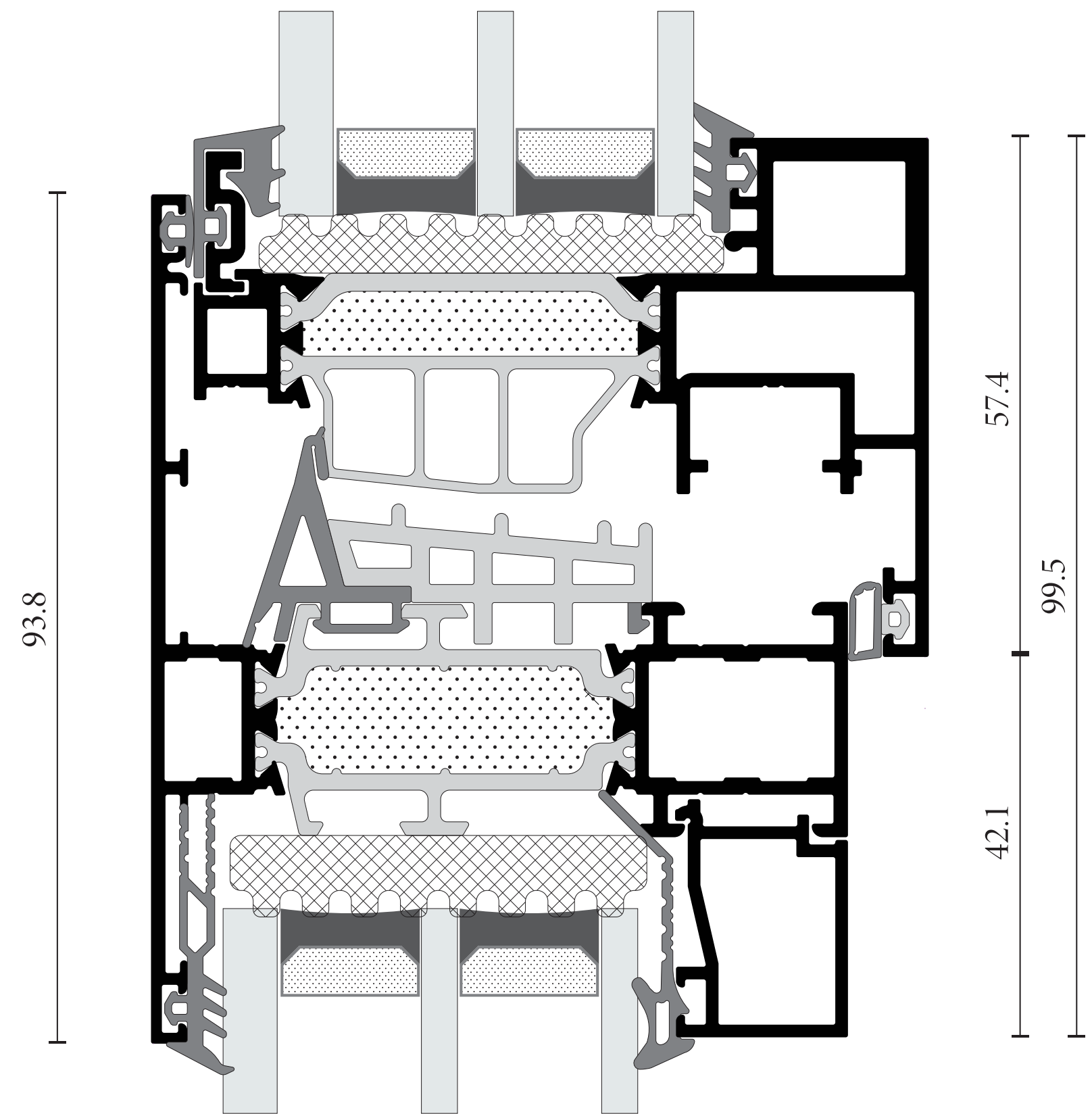
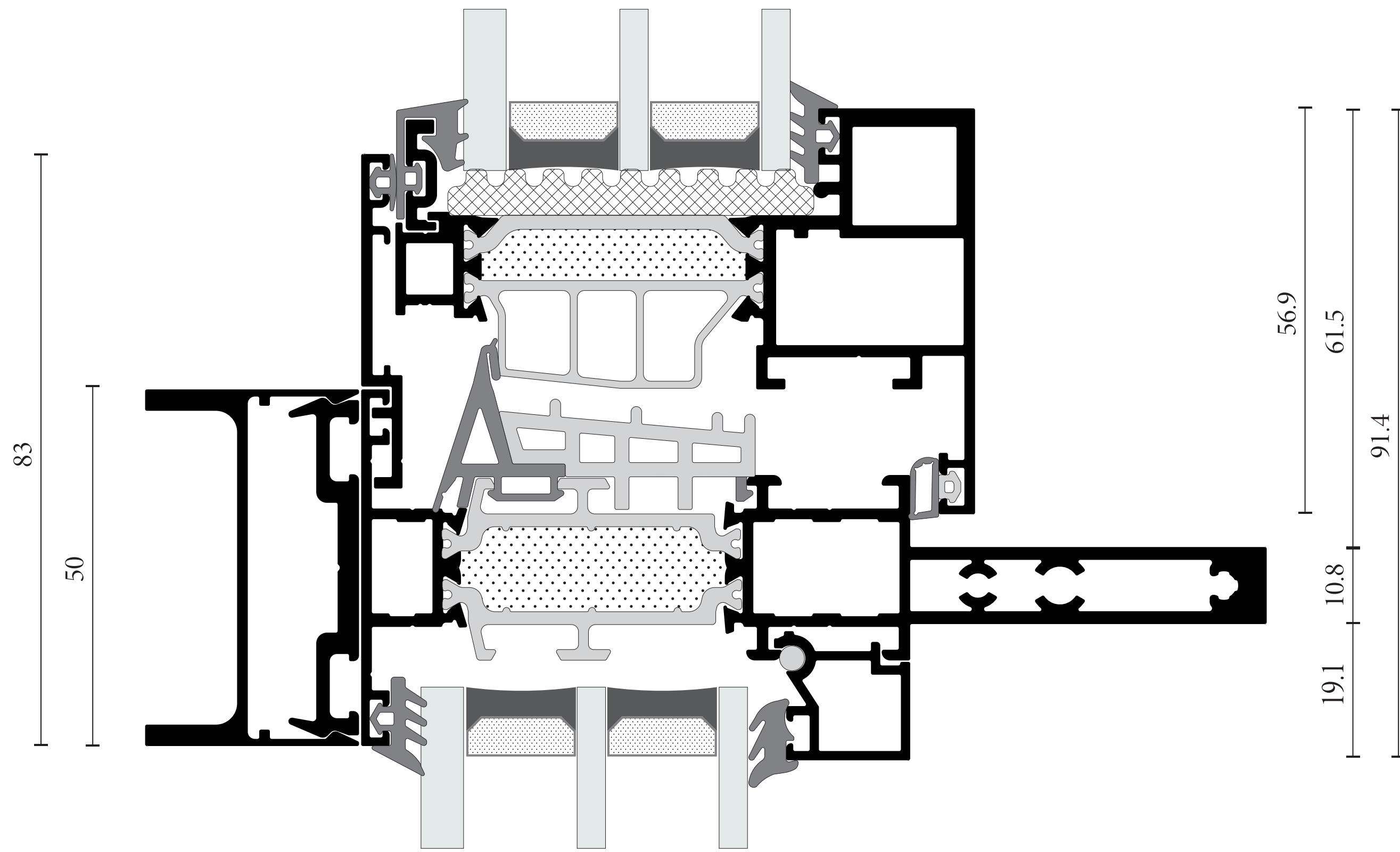


*The
 DESIGN*

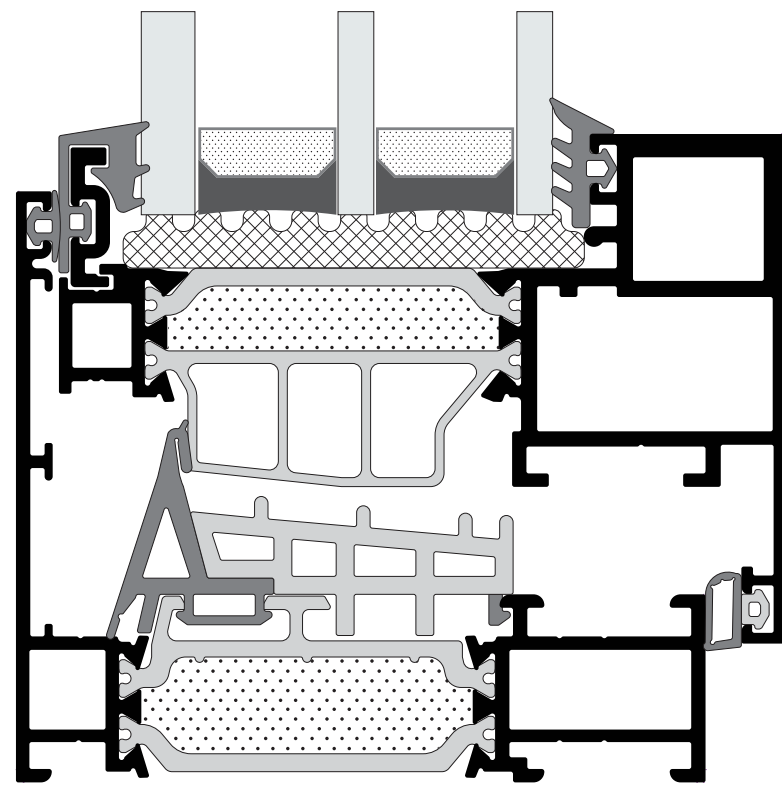
Attention to Details

Create window wall constructions and enhance the steel look character of your building, by using add-on profiles and re-inforced transoms of industrial design.

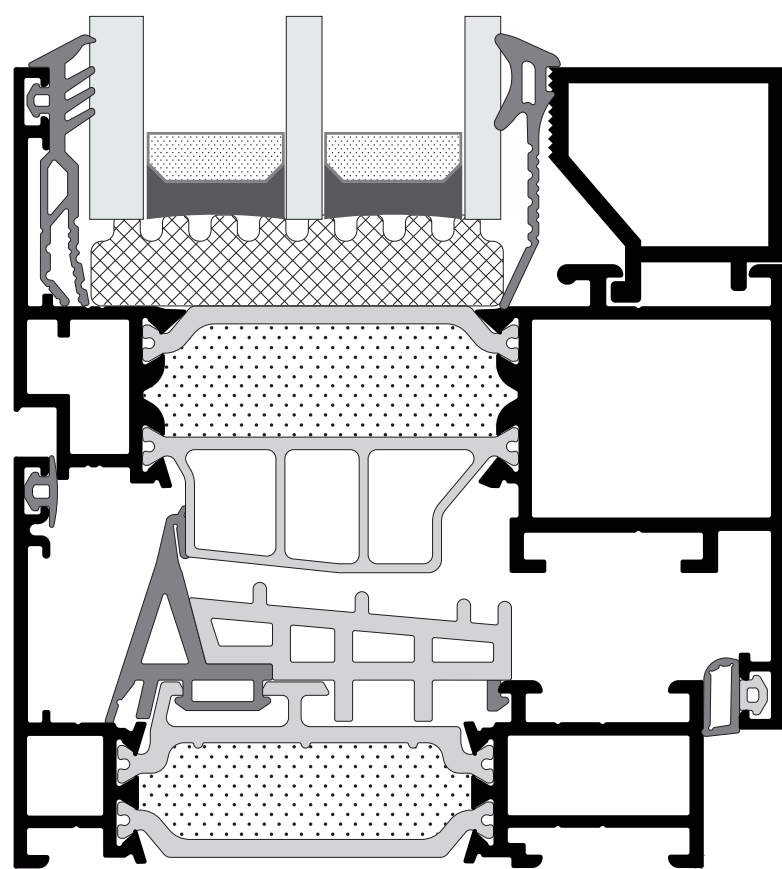
Minimize the visible face width to 94mm by using T profiles developed especially for Fixed + Opening typologies.



*The
DESIGN*



The BS edition



The Classic edition

The Sections _ Blind sash edition

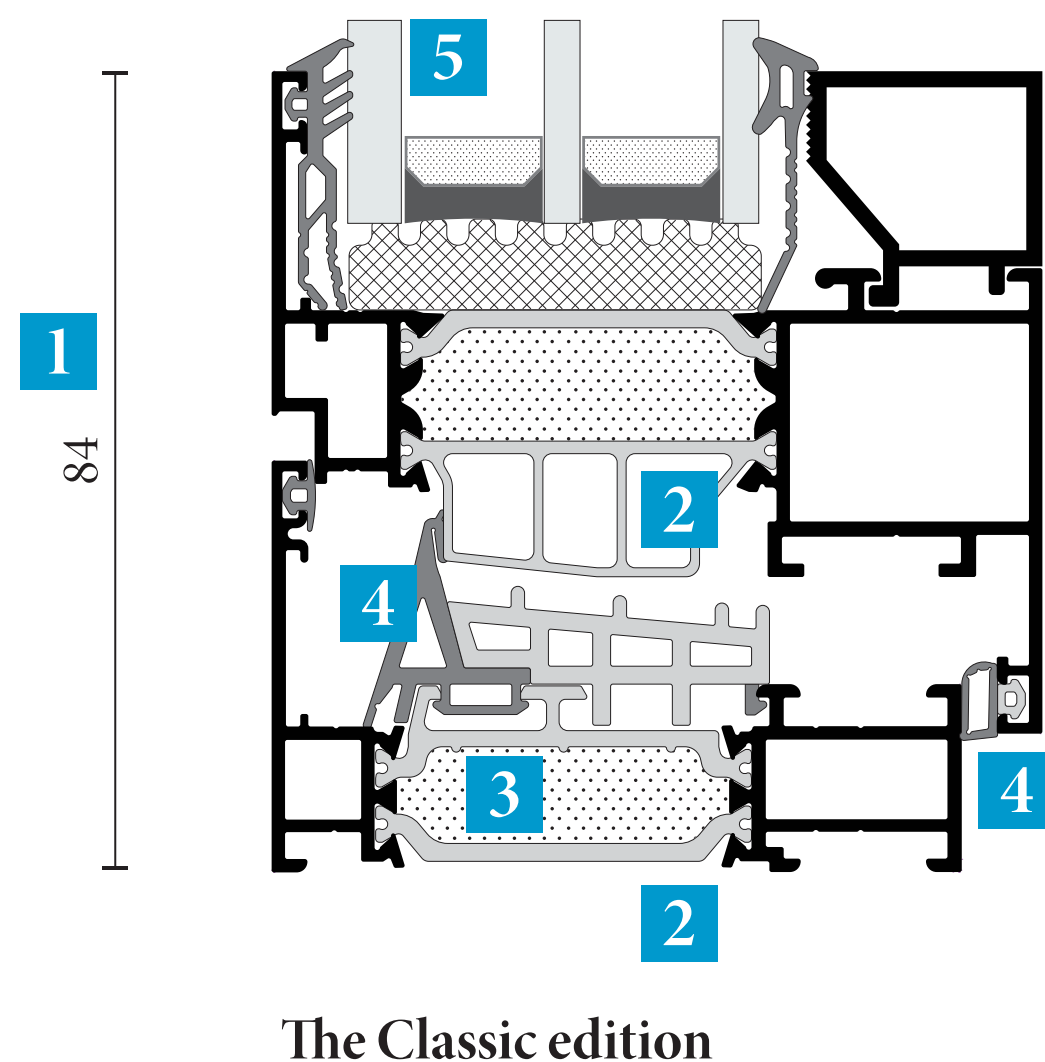
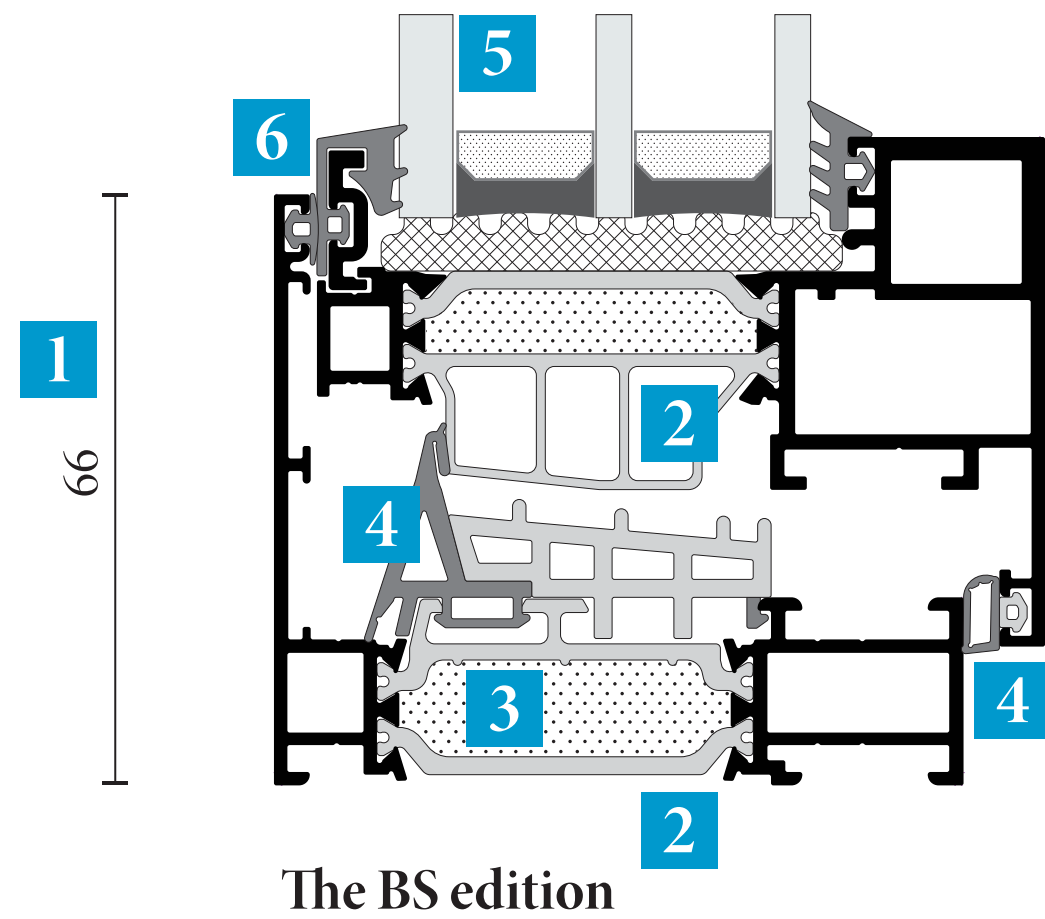
Frame_Sash [hidden hinge]	H	66	mm
Frame_Sash [standard hinge]	H	71	mm
Sash_Adjoining Profile [integrated]	—W	78	mm
Sash_Adjoining Profile_Sash	—W	107.5	mm

The Sections _ Classic edition

Frame_Sash [hidden hinge]	H	89.5	mm
Frame_Sash [standard hinge]	H	94.5	mm
Sash_Adjoining Profile_Sash	—W	154.5	mm

The
TECHNOLOGY

Indicative Vertical Section Frame + Sash

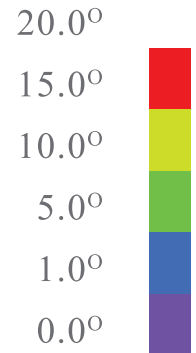


- 1 | Minimal face height (Frame+Sash) of only 66mm _ in BS edition 84mm _ in Classic edition with the use of mechanism with hidden hinges.
- 2 | Large width polyamide strips on all profiles of 42mm.
- 3 | Extra foam-filled insulation zone using ELVIAL I² Technology. Certified thermal conductivity coefficient: $\lambda = 0.023 \text{ W/mK}$.
- 4 | Co-extruded central and perimetrical gasket, optimizing the thermal flow interruption.
- 5 | Maximum glazing width of 46mm & 32mm _ in BS edition 56mm _ in Classic edition in alignment with contemporary norms for outstanding thermal insulation.
- 6 | Special design of outer glazing gasket for impeccable sealing levels.
- 7 | 2 editions developed: CE _ European groove and ML _ Multilock offering all available hardware solutions for the manufacturer.
- 8 | Simple machining process of the integrated adjoining profile offering extra easiness and speed in construction.

The
ENERGY PERFORMANCE

Excellent Isothermal Curves are achieved, in ELVIAL W77 AI² system.

$U_w \geq 0.74 \text{ W/m}^2\text{K}$
 $U_g = 0.5 \text{ W/m}^2\text{K}$
 double sash construction 2.800mm x 2.500mm



Level 1

Basic

Uf: $\geq 1.9 \text{ W/m}^2\text{K}$

Level 2

I² Technology

Uf: $\geq 1.4 \text{ W/m}^2\text{K}$

Level 3

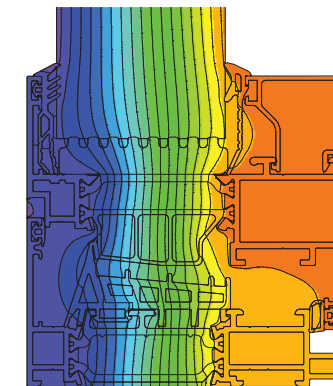
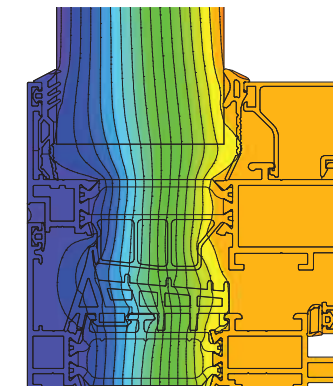
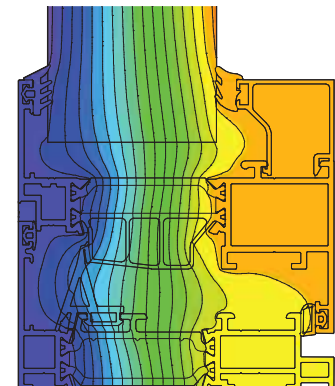
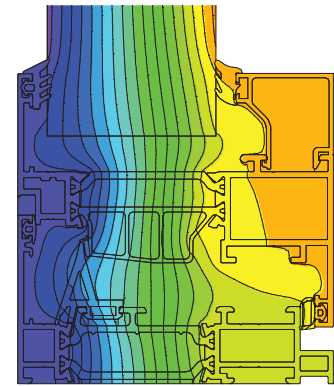
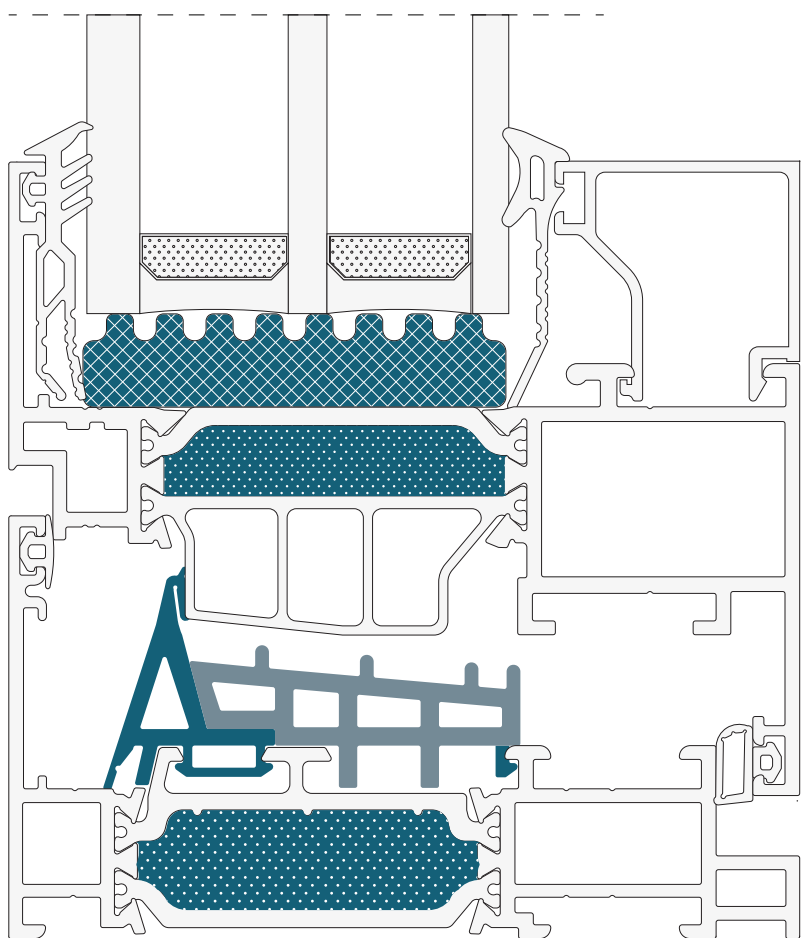
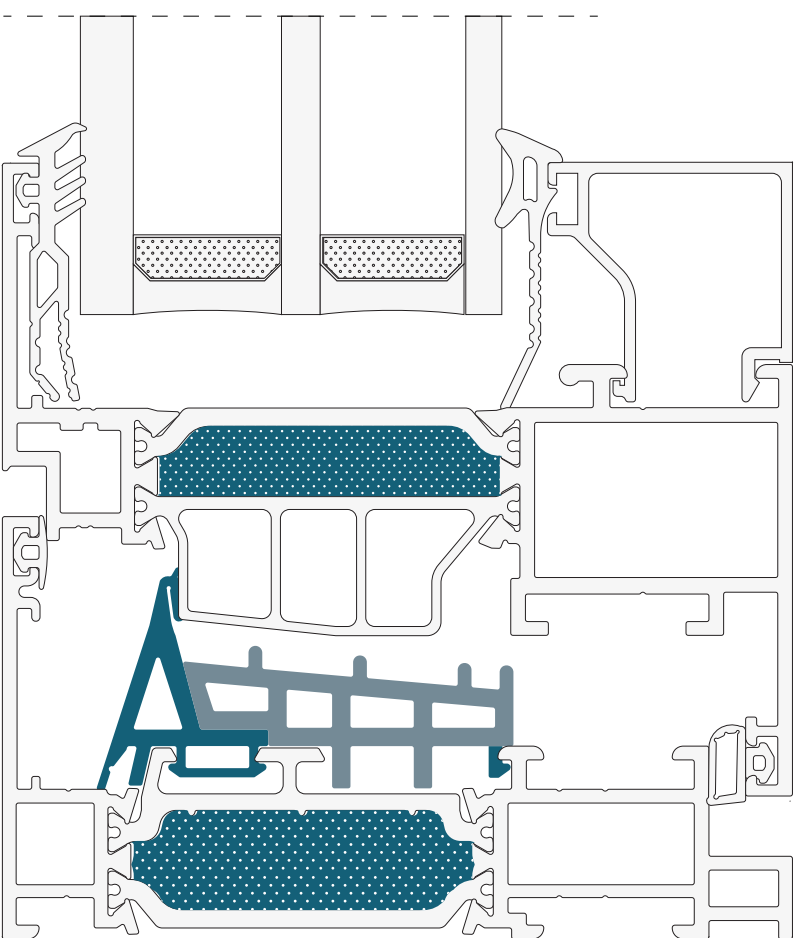
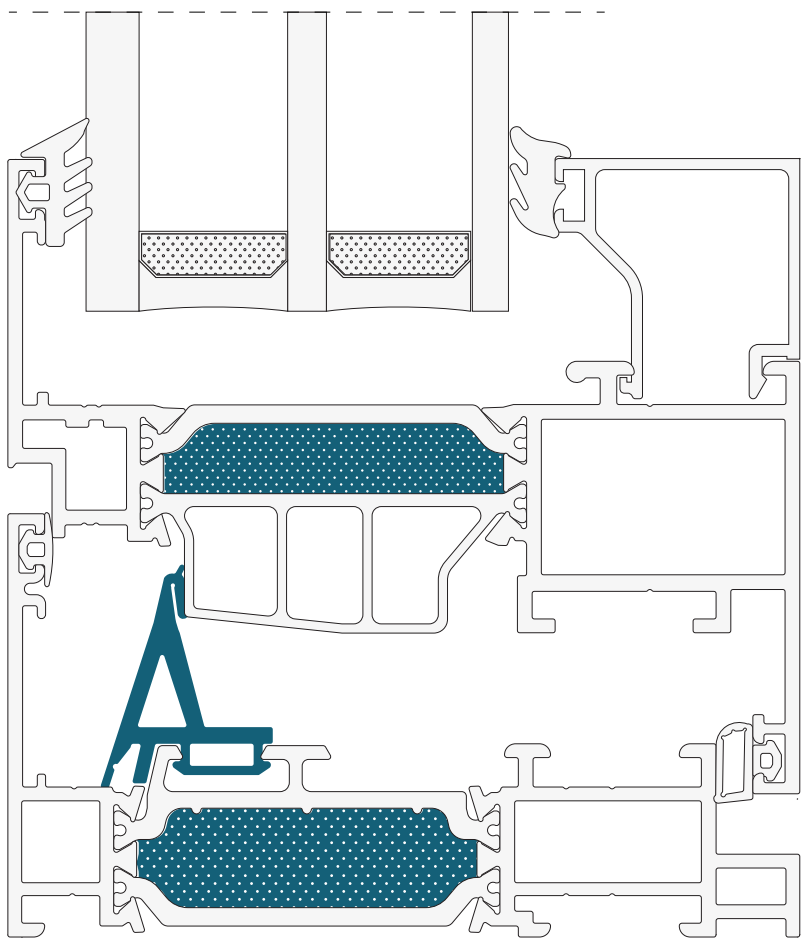
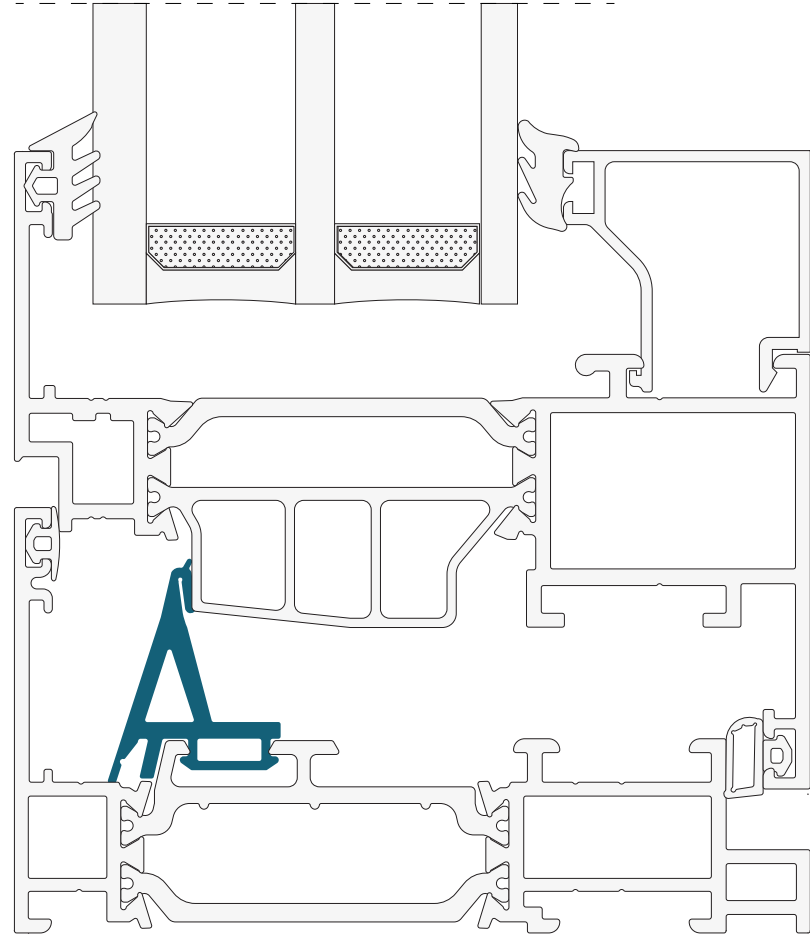
Gasket insulation

Uf: $\geq 1.2 \text{ W/m}^2\text{K}$

Level 4

Polyethylene Insulation

Uf: $\geq 1.1 \text{ W/m}^2\text{K}$



The
ENERGY PERFORMANCE

Excellent Isothermal Curves are achieved, in ELVIAL W77 AI².BS system.

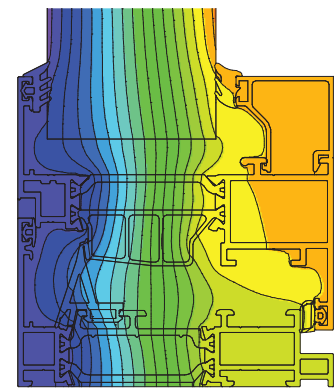
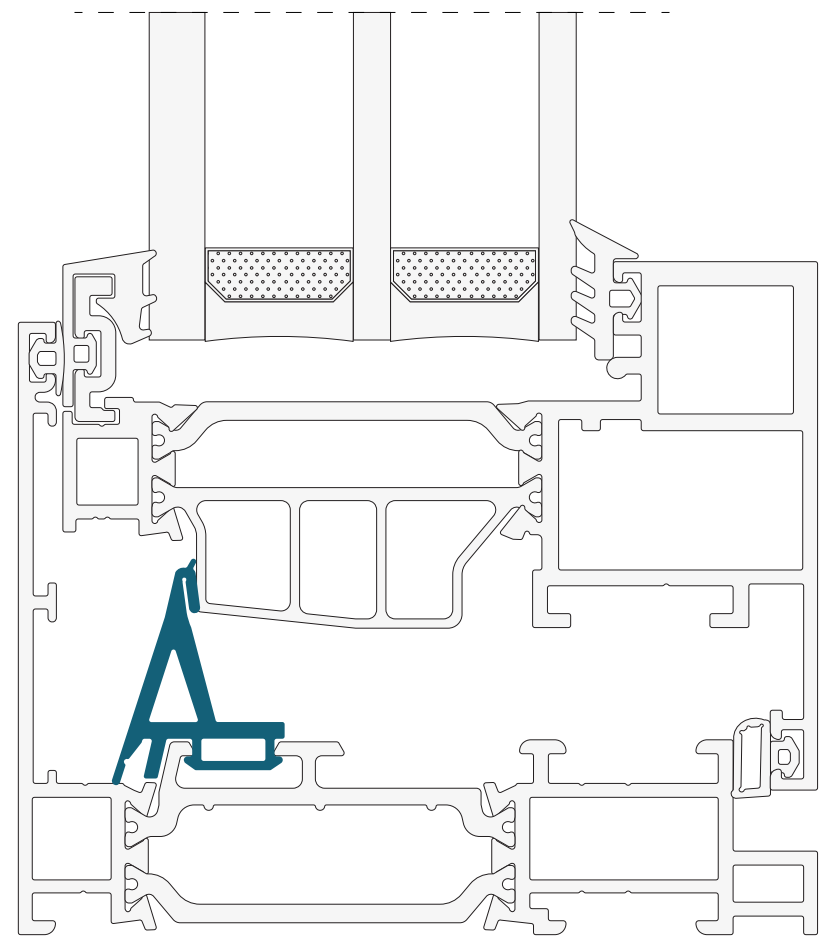
$U_w \geq 0.9 \text{ W/m}^2\text{K}$
 $U_g = 0.5 \text{ W/m}^2\text{K}$
 double sash construction 1.500mm x 2.300mm



Level 1

Basic

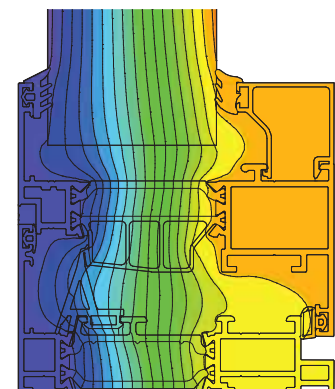
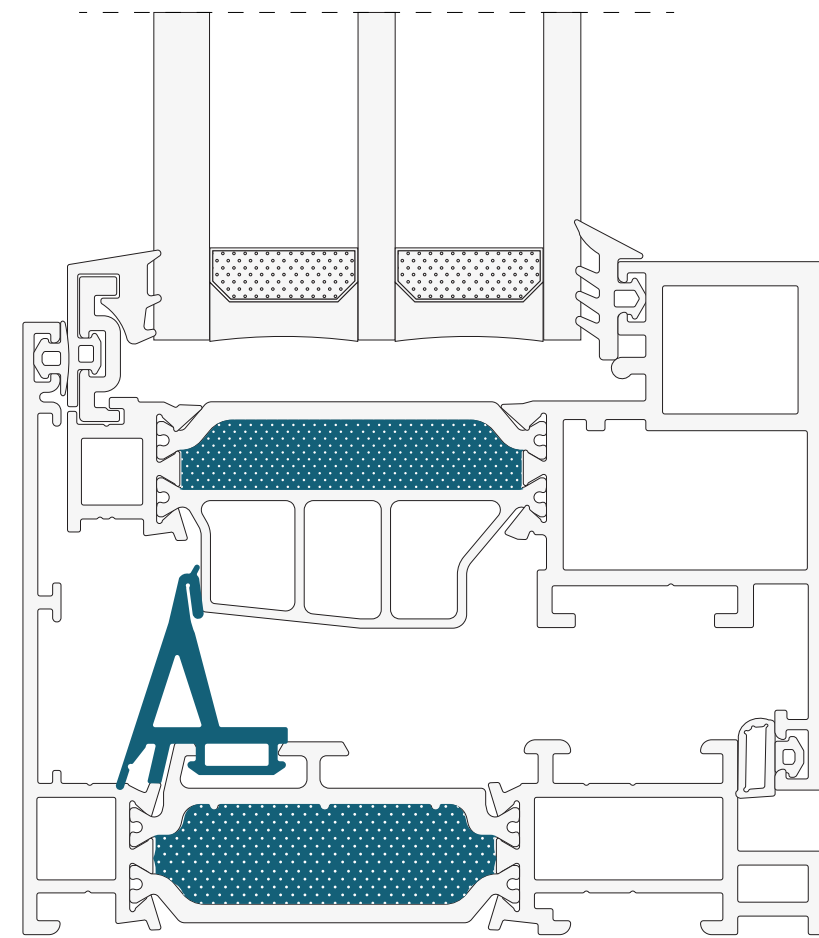
Uf: $\geq 2.1 \text{ W/m}^2\text{K}$



Level 2

I² Technology

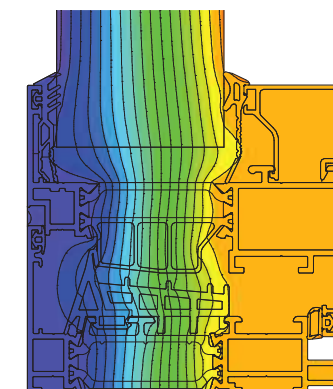
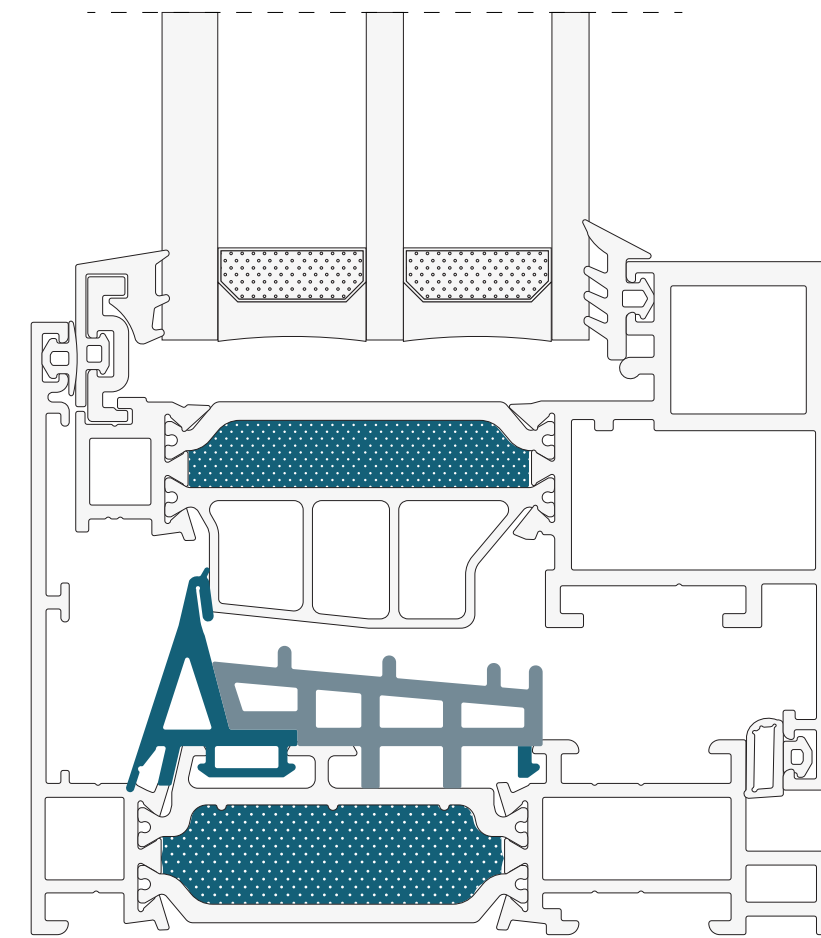
Uf: $\geq 1.9 \text{ W/m}^2\text{K}$



Level 3

Gasket insulation

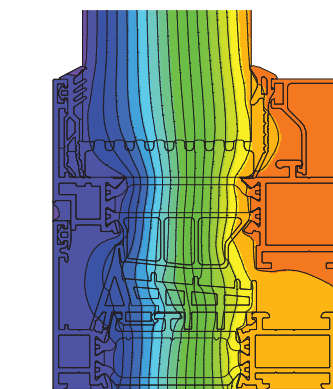
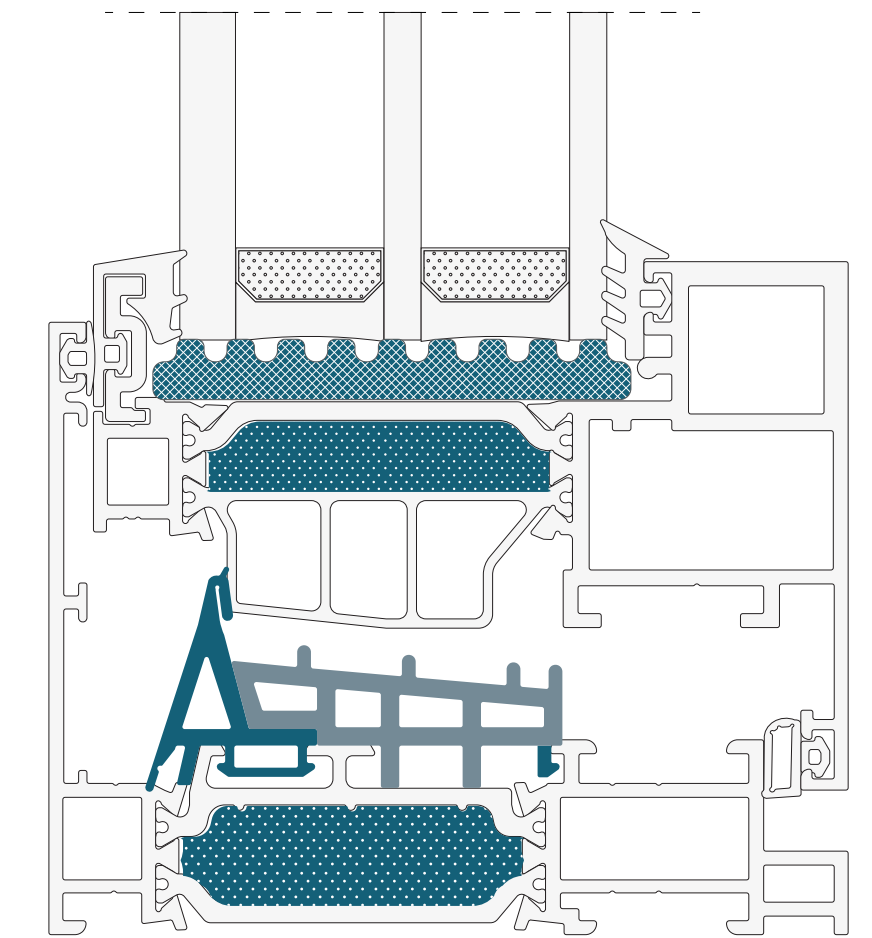
Uf: $\geq 1.7 \text{ W/m}^2\text{K}$



Level 4

Polyethylene Insulation









Uf: $\geq 1.6 \text{ W/m}^2\text{K}$



*The
PERFORMANCES*

Characteristic	Standard	Value	
Energy			
Thermal Insulation Uf	EN ISO 10077-2	>1.1	[Classic]
		>1.6	[BS]
* Comfort			
Air Permeability	EN 12207	up to 4	[600Pa]
Water Tightness	EN 12208	up to E1200	[1.200Pa]
Resistance to Wind Load	EN 12210	up to C5 / B5	[2.000Pa]

*The
IDENTITY*

		BS edition	Classic edition
Min Face Height		66mm	84.5mm
Min Face Height with the use of Threshold		56mm	-
Min Face Width		78mm	144.5mm
Max Sash Height		2.3m	2.5m
Max Sash Width		0.8m	1.4m
Max Sash Weight		130kg	130kg
Max Sash Area		1.84m ²	3.5m ²
Max Glass Thickness		46mm or 32mm	56mm

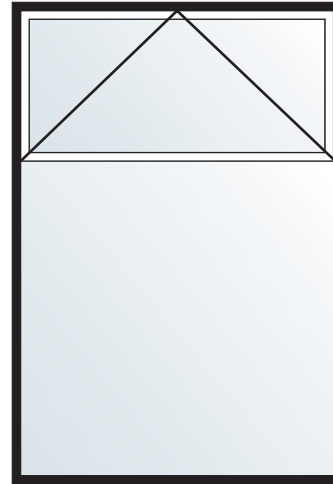
The
TYPOTOLOGIES

Single Sash Windows

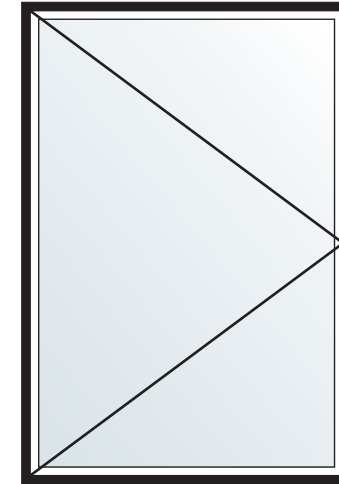
Fixed Window
(square, round)



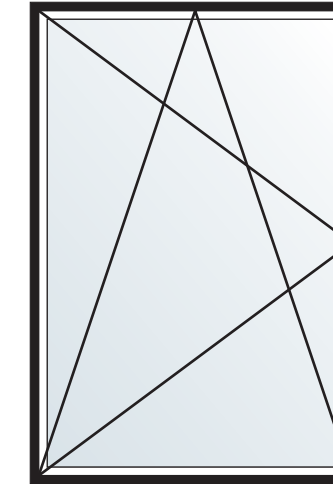
Fixed Window
with Skylight



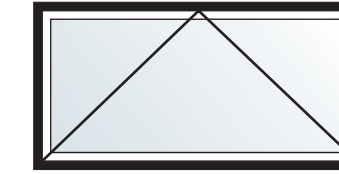
Opening Window



Tilt & Turn Window

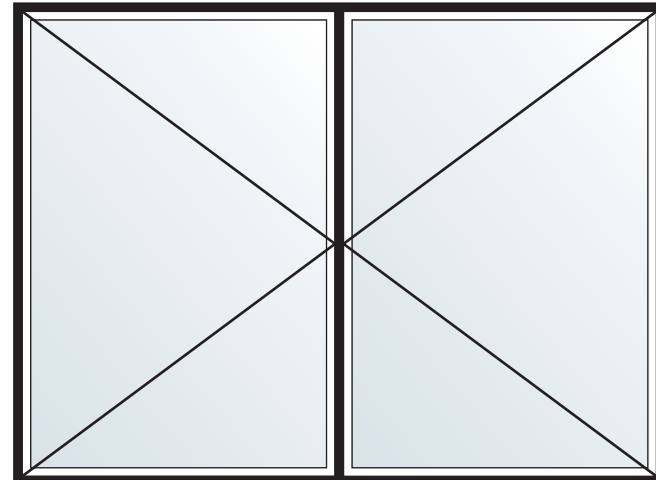


Top Hung Window

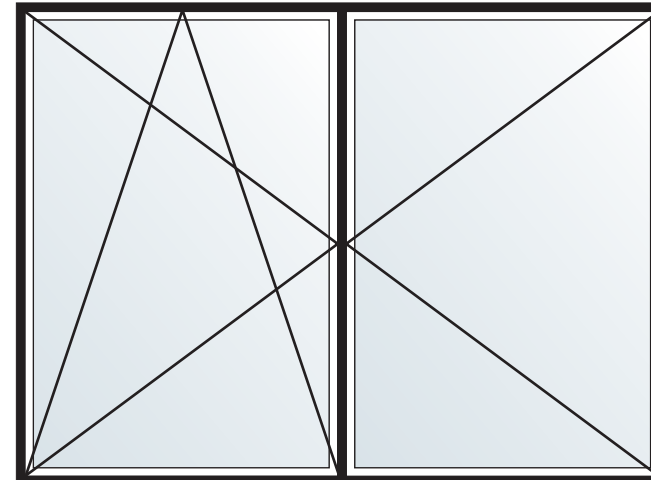


Double Sash Windows

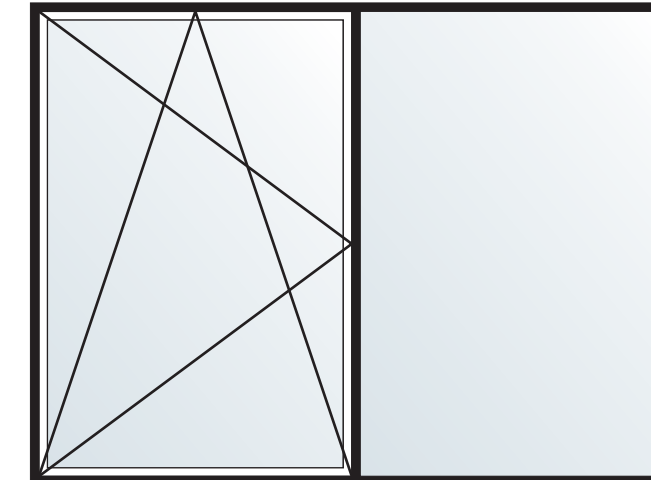
Opening Window



Tilt & Turn Window

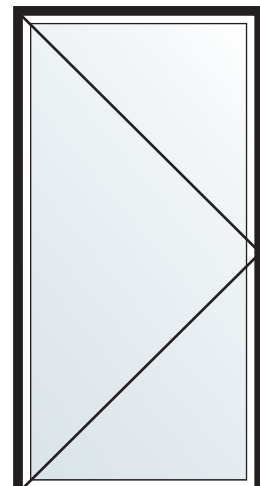


Tilt & Turn Window
with Fixed

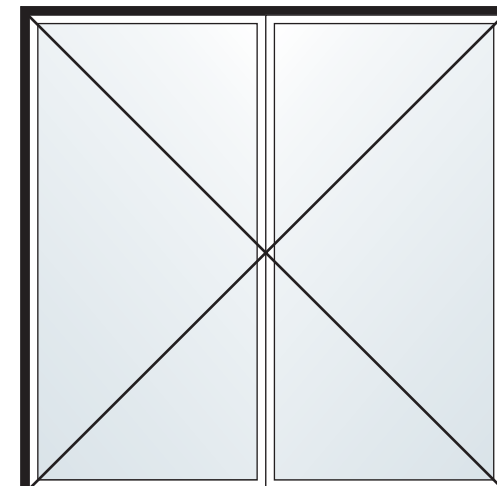


Doors

Single Door
Inward Opening

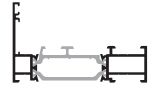
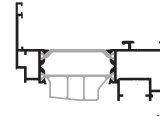
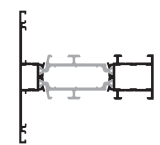
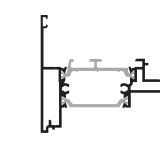
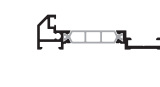

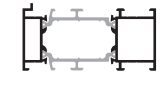
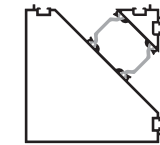

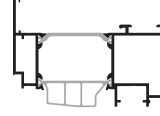
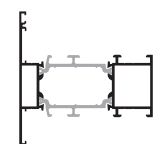
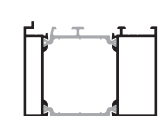
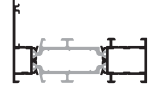
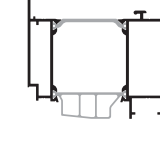
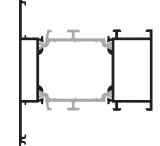



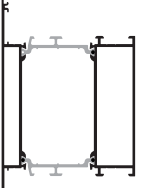
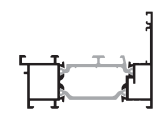

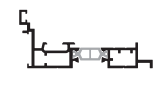

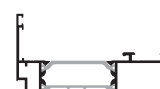





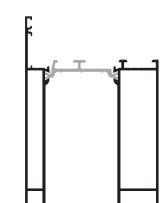
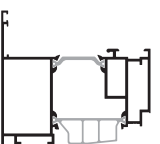


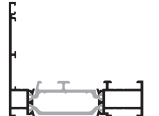
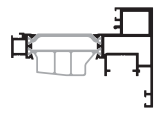
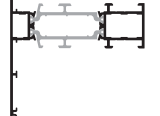
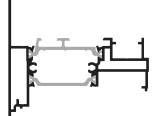


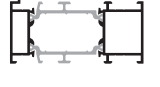
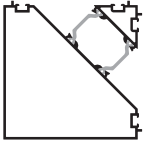

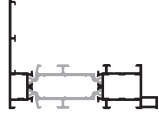
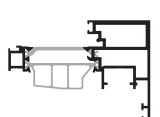
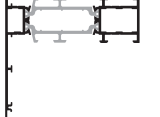
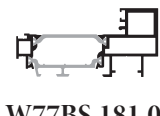
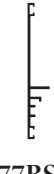


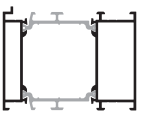

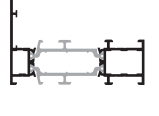
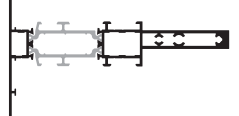
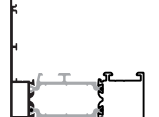
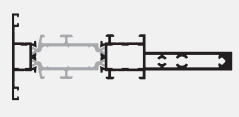


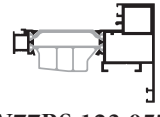
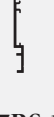

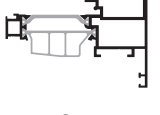


Double Door
Inward Opening



* available profiles for system's compatibility
with D77HI² door system.

Classic Edition

	Frames	Sashes	Transoms	Adjoining Profiles	Thresholds	Additional profiles	Angular profiles	Glazing beads
ML	 W77.110.021	 W77.170.074	 W77.130.026	 W77.180.067	 +  W77.151.020 W77.159.021	 W77.119.036	 W77.160.090	
	 W77.111.026	 W77.170.087	 W77.130.036			 W77.119.057		
	 W77.110.026	 W77.170.102 35mm lock	 W77.130.047		 +  W77.153.017 W77.159.016			
	 W77.110.031		 W77.130.081			 W77.117.031		
	 W77.110.036					 W77.118.009		
CE	 W77.110.047	 W77.120.074	 W77.139.031	 W77.140.067				
	 W77.110.057	 W77.120.086						
	 W77.110.081							
	 W77.110.150	 W77.121.086						

	Frames	Sashes	Transoms	Adjoining Profiles	Thresholds	Additional profiles	Angular profiles	Glazing beads
ML	 W77BS.110.021	 W77BS.173.057	 W77BS.130.026	 W77BS.180.107	 +  W77.151.020 + W77.159.021	 W77.119.036	 W77.160.090	 GB.131.004
	 W77BS.111.026	 W77BS.172.057	 W77BS.131.026	 +  W77BS.181.039 + W77BS.189.078	 +  W77BS.153.032 + W77.159.016	 W77.119.057	 GB.120.017	Only for profile W77BS.138.026
	 W77BS.110.026		 W77BS.136.026					
	 W77BS.110.031		 W77BS.138.026					
		 +  W77BS.599.050 + 7721						
CE		 W77BS.123.057	 W77BS.198.047	 W77BS.140.107				
		 W77BS.122.057						 GB.130.019
								 GB.130.033

The
TOOLS

A | **Minimum Equipment required by fabricator**

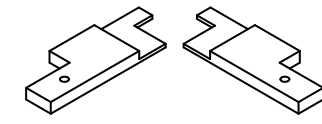
crimping machine
double saw
milling machine

B | **Tools required for the system**

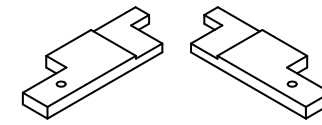
crimping knives
milling heads for*:
| integrated adjoining profile

**drawings provided*

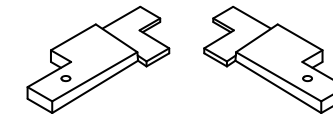
The TOOLS



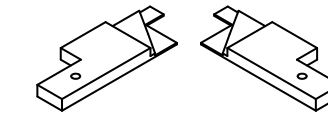
MG.CN.01



MG.CN.02



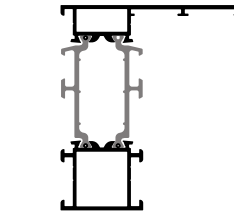
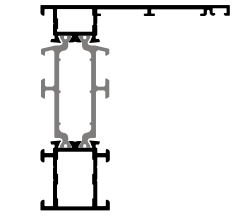
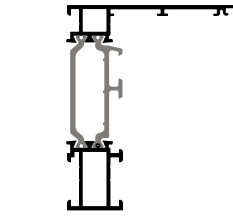
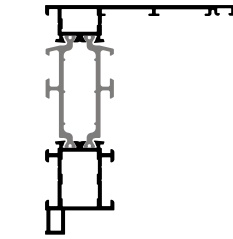
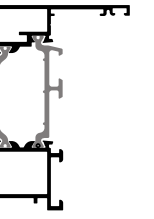
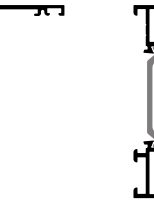
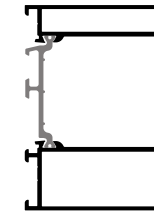
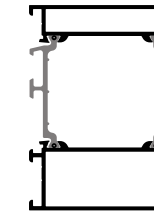
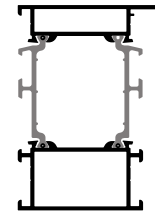
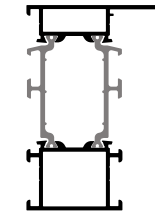
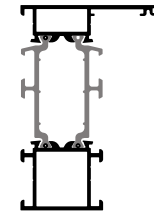
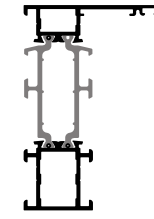
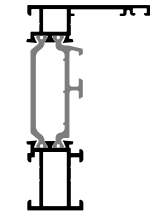
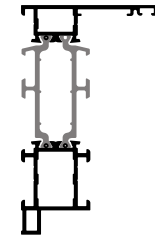
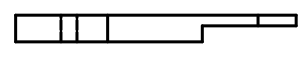
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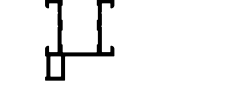
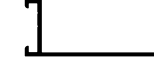
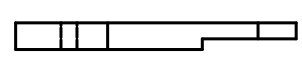
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Knives

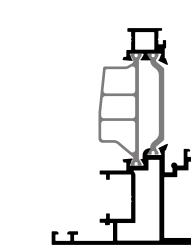
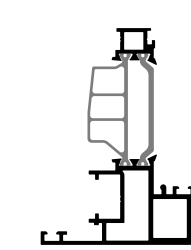
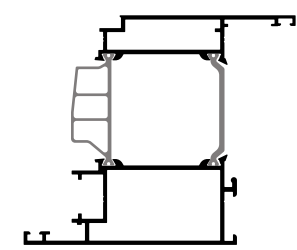
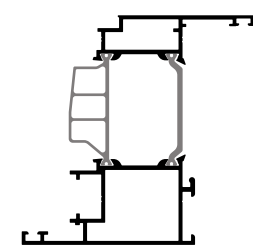
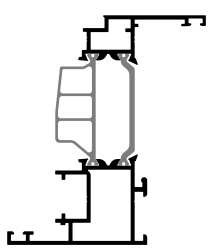
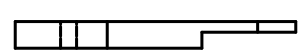
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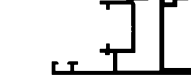
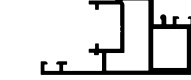
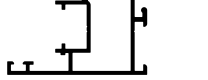
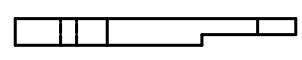
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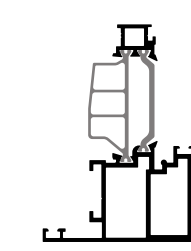
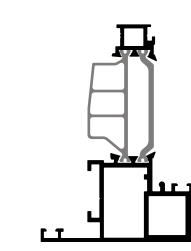
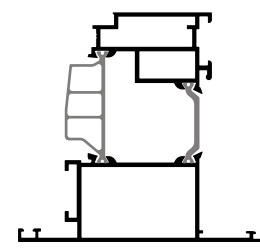
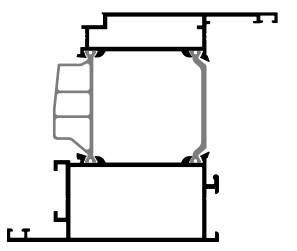
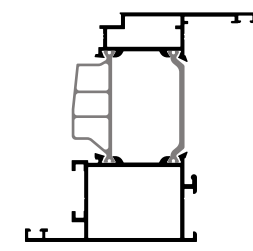
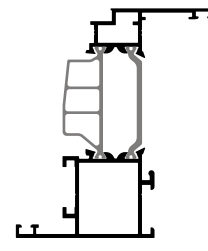
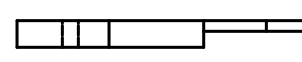
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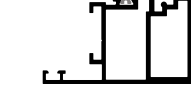
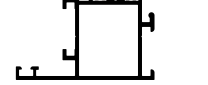
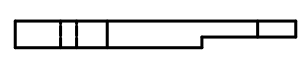
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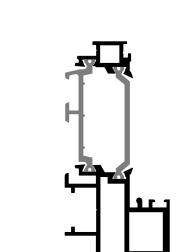
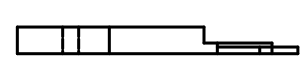
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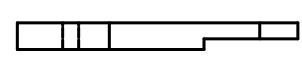
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MG.CN.06



MG.CN.02



	Code	Availability	Type
Product Presentation			
ELVIAL W77AI2 2019_EN	9-340-98 PP. W77_EN		PDF
Product Brochure			
ELVIAL W77AI2 2019_EN	9-340-98 PB. W77_EN	M09 / 2019	PDF
Product Box			
The ICONIC Collection Box	9-340-98 BOX ICONIC		
3D Samples			
Corner Sample ELVIAL W77AI2 (inside)	9-340-98 3DL. W77. 01		JPG
Corner Sample ELVIAL W77AI2 (outside)	9-340-98 3DL. W77. 02		JPG
ELVIAL W77AI2 Scene 01	9-340-98 3DS. W77. 11		JPG
ELVIAL W77AI2 Scene 02	9-340-98 3DS. W77. 12		JPG
ELVIAL W77AI2 Scene 03	9-340-98 3DS. W77. 13		JPG



The
MARKETING Tools

	Code	Availability	Type
Catalogues			
Technical Manual	9-340-98-TM. W77	M12 / 2019	PDF
Files			
Sections in .dwg		M12 / 2019	DWG
BIM models		M12 / 2019	BIM
Technical Specifications			
Test Reports		M10 / 2019	
Calculation Software			
Orgadata		Q12 / 2019	

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