

elVIAL



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ELVIAL W89 PHI²

Passive House is an energy efficient concept of construction that allows the building to function in complete harmony with the natural environment. Our Passive House certified solutions are aesthetically pleasing and achieve a $U_f \geq 0.79 \text{ W/m}^2\text{K}$, guaranteeing absolute thermal comfort. This is the pinnacle of ELVIAL's expertise in insulation and distinction in design.





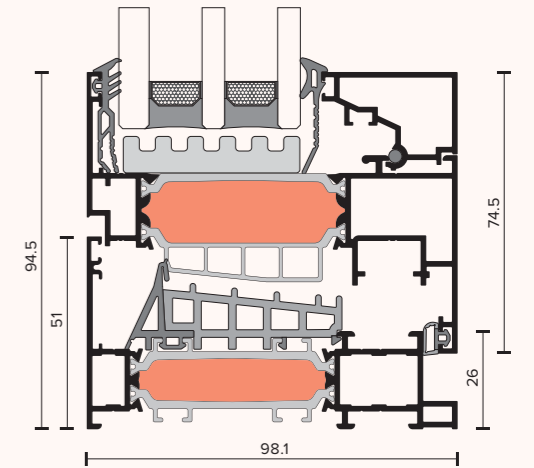
The Identity

DESIGN

	Frame Depth		89 mm
	Min Face Height	Frame - Sash	89 mm
	Min Face Width	Middle Mullion	154 mm

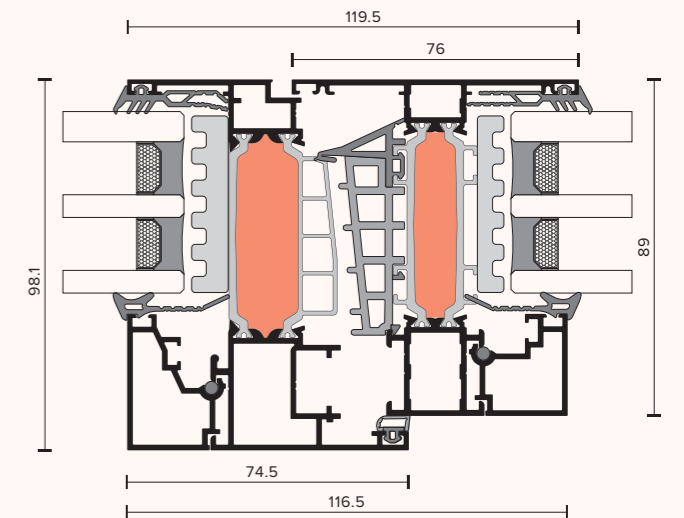
PROPERTIES

	Max Sash Height		2.800 mm
	Max Sash Width		1.600 mm
	Max Sash Weight		200 kg
	Max Glass Thickness		83 mm



The Performance

CHARACTERISTIC	STANDARD	VALUE
ENERGY		
Thermal Insulation Uf	EN ISO 10077-2	≥ 0.62 W/m²K
COMFORT		
Air Permeability	EN 12207	Class 4 [600Pa]
Watertightness	EN 12208	E1050 [1.050Pa]
Resistance to Wind Load	EN 12210	C4 / B4 [1.600Pa]





ICONIC W77 AI²

There are times that you need something special. But 'special' is not always synonymous to 'unique'. Special is about flexibility, versatility, and adaptability to scale and circumstance. It is not about compromise. It is about putting your vision in the right frame and reaping the benefits.







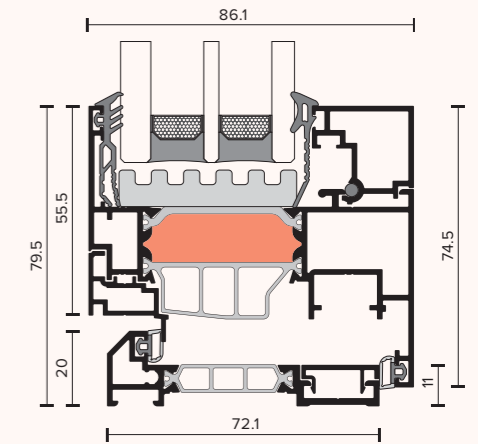
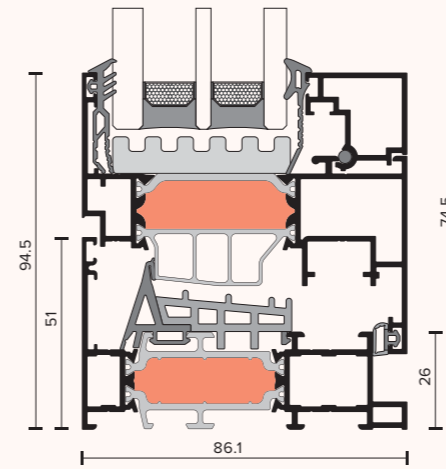
The Identity

DESIGN

	Frame Depth		77 mm
	Min Face Height	Frame - Sash	89 mm
	Min Face Height	Threshold - Sash	79 mm
	Min Face Width	Middle Mullion	154 mm

PROPERTIES

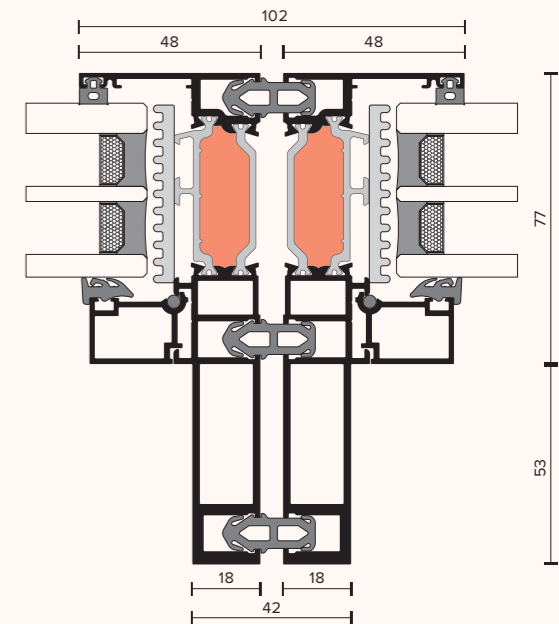
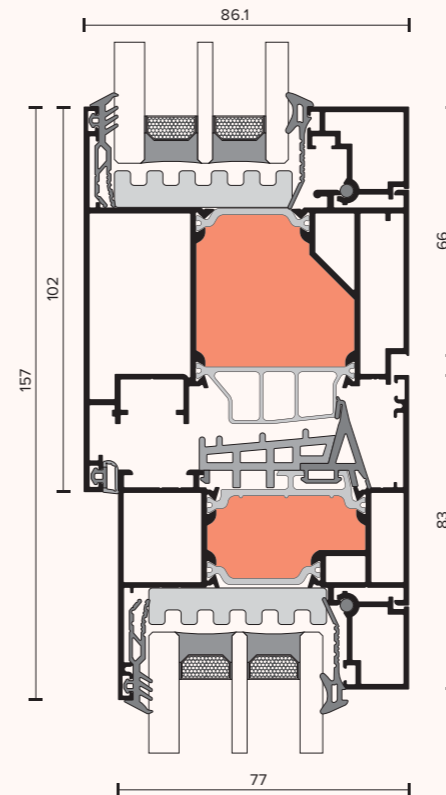
	Max Sash Height		2.800 mm
	Max Sash Width		1.400 mm
	Max Sash Weight		180 kg
	Max Glass Thickness		70 mm



The Performance

CHARACTERISTIC	STANDARD	VALUE
ENERGY		
Thermal Insulation U _f	EN ISO 10077-2	≥ 0.74 W/m²K
COMFORT		
Air Permeability	EN 12207	Class 4 [600Pa]
Watertightness	EN 12208	E1200 [1.200Pa]
Resistance to Wind Load	EN 12210	C5 / B5 [2.000Pa]
Sound Reduction	EN 10140-2	50 dB <small>Glazing</small> 88.2 / 24 / 66.2
NAFS		
AAMA Rating		Class AW*
PG Rating		100*

* For fixed and inward-outward opening




ICONIC W77BS AI²

Open a whole new world of possibilities. The blind sash that allows for streamlined minimal looks to harbor our most advanced technologies, without compromises to aesthetic results is present. The potential is limitless.






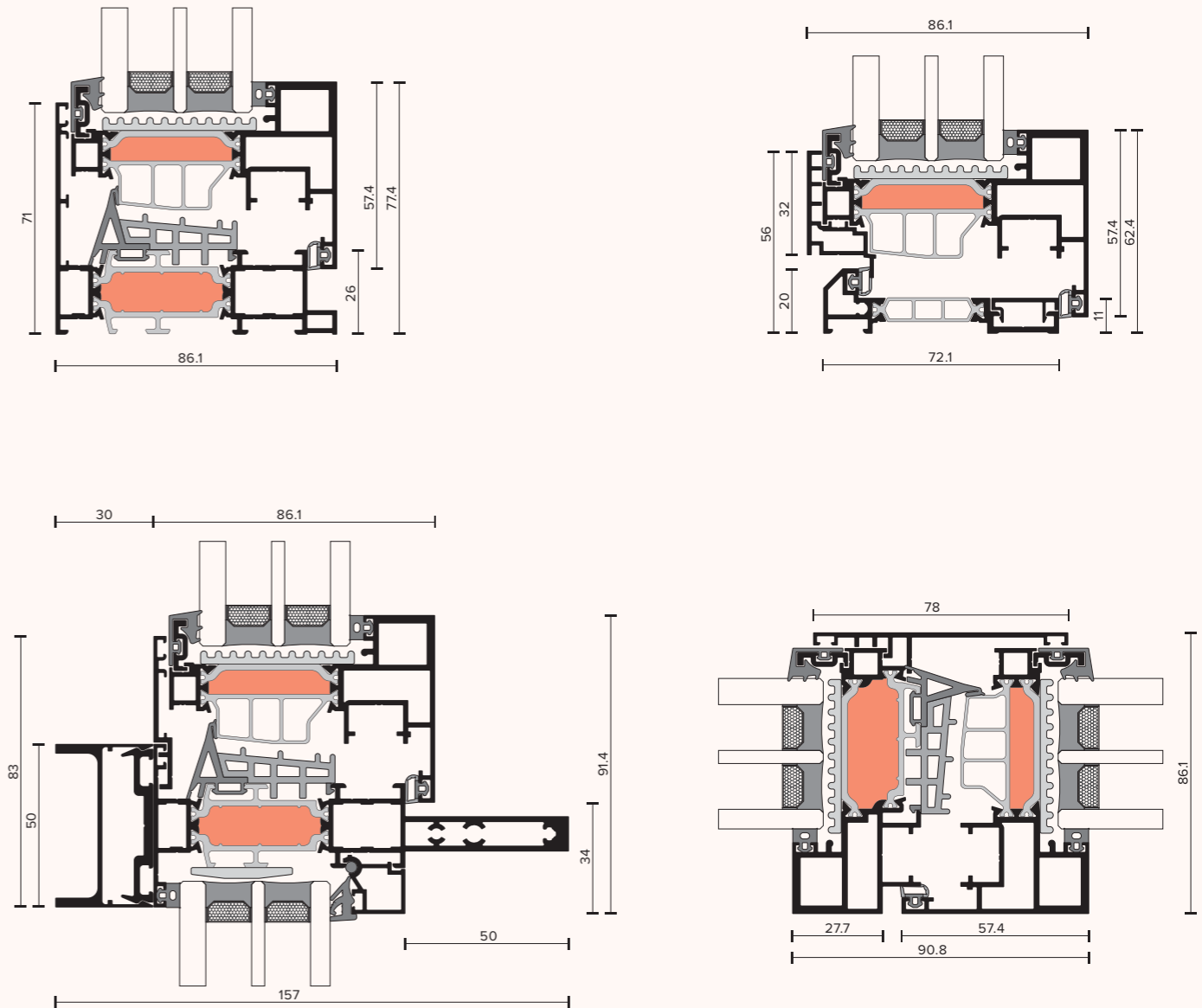
The Identity

DESIGN

	Frame Depth		77 mm
	Min Face Height	Frame - Sash	66 mm
	Min Face Height	Threshold - Sash	56 mm
	Min Face Width	Middle Mullion	78 mm

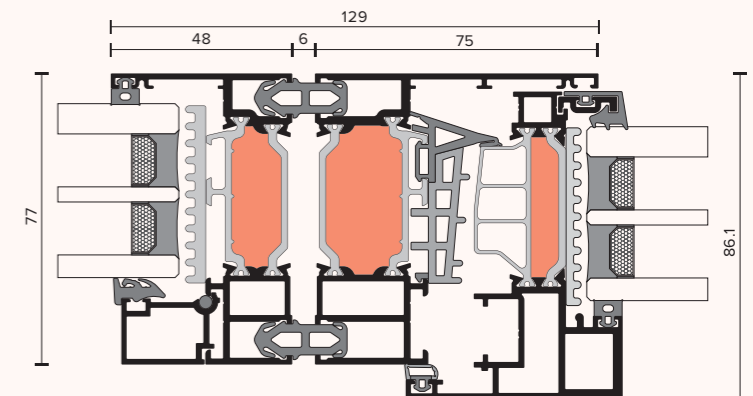
PROPERTIES

	Max Sash Height		2.500 mm
	Max Sash Width		1.400 mm
	Max Sash Weight		130 kg
	Max Glass Thickness		46 mm ñ 32 mm



The Performance

CHARACTERISTIC	STANDARD	VALUE
ENERGY		
Thermal Insulation Uf	EN ISO 10077-2	≥ 1.0 W/m²K
COMFORT		
Air Permeability	EN 12207	Class 4 [600Pa]
Watertightness	EN 12208	E1050 [1.050Pa]
Resistance to Wind Load	EN 12210	C5 / B5 [2.000Pa]




ICONIC W77ST AI²

More often than not style is an exercise in equilibrium. Like walking on a very fine line. This is the best asset of this system. The lines are so fine that render the detailing an expert demonstration of balance. This along with the advanced technologies featured makes up for one thing: perfection. Make it happen.




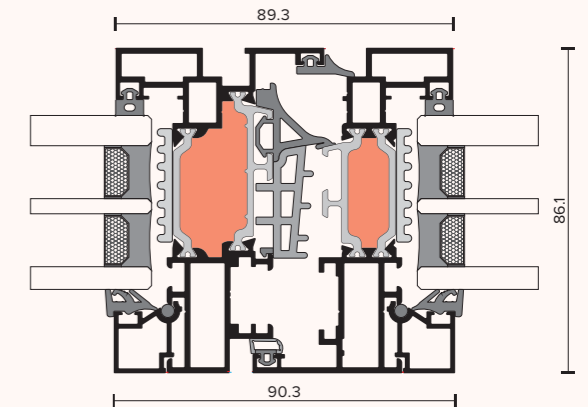
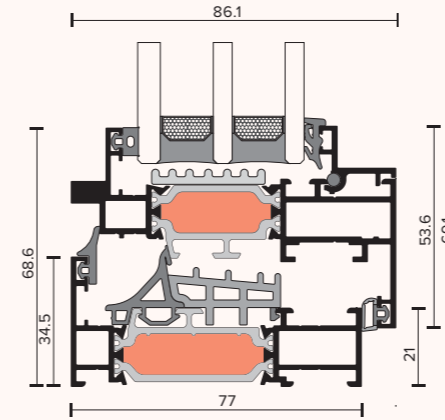
The Identity

DESIGN

	Frame Depth		77 mm
	Min Face Height	Frame - Sash	68 mm
	Min Face Width	Middle Mullion	89 mm

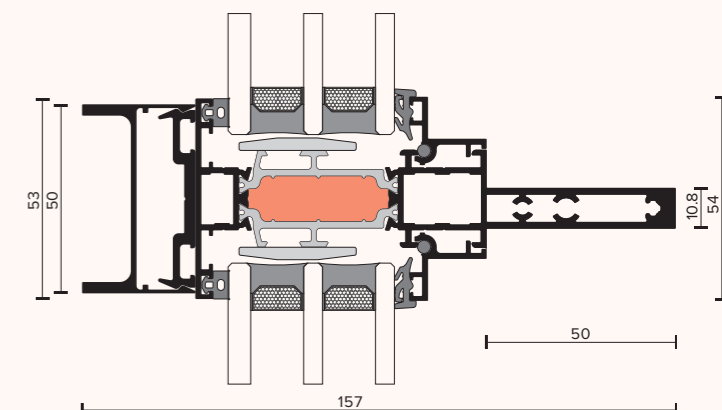
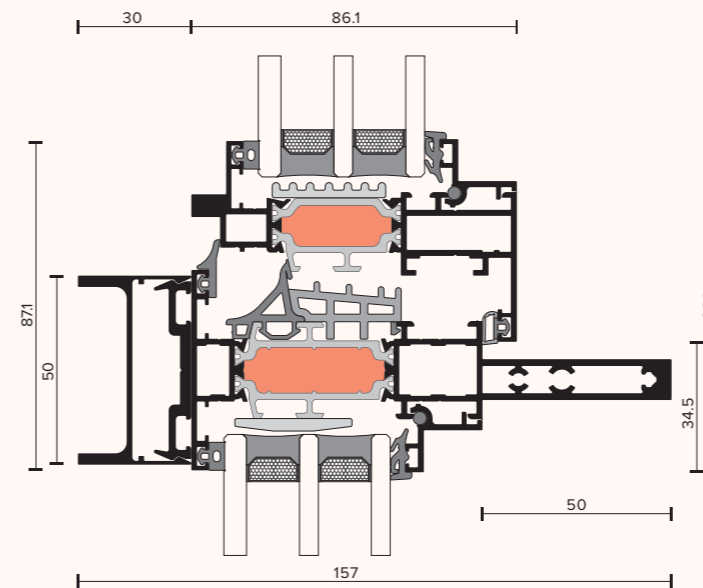
PROPERTIES

	Max Sash Height		2.400 mm
	Max Sash Width		1.200 mm
	Max Sash Weight		150 kg
	Max Glass Thickness		56 mm



The Performance

CHARACTERISTIC	STANDARD	VALUE
ENERGY		
Thermal Insulation U _f	EN ISO 10077-2	≥ 1.2 W/m²K
COMFORT		
Air Permeability	EN 12207	Class 4 [600Pa]
Watertightness	EN 12208	9A [600Pa]
Resistance to Wind Load	EN 12210	C4 / B4 [1.600Pa]




ESSENCE W67 HI²

Essence W67 HI² is as elegant as an aluminium profile can get and extremely reliable. It is the go-to solution when flexibility and dependability are of utmost importance. This solution can be adapted to fit your capabilities and aesthetic demands and add an obvious asset to any project.





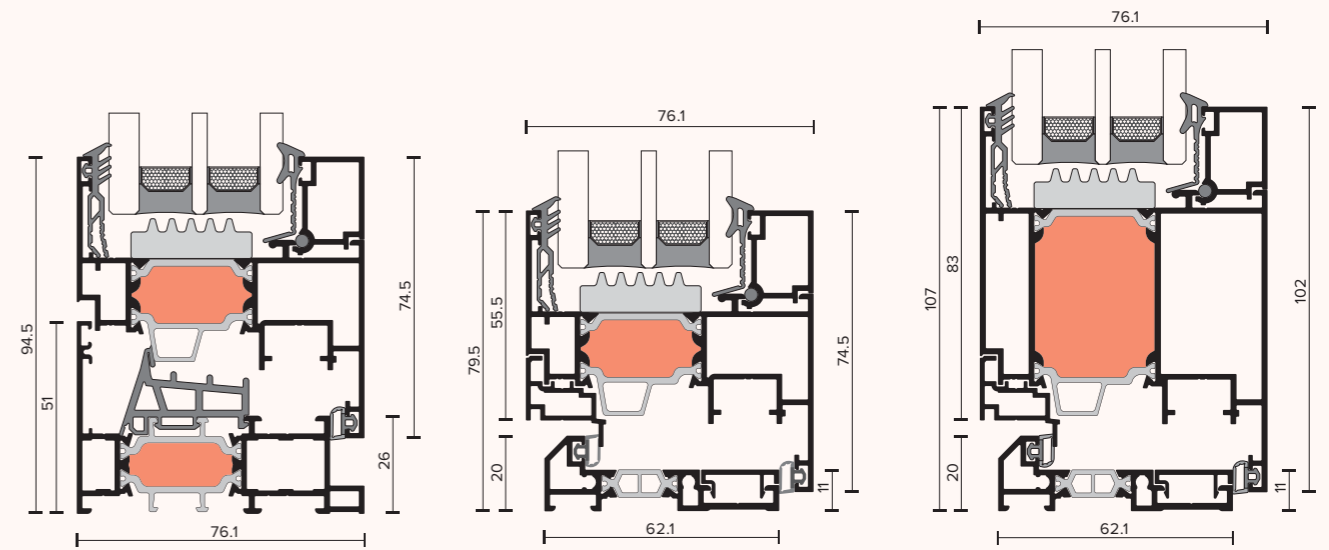
The Identity

DESIGN

	Frame Depth		67 mm
	Min Face Height	Frame - Sash	89 mm
	Min Face Height	Threshold - Sash	79 mm
	Min Face Width	Middle Mullion	154 mm

PROPERTIES

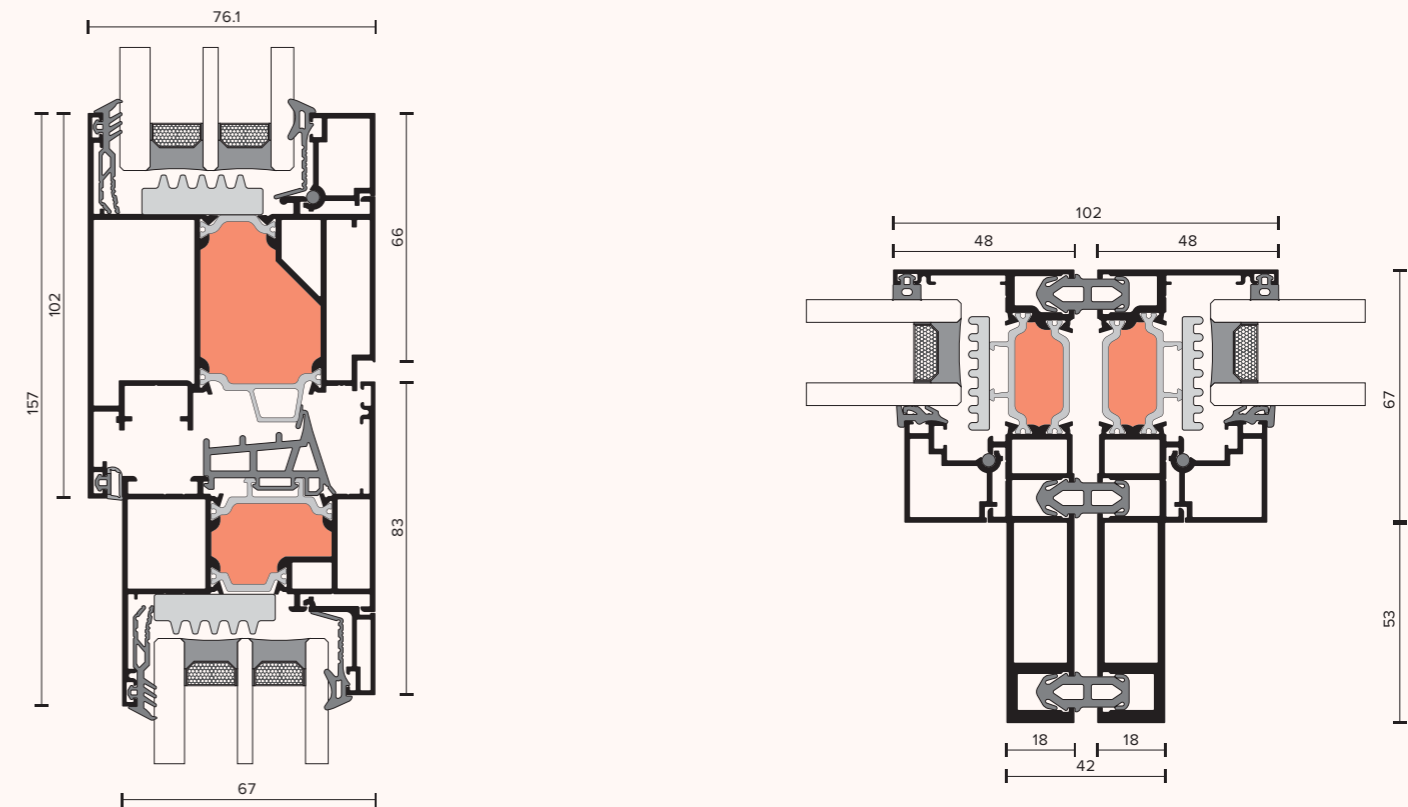
	Max Sash Height		2.800 mm
	Max Sash Width		1.400 mm
	Max Sash Weight		180 kg
	Max Glass Thickness		60 mm



The Performance

CHARACTERISTIC	STANDARD	VALUE
ENERGY		
Thermal Insulation Uf	EN ISO 10077-2	≥ 1.1 W/m²K
COMFORT		
Air Permeability	EN 12207	Class 4 [600Pa]
Watertightness	EN 12208	E1350 [1.350Pa]
Resistance to Wind Load	EN 12210	C5 / B5 [2.000Pa]
Sound Reduction	EN 10140-2	40 dB <small>Glazing</small> 44.2 / 18 / 44.2
Operating Forces	EN 13115	Class 1
Mechanical Properties	EN 13115	Class 2
NAFS		
AAMA Rating		Class AW*
PG Rating		100*

* For fixed and inward-outward opening







ESSENCE W67BS HI²

When creativity is an integral part of your day job, devising new opportunities and way of seeing things is part of the process and a great reward. Broadening this sense of possibility is what we do with this solution. We combined minimal looks with optimal technologies to produce unparalleled quality.





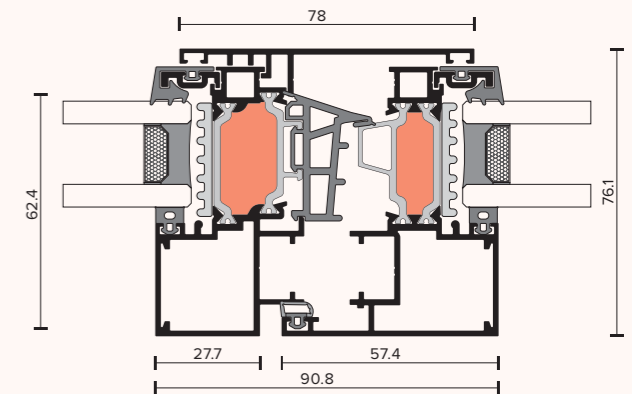
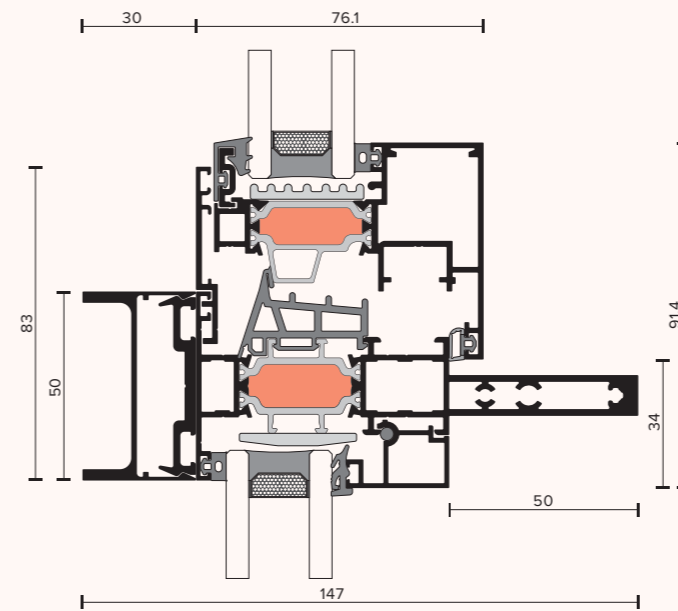
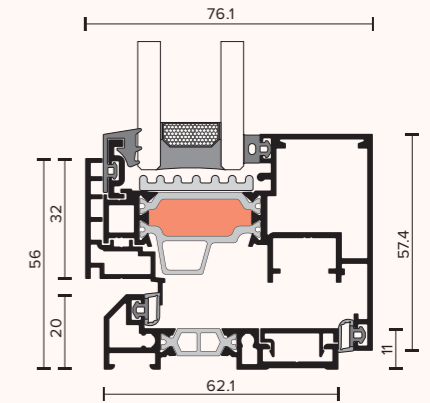
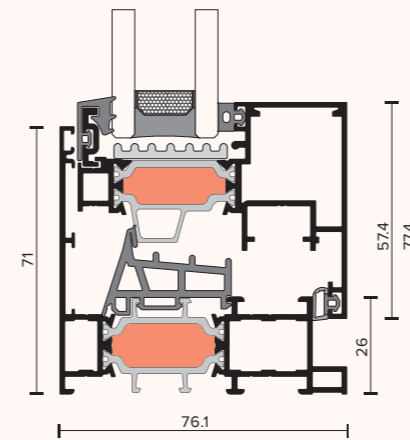
The Identity

DESIGN

	Frame Depth		67 mm
	Min Face Height	Frame - Sash	66 mm
	Min Face Height	Threshold - Sash	56 mm
	Min Face Width	Middle Mullion	78 mm

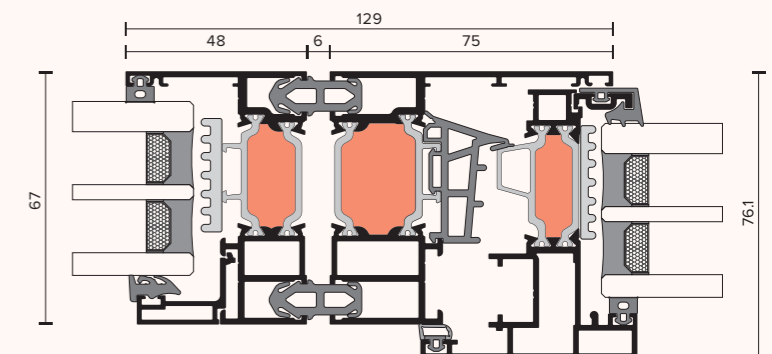
PROPERTIES

	Max Sash Height		2.500 mm
	Max Sash Width		1.400 mm
	Max Sash Weight		130 kg
	Max Glass Thickness		46 mm or 41 mm or 28 mm



The Performance

CHARACTERISTIC	STANDARD	VALUE
ENERGY		
Thermal Insulation Uf	EN ISO 10077-2	≥ 1.2 W/m²K
COMFORT		
Air Permeability	EN 12207	Class 4 [600Pa]
Watertightness	EN 12208	E1050 [1.050Pa]
Resistance to Wind Load	EN 12210	C5 / B5 [2.000Pa]
Sound Reduction	EN 10140-2	38 dB <small>Glazing</small> 6 / 32 / 44.2



ESSENCE W67ST HI²

The astragal bars on this profile are an additional design element that offers versatility and depth to your aesthetic approach. The features and technologies will offer comfort and satisfaction to the users of your project. ELVIAL happily guarantees all.






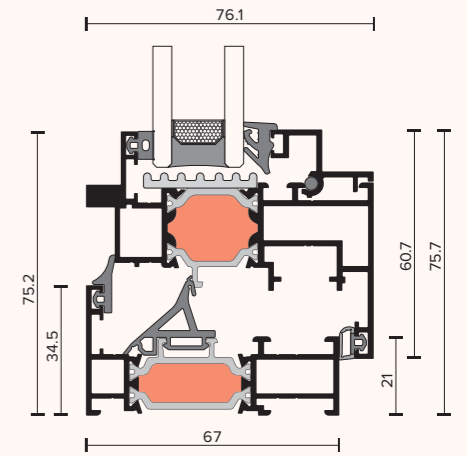
The Identity

DESIGN

	Frame Depth		67 mm
	Min Face Height	Frame - Sash	75.2 mm
	Min Face Width	Middle Mullion	112.7 mm

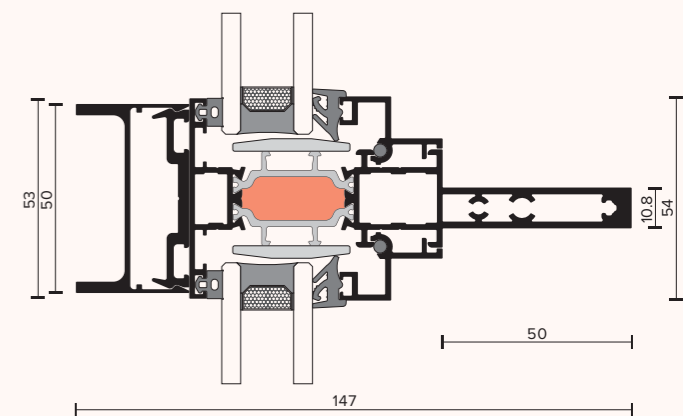
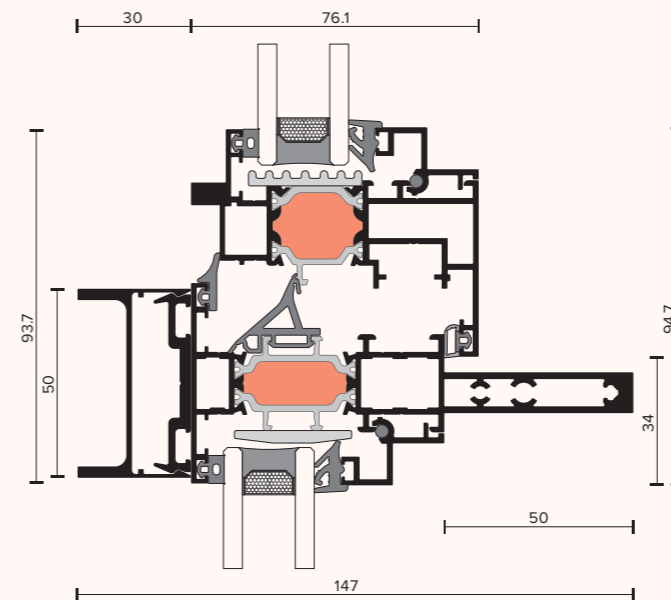
PROPERTIES

	Max Sash Height		2.400 mm
	Max Sash Width		1.200 mm
	Max Sash Weight		150 kg
	Max Glass Thickness		46 mm



The Performance

CHARACTERISTIC	STANDARD	VALUE
ENERGY		
Thermal Insulation U _f	EN ISO 10077-2	≥ 1.4 W/m ² K
COMFORT		
Air Permeability	EN 12207	Class 4 [600Pa]
Watertightness	EN 12208	E900 [900Pa]
Resistance to Wind Load	EN 12210	C5 / B5 [2.000Pa]



ELVIAL W59 SI²

Imagine a place where novelties and custom co-exist in a wonderful accord, where everything is measured by how it achieves a balance between antagonistic elements, and where what you imagine can be realized and shared with a community. This is the inspiration we drew upon to create W59 SI².







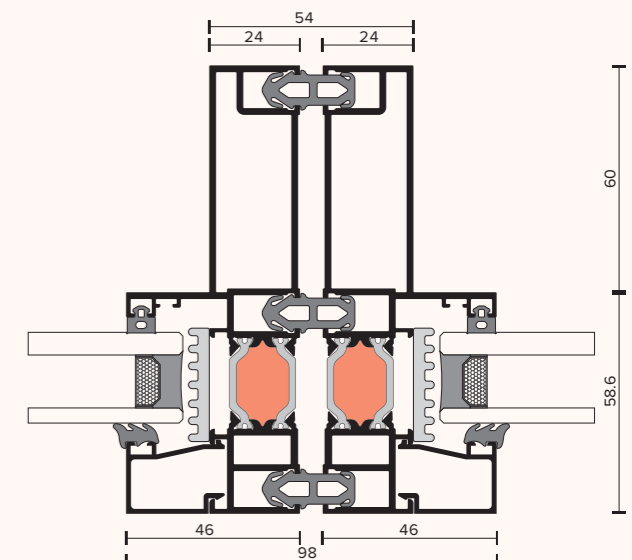
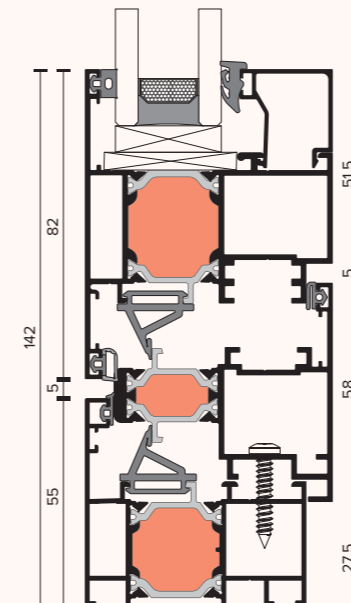
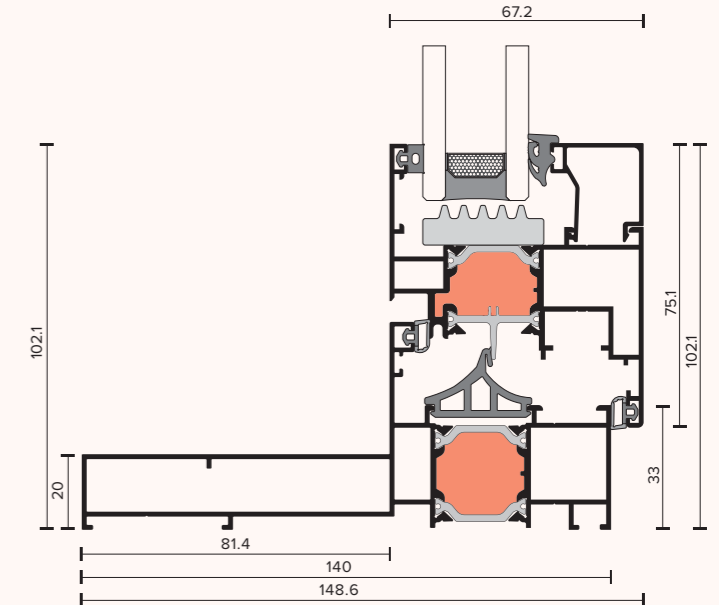
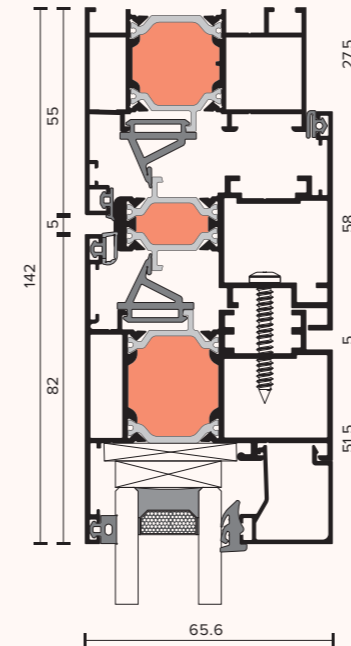
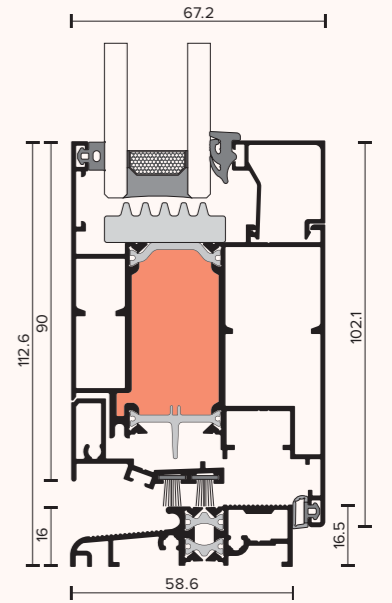
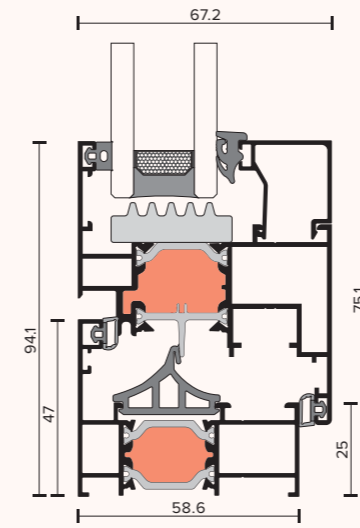
The Identity

DESIGN

 Frame Depth		58.6 mm
 Min Face Height	Frame - Sash	94.1 mm
 Min Face Height	Threshold - Sash	107.5 mm
 Min Face Width	Middle Mullion	155.7 mm

PROPERTIES

 Max Sash Height		2.300 mm
 Max Sash Width		1.000 mm
 Max Sash Weight		130 kg
 Max Glass Thickness		46 mm



The Performance

CHARACTERISTIC	STANDARD	VALUE
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ENERGY		
Thermal Insulation U _f	EN ISO 10077-2	≥ 1.8 W/m²K

COMFORT		
Air Permeability	EN 12207	Class 4 [600Pa]
Watertightness	EN 12208	E1650 [1.650Pa]
Resistance to Wind Load	EN 12210	C5 / B5 [2.000Pa]
Sound Reduction	EN 10140-2	40 dB <small>Glazing</small> 33.1 / 16 / 44.1

NAFS		
AAMA Rating		Class CW*
PG Rating		100*

* For fixed and inward-outward opening

ELVIAL W60BS SI²

Both a new building project and the upgrade of an old one have the same fundamental requirements. Performance and design. ELVIAL created W60BS SI² as an aluminium system solution that fits ideally both the system replacement and upgrade in existing buildings combining the performance you need with the design you choose.




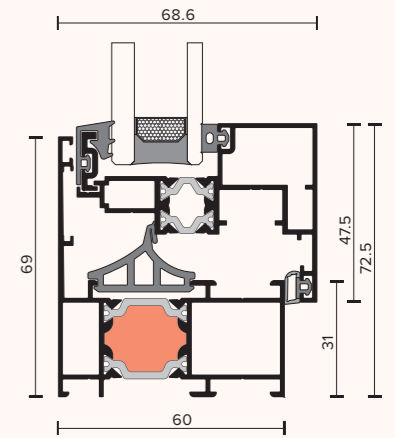
The Identity

DESIGN

	Frame Depth		60 mm
	Min Face Height	Frame - Sash	69 mm
	Min Face Width	Middle Mullion	93.5 mm

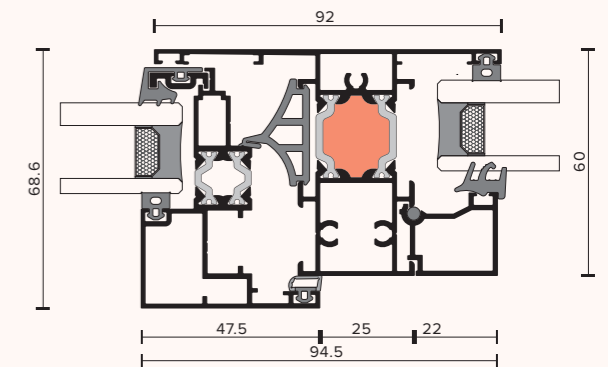
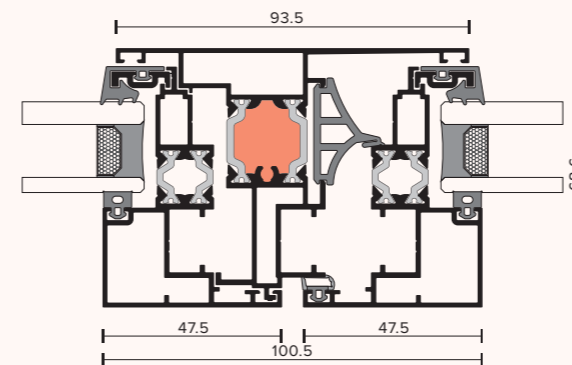
PROPERTIES

	Max Sash Height		2.500 mm
	Max Sash Width		1.000 mm
	Max Sash Weight		100 kg
	Max Glass Thickness		24 mm



The Performance

CHARACTERISTIC	STANDARD	VALUE
ENERGY		
Thermal Insulation U _f	EN ISO 10077-2	≥ 2.5 W/m²K
COMFORT		
Air Permeability	EN 12207	Class 4 [600Pa]
Watertightness	EN 12208	E1050 [1.050Pa]
Resistance to Wind Load	EN 12210	C5 / B5 [2.000Pa]





ELVIAL W54 NI

There are those places in the world that enjoy many days of sunlight, nights are mild, and winds are gentle. Those places of moderate climate and the building projects developed there can find a solution with ELVIAL W54 NI. This is a carefully designed aluminium system for the places and spaces that enjoy the luxury of almost constant sunlight.




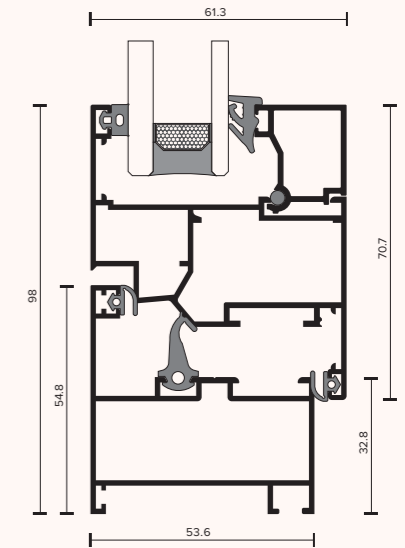
The Identity

DESIGN

 Frame Depth		53.6 / 62.3 / 75 mm
 Min Face Height	Frame - Sash	91.6 mm
 Min Face Height	Threshold - Sash	100 mm
 Min Face Width	Middle Mullion	147 mm

PROPERTIES

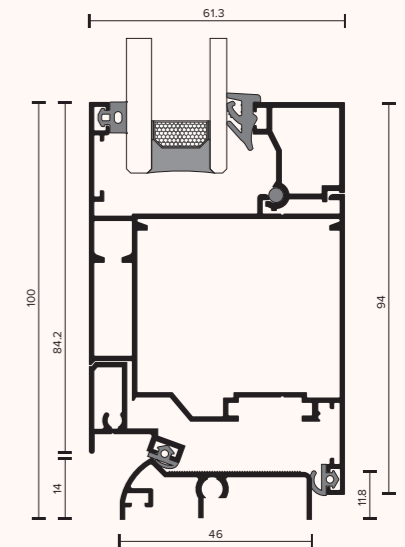
 Max Sash Height		2.300 mm
 Max Sash Width		1.100 mm
 Max Sash Weight		80 kg
 Max Glass Thickness		40 mm



The Performance

COMFORT

Air Permeability	EN 12207	Class 4	[600Pa]
Watertightness	EN 12208	3A	[100Pa]
Resistance to Wind Load	EN 12210	C4	[1.600Pa]
Sound Reduction	EN 10140-2	36 dB	Glazing 5 / 12 / 4



EXTRA FEATURES

Form follows function, they said.

We glorified form by concealing the functional components.

Hinges to open or tilt that go undetected.



Handles so sophisticated that render grace to industrial design.



The Matrix

	W89 PHI ²	ICONIC W77 AI ²	ICONIC W77BS AI ²	ICONIC W77ST AI ²	ESSENCE W67 HI ²	ESSENCE W67BS HI ²	ESSENCE W67ST HI ²	W59 SI ²	W60BS SI ²	ELVIAL W54 NI
Standard	●	●	○	○	●	○	○	●	○	●
Hidden	○	○	●	○	○	●	○	○	●	○
Industrial	○	○	○	●	○	○	●	○	○	○
ML	●	●	●	○	●	●	●	●	●	○
CE	●	●	●	●	●	●	●	●	○	●



















The Identity

DESIGN	W89 PHI ²	ICONIC W77 AI ²	ICONIC W77BS AI ²	ICONIC W77ST AI ²	ESSENCE W67 HI ²	ESSENCE W67BS HI ²	ESSENCE W67ST HI ²	W59 SI ²	W60BS SI ²	ELVIAL W54 NI
Frame Depth	89 mm	77 mm	77 mm	77 mm	67 mm	67 mm	67 mm	58.6 mm	60 mm	53.6 / 62.3 / 75 mm
Min Face Height Frame - Sash	89 mm	89 mm	66 mm	68 mm	89 mm	66 mm	75.2 mm	94.1 mm	69 mm	91.6 mm
Min Face Height Threshold - Sash	-	79 mm	56 mm	-	79 mm	56 mm	-	107.5 mm	-	100 mm
Min Face Width Middle Mullion	154 mm	154 mm	78 mm	89 mm	154 mm	78 mm	112.7 mm	155.7 mm	93.5 mm	147 mm
PROPERTIES										
Max Sash Height	2.800 mm	2.800 mm	2.500 mm	2.400 mm	2.800 mm	2.500 mm	2.400 mm	2.300 mm	2.500 mm	2.300 mm
Max Sash Width	1.600 mm	1.400 mm	1.400 mm	1.200 mm	1.400 mm	1.400 mm	1.200 mm	1.000 mm	1.000 mm	1.100 mm
Max Sash Weight	200 kg	200 kg	130 kg	150 kg	200 kg	130 kg	150 kg	130 kg	100 kg	80 kg
Max Glass Thickness	83 mm	70 mm	46 ṡ 32 mm	56 mm	60 mm	46 ṡ 41 ṡ 28 mm	46 mm	46 mm	24 mm	40 mm

The Performance

DESIGN	W89 PHI ²	ICONIC W77 AI ²	ICONIC W77BS AI ²	ICONIC W77ST AI ²	ESSENCE W67 HI ²	ESSENCE W67BS HI ²	ESSENCE W67ST HI ²	W59 SI ²	W60BS SI ²	ELVIAL W54 NI	
Thermal Insulation Uf	EN ISO 10077-2	≥ 0.62 W/m ² K	≥ 0.74 W/m ² K	≥ 1.0 W/m ² K	≥ 1.2 W/m ² K	≥ 1.1 W/m ² K	≥ 1.2 W/m ² K	≥ 1.4 W/m ² K	≥ 1.8 W/m ² K	≥ 2.5 W/m ² K	-
Air Permeability	EN 12207	Class 4	Class 4	Class 4	Class 4	Class 4	Class 4	Class 4	Class 4	Class 4	Class 4
Watertightness	EN 12208	E1050	E1200	E1050	9A	E1050	E1050	E900	E1650	E1050	3A
Resistance to Wind Load	EN 12210	C4 / B4	C5 / B5	C5 / B5	C4 / B4	C5 / B5	C5 / B5	C5 / B5	C5 / B5	C5 / B5	C4
Sound Reduction	EN 10140-2	-	50 dB	-	-	40 dB	38 dB	-	40 dB	-	36 dB
Operating Forces	EN 13115	-	-	-	-	Class 1	-	-	-	-	-
Mechanical Properties	EN 13115	-	-	-	-	Class 2	-	-	-	-	-

The Typologies

INWARD OPENING CONSTRUCTIONS		W89 PHI ²	ICONIC W77 AI ²	ICONIC W77BS AI ²	ICONIC W77ST AI ²	ESSENCE W67 HI ²	ESSENCE W67BS HI ²	ESSENCE W67ST HI ²	W59 SI ²	W60BS SI ²	ELVIAL W54 NI
	Single sash fixed	●	●	●	●	●	●	●	●	●	●
	Single sash fixed with skylight	●	●	●	●	●	●	●	●	●	●
	Single sash opening	●	●	●	●	●	●	●	●	●	●
	Single sash tilt & turn	●	●	●	●	●	●	●	●	●	●
	Double sash fixed	●	●	●	●	●	●	●	●	●	●
	Double sash opening	●	●	●	●	●	●	●	●	●	●
	Double sash tilt & turn	●	●	●	●	●	●	●	●	●	●
	Single sash tilt & turn with fixed part	●	●	●	●	●	●	●	●	●	●
	Single sash tilt & turn with fixed parts using contractions and expansions	●	●	●	○	●	●	○	●	○	○
	Double sash angular fixed	○	○	○	○	○	○	○	●	○	●
	Double sash angular tilt & turn	○	○	○	○	○	○	○	●	○	●
	Single sash pivot with vertical and horizontal axis	○	○	○	○	○	○	○	●	○	○
OUTWARD OPENING CONSTRUCTIONS											
	Single sash opening window door	○	●	○	●	●	○	●	●	○	●
	Double sash opening window door	○	●	○	●	●	○	●	●	○	●
	Single sash opening window door with fixed part	○	●	○	●	●	○	●	●	○	●
	Single sash projected	●	●	○	●	●	○	●	●	○	●
	Special typology window wall	●	●	●	●	●	●	●	●	○	●
	Double sash angular opening	○	○	○	○	○	○	○	●	○	●





MINIMAL LOOK SL68 AI²

In MINIMAL Look SL68 AI², we have challenged all that was commonly known in typical sliding systems. The goal was: to obtain a minimal design, with excellent everyday function, even at large dimensions, offering a pleasing experience and comfort for ALL home owners or building investors. Pure lines, a discreet but powerful outline around the window of only 35mm and an Avant-Garde Technology, are all combined in the MINIMAL Look SL68 AI² system.







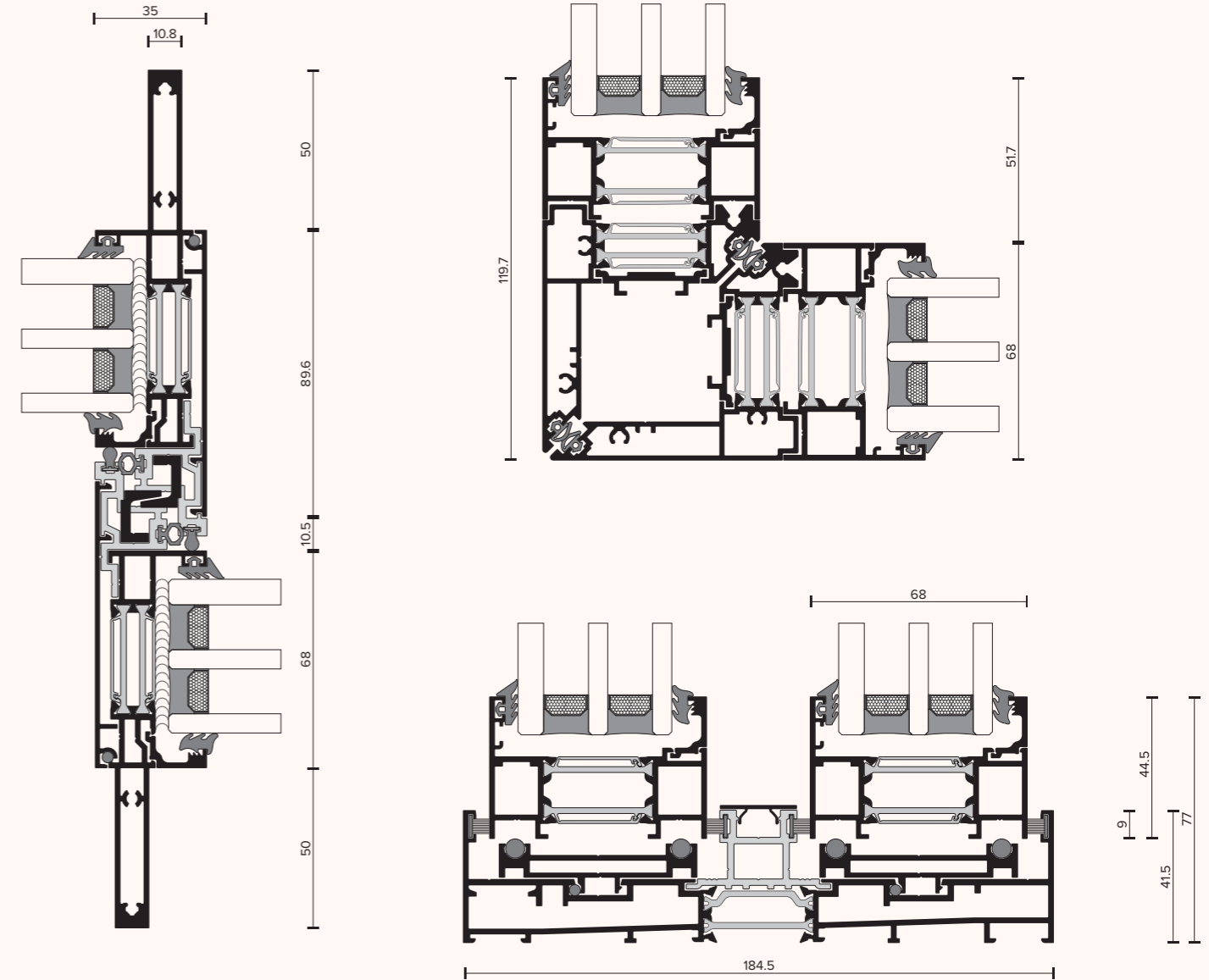
The Identity

DESIGN

 Sash Depth		68 mm
 Visible Height		77 mm
	[infloor edition]	35.5 mm
 Middle Mullion Width	Successive	35 mm
 Meeting Stile Construction Width	Meeting Stile	109 mm

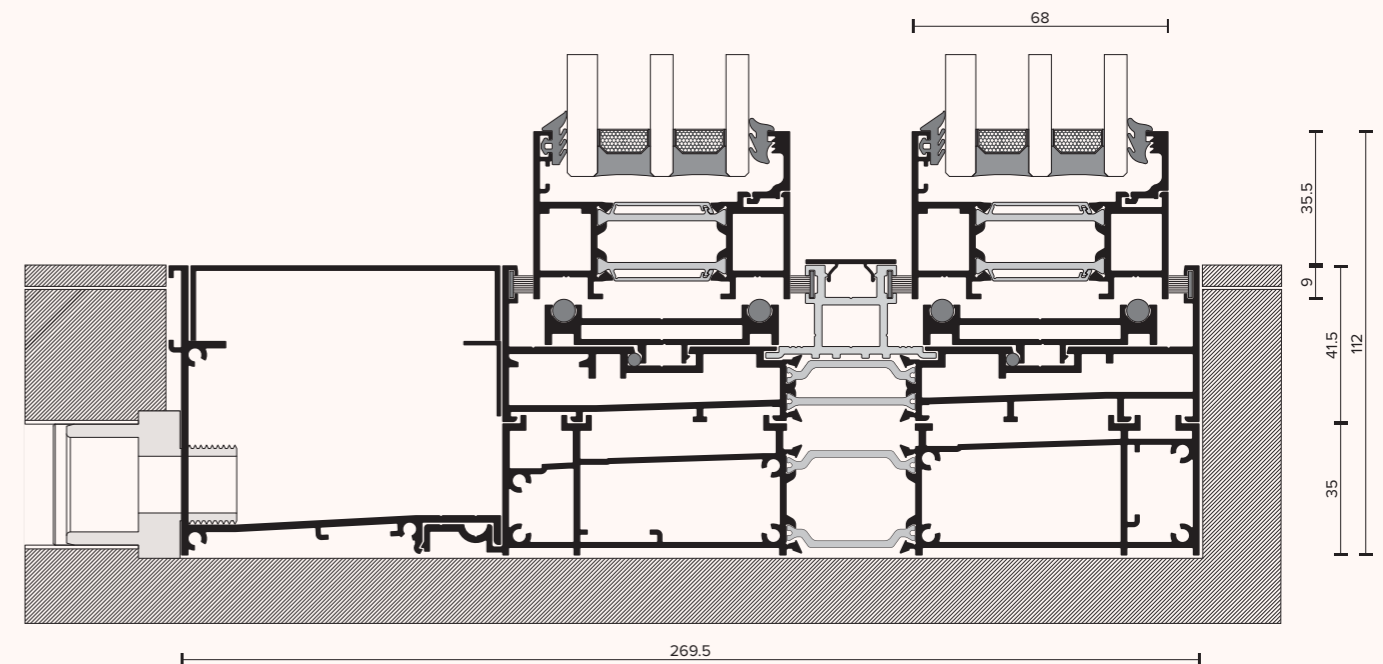
PROPERTIES

 Max Sash Height		3.500 mm
 Max Sash Width		3.000 mm
 Max Sash Weight		400 kg
 Max Glass Thickness		48 mm



The Performance

CHARACTERISTIC	STANDARD	VALUE
ENERGY		
Thermal Insulation U _f	EN ISO 10077-2	≥ 3.1 W/m²K







MINIMAL LOOK SL52 HI²

This edition of the Minimal Look, with a 32mm glazing, is designed and developed for buildings accommodated in friendlier weather and moderate climate. It's durability and performance are once more superior.







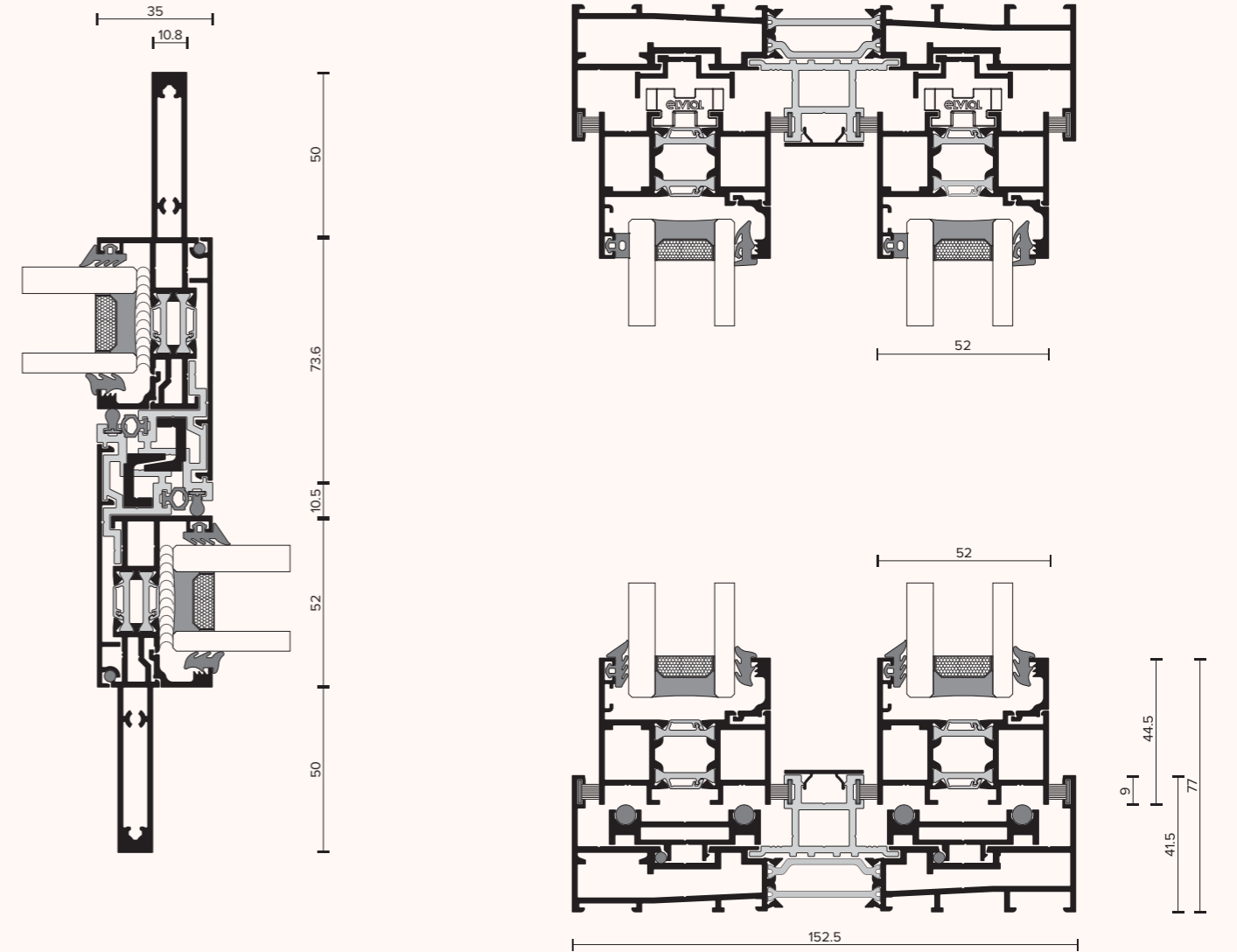
The Identity

DESIGN

 Sash Depth		52 mm
 Visible Height		77 mm
	[infloor edition]	35.5 mm
 Middle Mullion Width	Successive	35 mm
 Meeting Stile Construction Width	Meeting Stile	109 mm

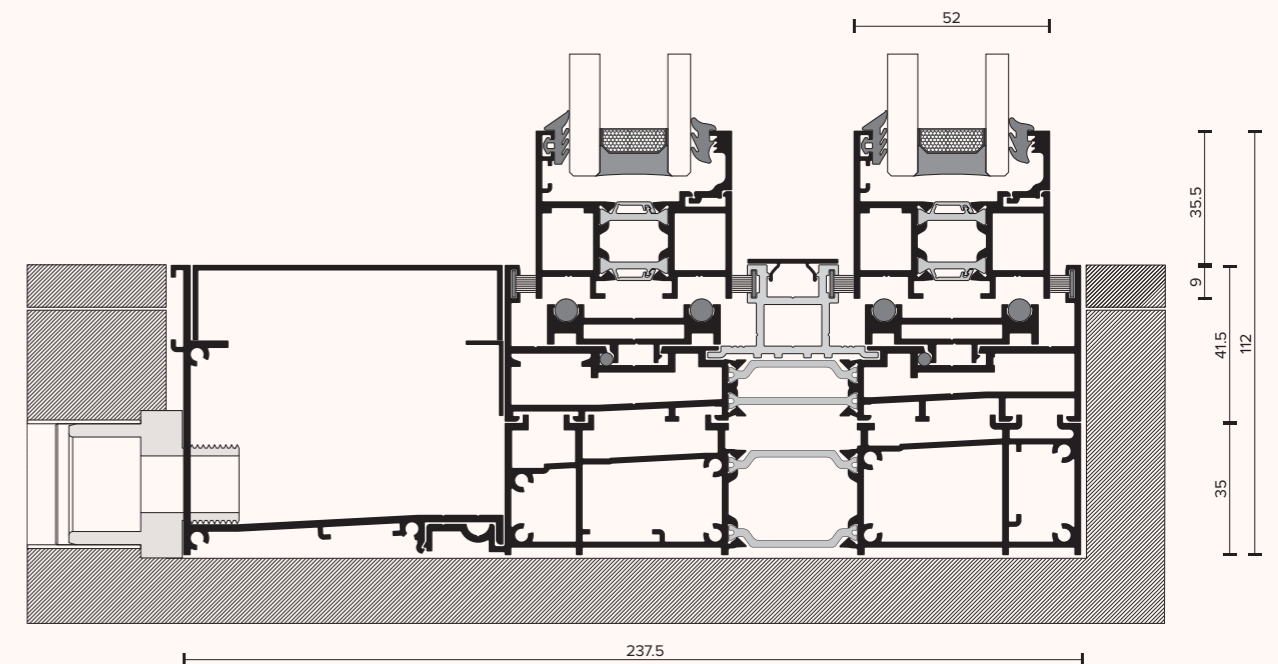
PROPERTIES

 Max Sash Height		3.500 mm
 Max Sash Width		3.000 mm
 Max Sash Weight		400 kg
 Max Glass Thickness		32 mm



The Performance

CHARACTERISTIC	STANDARD	VALUE
ENERGY		
Thermal Insulation Uf	EN ISO 10077-2	≥ 3.4 W/m²K
COMFORT		
Air Permeability	EN 12207	Class 4 [600Pa]
Watertightness	EN 12208	7A [300Pa]
Resistance to Wind Load	EN 12210	C3 / B3 [1.200Pa]



MINIMAL LOOK SL52 HI

INVISIBLE INSIDE-OUT

The ultimate rendition of elegance is invisibility... staying in somebody's memory without catching their eye. This motto inspired the MINIMAL Look SL52. Our relentless attention to detail turned the inspiration into reality. The bottom frame is practically hidden in the floor, creating a surface as smooth as the glass it hems at the exterior. At the same time the system blends harmoniously with the interior. This is invisibility; according to ELVIAL.






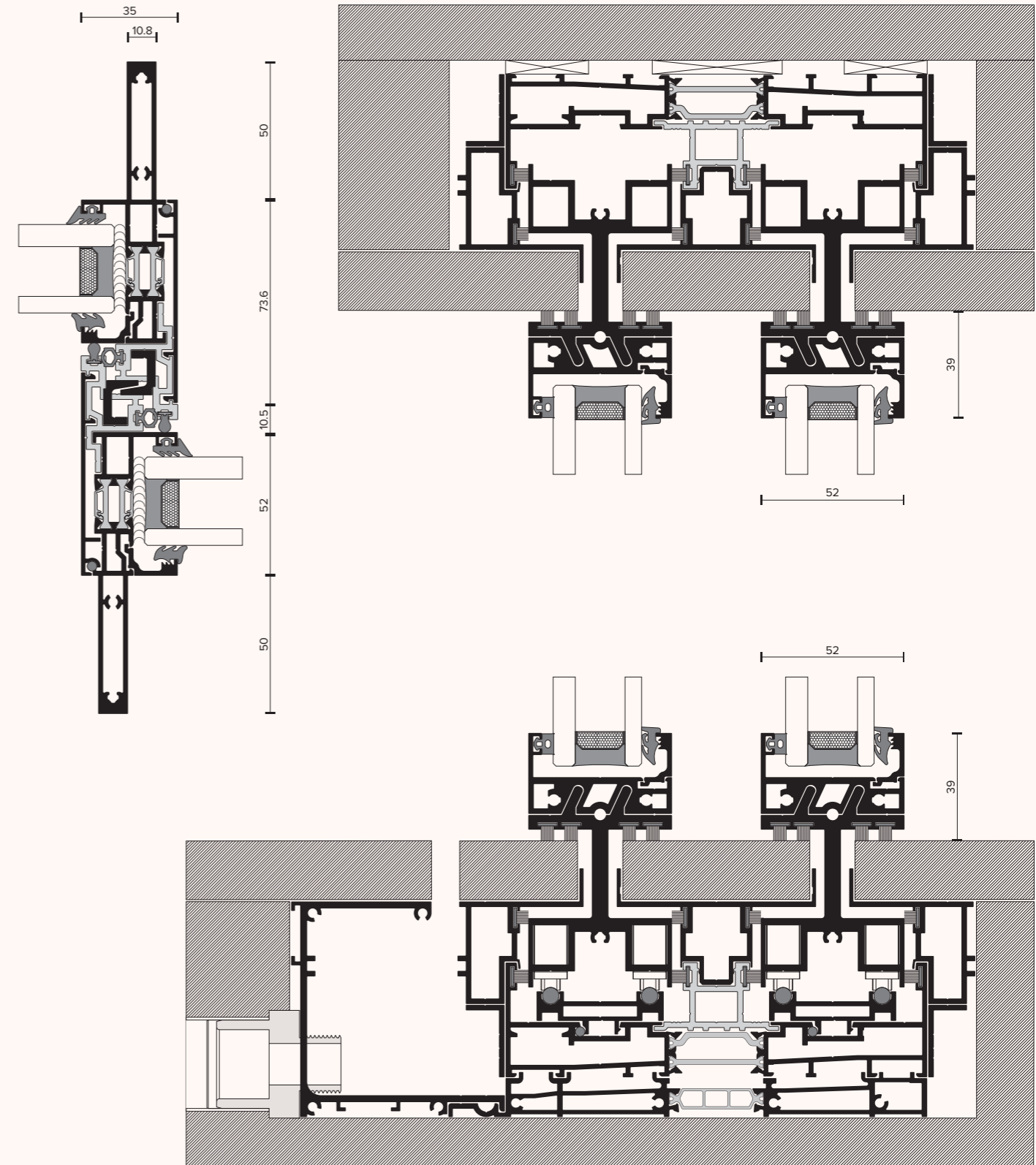
The Identity

DESIGN

 Sash Depth		52 mm
 Visible Height		39 mm
 Middle Mullion Width	Successive	35 mm
 Meeting Stile Construction Width	Meeting Stile	109 mm

PROPERTIES

 Max Sash Height		3.000 mm
 Max Sash Width		3.000 mm
 Max Sash Weight		300 kg
 Max Glass Thickness		32 mm



The Performance

CHARACTERISTIC	STANDARD	VALUE
ENERGY		
Thermal Insulation Uf	EN ISO 10077-2	≥ 3.4 W/m²K
COMFORT		
Air Permeability	EN 12207	Class 4 [600Pa]
Watertightness	EN 12208	7A [300Pa]
Resistance to Wind Load	EN 12210	C3 / B3 [1.200Pa]

ESSENCE SL60 HI²

Design is only the beginning. You are looking at something beautiful. Slide or turn the handle. Enjoy the smooth movement and flawless function. Relish the abundance of light and comfortable space. A great frame for an enchanting image. When creating the scenery for living, the aluminium system is of essence. Choose ESSENCE SL60 HI², one of our best solutions for any kind of building project.




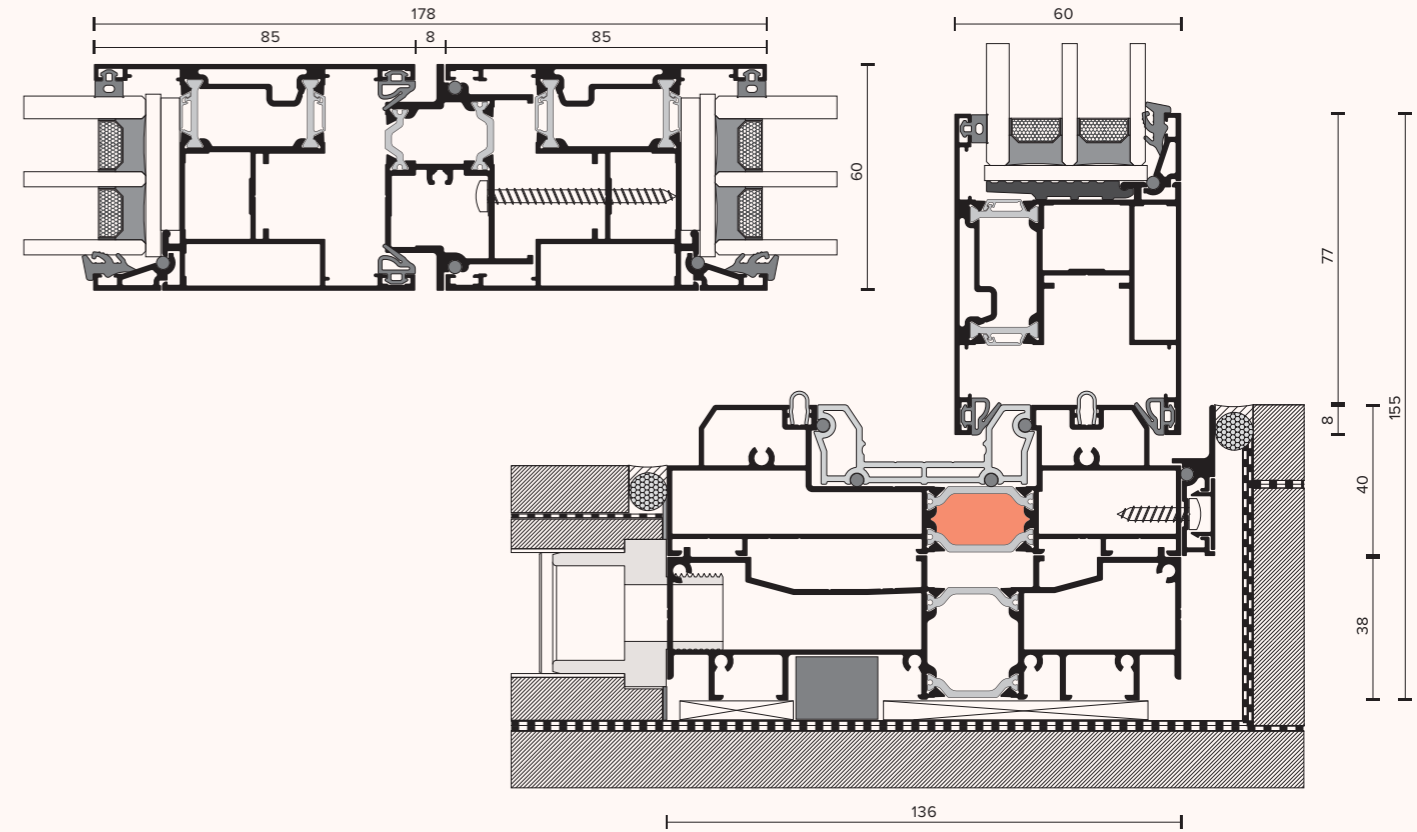
The Identity

DESIGN

 Sash Depth			60 mm
 Visible Height		[sash 95 mm]	127 mm
		[sash 85 mm]	117 mm
		[sash 43.5 mm]	48 mm
 Middle Mullion Width	Successive	[sash 95 mm]	105 mm
		[sash 85 mm]	95 mm
		[sash 43.5 mm]	48 mm
 Meeting Stile Construction Width	Meeting Stile	[sash 95 mm]	198 mm
		[sash 85 mm]	178 mm

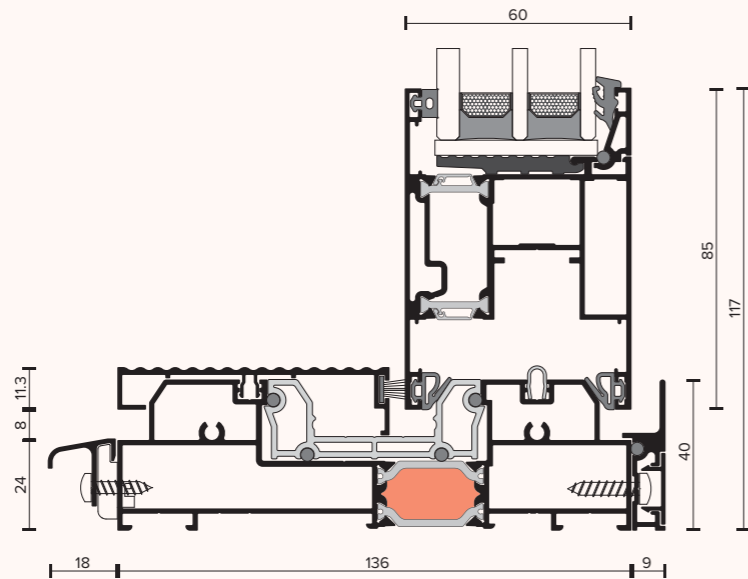
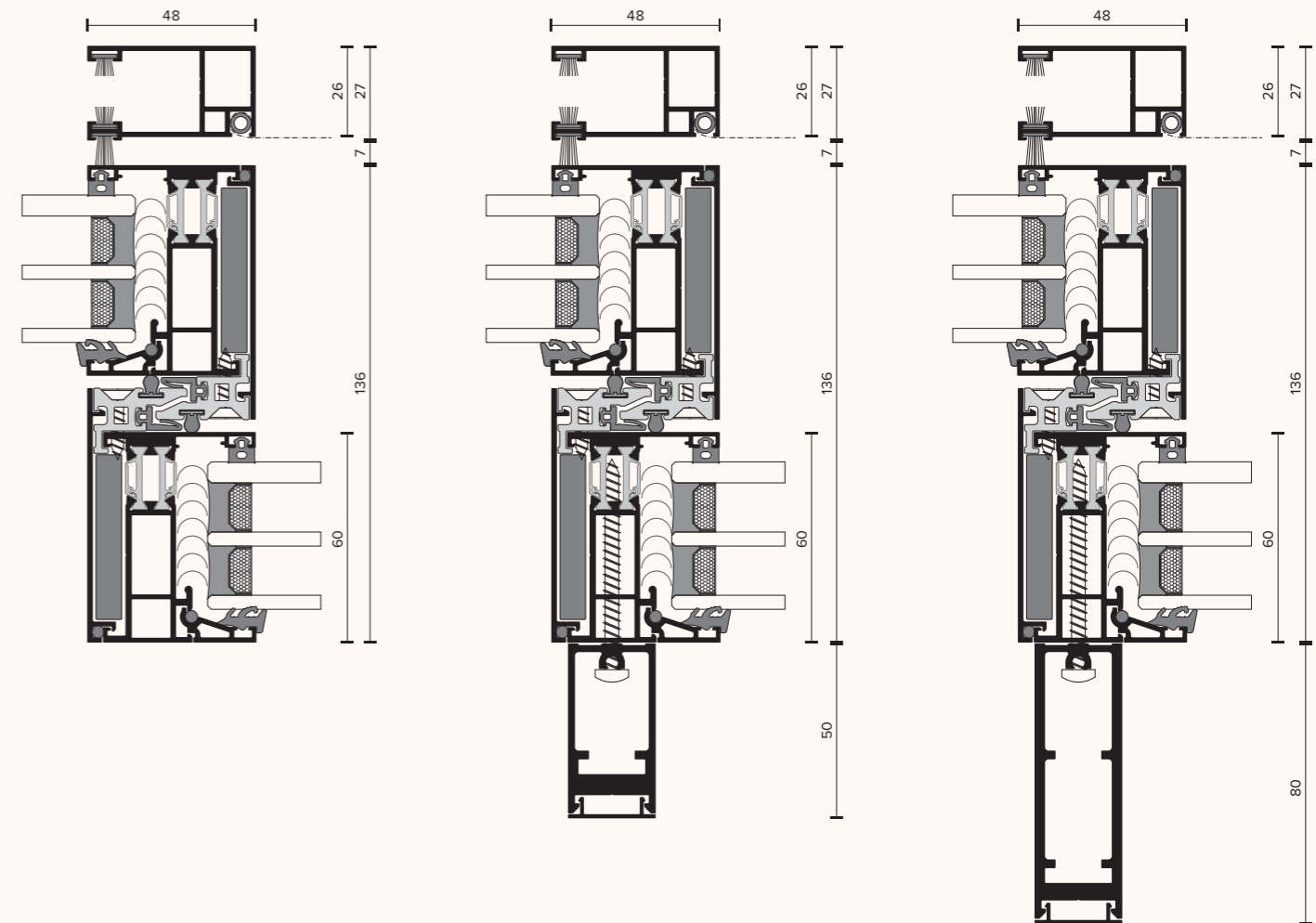
PROPERTIES

 Max Sash Height	3.500 mm
 Max Sash Width	3.000 mm
 Max Sash Weight	440 kg
 Max Glass Thickness	46 mm



The Performance

CHARACTERISTIC	STANDARD	VALUE
ENERGY		
Thermal Insulation Uf	EN ISO 10077-2	≥ 2.7 W/m²K
COMFORT		
Air Permeability	EN 12207	Class 4 [600Pa]
Watertightness	EN 12208	9A [600Pa]
Resistance to Wind Load	EN 12210	C5/B5 [2.000Pa]
Operating Forces	EN 13115	Class 2
Mechanical Properties	EN 13115	Class 3



ESSENCE SL60 HI² FLAT EDITON

Limits are ever-expanding and you need an aluminium solution that will allow you to create the limit. This is the ESSENCE SL60 HI² FLAT EDITION. The track of 25mm and 29mm outer and inner width respectively, can be concealed on the floor or wall.

The system's performance? No less stunning.



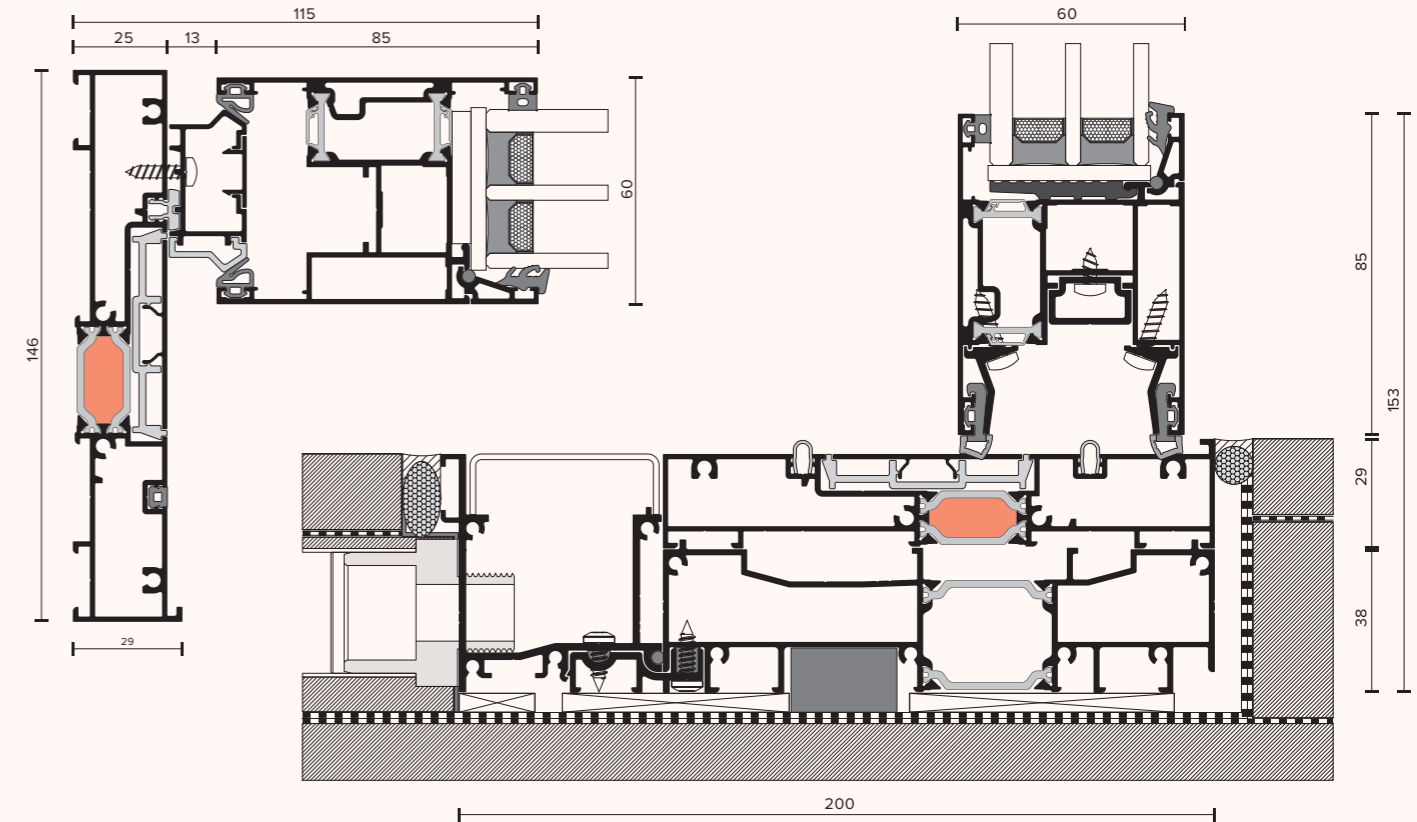
The Identity

DESIGN

	Sash Depth		60 mm
	Visible Height	[sash 95 mm]	125 mm
		[sash 85 mm]	115 mm
	Middle Mullion Width	Successive	[sash 95 mm] 105 mm
			[sash 85 mm] 95 mm
			[sash 43.5 mm] 48 mm
	Meeting Stile Construction Width	Meeting Stile	[sash 95 mm] 198 mm
			[sash 85 mm] 178 mm

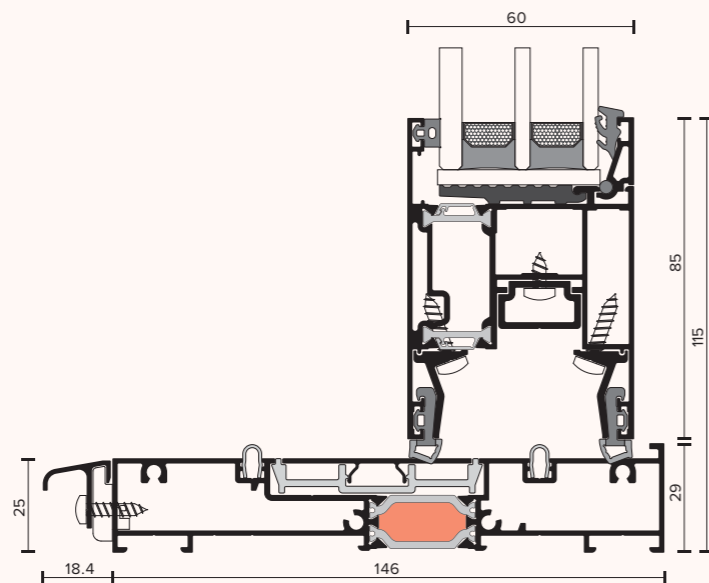
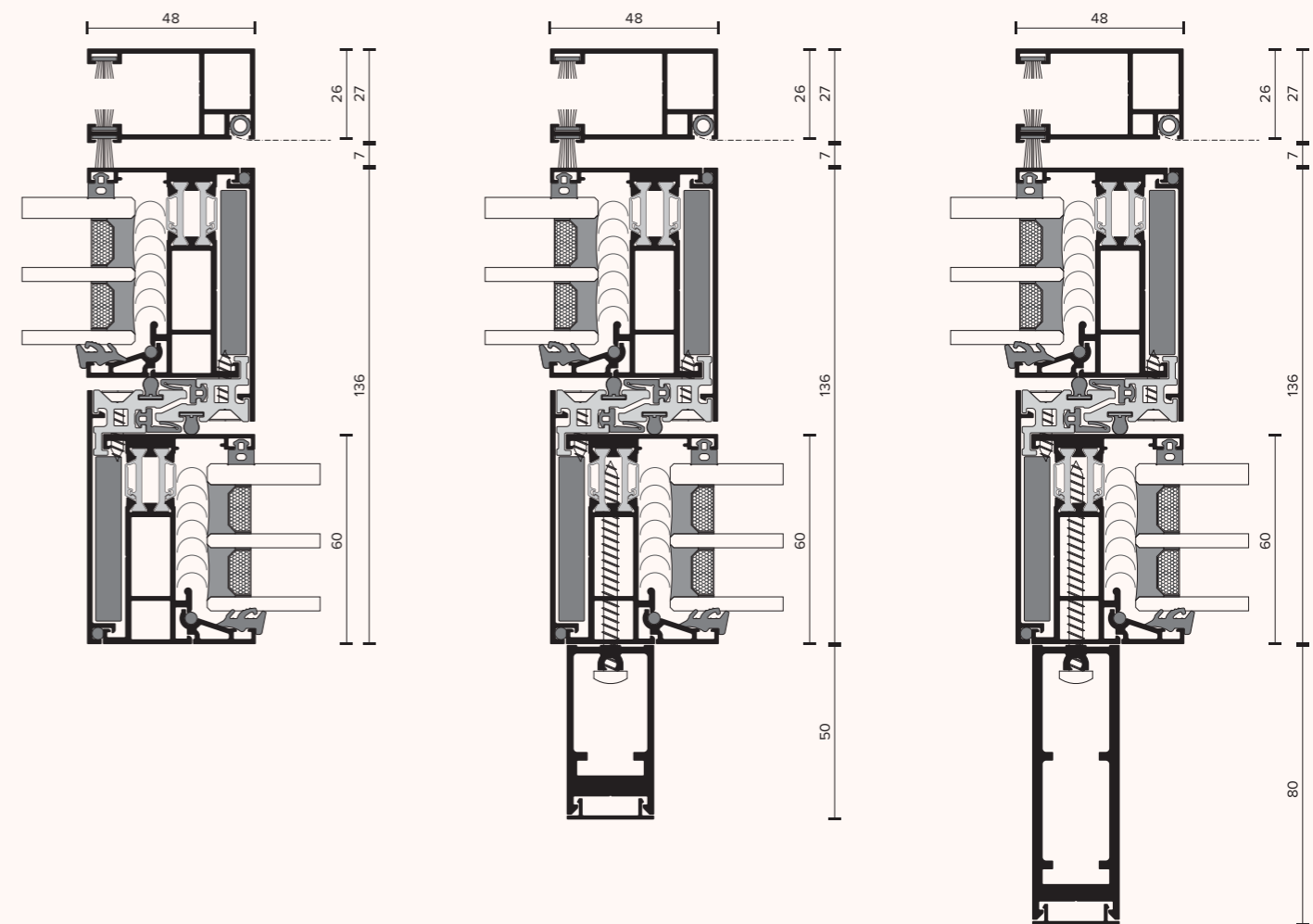
PROPERTIES

	Max Sash Height	3.500 mm
	Max Sash Width	3.000 mm
	Max Sash Weight	440 kg
	Max Glass Thickness	46 mm



The Performance

CHARACTERISTIC	STANDARD	VALUE
ENERGY		
Thermal Insulation Uf	EN ISO 10077-2	≥ 2.8 W/m²K
COMFORT		
Air Permeability	EN 12207	Class 4 [600Pa]
Watertightness	EN 12208	7A [300Pa]
Resistance to Wind Load	EN 12210	B3 [1.200Pa]




ELVIAL SL60 HI² CLASSIC

We have created a new aluminium system that will broaden your choices. It is a result of our commitment to always make the spaces of large openings and the abundant influx of light more functional and congenial. The SL60 HI² CLASSIC in its sliding and lift and slide editions is the updated proposition that causes a sensation with its fresh design and great technologies.







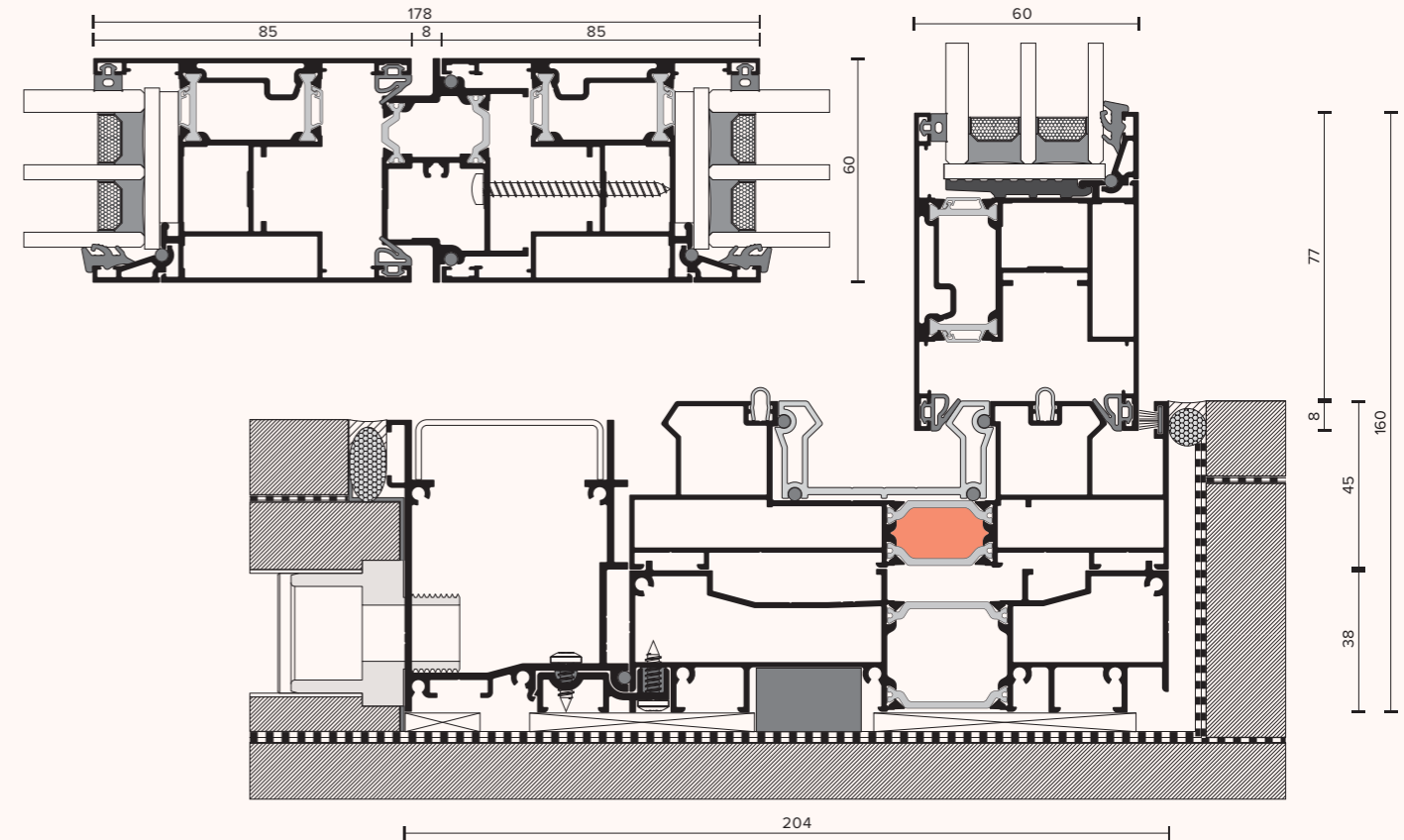
The Identity

DESIGN

	Sash Depth		60 mm
	Visible Height	[sash 95 mm]	132 mm
		[sash 85 mm]	122 mm
	Middle Mullion Width	Successive	[sash 95 mm] 105 mm
			[sash 85 mm] 95 mm
			[sash 43.5 mm] 48 mm
	Meeting Stile Construction Width	Meeting Stile	[sash 95 mm] 198 mm
			[sash 85 mm] 178 mm
	Middle Mullion Width	Fixed T	[sash 85 mm] 95 mm

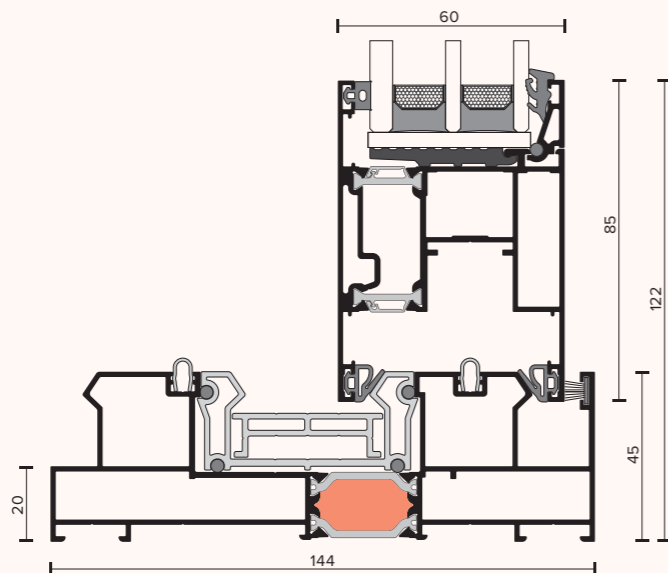
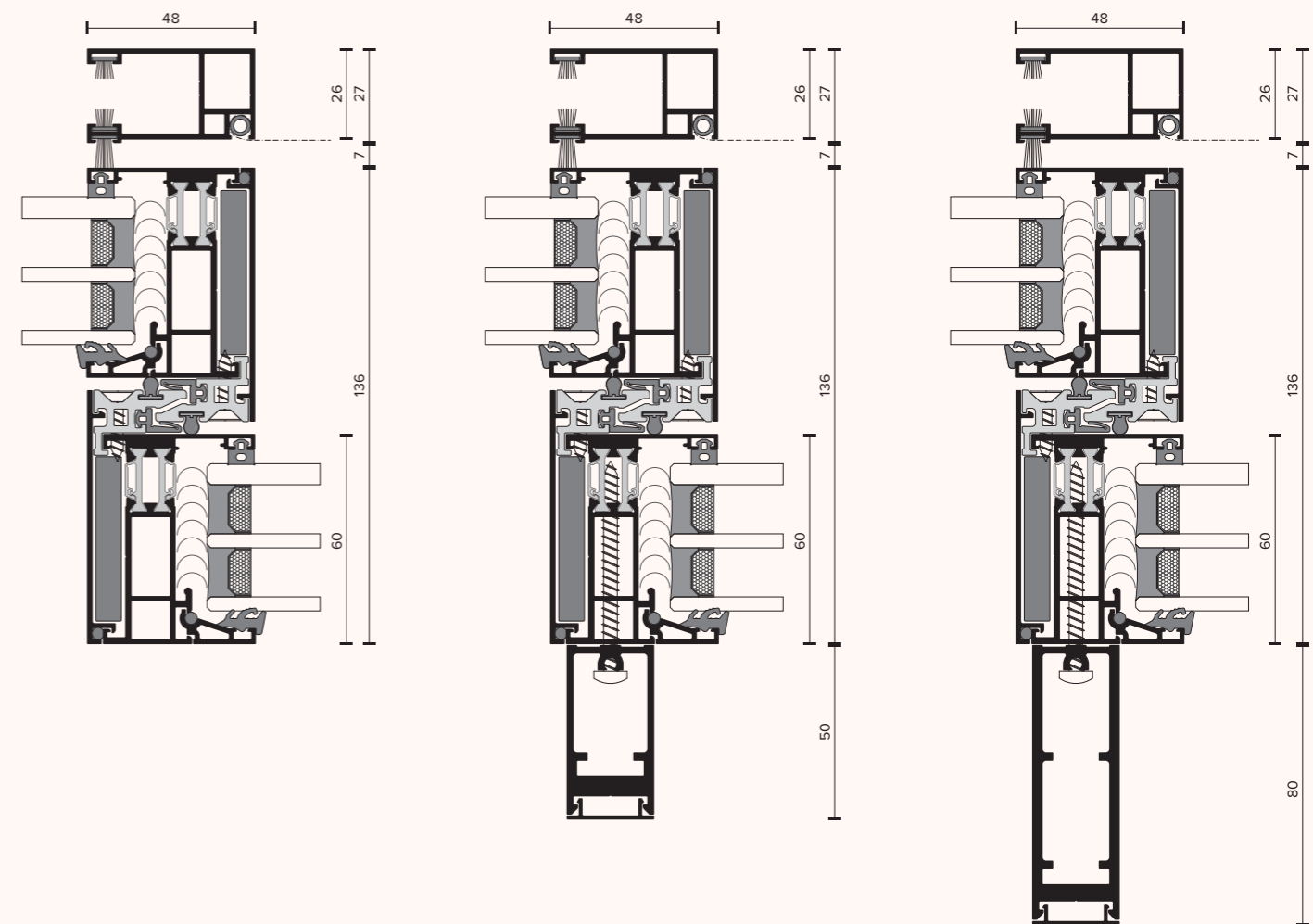
PROPERTIES

	Max Sash Height	3.500 mm
	Max Sash Width	3.000 mm
	Max Sash Weight	440 kg
	Max Glass Thickness	46 mm



The Performance

CHARACTERISTIC	STANDARD	VALUE
ENERGY		
Thermal Insulation Uf	EN ISO 10077-2	≥ 2.8 W/m²K
COMFORT		
Air Permeability	EN 12207	Class 4 [600Pa]
Watertightness	EN 12208	E1200 [1.200Pa]
Resistance to Wind Load	EN 12210	C2/B3 [1.200Pa]
Sound Reduction	EN 14351-1	45 dB <small>Glazing 68.2/20/55.2</small>
Operating Forces	EN 13115	Class 1







ESSENCE SL50 HI² FLAT EDITION

One more edition of aesthetic excellence and functional performance by ELVIAL does not come as a surprise. ESSENCE SL50 HI² FLAT EDITION with a 25mm external and 29mm internal track and a built-in alternative will perfectly frame the limit of a comfortable interior and will provide both unlimited view to the exterior and access between the two. The system is available in numerous typologies and meets rigorous architectural requirements. At ELVIAL, we are constantly updating and expanding our portfolio of solutions, so your choices are ever-expanding.







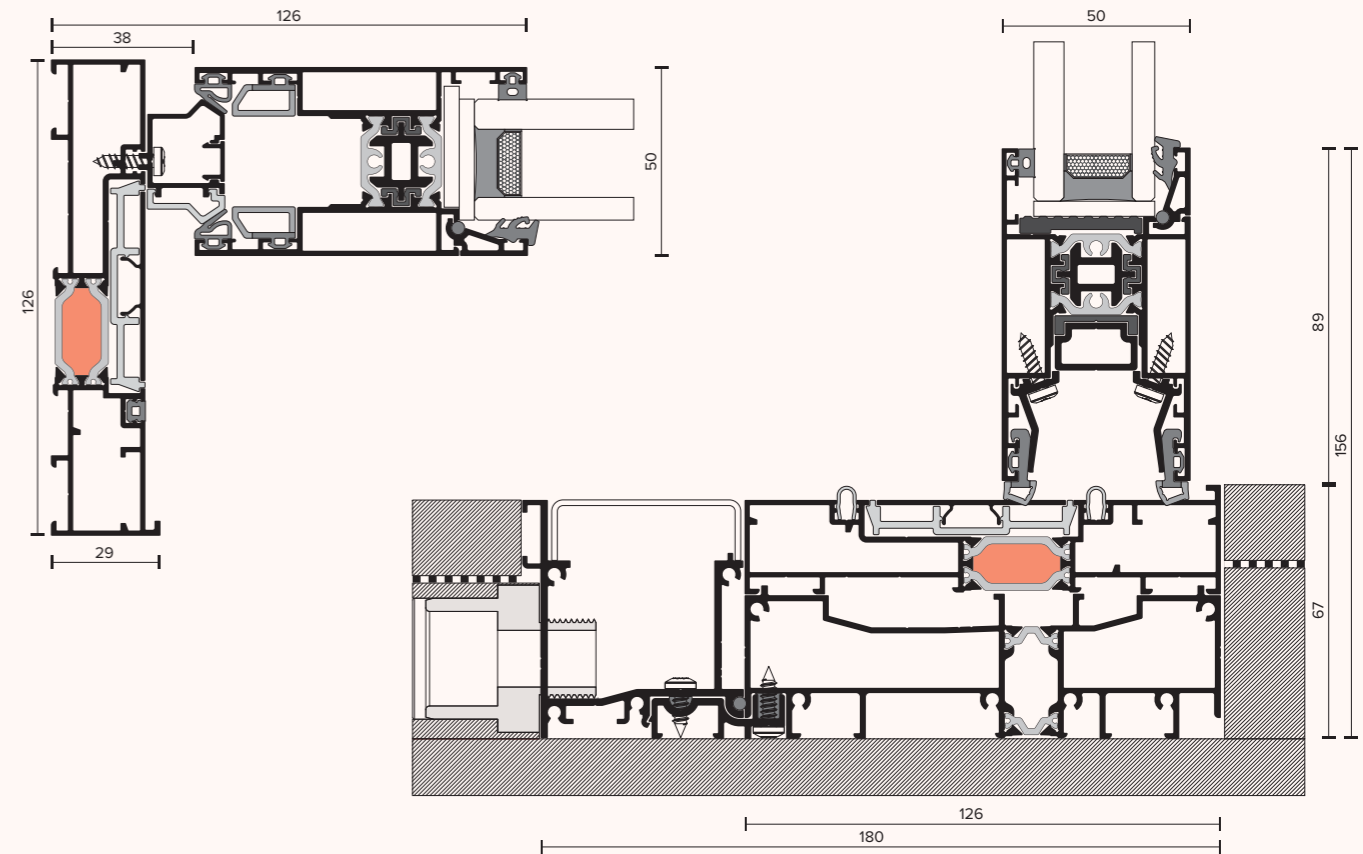
The Identity

DESIGN

	Sash Depth		50 mm
	Visible Height		118 mm
	Middle Mullion Width	Successive	[sash 88 mm] 98 mm
			[sash 43.5 mm] 48 mm
			[sash 25 mm] 25 mm
	Meeting Stile Construction Width	Meeting Stile	184 mm

PROPERTIES

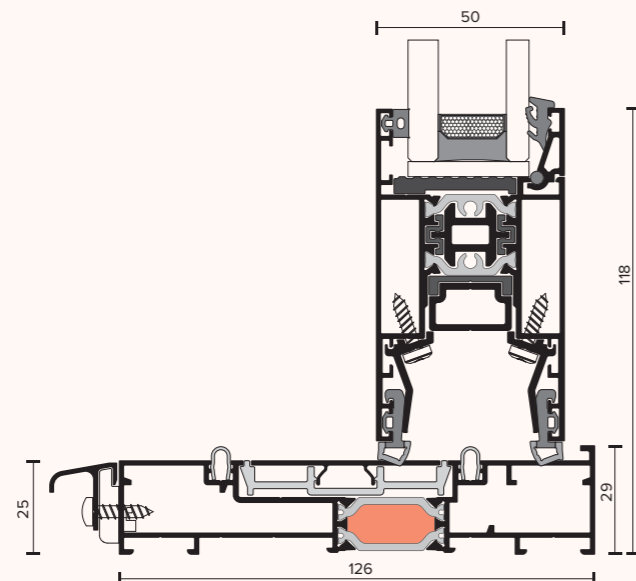
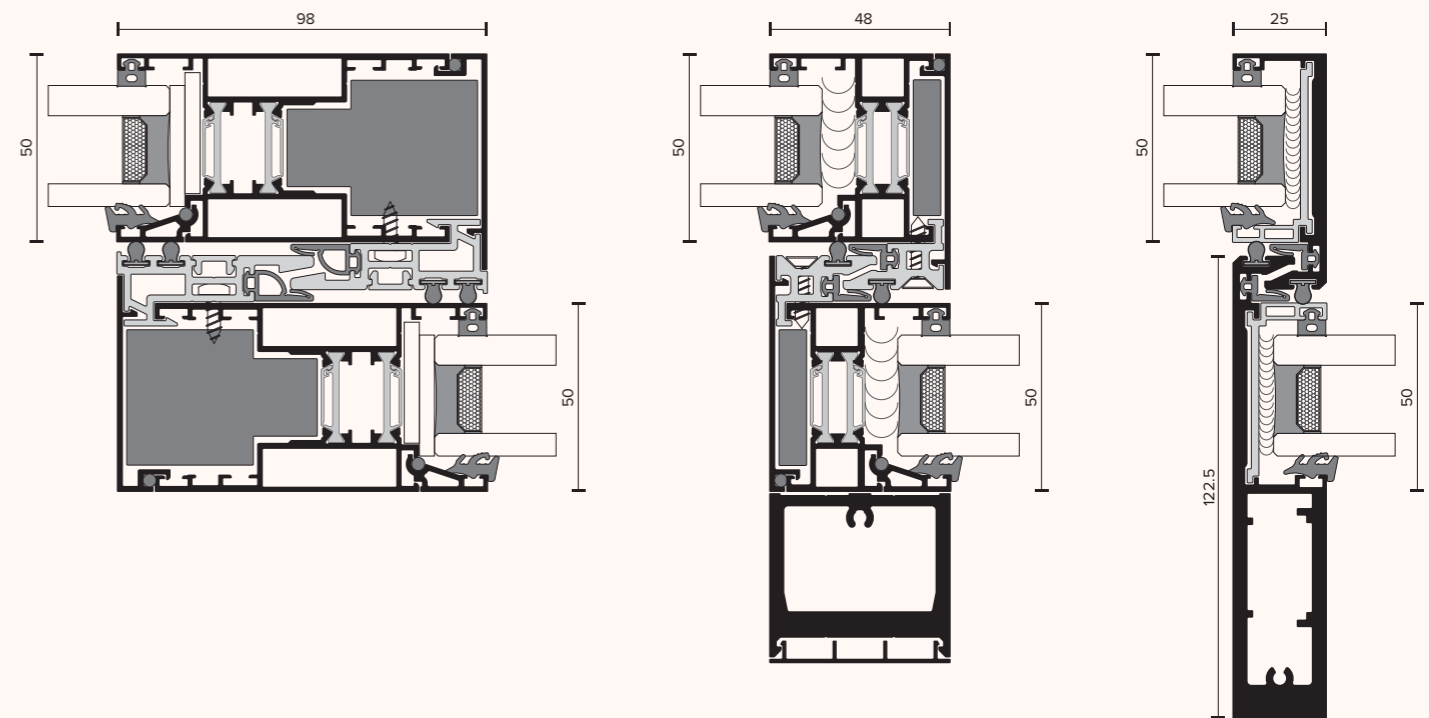
	Max Sash Height		3.500 mm
	Max Sash Width		3.000 mm
	Max Sash Weight		400 kg
	Max Glass Thickness	[mullion width 98 mm & 48 mm]	36 mm
		[mullion width 25 mm]	34 mm



The Performance

CHARACTERISTIC	STANDARD	VALUE
ENERGY		
Thermal Insulation Uf	EN ISO 10077-2	≥ 2.32 W/m²K

COMFORT	STANDARD	VALUE
Air Permeability	EN 12207	Class 4 [600Pa]
Watertightness	EN 12208	E900 [900Pa]
Resistance to Wind Load	EN 12210	B2 [800Pa]
Sound Reduction	EN 14351-1	44 dB <small>Glazing 44.2/15/66.2</small>
Operating Forces	EN 13115	Class 1



ELVIAL SL50 HI² CLASSIC

With a 25mm mullion width option, linear design, and typologies that meet every architectural demand, it represents a durable and aesthetically pleasing solution for high-end spaces. SL50 HI² CLASSIC is the ideal lift and slide and sliding solution for maximum openings, maximum natural light, and absolute construction superiority.







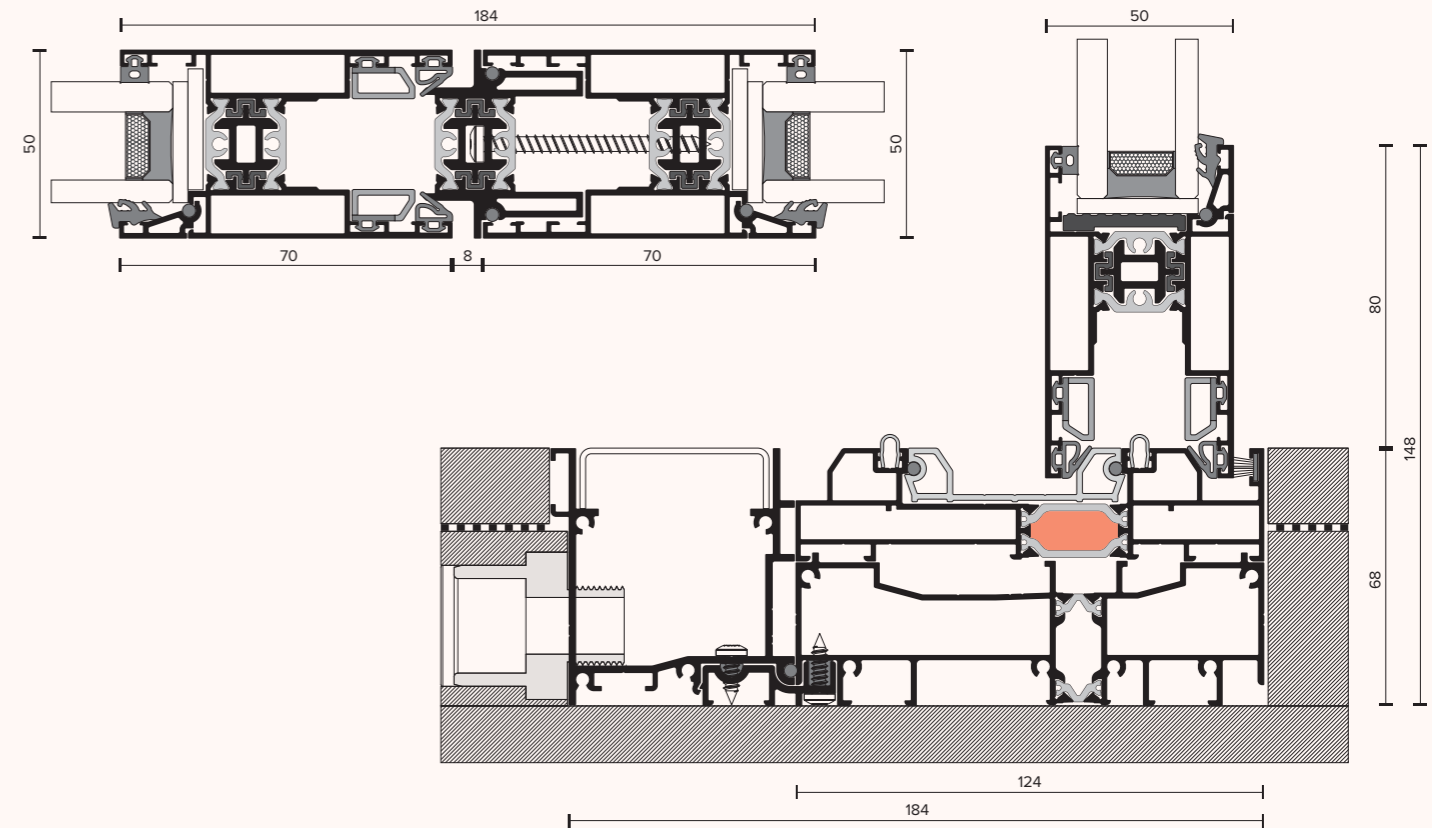
The Identity

DESIGN

	Sash Depth		50 mm
	Visible Height	[sash 88 mm]	125 110 mm
		[sash 72 mm]	109 94 mm
	Middle Mullion Width	Successive	[sash 88 mm] 98 mm
			[sash 43.5 mm] 48 mm
			[sash 25 mm] 25 mm
	Meeting Stile Construction Width	Meeting Stile	[sash 88 mm] 184 mm
			[sash 72 mm] 152 mm
	Middle Mullion Width	Fixed T	[sash 88 mm] 98 mm
			[sash 43.5 mm] 48 mm

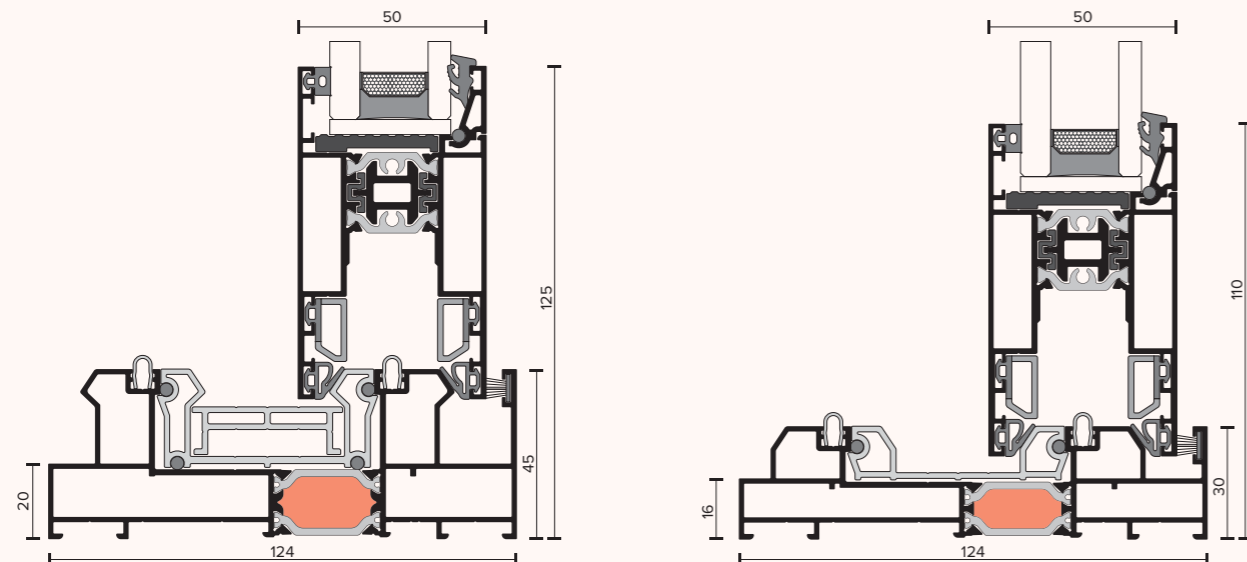
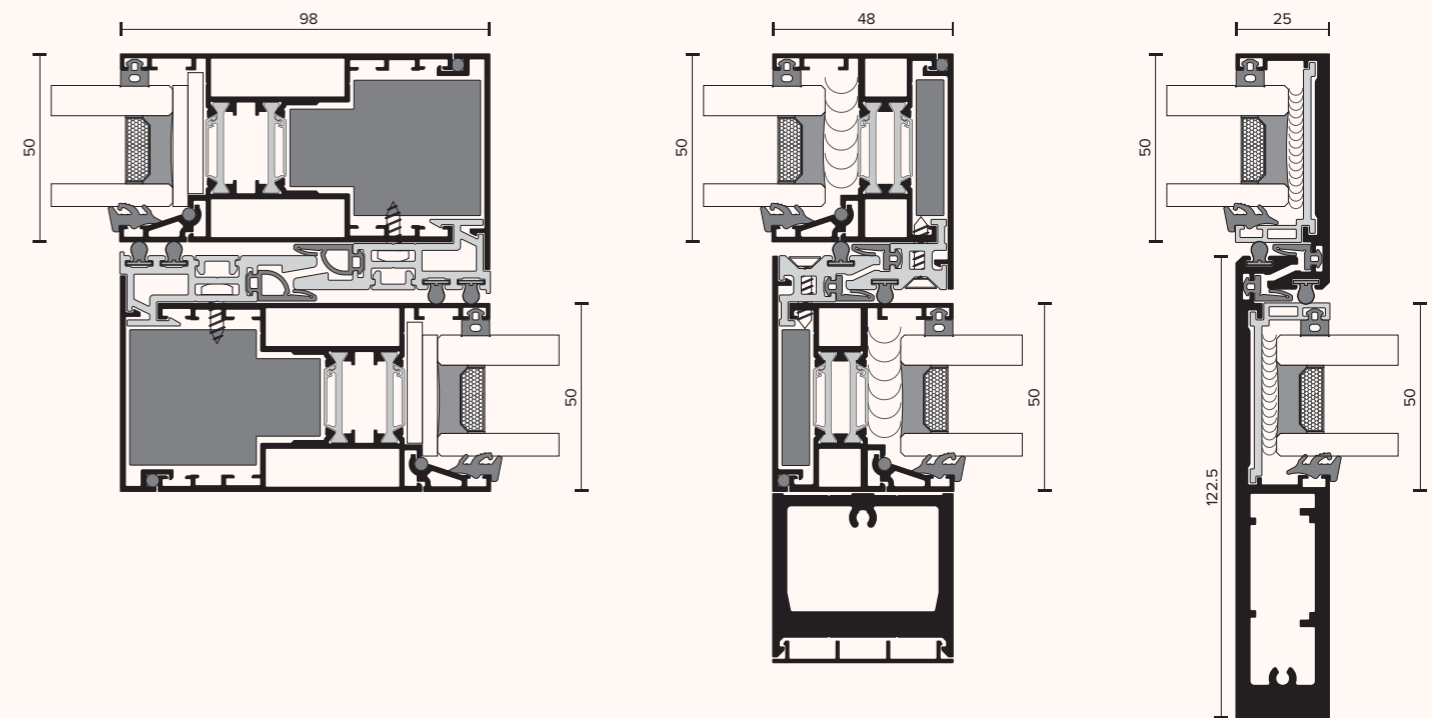
PROPERTIES

	Max Sash Height		3.500 mm
	Max Sash Width		3.000 mm
	Max Sash Weight		400 kg
	Max Glass Thickness	[mullion width 98 mm & 48 mm]	36 mm
		[mullion width 25 mm]	34 mm



The Performance

CHARACTERISTIC	STANDARD	VALUE
ENERGY		
Thermal Insulation U _f	EN ISO 10077-2	≥ 2.32 W/m²K
COMFORT		
Air Permeability	EN 12207	Class 4 [600Pa]
Watertightness	EN 12208	E900 [900Pa]
Resistance to Wind Load	EN 12210	B2 [800Pa]
Sound Reduction	EN 14351-1	44 dB <small>Glazing 44.2/15/66.2</small>
Operating Forces	EN 13115	Class 1








ELVIAL SL46 SI² CLASSIC

SL46 SI² CLASSIC is one of ELVIAL's best-selling aluminium profile solutions. It comes in both lift and slide and sliding editions and responds to various design requirements. Being versatile and aesthetically balanced, it has been integrated into numerous high-profile and private residence projects. The system's sash width is only 46mm making it a beautiful and highly functional option for your own project.







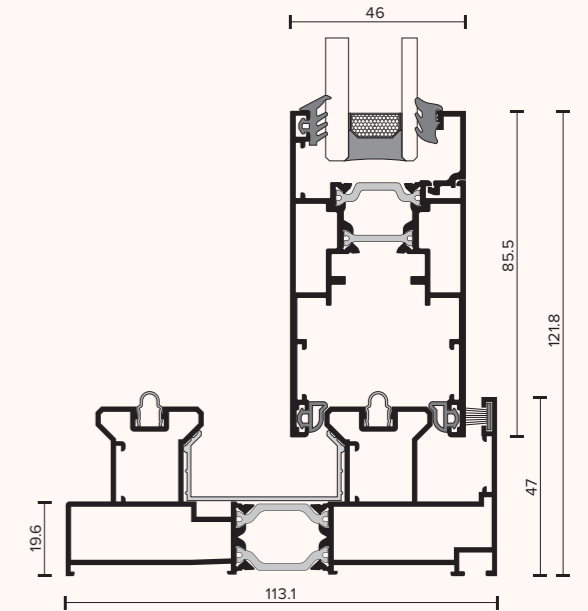
The Identity

DESIGN

	Sash Depth			46 mm
	Visible Height			121.8 mm
	Middle Mullion Width	Successive	[sash 85.5 mm]	89 mm
			[sash 52.7 mm]	56 mm
	Meeting Stile Construction Width	Meeting Stile		189 mm
	Middle Mullion Width	Fixed T		56 mm

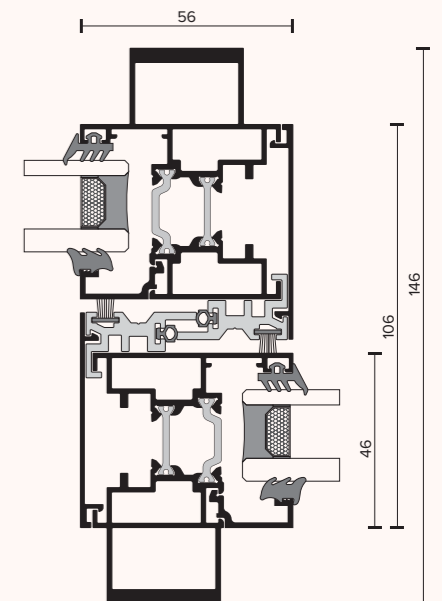
PROPERTIES

	Max Sash Height			2.800 mm
	Max Sash Width			2.000 mm
	Max Sash Weight			400 kg
	Max Glass Thickness			30 mm



The Performance

CHARACTERISTIC	STANDARD	VALUE
ENERGY		
Thermal Insulation Uf	EN ISO 10077-2	≥ 4.1 W/m²K
COMFORT		
Air Permeability	EN 12207	Class 4 [600Pa]
Watertightness	EN 12208	4A [150Pa]
Resistance to Wind Load	EN 12210	C2 / B2 [800Pa]
Sound Reduction	EN 14351-1	39 dB <small>Glazing</small> 44.2 / 12 / 44.2





ELVIAL SL46 SI² FLAT EDITION

This edition of the SL46 is another great option to consider when choosing a solid lift and slide or sliding aluminium profile. It provides reliable thermal insulation and remarkable rolling quality. The undisputable functional features are matched by a design that withstands the architectural trends and allows for the creation of spacious openings and the framing of unobstructed views.







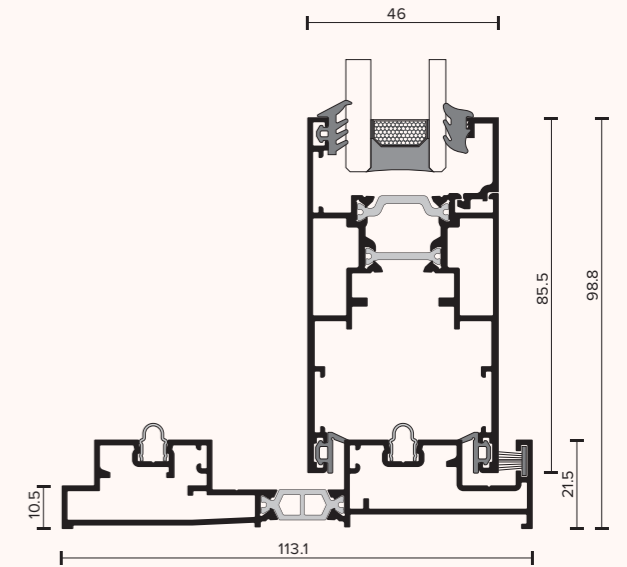
The Identity

DESIGN

	Sash Depth		46 mm
	Visible Height		98.8 mm
		[infloor edition]	77.3 mm
	Middle Mullion Width	Successive	[sash 85.5 mm] 89 mm
			[sash 52.7 mm] 56 mm
	Meeting Stile Construction Width	Meeting Stile	189 mm

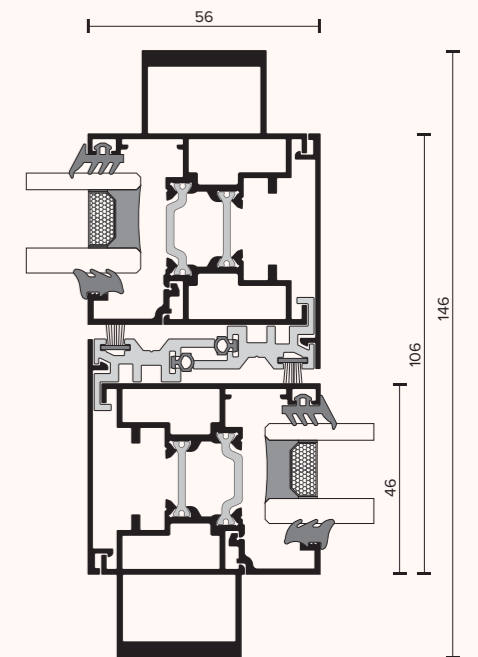
PROPERTIES

	Max Sash Height	2.800 mm
	Max Sash Width	2.000 mm
	Max Sash Weight	400 kg
	Max Glass Thickness	30 mm



The Performance

CHARACTERISTIC	STANDARD	VALUE
ENERGY		
Thermal Insulation Uf	EN ISO 10077-2	≥ 3.4 W/m²K
COMFORT		
Air Permeability	EN 12207	Class 4 [600Pa]
Watertightness	EN 12208	7A [300Pa]
Resistance to Wind Load	EN 12210	C2 / B2 [800Pa]
Sound Reduction	EN 14351-1	38 dB <small>Glazing</small> 44.2 / 10 / 44.2






ELVIAL SL46 SI²_MD

The SL46 SI²_MD appeals greatly to the more design sensitive. A sliding aluminium system equipped with special, stainless steel rollers, will prove its value over time and will also add an extra flair to the look and feel of your project.




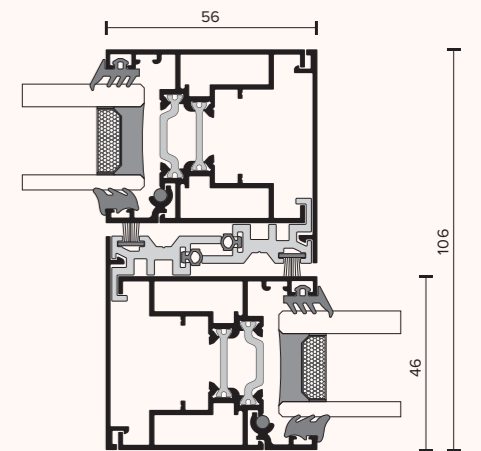
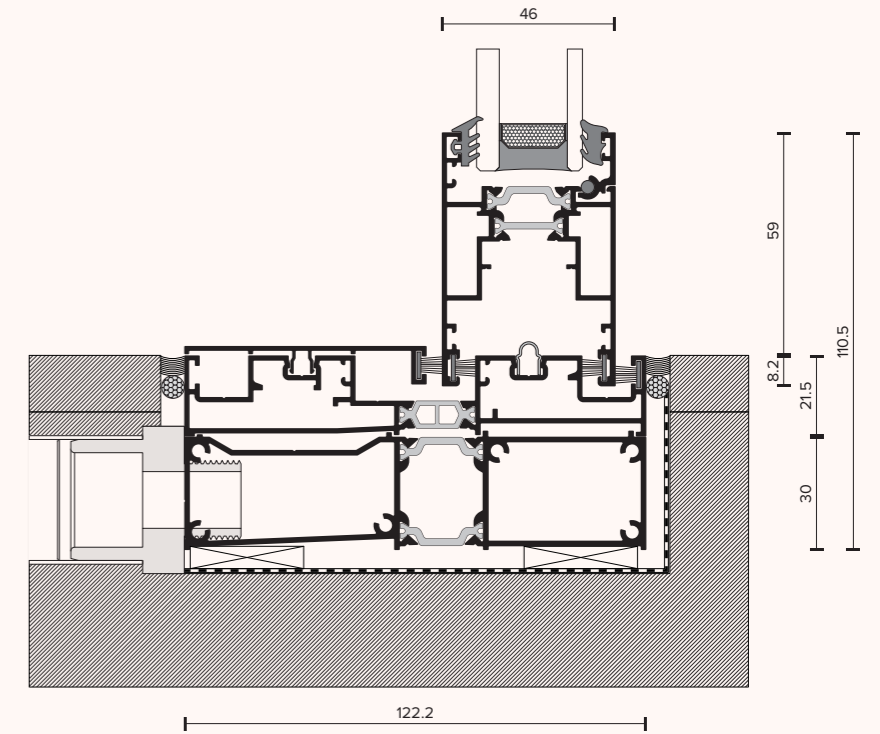
The Identity

DESIGN

	Sash Depth		46 mm
	Visible Height		80 mm
		[infloor edition]	59 mm
	Middle Mullion Width	Successive	56 mm

PROPERTIES

	Max Sash Height		2.300 mm
	Max Sash Width		1.200 mm
	Max Sash Weight		100 kg
	Max Glass Thickness		30 mm



The Performance

CHARACTERISTIC	STANDARD	VALUE
ENERGY		
Thermal Insulation Uf	EN ISO 10077-2	≥ 3.7 W/m²K

ELVIAL SL33_MD

A feeling of warmth, security and stability. One of ELVIAL most elegant aluminium solutions is now redesigned and available with upgraded features. The SL33_MD provides a full range of typologies, three variations of mullion width and special anti-distortion reinforcements. Thermal insulation and security combined with a noiseless system operation, all in a new minimal look. When requirements rise, ELVIAL is steadily ready with an answer.



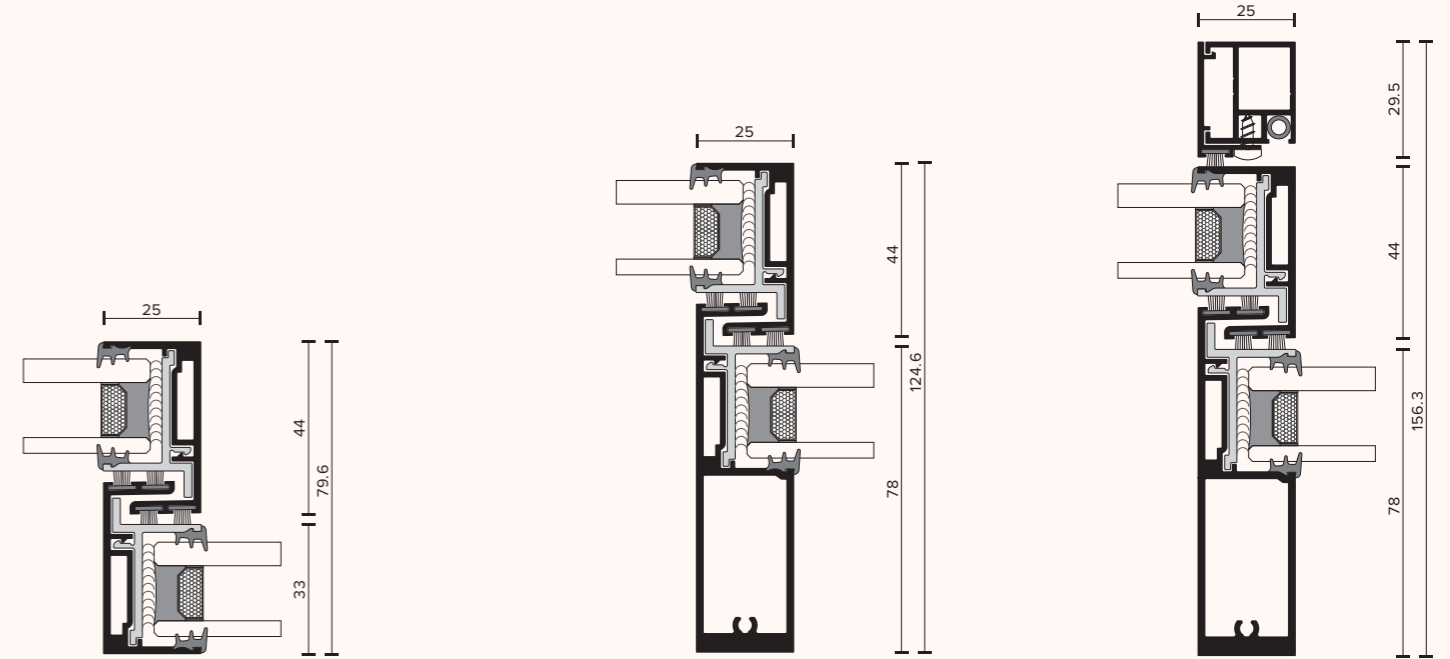
The Identity

DESIGN

	Sash Depth		33 mm
	Visible Height		87 mm
	Middle Mullion Width	Successive	[sash 88 mm] 78.5 mm
			[sash 52.7 mm] 56 mm
			[sash 25 mm] 25 mm
	Meeting Stile Construction Width	Meeting Stile	168 mm

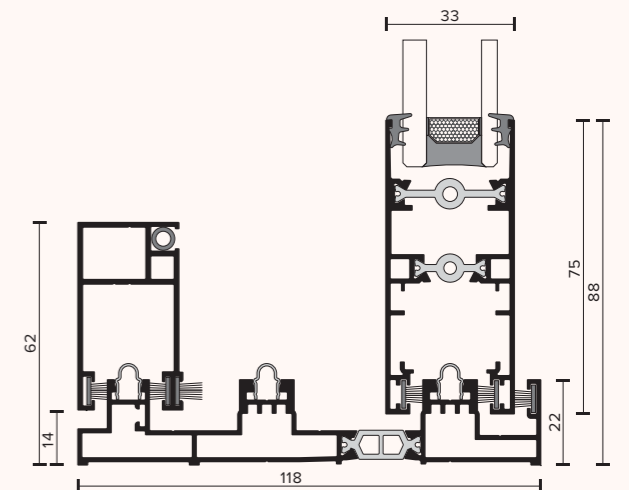
PROPERTIES

	Max Sash Height	2.300 mm
	Max Sash Width	1.200 mm
	Max Sash Weight	100 kg
	Max Glass Thickness	24 mm



The Performance

CHARACTERISTIC	STANDARD	VALUE
ENERGY		
Thermal Insulation Uf	EN ISO 10077-2	≥ 3.3 W/m²K
COMFORT		
Air Permeability	EN 12207	Class 3 [600Pa]
Watertightness	EN 12208	7A [300Pa]
Resistance to Wind Load	EN 12210	B2 [800Pa]



EXTRA FEATURES

Handles and flush pulls are so sophisticated that render a unique style to any architectural design. Function and appearance are in perfect harmony.



The Matrix

	MINIMAL LOOK SL68 AI ²	MINIMAL LOOK SL52 HI ²	INVISIBLE INSIDE-OUT MINIMAL LOOK SL52 HI	ESSENCE SL60 HI ²	ESSENCE SL60 HI ² FLAT EDITION	SL60 HI ² CLASSIC	ESSENCE SL50 HI ² FLAT EDITION	SL50 HI ² CLASSIC	SL46 SI ² CLASSIC	SL46 SI ² FLAT EDITION	SL46 SI ² _MD	SL33_MD
Lift & Slide	○	○	○	●	●	●	●	●	●	●	○	○
Slide	●	●	●	○	○	●	○	●	●	●	●	●
Multi-track	○	○	○	○	○	●	○	●	○	○	○	○
Flat track	●	●	●	○	●	●	●	●	○	●	●	●

The Identity

DESIGN	MINIMAL LOOK SL68 AI ²	MINIMAL LOOK SL52 HI ²	INVISIBLE INSIDE-OUT MINIMAL LOOK SL52 HI	ESSENCE SL60 HI ²	ESSENCE SL60 HI ² FLAT EDITION	SL60 HI ² CLASSIC	ESSENCE SL50 HI ² FLAT EDITION	SL50 HI ² CLASSIC	SL46 SI ² CLASSIC	SL46 SI ² FLAT EDITION	SL46 SI ² _MD	SL33_MD		
Sash Depth	68 mm	52 mm	52 mm	60 mm	60 mm	60 mm	50 mm	50 mm	46 mm	46 mm	46 mm	33 mm		
Visible Height	77 mm	77 mm	39 mm	sash 95 mm	127 mm	125 mm	132 mm	sash 88 mm	118 mm	125 or 110 mm	121.8 mm	98.8 mm	80 mm	87 mm
	35.5 mm [infloor edition]	35.5 mm [infloor edition]		sash 85 mm	117 mm	115 mm	122 mm	sash 72 mm	-	109 or 94 mm		77.3 mm [infloor edition]	59 mm [infloor edition]	
Middle Mullion Width	35 mm	35 mm	35 mm	sash 95 mm	105 mm	105 mm	105 mm	sash 88 mm	98 mm	98 mm	89 mm 56 mm	89 mm	56 mm	78.5 mm
				sash 85 mm	95 mm	95 mm	95 mm	sash 43.5 mm	48 mm	48 mm		56 mm	25 mm	
Meeting Stile Construction Width				sash 43.5 mm	48 mm	48 mm	48 mm	sash 25 mm	25 mm	25 mm				
Meeting Stile	109 mm	109 mm	109 mm	sash 95 mm	198 mm	198 mm	198 mm	sash 88 mm	184 mm	184 mm	189 mm	189 mm	-	-
Middle Mullion Width				sash 85 mm	178 mm	178 mm	178 mm	sash 72 mm	-	152 mm				
Fixed T	-	-	-	-	-	95 mm	-	98 or 48 mm	56 mm	-	-	-		

PROPERTIES

Max Sash Height	3.500 mm	3.500 mm	3.000 mm	3.500 mm	3.500 mm	3.500 mm	3.500 mm	3.500 mm	2.800 mm	2.800 mm	2.300 mm	2.300 mm
Max Sash Width	3.000 mm	3.000 mm	3.000 mm	3.000 mm	3.000 mm	3.000 mm	3.000 mm	3.000 mm	2.000 mm	2.000 mm	1.200 mm	1.200 mm
Max Sash Weight	400 kg	400 kg	300 kg	440 kg	440 kg	440 kg	400 kg	400 kg	400 kg	400 kg	100 kg	100 kg
Max Glass Thickness	48 mm	32 mm	32 mm	46 mm	46 mm	46 mm	36 or 34 mm	36 or 34 mm	30 mm	30 mm	30 mm	24 mm

The Performance

COMFORT	MINIMAL LOOK SL68 AI ²	MINIMAL LOOK SL52 HI ²	INVISIBLE INSIDE-OUT MINIMAL LOOK SL52 HI	ESSENCE SL60 HI ²	ESSENCE SL60 HI ² FLAT EDITION	SL60 HI ² CLASSIC	ESSENCE SL50 HI ² FLAT EDITION	SL50 HI ² CLASSIC	SL46 SI ² CLASSIC	SL46 SI ² FLAT EDITION	SL46 SI ² _MD	SL33_MD	
Thermal Insulation Uf	EN ISO 10077-2	≥ 3.1 W/m ² K	≥ 3.4 W/m ² K	≥ 3.4 W/m ² K	≥ 2.7 W/m ² K	≥ 2.8 W/m ² K	≥ 2.8 W/m ² K	≥ 2.32 W/m ² K	≥ 2.32 W/m ² K	≥ 4.1 W/m ² K	≥ 3.4 W/m ² K	≥ 3.7 W/m ² K	≥ 3.3 W/m ² K
Air Permeability	EN 12207	-	Class 4	Class 4	Class 4	Class 4	Class 4	Class 4	Class 4	Class 4	Class 4	-	Class 3
Watertightness	EN 12208	-	7A	7A	9A	7A	E1200	E900	E900	4A	7A	-	7A
Resistance to Wind Load	EN 12210	-	C3 / B3	C3 / B3	C5/B5	B3	C2/B3	B2	B2	C2 / B2	C2 / B2	-	B2
Sound Reduction	EN 14351-1	-	-	-	-	-	45 dB	44 dB	44 dB	39 dB	38 dB	-	-
Operating Forces	EN 13115	-	-	-	Class 2	-	Class 1	Class 1	Class 1	-	-	-	-
Mechanical Properties	EN 13115	-	-	-	Class 3	-	-	-	-	-	-	-	-

LIFT & SLIDE SUCCESSIVE CONSTRUCTIONS		ESSENCE SL60 HI ²	ESSENCE SL60 HI ² FLAT EDITION	SL60 HI ² CLASSIC	ESSENCE SL50 HI ² FLAT EDITION	SL50 HI ² CLASSIC	SL46 SI ² CLASSIC	SL46 SI ² FLAT EDITION
	2-Sash	•	•	•	•	•	•	•
	2-Sash with fixed part	•	•	•	•	•	•	•
	2-Sash with flyscreen	•	•	•	•	•	•	•
	2-Sash with fixed part and flyscreen	•	•	•	•	•	•	•
	4-Sash meeting stile	•	•	•	•	•	•	•
	4-Sash meeting stile with flyscreen	•	•	•	•	•	•	•
	4-Sash meeting stile with fixed parts	•	•	•	•	•	•	•
	4-Sash meeting stile with fixed parts and flyscreen	•	•	•	•	•	•	•
	6-Sash meeting stile with fixed parts	•	•	•	•	•	○	○
	3-Sash	•	•	•	•	•	•	•
	3-Sash with fixed part	•	•	•	•	•	•	•
	4-Sash with multi-track	○	○	•	○	•	○	○
	5-Sash with multi-track	○	○	•	○	•	○	○
	2-Sash angular - Inner angle	•	•	•	•	•	○	○
	2-Sash angular - Outer angle	•	•	•	•	•	○	○
	3-Sash angular - Inner angle	•	•	•	•	•	○	○
	3-Sash angular - Outer angle	•	•	•	•	•	○	○
	1-Sash inwall	•	○	•	○	•	•	•
	1-Sash inwall with flyscreen	•	○	•	○	•	•	•
	1-Sash inwall with shutter	•	○	•	○	•	•	•
	1-Sash inwall with flyscreen and shutter	•	○	•	○	•	•	•
	2-Sash inwall meeting stile with flyscreen and shutter	•	○	•	○	•	•	•

SLIDING SUCCESSIVE CONSTRUCTIONS

MINIMAL LOOK SL68 AI² MINIMAL LOOK SL52 HI²

INVISIBLE INSIDE-OUT
MINIMAL LOOK SL52 HI

SL60 HI² CLASSIC

SL50 HI² CLASSIC

SL46 SI² CLASSIC

SL46 SI²
FLAT EDITION

SL46 SI²_MD

SL33_MD

	2-Sash	•	•	•	•	•	•	•	•	•	•
	2-Sash with fixed part	•	•	•	•	•	•	•	•	•	•
	2-Sash with flyscreen	○	•	•	•	•	•	•	•	•	•
	2-Sash with fixed part and flyscreen	○	○	○	•	•	•	•	•	•	•
	4-Sash meeting stile	•	•	•	•	•	•	•	•	•	•
	4-Sash meeting stile with flyscreen	○	○	○	•	•	•	•	•	•	•
	4-Sash meeting stile with fixed parts	•	•	•	•	•	•	•	•	•	•
	4-Sash meeting stile with fixed parts and flyscreen	○	○	○	•	•	•	•	•	•	•
	6-Sash meeting stile with fixed parts	○	○	○	•	•	○	○	○	○	○
	3-Sash	•	•	•	•	•	•	•	•	•	•
	3-Sash with fixed part	•	•	•	•	•	•	•	•	•	•
	4-Sash with multi-track	○	○	○	•	•	○	○	○	○	○
	5-Sash with multi-track	○	○	○	•	•	○	○	○	○	○
	2-Sash angular - Inner angle	•	○	○	○	○	○	○	○	○	○
	2-Sash angular - Outer angle	○	○	○	○	○	○	○	○	○	○
	3-Sash angular - Inner angle	•	○	○	○	○	○	○	○	○	○
	3-Sash angular - Outer angle	○	○	○	○	○	○	○	○	○	○
	1-Sash inwall	○	○	○	•	•	•	•	•	•	•
	1-Sash inwall with flyscreen	○	○	○	•	•	•	•	•	•	•
	1-Sash inwall with shutter	○	○	○	•	•	•	•	•	•	•
	1-Sash inwall with flyscreen and shutter	○	○	○	•	•	•	•	•	•	•
	2-Sash inwall meeting stile with flyscreen and shutter	○	○	○	•	•	•	•	•	•	•


ESSENCE FD77

When making an insulated folding door we had to strike the perfect balance; respect the requirements of extra large openings by creating an extended variety of solutions that combine deft design with indisputable quality in all the functional elements. The result is a solid and handsome system that will run smoothly for years to come.







The Identity

DESIGN

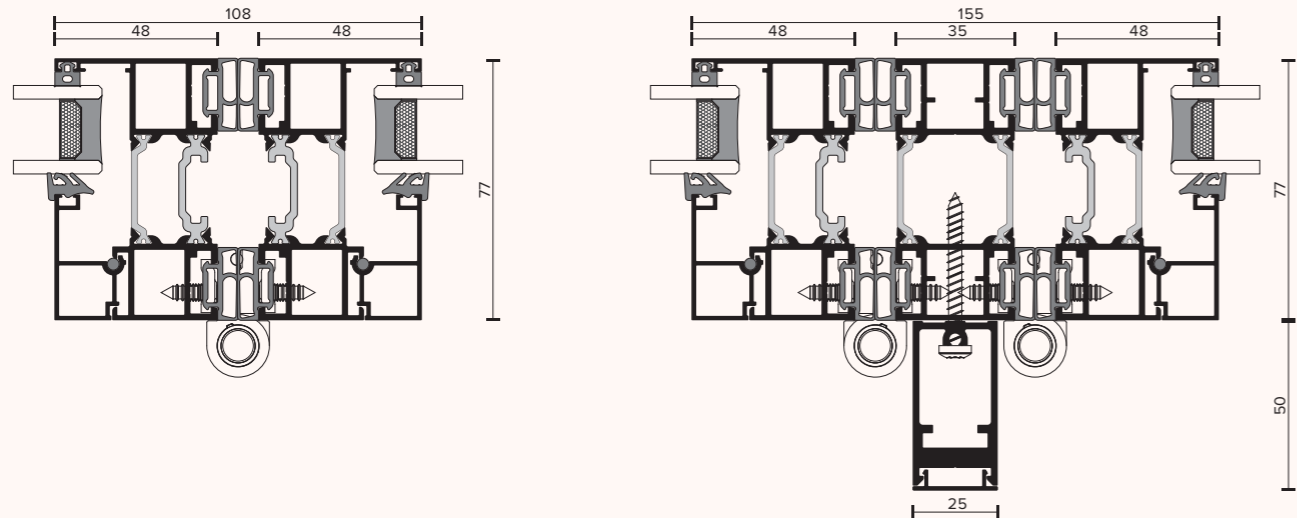
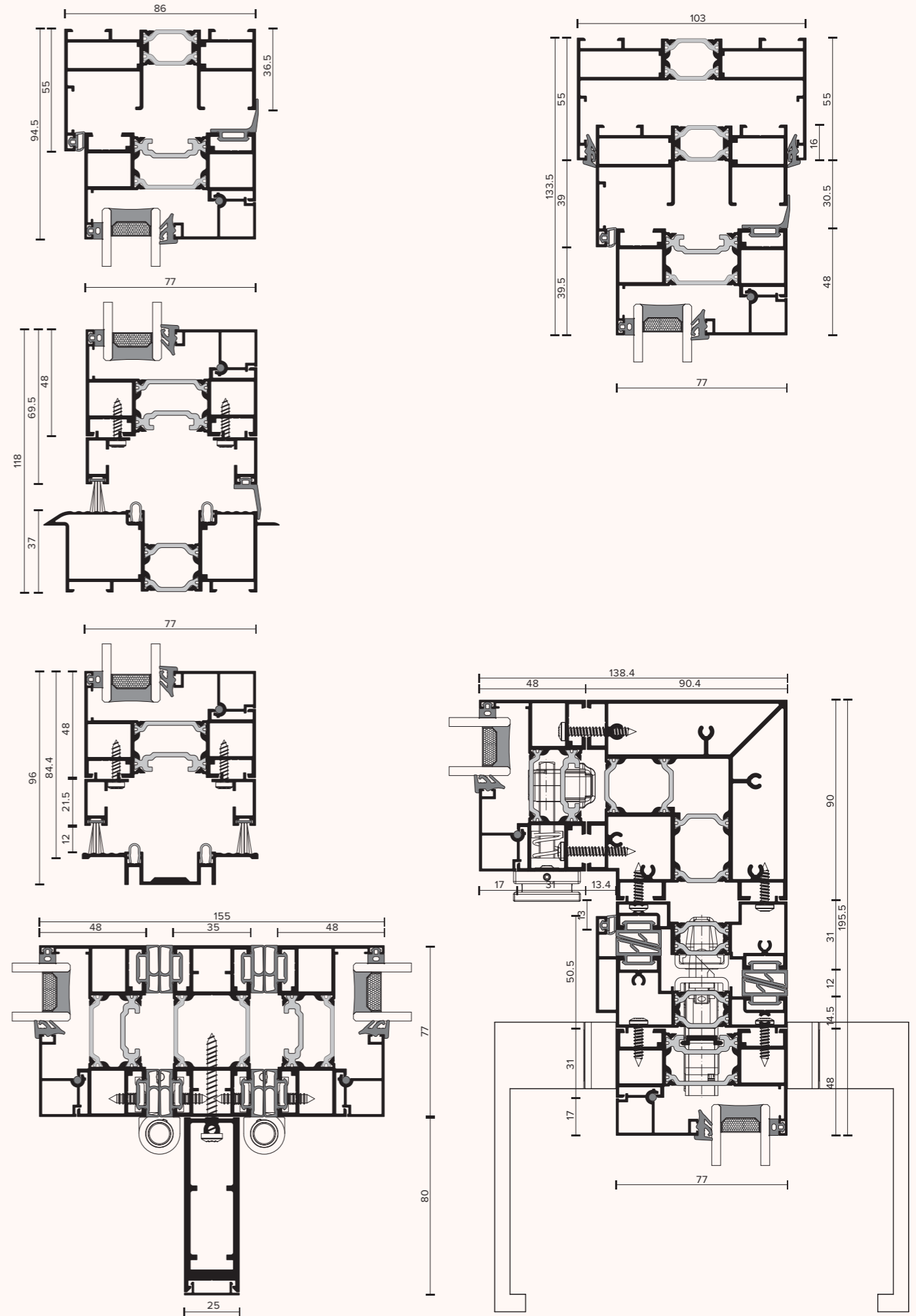
	Sash Depth		77 mm
	Min Face Height	Frame - Sash	94.5 mm
	Min Face Height	Threshold - Sash	84.4 mm
	Min Face Width	Middle Mullion	108 mm

PROPERTIES

	Max Sash Height		3.500 mm
	Max Sash Width		1.300 mm
	Max Sash Weight		230 kg
	Max Glass Thickness		52 mm

The Performance

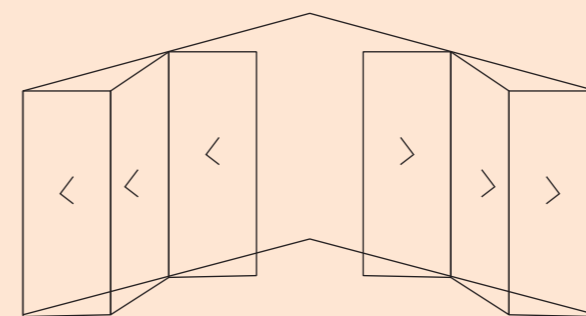
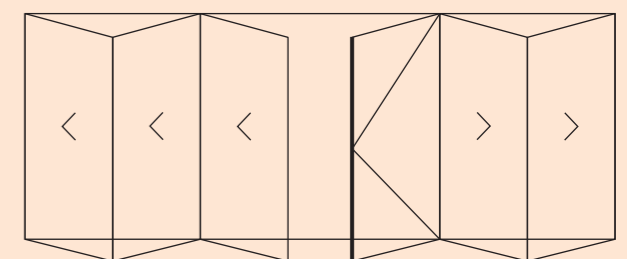
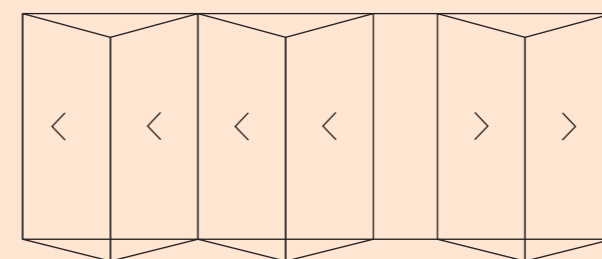
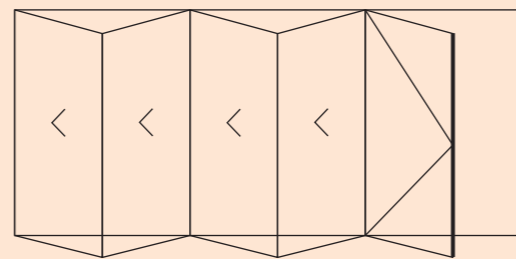
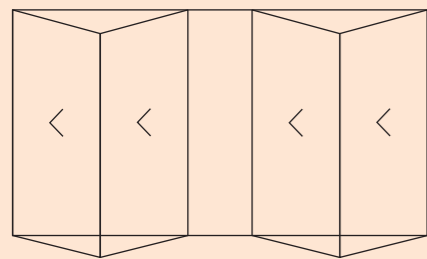
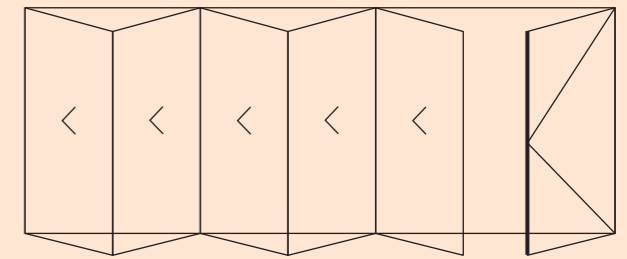
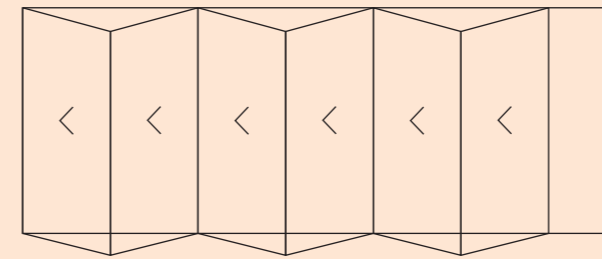
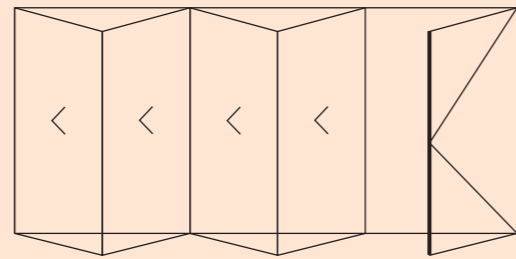
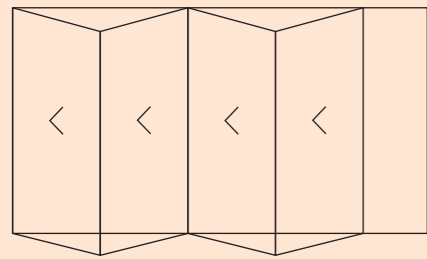
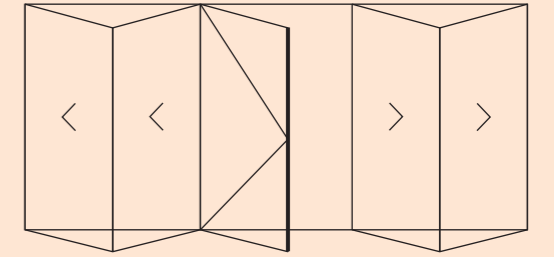
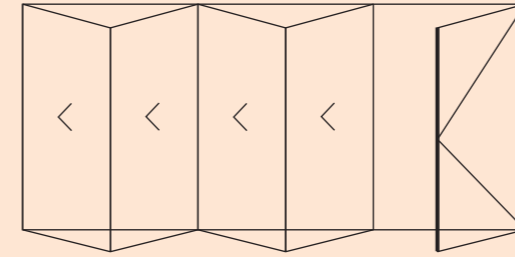
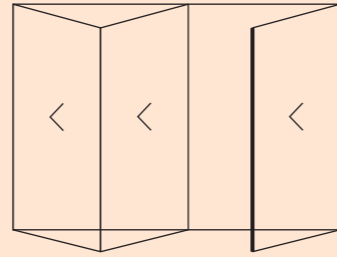
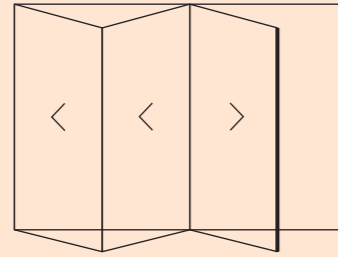
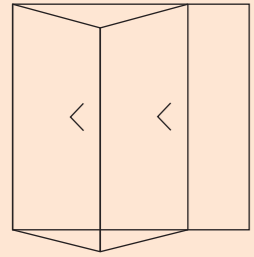
CHARACTERISTIC	STANDARD	VALUE
ENERGY		
Thermal Insulation Uf	EN ISO 10077-2	≥ 2.1 W/m²K
COMFORT		
Air Permeability	EN 12207	Class 3 [600Pa]
Watertightness	EN 12208	7A [300Pa]
Resistance to Wind Load	EN 12210	C2 [800Pa]



The Typologies

INWARD OPENING

ALL THE TYPOLOGIES CAN BE CONSTRUCTED WITH OUTWARD OPENING



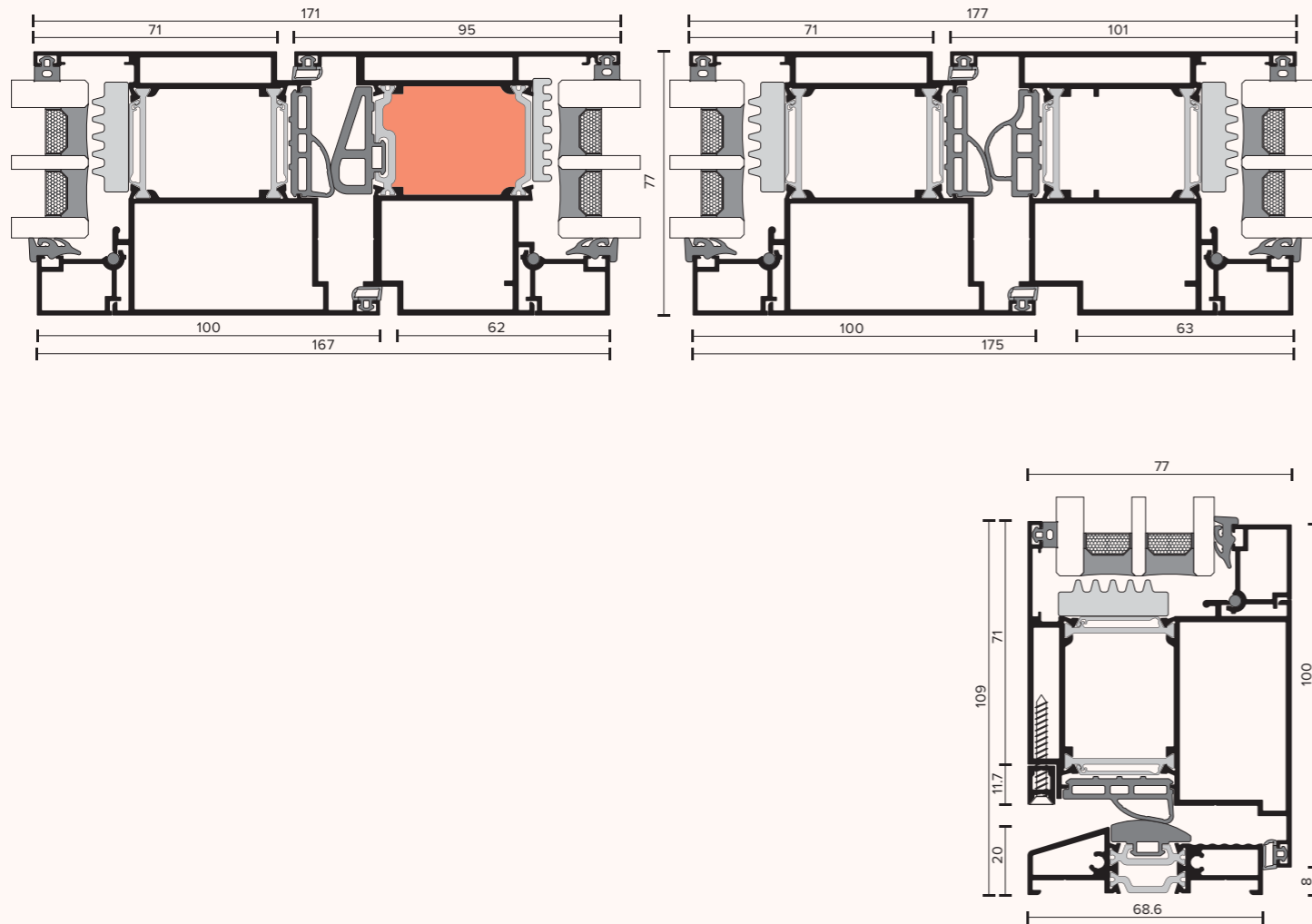
DOORS



ICONIC D77 AI²

Becoming Iconic.

A door is a functional element that sometimes does not get the attention it deserves, becoming a disruptive element to an otherwise well thought and implemented design concept. This is why we paid special attention to the design of this door. Made to complement our Iconic collection, it is the beautiful piece of design that you expect from ELVIAL, harboring the technology elements that justify your decision to select it.



The Identity

DESIGN

	System Depth		77 mm
	Min Face Height	Frame - Sash	146 mm
	Min Face Height	Threshold - Sash	109 mm
	Min Face Width	Middle Mullion	177 mm

PROPERTIES

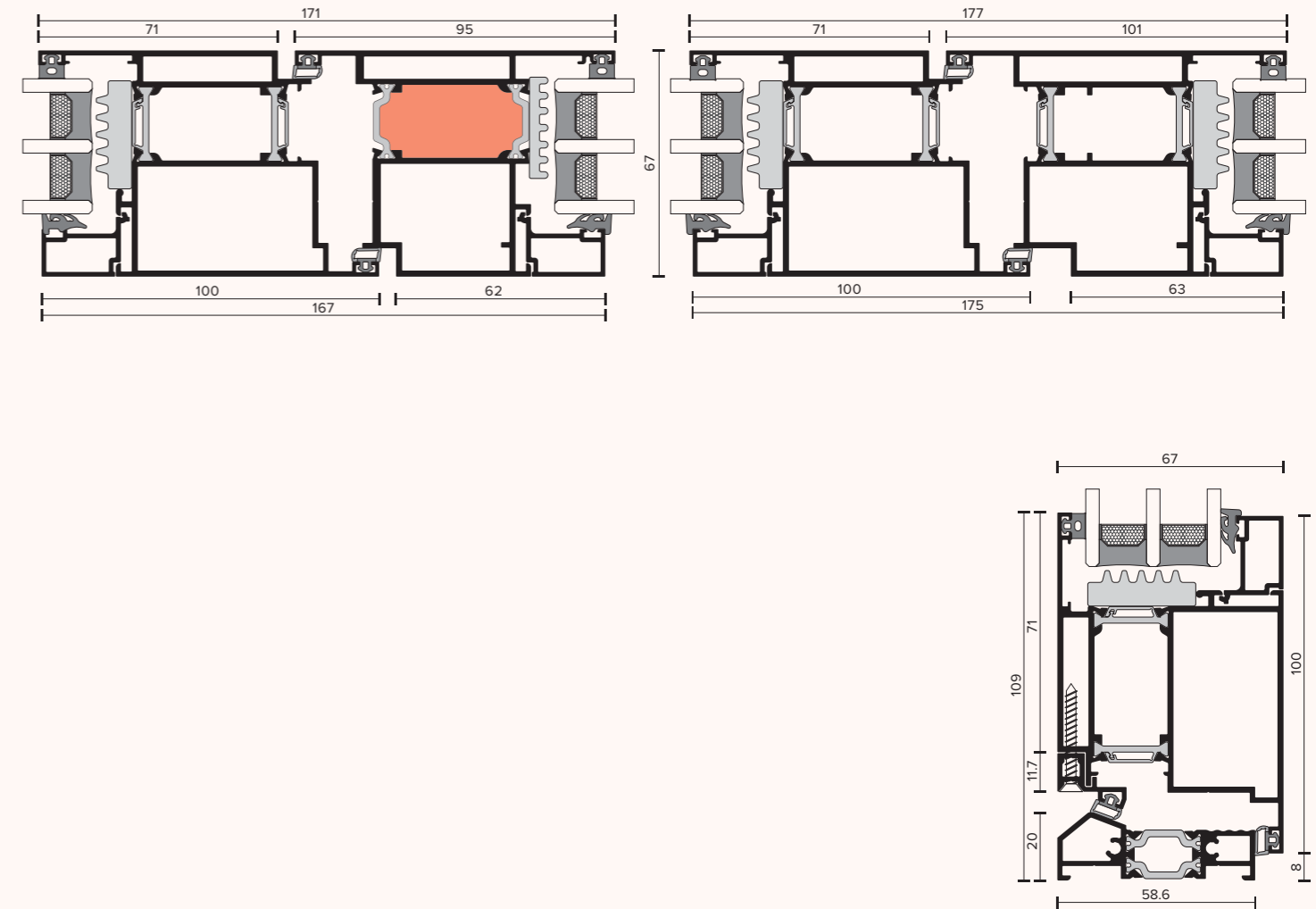
	Max Sash Height	3.000 mm
	Max Sash Width	1.400 mm
	Max Sash Weight	180 kg
	Max Glass Thickness	62 mm

ESSENCE D67 HI²

Open up.

The door is an element easily overlooked. However, it is not the ELVIAL way to overlook things.

We designed this solution to work in harmony with the solutions of our Essence collection and unify the aesthetic composition of your space. The quality of manufacturing is what you have come to expect from an ELVIAL product and guarantees the frictionless function for many years to come.



The Identity

DESIGN

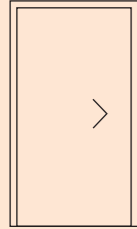
	System Depth		67 mm
	Min Face Height	Frame - Sash	146 mm
	Min Face Height	Threshold - Sash	109 mm
	Min Face Width	Middle Mullion	177 mm

PROPERTIES

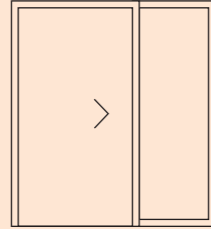
	Max Sash Height	3.000 mm
	Max Sash Width	1.400 mm
	Max Sash Weight	180 kg
	Max Glass Thickness	52 mm

The Typologies

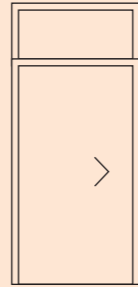
INWARD & OUTWARD OPENING



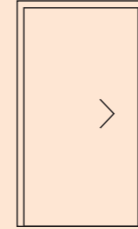
Single sash



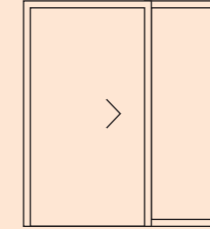
Single sash with fixed part



Single sash with fixed part



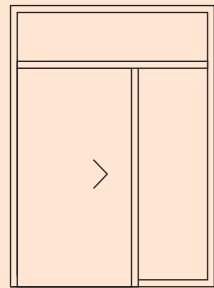
Single sash



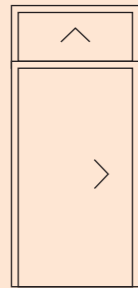
Single sash with fixed part



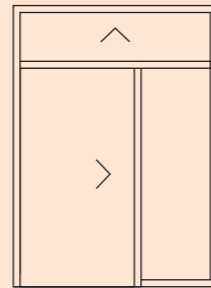
Single sash with fixed part



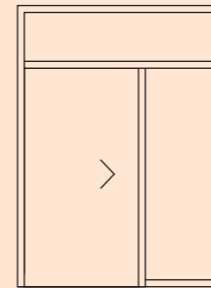
Single sash with fixed parts



Single sash with skylight



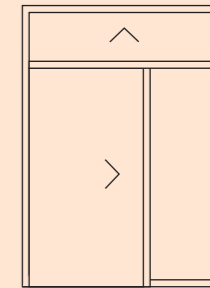
Single sash with skylight and fixed part



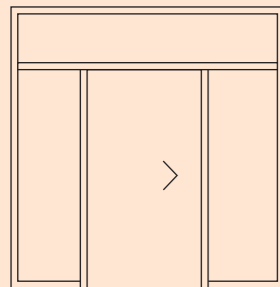
Single sash with fixed parts



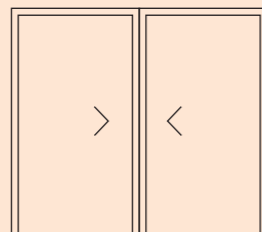
Single sash with skylight



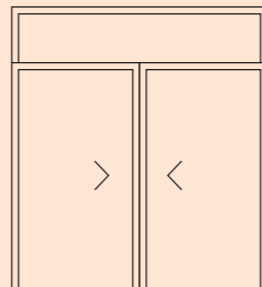
Single sash with skylight and fixed part



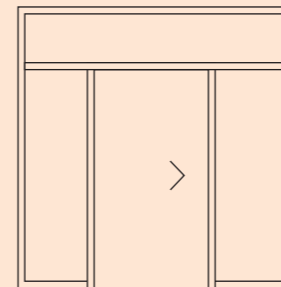
Single sash with fixed parts



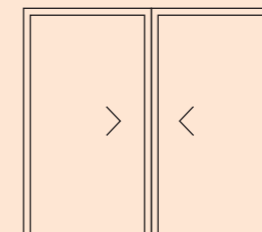
Double sash



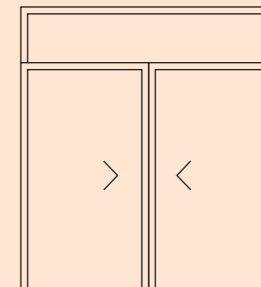
Double sash with fixed part



Single sash with fixed parts



Double sash



Double sash with fixed part




ELVIAL FS50

Creating beautiful façades has never been more exciting. The challenges of the even surface and performance have been overcome. This solution is flexible enough to fit advanced architectural design and engineering requirements and let the light work in favor of the interiors, while securing them against weather and other elements.



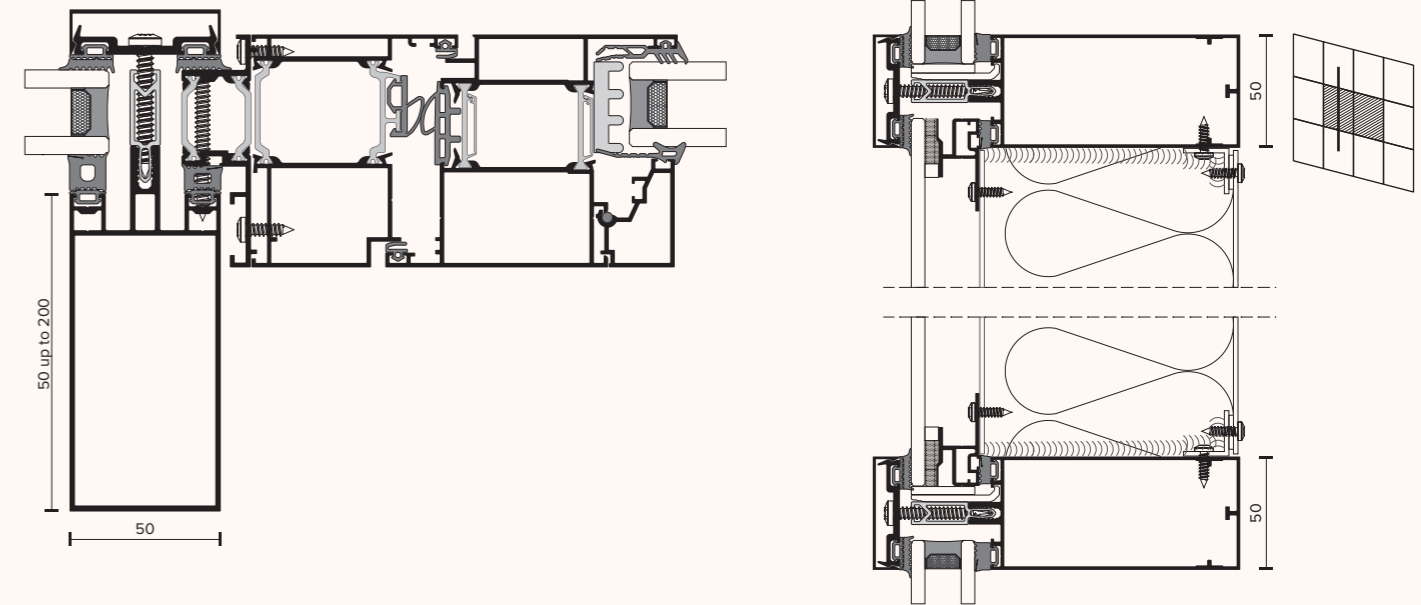
The Identity

DESIGN

 Mullion and Transom Depth		50 mm
 Mullion Height		14 up to 200 mm
 Transom Height	first level	6 up to 205 mm
	second level	49 up to 199 mm

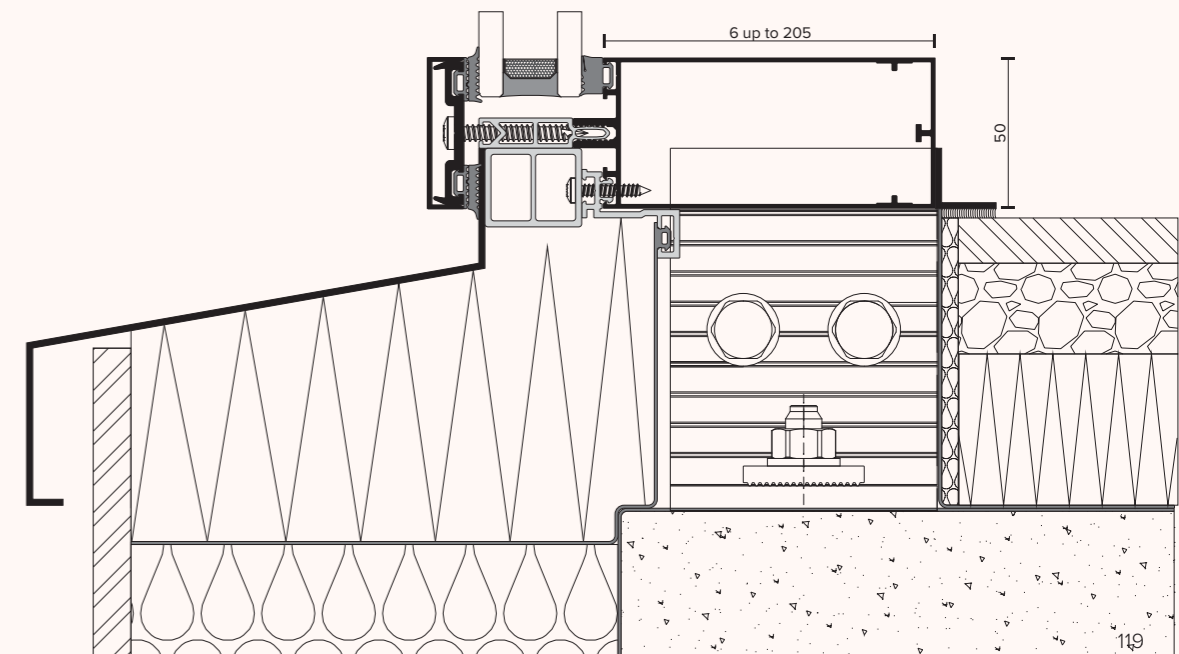
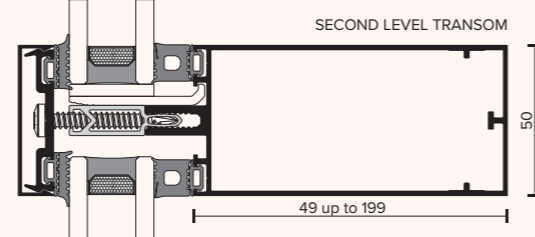
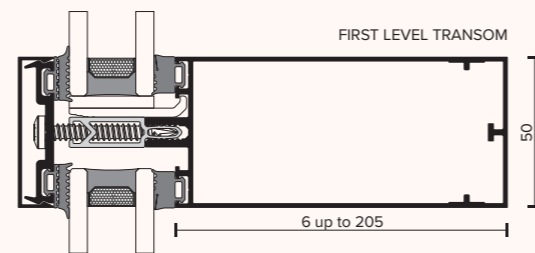
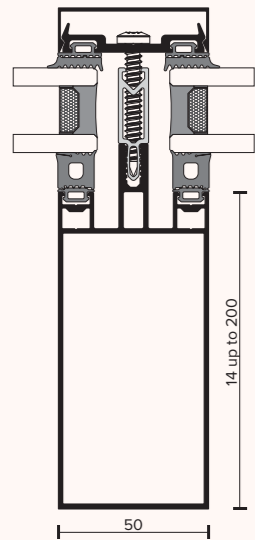
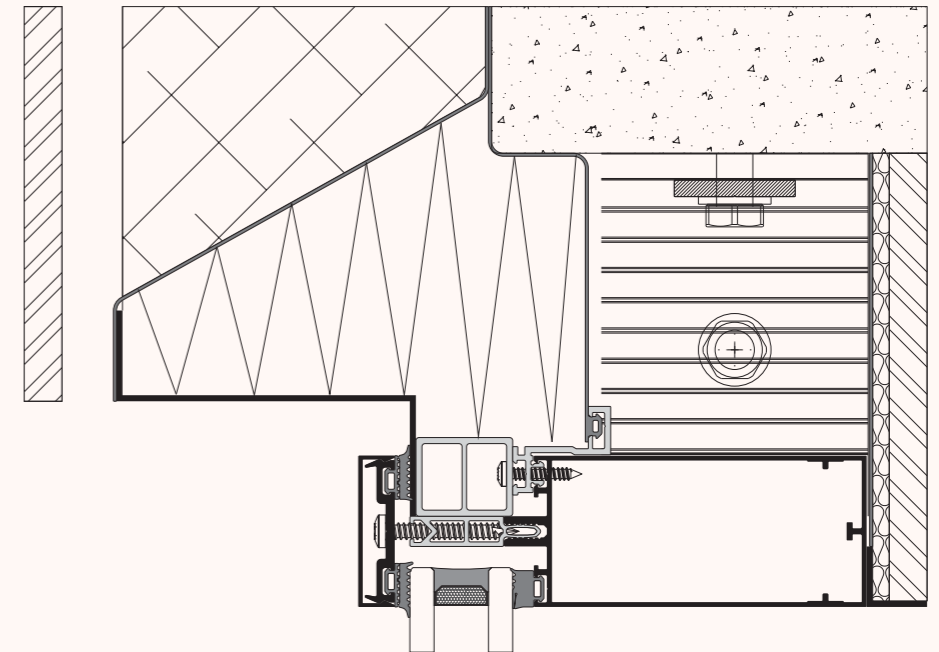
PROPERTIES

 Max Glass Thickness		62 mm
--	--	--------------



The Performance

CHARACTERISTIC	STANDARD	VALUE
ENERGY		
Thermal Insulation Uf	EN ISO 10077-2	Uf $\geq 0.6 \text{ W/m}^2\text{K}$
		Ucw $\geq 0.8 \text{ W/m}^2\text{K}$
COMFORT		
Air Permeability	EN 12152	Class AE [750Pa]
Watertightness	EN 12154	Class RE [1.200Pa]
Resistance to Wind Load	EN 13116	design load $\pm 2.0 \text{ kN/m}^2$
		safety load $\pm 3.0 \text{ kN/m}^2$
Sound Reduction	EN 10140-2	45 dB <small>Glazing 66.2/20/44.2</small>






ELVIAL FS50_SG

When a space seems to be made of nothing but light and glass the effect is captivating. Extensive glass surfaces that work as a mirror of the surrounding environments and as a massive window for the users of the space are one of the most enchanting characteristics of modern architecture. Choose this ELVIAL solution to create a sophisticated aesthetic effect combined with maximum performance.



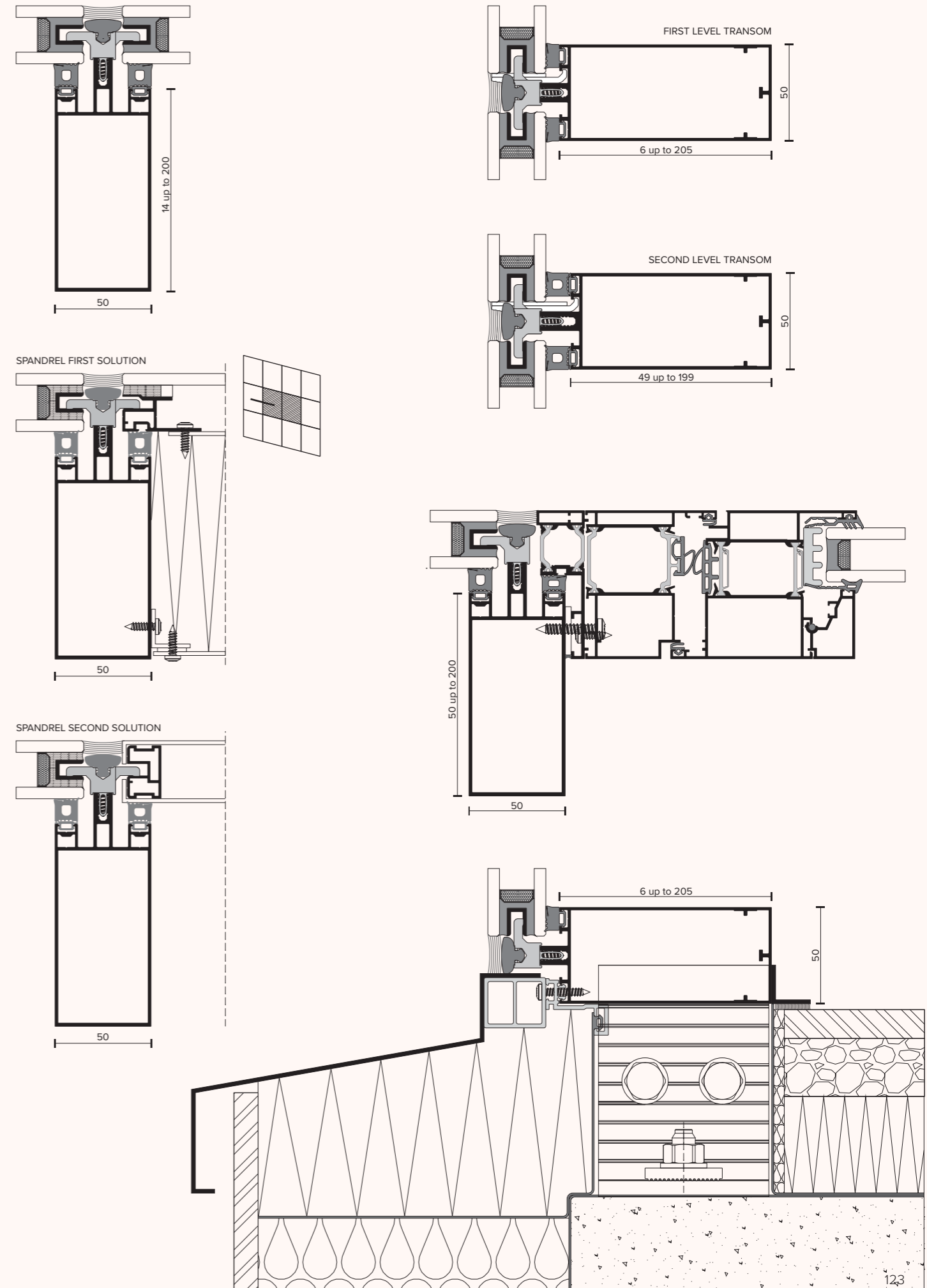
The Identity

DESIGN

 Mullion and Transom Depth		50 mm
 Mullion Height		14 up to 200 mm
 Transom Height	first level	6 up to 205 mm
	second level	49 up to 199 mm

PROPERTIES

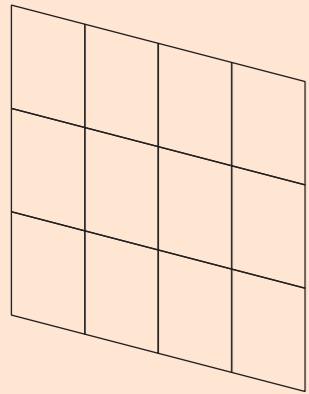
 Max Glass Thickness		38 mm
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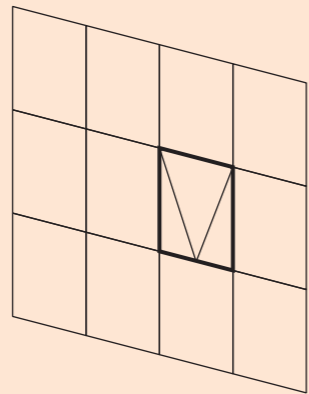
The Performance

CHARACTERISTIC	STANDARD	VALUE	
ENERGY			
Thermal Insulation Uf	EN ISO 10077-2	U _{tj} ≥ 4.9 W/m²K	
COMFORT			
Air Permeability	EN 12152	Class AE [750Pa]	
Watertightness	EN 12154	Class RE [1.200Pa]	
Resistance to Wind Load	EN 13116	design load	± 2.0 kN/m²
		safety load	± 3.0 kN/m²

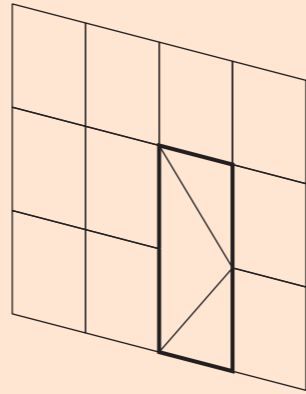
The Typologies



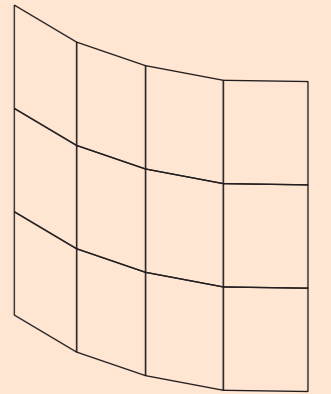
Fixed



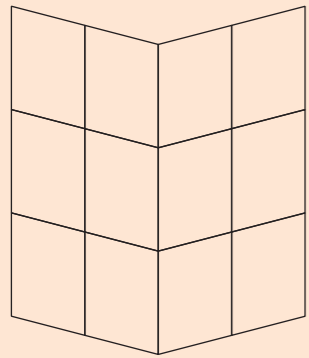
Projected out



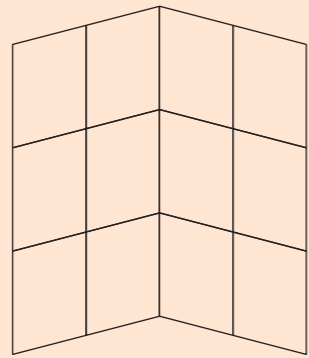
Main entrance



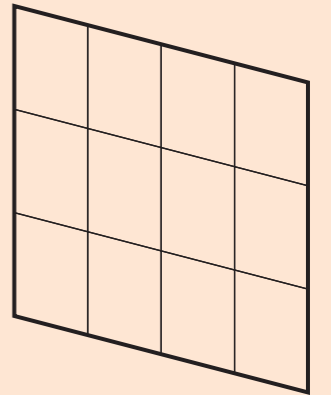
Rounded angle corner
only for ELVIAL FS50



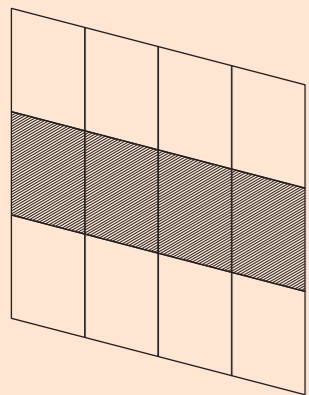
Inner angle corner



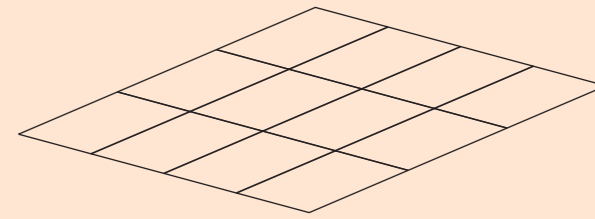
Outer angle corner



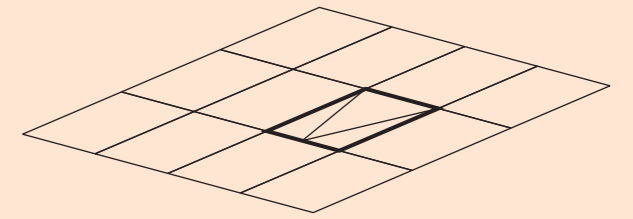
Finishings



Spandrel



Fixed skylight



Skylight with projected out

ESSENCE SD55

Wide openings in modern buildings glorify natural light that in its turn creates airy interiors, photogenic volumes, and elongated minimal lines. ELVIAL created the sliding shading systems that will help you control natural light, and have it your way. Let both the light and shading system work for you.



The Design

Choice of horizontal and vertical shading

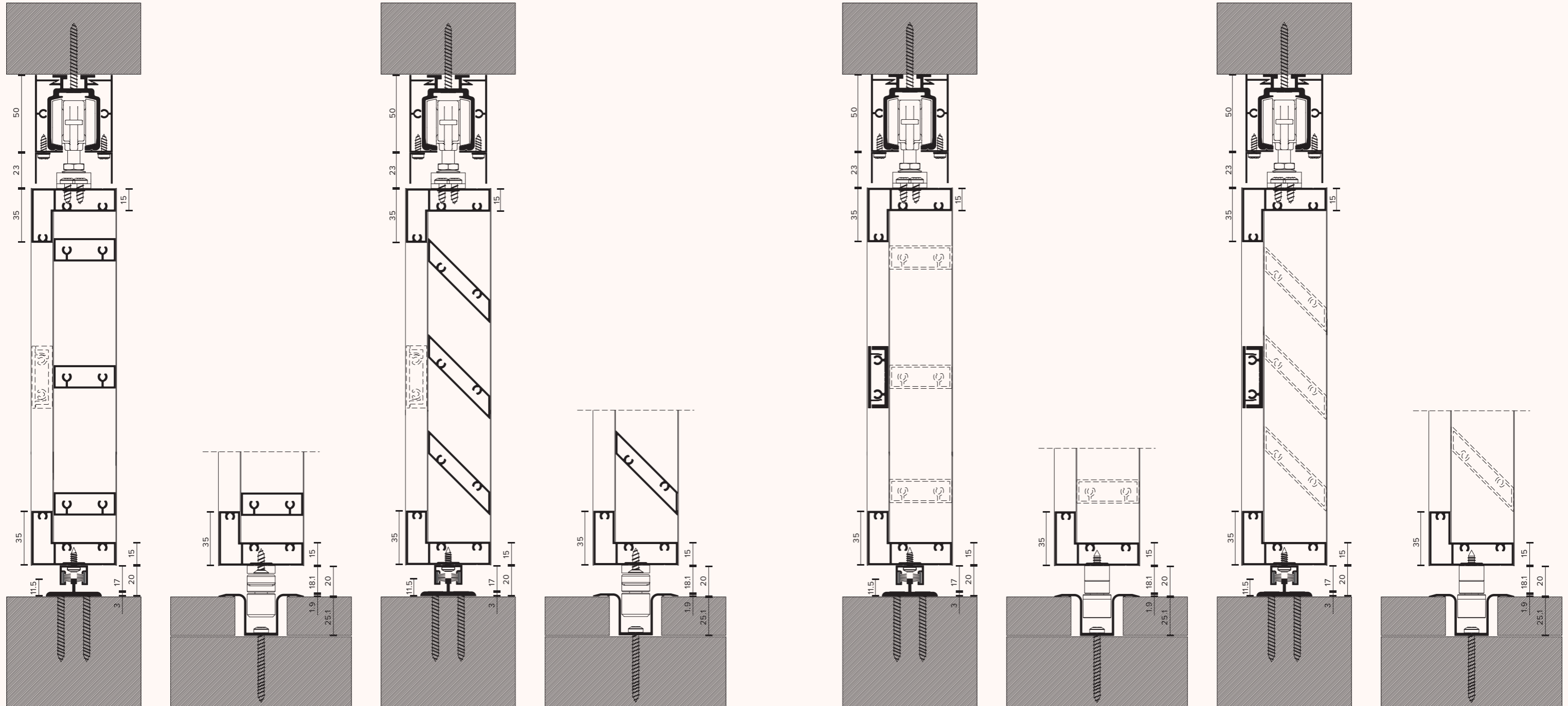
Minimal design with a uniform appearance of a 15mm profile

Hidden scroll mechanism with maximum sash weight 140kg

Different locking solutions

Possibility of electric construction with remote control

Compatible with the ELVIAL Cladding System



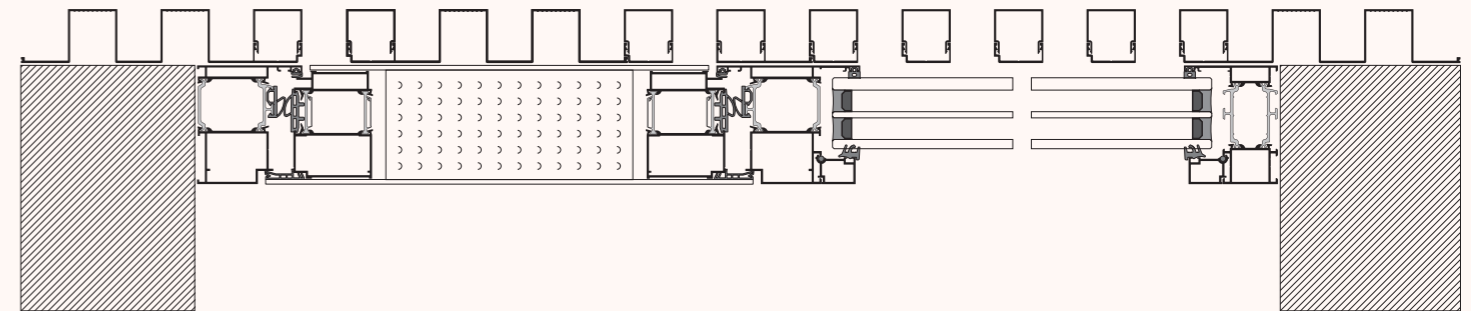
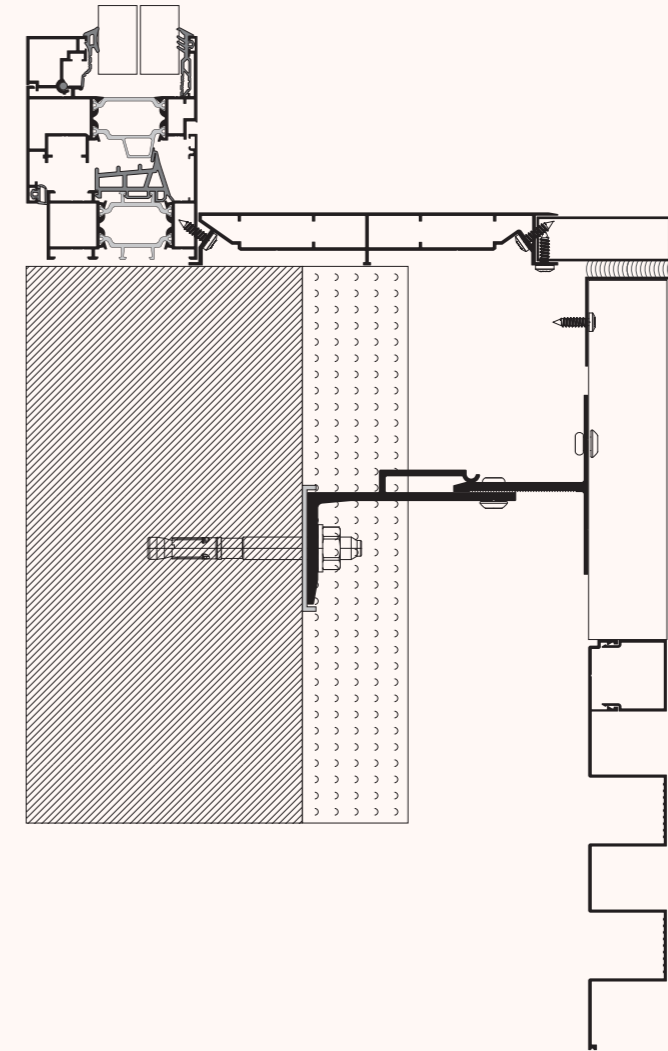
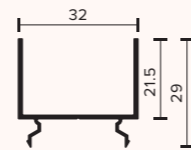
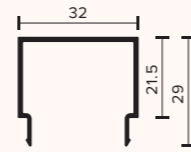
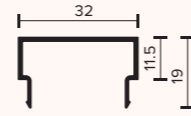
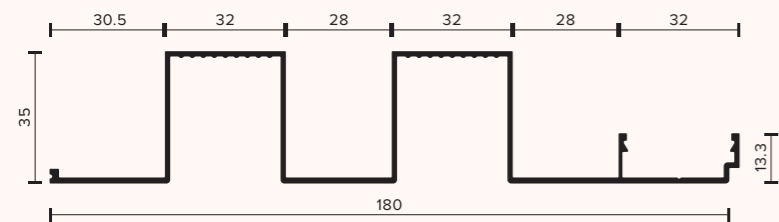
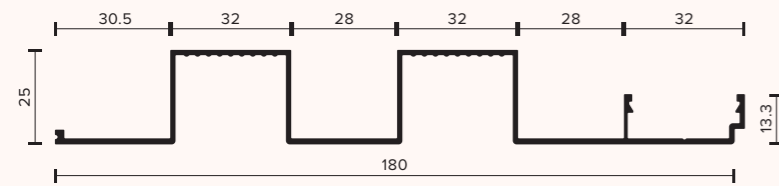
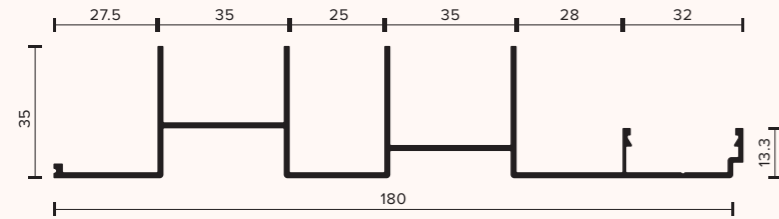
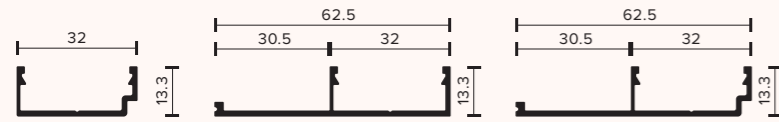
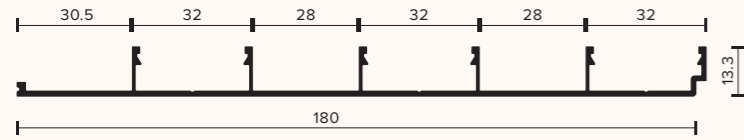
ESSENCE CLADDING CL180

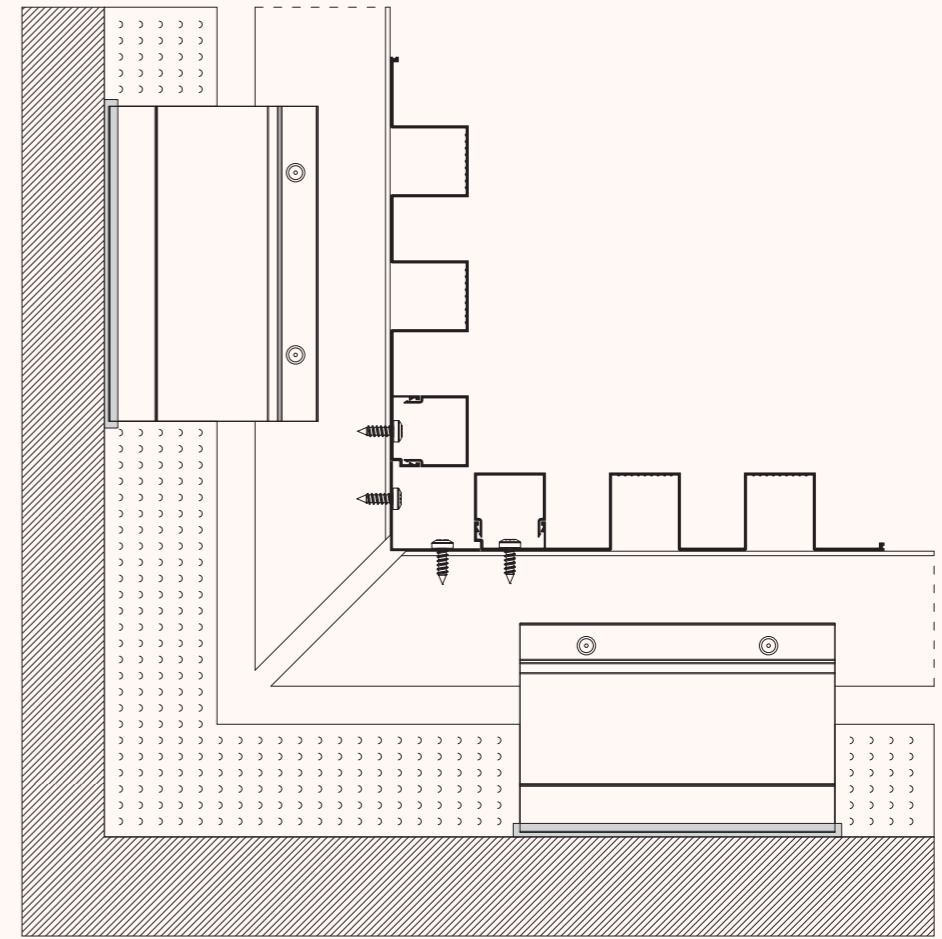
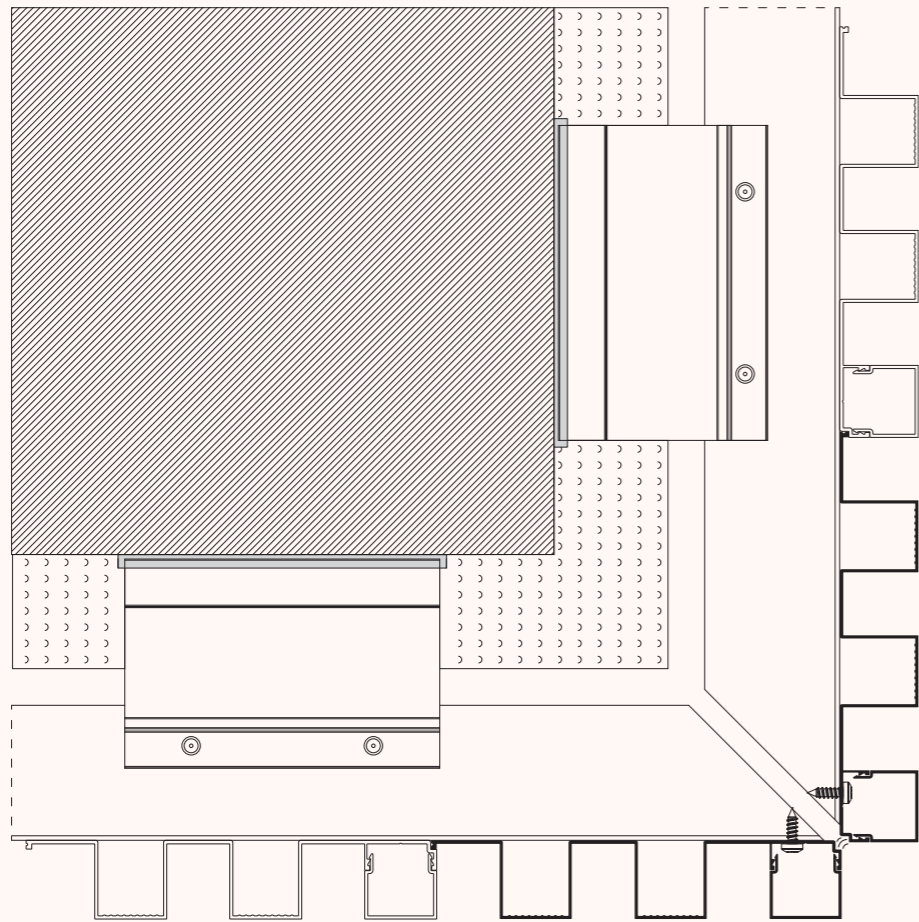
A trend full of vitality, dynamism, and character conquers the hearts of owners and architects. The new ESSENCE CLADDING CL180 system has unlimited applications and adds inspiration, beauty, and value to modern minimal architectural approaches. Design possibilities and excellent finishes allow you to create dynamic facades in new buildings or renovate an existing one in an impressive way.



CLADDING PROFILES

CLADDING CAPS

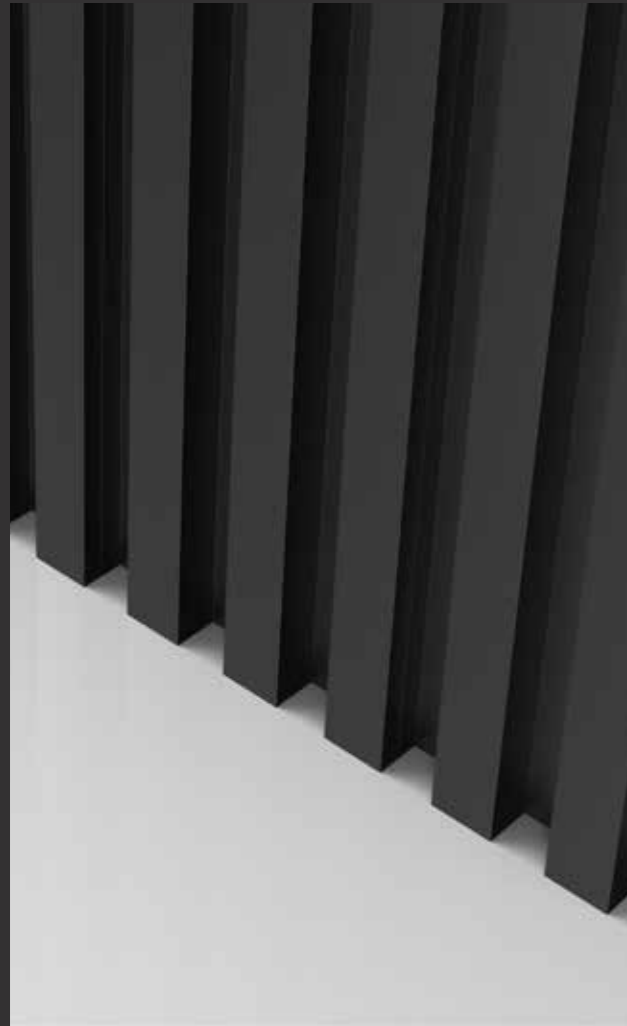




CLADDING FOR UNIQUE STYLE

Three designs and their combination are here to give a special style to surfaces with a door or window or to entire sections of the facade. Even the interior can acquire an unexpected dynamic thanks to the play of light and volume of ESSENCE CLADDING CL180.

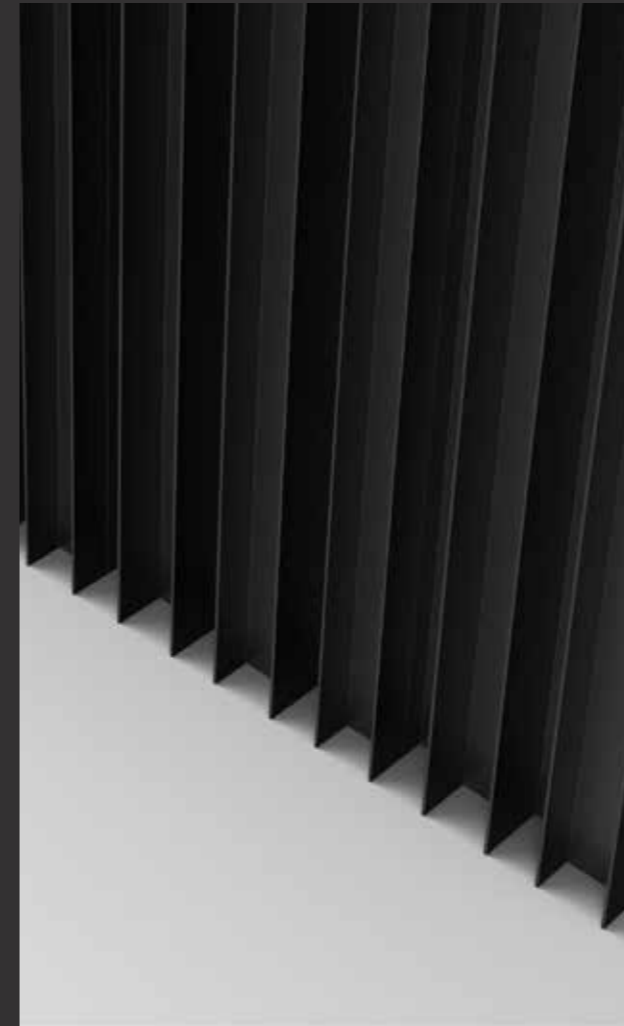
Want to impress? Surprise? Make an intervention that will not go unnoticed? Choose the design and ESSENCE CLADDING CL180.



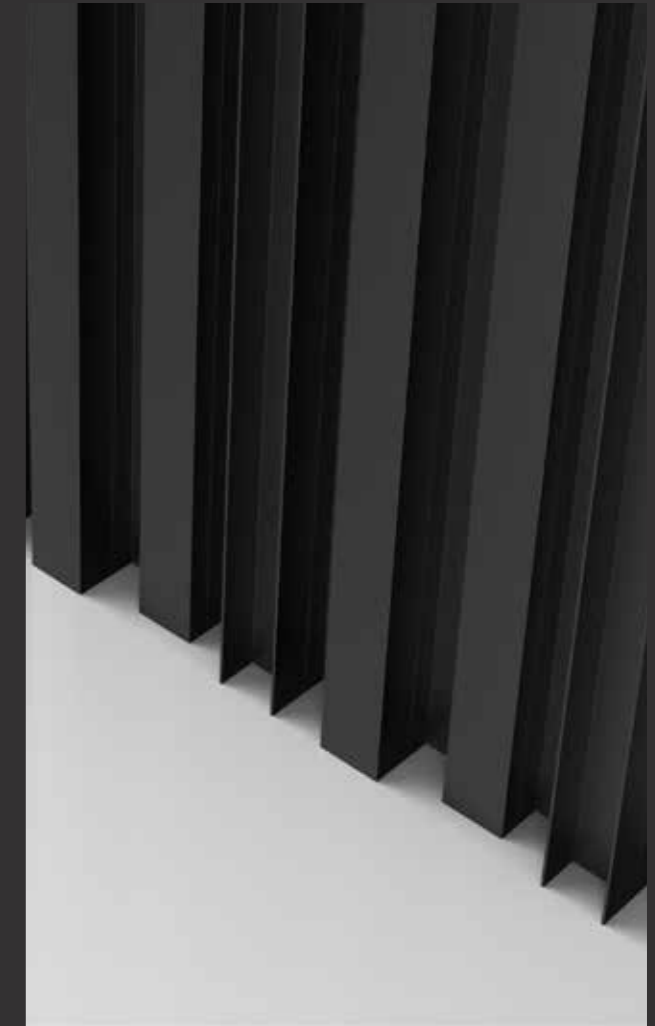
BLOCK2.5 TOUCH
The unique symmetrical block striation, creates an elegant and distinctive surface of 25mm depth, providing unique designs.



BLOCK3.5 TOUCH
The vertical profiles of 35mm compose a steeper texture allowing a play between light and shadows. This results in a more dashing final imprint.



LINEAR TOUCH
Use of clear lines convey elegance. The exquisite look with 35mm depth is ideal for architectural projects that promote contemporary aesthetics.



MIX & MATCH
Create your very own distinct combination of cladding profiles. Combine a sequence of different designs to promote your unique style and outstanding look.

ATTENTION TO DETAIL

Architecture is a play of volume, light, and the limits between interior and exterior. Whichever architectural style you choose, ESSENCE CLADDING CL180 will provide the details you need to combine all the elements into a beautiful and harmonious results.



ENTRANCE DOORS



TRANSLUCENT ELEMENTS IN THE FIXED PART



WINDOW ASSEMBLY WITH CLADDING SOLUTIONS



CORNER CONSTRUCTION



INTERNAL CORNER CONSTRUCTION

**INNOVATIVE TECHNOLOGIES_
ELVIAL PRE-ANODIZING 2IN1_
ELVIAL I² INSULATION TECHNOLOGY_
BE DIFFERENT.**

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