

ELVIAL

FS50

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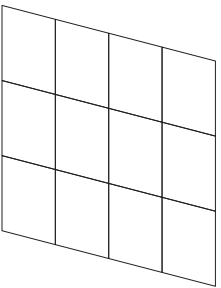
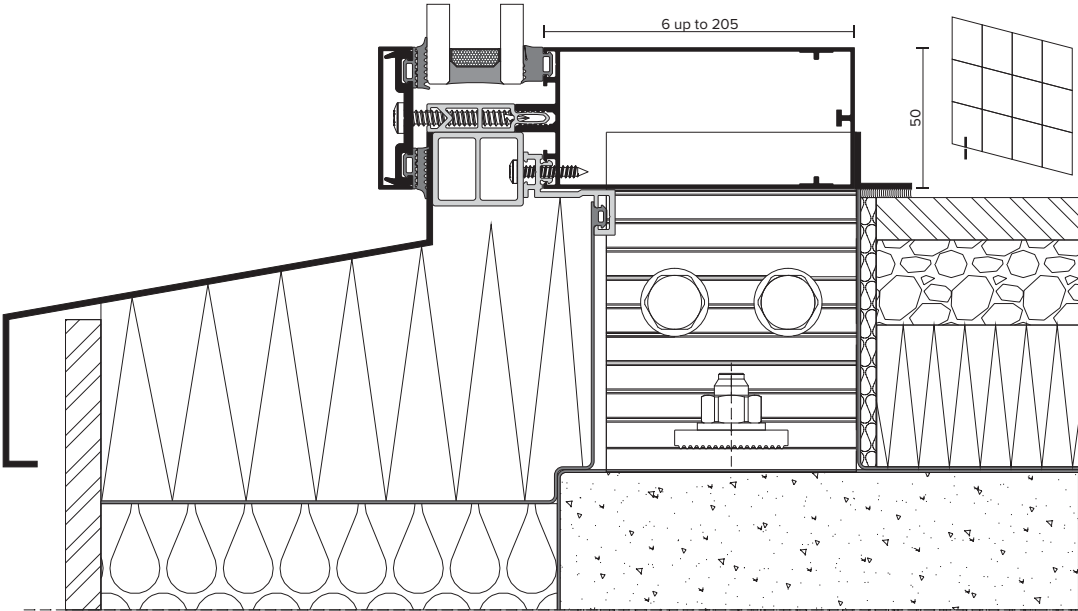
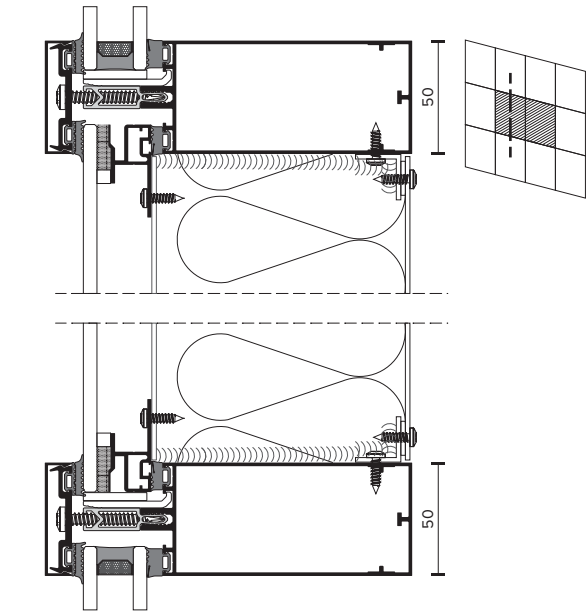
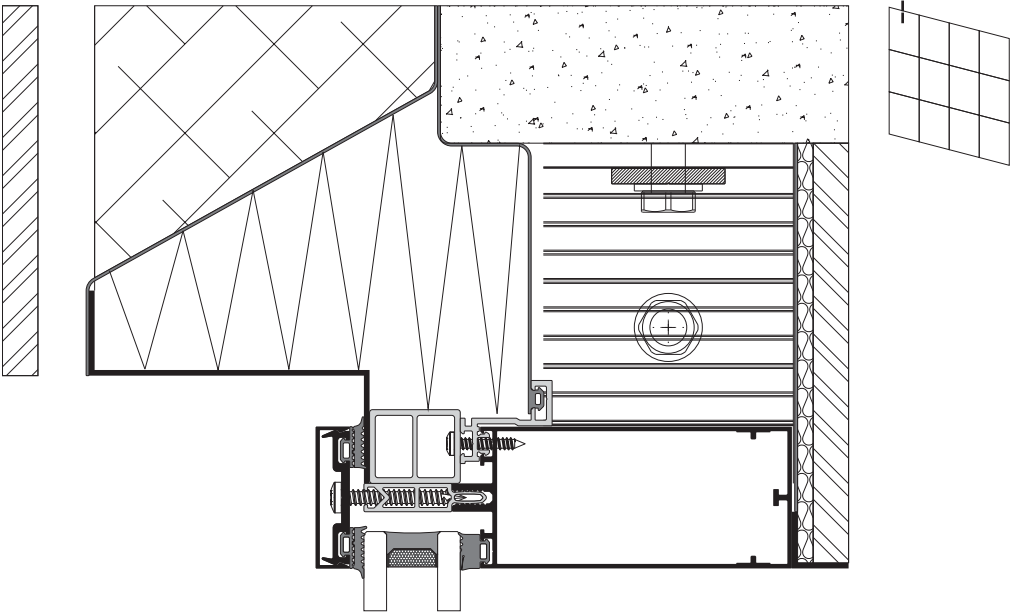
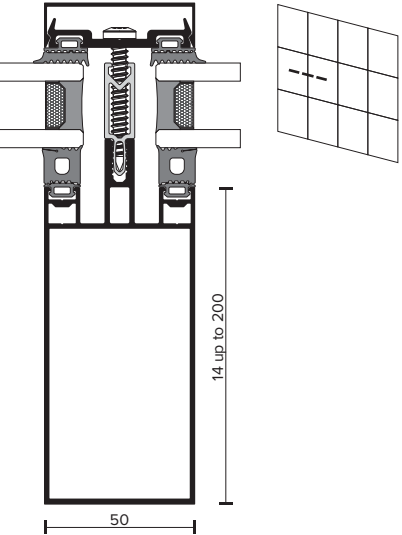


FACADES

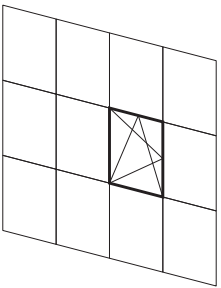
The facades are always fascinating because they represent a constructional and aesthetic challenge. Their large-scale surface must excel in design and simultaneously achieve performance.

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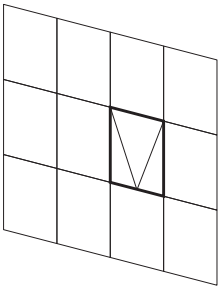
This flexible solution seamlessly supports advanced architectural design and engineering requirements. It secures the space against the elements of nature while allowing light to function to the benefit of interior design.



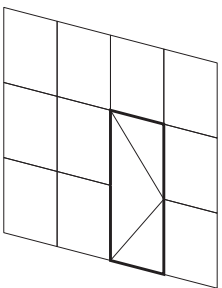
VERTICAL



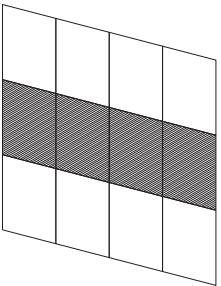
WINDOW



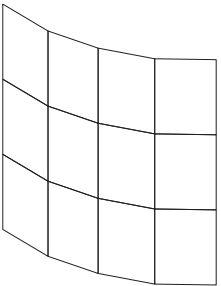
PROJECTED OUT



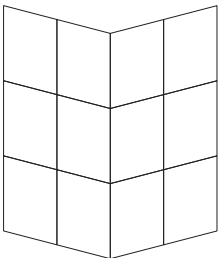
DOOR



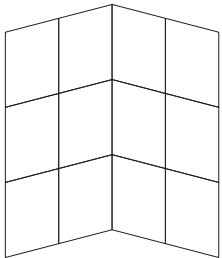
SPANDREL



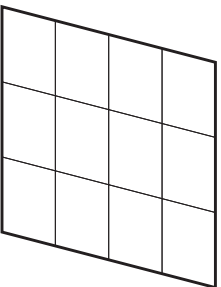
ROUNDED ANGLE
CORNER



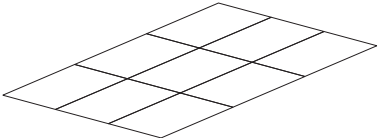
INNER ANGLE CORNER



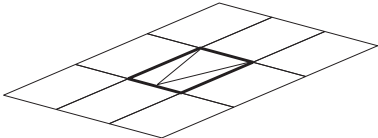
OUTER ANGLE CORNER



FINISHINGS



SKYLIGHT



SKYLIGHT WITH
PROJECTED OUT

TECHNOLOGY

THERMAL
INSULATION

- 1

Use of specially designed gaskets, additional profiles and **Insulation Bars** for high thermal insulation, excellent sealing and impeccable finish
- 2

Glazing options up to **62mm** for exceptional levels of energy saving and sound reduction
- 3

The FS50 system has a **special edition Passive House A⁺**. Suitable for cool, temperate climates (Central European climate zone), which perfectly meets the requirements of passive buildings

ADVANCED
SEALING SYSTEM

- 1

3 Level drainage system
- 2

Innovative design of **divided gaskets** for ultimate continuity and repeatability in sealing
- 3

Use of a **special sealing accessory** in the mullion connection area

DESIGN
FREEDOM

ATTENTION
TO DETAIL

- 1

Capability to create large **grids**.
- 2

Capability of **Same Level appearance** inside or shade creation
- 3

Mullion - Transom connection with the application of a **special foam gasket** that on the one hand absorbs the contractions and expansions and on the other hand does not change the internal appearance of the frame
- 4

Atrium constructions with the use of **special components** that ensure perfection of construction and cover architectural needs
- 5

Use of special gaskets for circular constructions (up to 20° per mullion)
- 6

Compatible with all **ELVIAL** opening systems platform

IDENTITY

DESIGN

PROPERTIES

PERFORMANCE

ENERGY

COMFORT

NORTH AMERICA TESTED

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
Max Glass Thickness					62 mm
Construction 4.000 x 3.000 mm	Double glazing, Ug = 1.1 W/m²K with Swisspacer Ultimate		Uw ≥ 1.43 W/m²K		
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	
Sound Reduction	EN 10140-2		45 dB	Glazing 66.2/20/44.2	
Air Permeability	ASTM E283-04		< 0.2 L/s*m² (300 Pa)		
Watertightness	ASTM E331-00 / AAMA 501.1-17		720 Pa		
Resistance to Wind Load	ASTM E330-14		design load	± 2000 Pa	
			safety load	± 3000 Pa	
Bullet Resistance	EN 1522		FB 3 S		

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SEE LIFE FROM A DIFFERENT
VIEW THROUGH ELVIAL'S
ALUMINIUM SYSTEMS

DISCOVER OUR INNOVATIVE TECH

ELVIAL I² INSULATION TECHNOLOGY
ELVIAL PRE-ANODIZING 2IN1

**DISCOVER MORE
ARCHITECTURAL SYSTEMS**

ICONIC W77 AI²
ICONIC W77BS AI²
ICONIC W77ST AI²

ESSENCE W67 HI²
ESSENCE W67BS HI²
ESSENCE W67ST HI²

ELVIAL W60BS SI²
ELVIAL W89 PHI²
ELVIAL W92 HI² AW
ELVIAL W59 SI²

ICONIC D77 AI²
ESSENCE D67 HI²

ELVIAL FS50_SG
ESSENCE SD55
ESSENCE CLADDING CL180

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ELVIAL TRIFOLD FS50.GR.202509