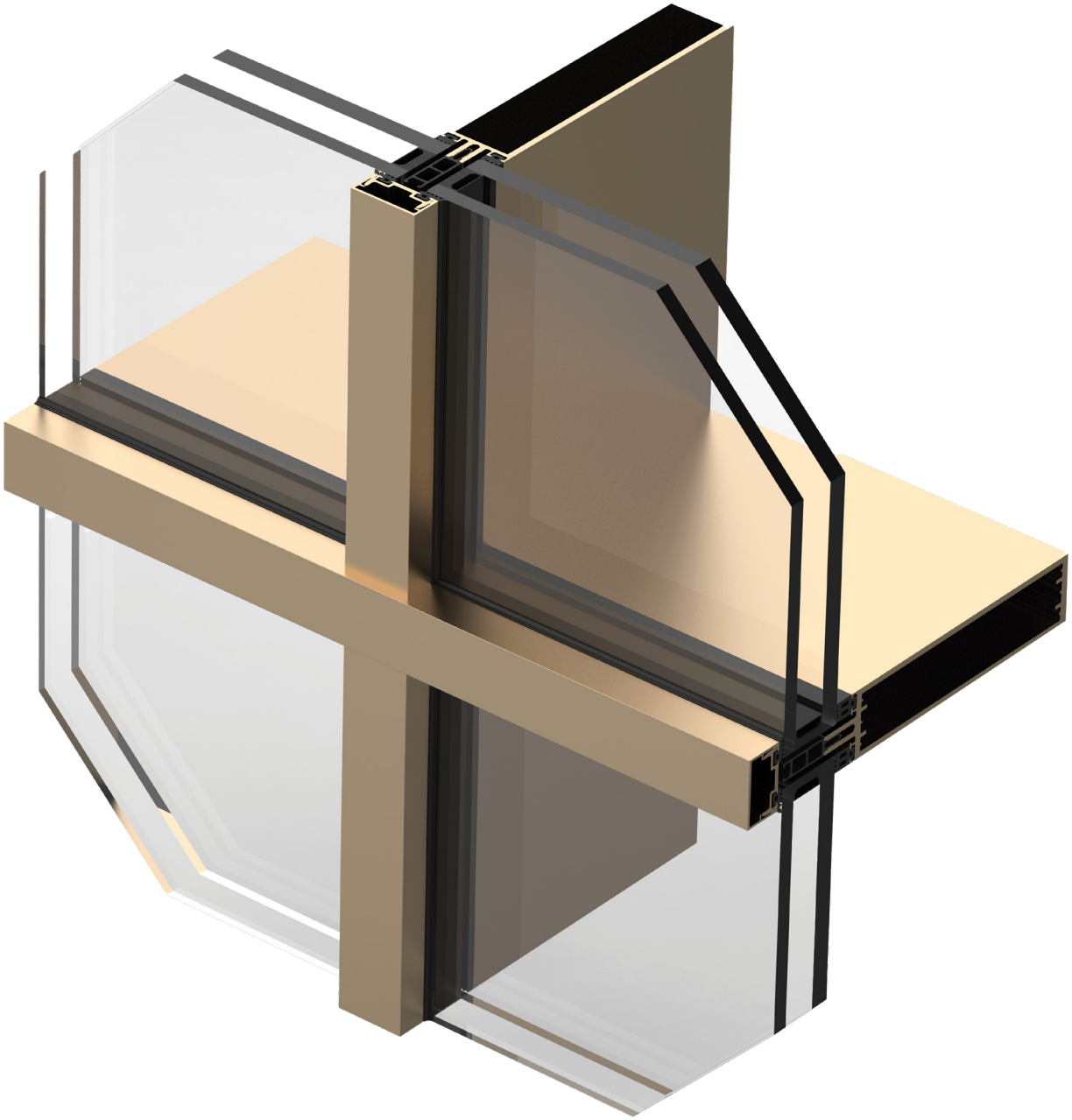
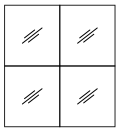
VetroFacade | CONVENTIONAL STICK CURTAIN WALL SYSTEM
VF CW 35C



Conventional and Structural curtain wall system

Customers have the option to select from our two curtain wall systems based on their requirements and preferences.

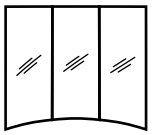


Minimal Frame

35 mm slim aluminium mullions and transoms.

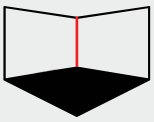
Structural Stability

Mullion with multiples depths for different structural performance.



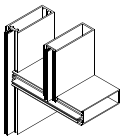
Maximum Glass

Maximum double glass panels up to 2.8 meter wide by 5 meter high.



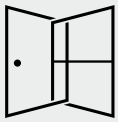
Corner Mullion

Single corner mullion enhancing both aesthetic and uninterrupted view.



Frame Construction in 3 Levels

The vertical mullions and horizontal transoms are joined at different levels to ensure optimal air and water tightness.



Windows & Doors Integration

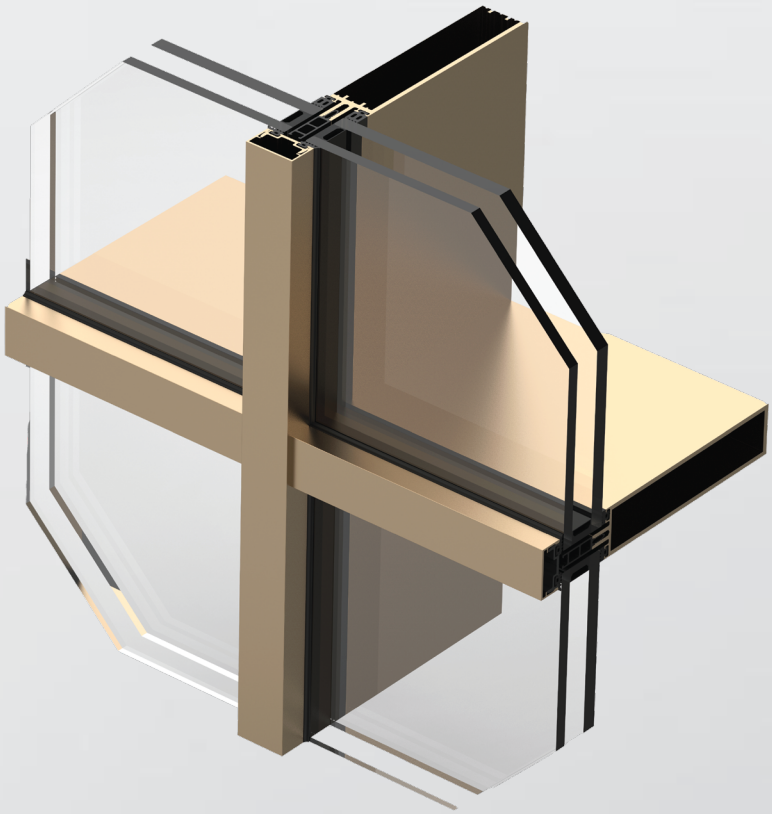
The system designed to seamlessly integrate our wide range of windows and doors.

Thermal Performance

Thermal broken Aluminum profiles offer maximum heat insulation. The system is meticulously designed to accommodate thermal expansion, accounting for temperature variations between the inner and outer spaces.

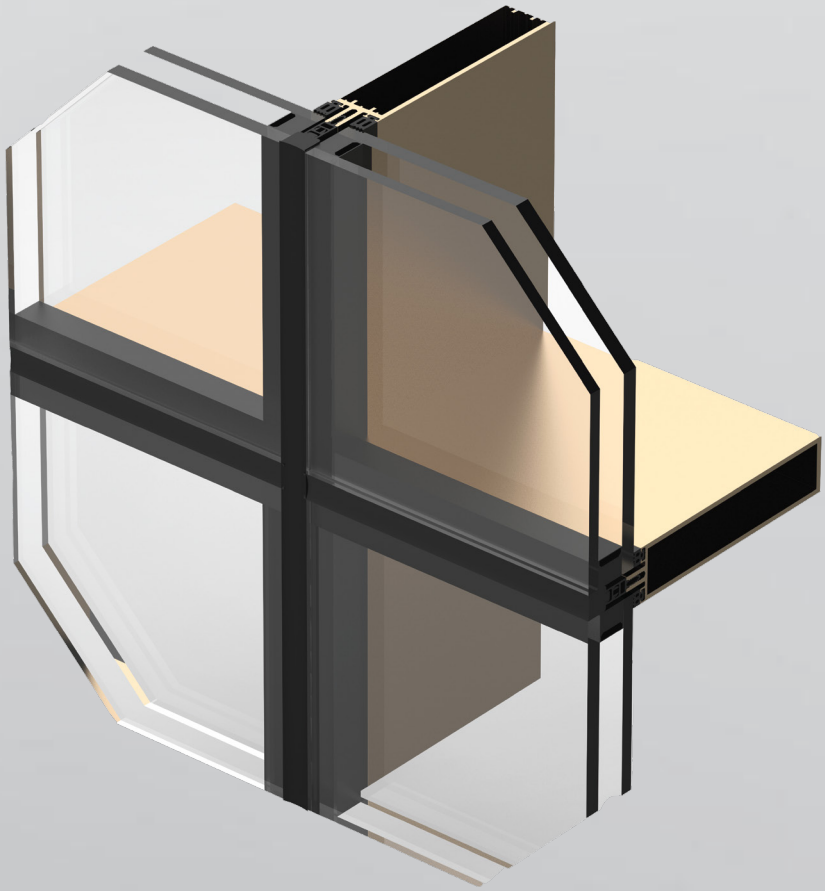
System Performance

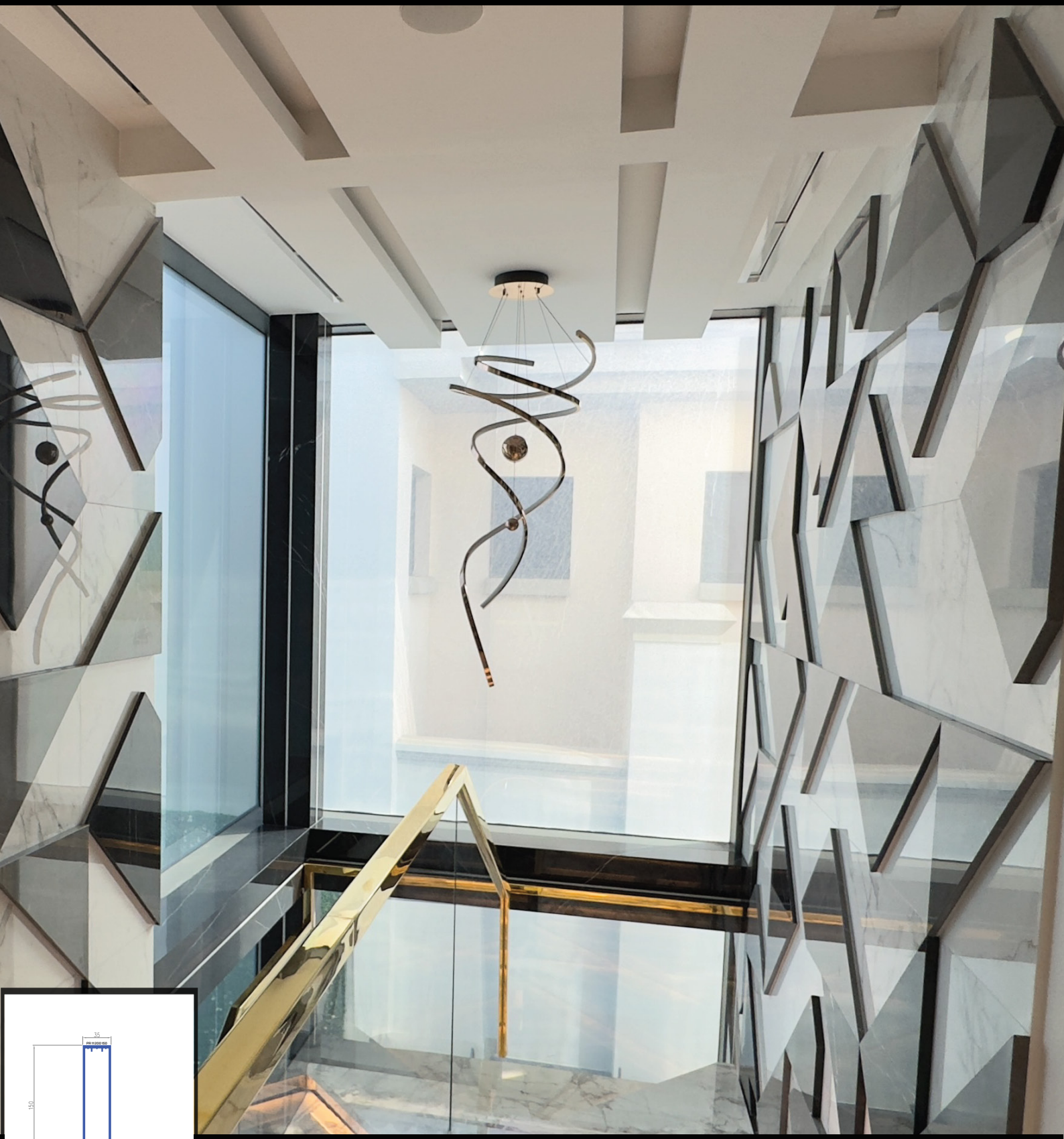
Our cutting-edge system is designed to deliver outstanding performance in three crucial areas: air infiltration, water tightness, and wind resistance.



CONVENTIONAL CURTAIN WALL

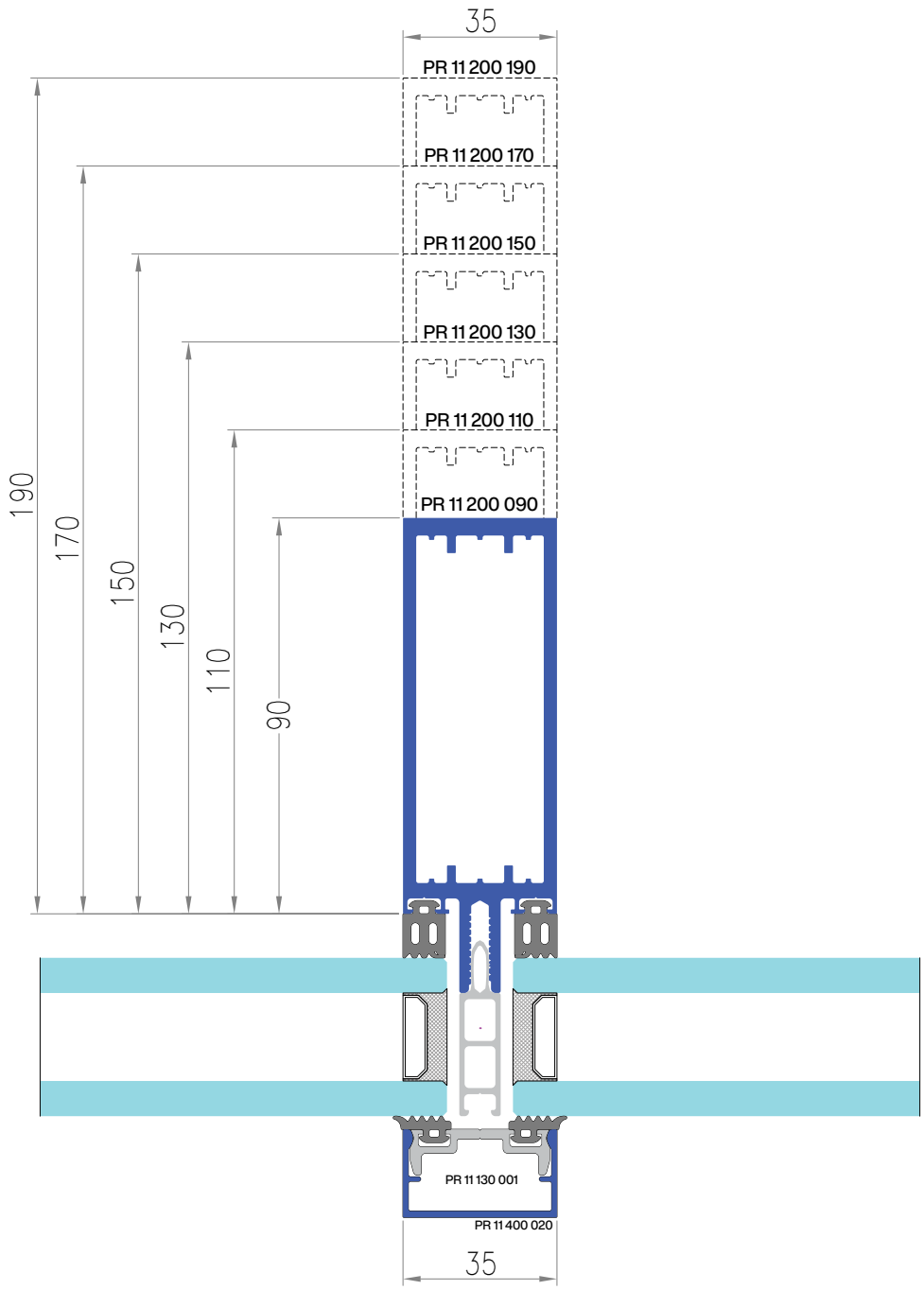
STRUCTURAL CURTAIN WALL





35 mm Slim

Sleek 35 mm wide slim aluminium mullion & transom, designed to complement modern aesthetics, while maximizing natural light intake and providing unobstructed views.

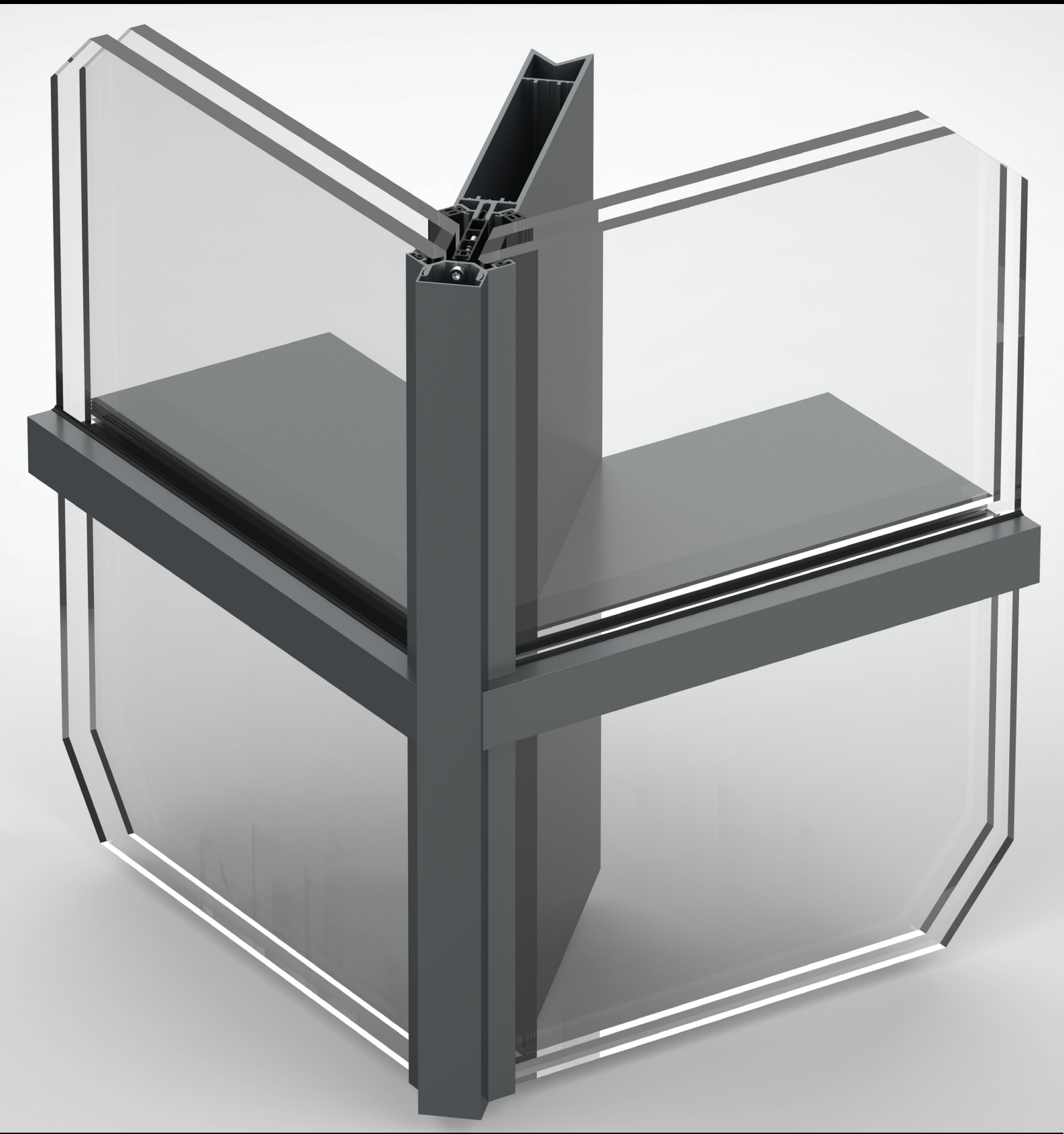


Multiple Depths

Aluminium mullions & transom with multiple depths, meticulously designed to guarantee structural stability and integrity. These versatile profiles are engineered to support different glass sizes and withstand varying wind loads, ensuring reliable performance in diverse applications.

2.8 meter by 5 meter

Large glass panels measuring 2.8 meter wide by 5 meter high offer expansive and impressive views, allowing ample natural light to flood into interior spaces



Single Mullion Profile

Our system is thoughtfully designed with a single mullion profile at the corner, enhancing both aesthetics and providing uninterrupted views. Enjoy the beauty of unobstructed views with our carefully crafted curtain wall system.

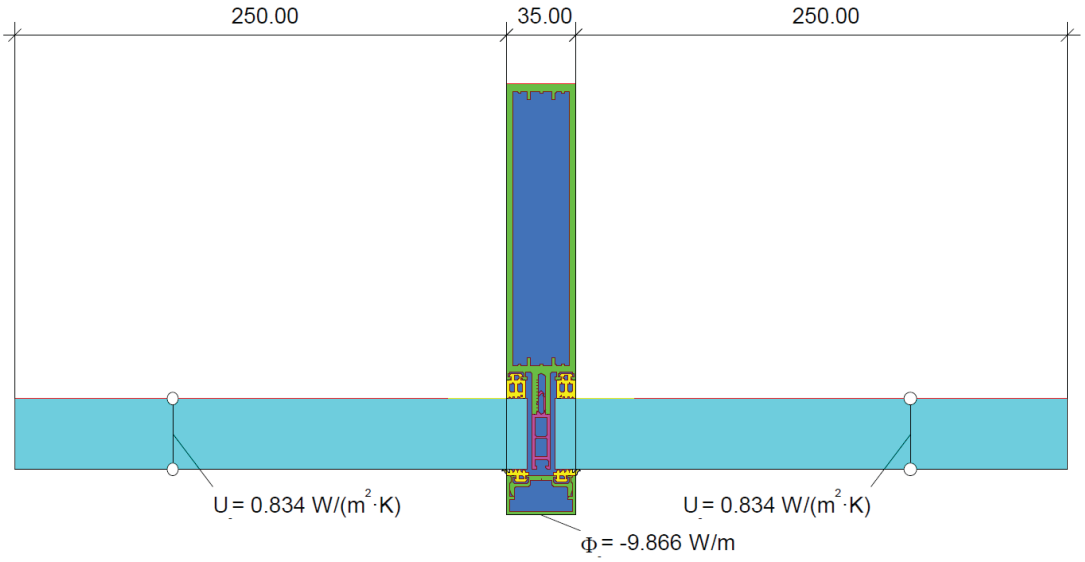
Frame Construction in 3 Levels

The vertical mullions and horizontal transoms are joined at different levels to ensure optimal air and water tightness.

Versatile Integration

Our versatile system seamlessly integrates with our wide range of products, including casement windows, doors, top-hung windows, and pivot doors. This compatibility ensures a cohesive and harmonious architectural solution.

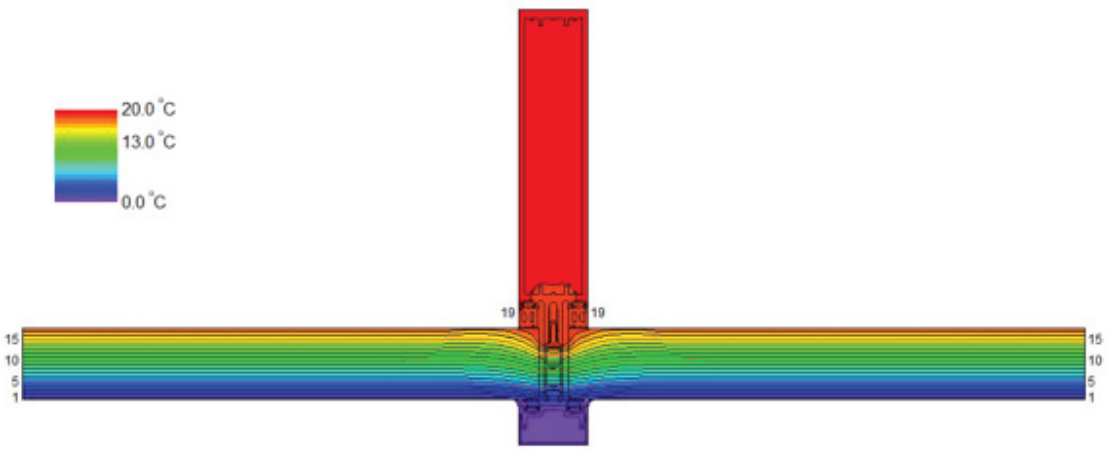
Thermal Perfomance

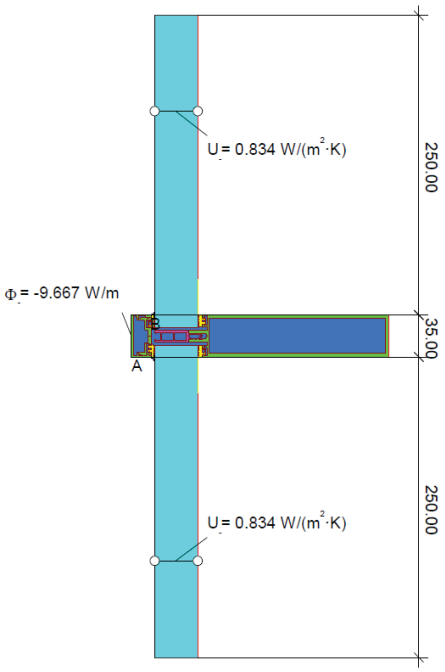


Material	λ[W/(m·K)]	ε
Aluminium (Si Alloys)	160.000	0.900
EPDM (ethylene propylene diene monomer)	0.250	0.900
PU (polyurethane), rigid	0.250	0.900
Panel	0.035	0.900
Unventilated air cavity		

Boundary Condition	q[W/m²]	θ[°C]	R[(m²·K)/W]	ε
Epsilon 0.9				0.900
Exterior, frame		0.000	0.040	
Interior, frame, normal		20.000	0.130	
Interior, frame, reduced		20.000	0.200	
Symmetry/Model section	0.000			

$$U_{f,} = \frac{\frac{\Phi}{\Delta T} - U_{p1}\cdot b_{p1} - U_{p2}\cdot b_{p2}}{b_f} = \frac{\frac{9.866}{20.000} - 0.834\cdot 0.250 - 0.834\cdot 0.250}{0.035} = 2.17\ W/(m^2\cdot K)$$

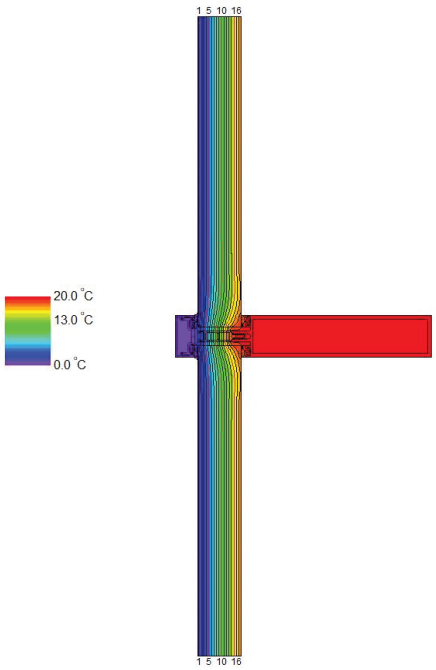




Material	λ[W/(m·K)]	ε
Aluminium (Si Alloys)	160.000	0.900
EPDM (ethylene propylene diene monomer)	0.250	0.900
PVC (polyvinylchloride), rigid	0.170	0.900
Panel	0.035	0.900
Unventilated air cavity		

Boundary Condition	q[W/m²]	θ[°C]	R[(m²·K)/W]	ε
Epsilon 0.9				0.900
Exterior, frame		0.000	0.040	
Interior, frame, normal		20.000	0.130	
Interior, frame, reduced		20.000	0.200	
Symmetry/Model section	0.000			

$$U_{fA,B} = \frac{\frac{\Phi}{\Delta T} - U_{p1}\cdot b_{p1} - U_{p2}\cdot b_{p2}}{b_f} = \frac{\frac{9.667}{20.000} - 0.834\cdot 0.250 - 0.834\cdot 0.250}{0.035} = 1.89\ W/(m^2\cdot K)$$



System Perfomance

EUROPEAN STANDARD

Air Permeability
CWCT SEC 5 : 2005

Water Resistance
(Stactic Pressure)
CWCT SEC 6 : 2005

Wind Resistance
(Serviceability)
CWCT SEC 11 : 2005

Structural Movement
(Seismic)
CWCT SEC 17 : 2005

Water Resistance
(Dynamic Pressure)
CWCT SEC 6 : 2005

Structural Safety
CWCT SEC 6 : 2005

AMERICAN STANDARD

Air Infiltration
ASTM E283 / E283M-19

Static Water Penetration
ASTM E 331-00 (2016)

Structural Performance
ASTM E 330 - 14

Seismic Test
AAMA 501.4 : 2018

Dynamic Water Penetration
AAMA 501.1-17

Structural Safety
ASTM E 330-14

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