

TECHNICAL FEATURES

LEGEND		MULLIONS AND TRANSOMS		UNITIZED	“H” FRAME		
MULLIONS AND TRANSOMS					UNITIZED	STRUCTURAL	
	 SL50	 SL50 HI	 SL60	 SL60 HI	 AW86 B	 SG50 S	 AW86 S
THERMAL TRANSMITTANCE	U _f = 1,8 - 2,6 W/m²K according to EN 13947 and EN ISO 10077-2	U _f = 1,1 - 1,4 W/m²K according to EN 13947 and EN ISO 10077-2	U _f = 1,8 - 2,6 W/m²K according to EN 13947 and EN ISO 10077-2	U _f = 1,1 - 1,4 W/m²K according to EN 13947 and EN ISO 10077-2	**	**	
	U _{cw} = 1,7 W/m²K according to EN 13947 form 1200x1800 mm with Ug = 1,1 W/m2K	U _{cw} = 1,1 W/m²K according to EN 13947 form 1200x1800 mm with Ug = 0,6 W/m2K	U _{cw} = 1,7 W/m²K according to EN 13947 form 1200x1800 mm with Ug = 1,1 W/m2K	U _{cw} = 1,1 W/m²K according to EN 13947 form 1200x1800 mm with Ug = 0,6 W/m2K	U _{cw} = 1,6 W/m²K according to EN 13947 form 1200x1800 mm with Ug = 1,1 W/m2K	U _{cw} = 1,7 W/m²K according to EN 13947 form 1200x1800 mm with Ug = 1,1 W/m2K	U _{cw} = 1,7 W/m²K according to EN 13947 form 1200x1800 mm with Ug = 1,1 W/m2K
ACOUSTIC	R _w = 46 dB (-1;-4) dB Test report ITC CNR 4982/RP/09 form 1230x1480 mm		R _w = 40 dB Test report Istituto Giordano 109621 form 1230x1480 mm		IN PHASE CERTIFICATION	R _w = 44 dB (-1;-3) dB Test report ITC CNR 4748/RP/08	IN PHASE CERTIFICATION
Test results below are based on the following Test reports							
TEST REPORT	Test report ITC CNR 0970/CPD/RP0326		Test report ITC CNR 0970/CPD/RP0117		Test report ITC CNR 0970/CPD/RP0965	Test report ITC CNR 0970/CPD/RP0586	Test report ITC CNR 0970/CPD/RP0964
AIR PERMEABILITY	FIXED ELEMENTS	Class A4	Class A4		 Class AE900+ Class A4-	Class A4	 Class AE900+ Class A4-
	OPENABLE ELEMENTS	Class 4	Class 4		 Class 4	Class 4	 Class 4
WATERTIGHTNESS	RE1500		RE1350		 RE1950	RE1500	 RE1500
RESISTANCE TO WIND LOAD	DESIGN LOAD CONDITIONS	2000 Pa	2000 Pa		 2000 Pa	+1700 Pa -1500 Pa	 +2000 Pa -1600 Pa
	INCREASED LOAD CONDITIONS	3000 Pa	3000 Pa		 3000 Pa	+2600 Pa -2300 Pa	 +3000 Pa -2400 Pa

Facade dimension of 3300 w x 3000 h with top-hung window.
** The calculation of the UTJ depends on the size of the glass.

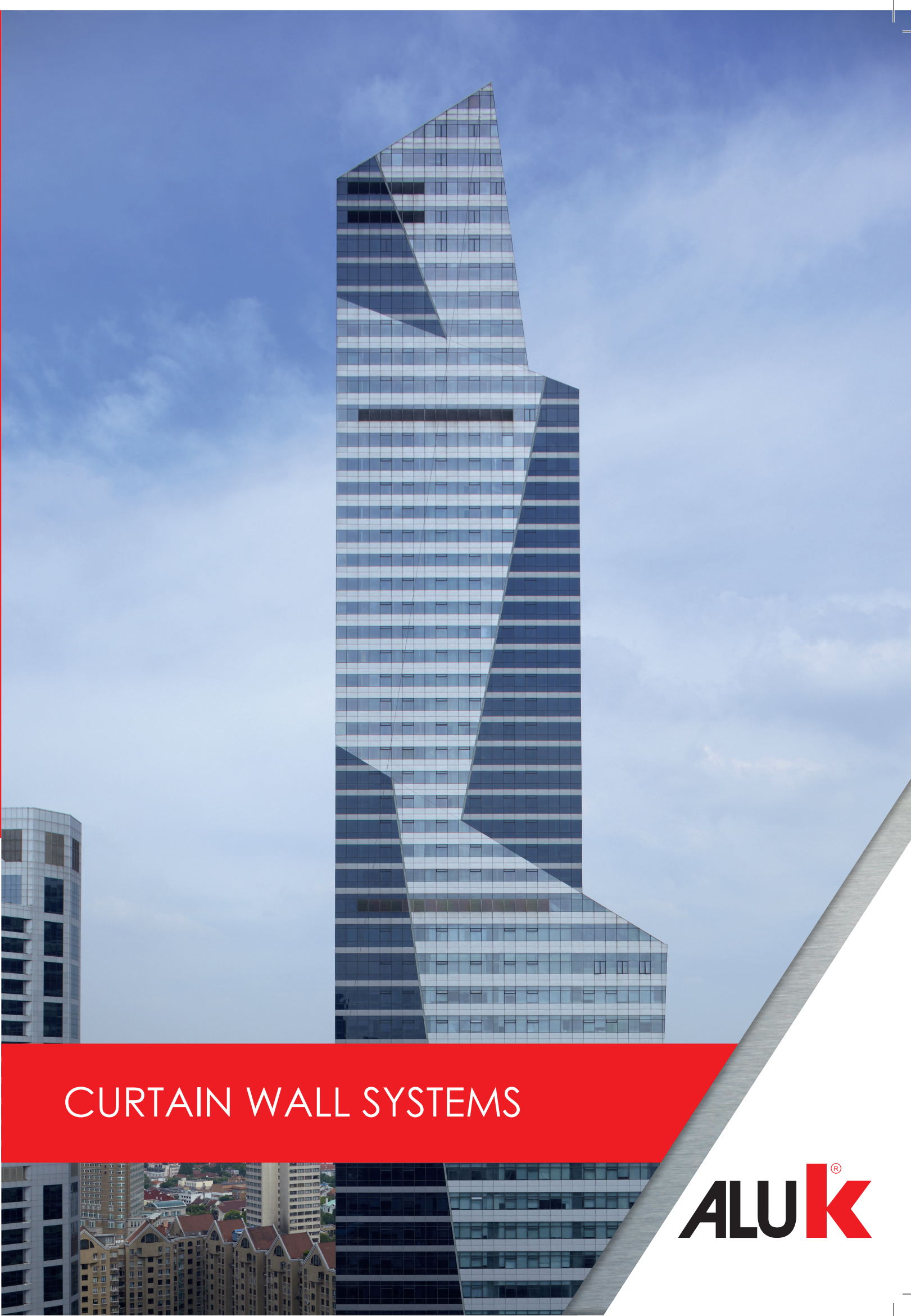


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CURTAIN WALL SYSTEMS





The SL50/60, SG50 and AW86 curtain wall series are the result of AluK brand's years of research and experience, in the glazed aluminium façade sector. A combination of design, technology and high quality components ensures that these series are adaptable to any architectural requirement, combining with aesthetic glass treatments, and resulting in a versatile and customized supporting structure.

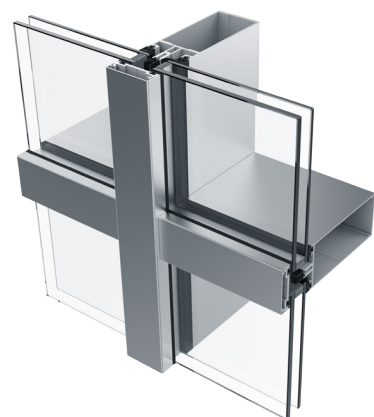
The curtain wall systems ensure thermal and acoustic insulation and durability, according to the strictest norms and standards for energy saving and internal comfort.

MULLIONS AND TRANSOMS

➤ SL60 CURTAIN WALLS – 60 mm

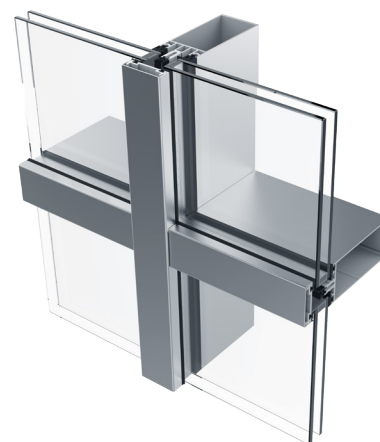
The SL60 series of mullions and transoms have a frontal dimension 60 mm and is designed to achieve vertical curtain walls, sloping facades, roofs, domes, tunnels and polygonal constructions.

The system includes a range of profiles for the construction of the supporting structure with static characteristics suitable for the most stringent design requirements.



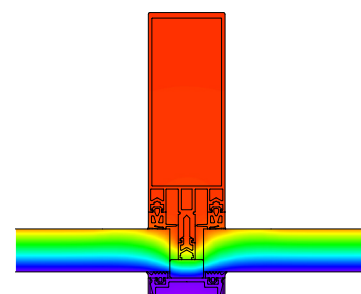
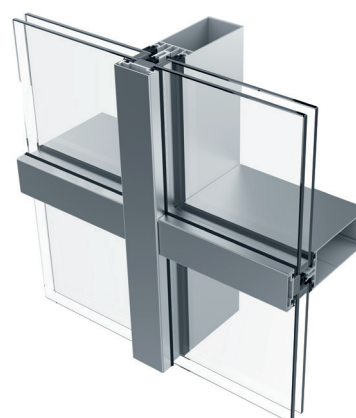
➤ SL50 CURTAIN WALLS – 50 mm

The suite of mullions and transoms with a width of 50 mm are used to install vertical, inclined and polygonal curtain walls and winter-gardens. The series includes a full range of profiles to suit any type of static requirement, wind load, and is a traditional system comprising mullion, transom, pressure plate and cover cap of varying designs. The system permits insertion of projecting windows both with structural glazing and with mechanical retention of the glass infill, and additional opening elements from the AluK range.



➤ SL50/SL60 HI HIGH INSULATION

The SL50 and SL60 HI series are high performing solutions based on the standard SL50 and SL60 systems offering enhanced thermal insulation down to $U_{cw} = 1,1 \text{ W/m}^2\text{K}$. This high thermal performance is achieved thanks to the insertion under pressure of insulating foam inserts, which also reduces convective air movement. These systems also allow the insertion of high insulation opening elements such as windows or doors.



➤ SL50 FP FIRE RESISTANCE 120 Min.

AluK SL50 FP (Fire Proof) solution is a variant of SL50 that offers design flexibility when fire protection is a requirement within the façade construction. This high performing solution offers the same performance as SL50 with the additional provision of fire resistance of up to 150 minutes, enabling safe evacuation of building occupants and preventing fire to spread into the building and adjacent buildings.

■ Fire-resistance classification according to **EN 1364-4 : REI 120** with test terminated without failure at 150 minutes on curtain walling without fire resistant glazing outside the spandrel area.

■ Fire-resistance classification according to **EN 1364-3 : EI30 and EW30**.



UNITIZED AND STRUCTURAL

➤ SG50 STRUCTURAL GLAZING

The SG50 curtain wall employs the same grid of mullions and transoms as the SL50 system, but with a "structural" (all-glass) aesthetics. Attachment of the glass is by means of a mechanically locking component. The system is particularly suited to the construction of curtain walls that incorporate structurally bonded opening elements. To give flexible aesthetic appeal, the system can be used in a full structurally glazed solution or combined with an expressed outer cover in either vertical or horizontal planes.

➤ AW86S/B ARCHITECTURAL CURTAIN WALLS

The AW86 series is mainly designed for the construction of high rise building envelopes where "unitized" frames are produced and glazed in the factory and installed at site by crane without the use of scaffolding. AW86 offers two architectural solutions: the S variant in which the elements of the facade are characterized by the structural bonding of the glazing, and the B variant in which an exterior glazing bead mechanically holds the glass.

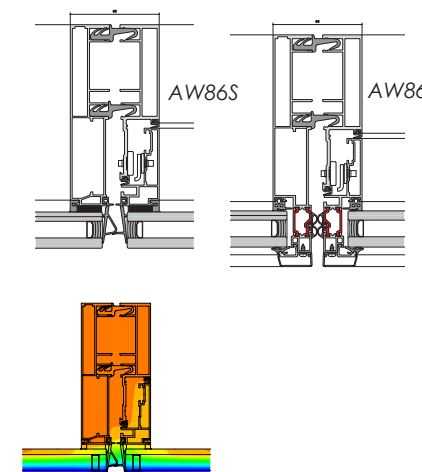
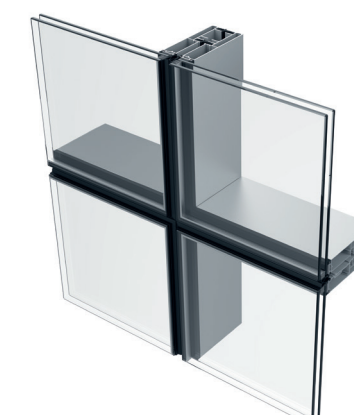
■ AW86S : structurally bonded glazing system

■ AW86B : curtain wall with mechanical retention of insulated glazing unit

The series offers two operable outward opening window options: top hung and parallel opening.

On site, the installation of the "unitized" system enables workers to work from the inside of the building in a total safety, whilst dramatically reducing installation time and ensuring a high quality standard of installed finished components.

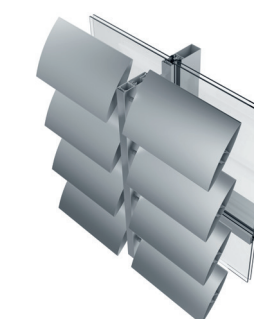
A "Split wall" option is also available. This involves placing a main grid structure, consisting of "H" frames, by means of quick-fastening components.



COMPLEMENTARY PRODUCTS

➤ FRS SUNSHADES

AluK solar protection system has been designed to create sunshades manufactured from aluminium sections. The range is composed of five sections of aluminium extruded profiles with dimensions of 150, 200, 250, 310 and 360 mm, and a complete series for the realization of fixed and adjustable sunshade solutions. Typically used for horizontal and vertical sunshade, both in fixed and motorized option and photovoltaic panels.



➤ FVM VENTILATED CURTAIN WALLS

AluK FVM series is designed to realize building envelopes with substructure in aluminium extruded profiles. The system allows the construction of ventilated opaque curtain walls with aluminium sheet panelling, aluminium composite panels, glass or photovoltaic cells. The pillars of the substructure, 55 mm wide, are available with depths of 35 and 74 mm, depending on the characteristics of the project and specific static needs. AluK FVM system can be easily integrated with all ALUK windows and façade systems.

