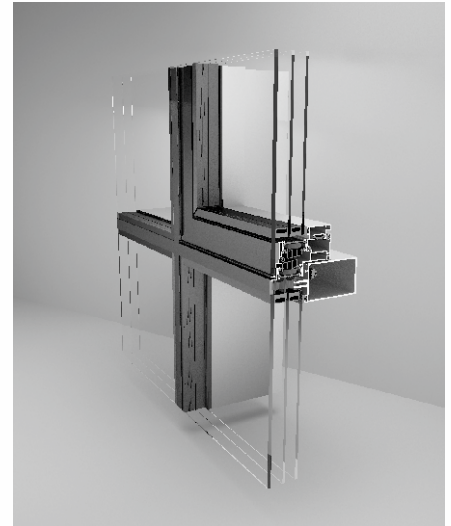
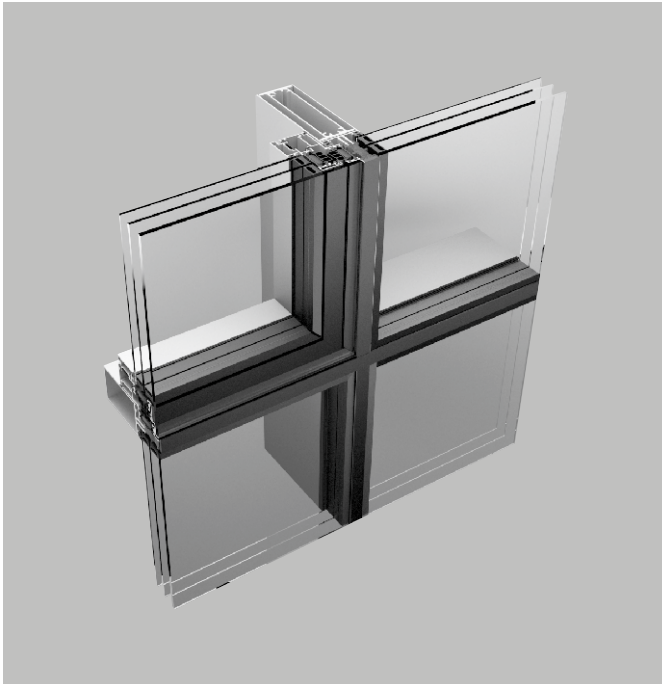




TECHNICAL SYSTEM DESCRIPTION

ALUMINIK CS55 [structural] is one of seven systems within the ALUMINIK CS55 family and represents a thermally insulated curtain wall system developed for the construction of glazed façades with a visible profile width of 55 mm. The system is characterized by a minimalist all-glass appearance achieved through concealed glazing retention, without visible external pressure plates or cover caps. Glass panels are fixed to the primary aluminium mullion-and-transom structure using hidden fastening elements, while joints between adjacent panes are sealed with black structural silicone. Like all systems within the ALUMINIK CS55 family, the Structural façade system is intended for the construction of glazed façades, skylights, and roof lanterns with a minimum roof inclination of 10°.

- Aluminum profiles are manufactured through the extrusion process at Tehnomarket production facilities. The raw material used for profile production is primary aluminum alloy AlMgSi0.5 (AA6063 and AA6060), with a minimum tensile strength of 210 kN/mm².
- Visible profile width of 55 mm with a seamless all-glass exterior appearance.
- Supports double glazing (32–41 mm) and triple glazing (49–58 mm), as well as compatible façade infill panels.
- Concealed glazing retention system with black structural silicone joints for a uniform glazed surface.
- Excellent thermal performance with frame values of up to $U_f = 0.8 \text{ W/m}^2\text{K}$ and curtain wall performance up to $U_{cw} = 0.79 \text{ W/m}^2\text{K}$.
- Integrated structural opening vents maintain a consistent façade appearance without visible differences between fixed and operable fields.
- Supports single-glazed parapet zones or insulated parapet configurations depending on project requirements.
- Maximum transparency and daylight penetration through minimized visible aluminium components.
- Suitable for glazed façades, skylights, and roof lanterns with a minimum inclination of 10°.