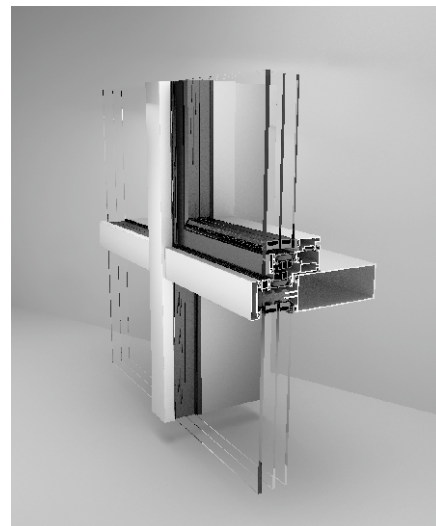




TECHNICAL SYSTEM DESCRIPTION

ALUMINIK CS55 [continual] is one of seven systems within the ALUMINIK CS55 family and represents a thermally insulated curtain wall system specifically developed for the construction of glazed façades with a visible profile width of 55 mm. The system is characterized by clearly defined horizontal and vertical façade lines created by external pressure plates and cover caps, which secure glazing units to the primary aluminium mullion-and-transom structure. Like all systems within the ALUMINIK CS55 family, the Continual façade system is intended for the construction of glazed façades, skylights, and roof lanterns with a minimum roof inclination of 10°, offering a reliable solution for contemporary commercial, public, and residential buildings.

- 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 mullion and transom depths ranging from 50 mm to 150 mm depending on structural requirements and static calculations.
- Carefully selected insulation materials and an optimized profile design provide excellent thermal performance, achieving frame values of up to $U_f = 0.7 \text{ W/m}^2\text{K}$ when used with triple glazing configurations.
- Supports single glazing (6–12 mm), double glazing (28–41 mm), triple glazing (47–60 mm), as well as a wide range of compatible façade infill panels.
- Dedicated reinforcement profiles increase the moment of inertia, enabling values exceeding $I_x = 1100 \text{ cm}^4$ and allowing large spans without the need for secondary steel reinforcement.
- Opening elements are integrated as structural vents, available in top-hung or parallel-opening configurations, maintaining a uniform façade appearance without visually distinguishing operable and fixed fields.
- The system allows seamless integration of standard tilt-and-turn windows, balcony and entrance doors, as well as automatic sliding and sliding-folding door systems.
- Thermal insulation thickness within parapet zones ranges from 50 mm to 150 mm, while single-glazed parapet configurations can be implemented without additional insulation layers.
- Multiple cover cap designs are available to achieve different architectural expressions, including rectangular, oval, accentuated, and semi-structural façade appearances.