



TECHNICAL SYSTEM DESCRIPTION

The SLIDE T45 system is Tehnomarket's thermally broken aluminium sliding solution, developed for the fabrication of sliding and lift-and-slide elements ranging from standard dimensions to large glazed openings. Designed for contemporary residential and commercial applications, the system combines reliable thermal performance with outstanding design flexibility, offering a wide range of configurations for sliding windows and balcony doors. Its slim profile geometry enables the creation of expansive glazed surfaces that maximize natural daylight and enhance the visual connection between interior and exterior spaces. The system supports both two-track and three-track configurations, accommodating opening schemes ranging from two to six sliding sashes. An optional external sliding insect screen can be integrated into the system, while 45 mm deep sliding sashes can be equipped with either conventional sliding hardware or advanced lift-and-slide mechanisms, ensuring smooth operation, improved weather sealing, and enhanced user comfort.

- Aluminium profiles are manufactured in Tehnomarket's own extrusion facility using primary aluminium alloys AA 6060 and AA 6063 (AlMgSi0.5), ensuring consistent quality, structural integrity, and long-term durability.
- A 32 mm polyamide thermal break (PA 6.6 reinforced with 25% glass fibres) mechanically connects the inner and outer aluminium profile sections while significantly reducing thermal conductivity. The shear strength of all thermally broken profiles is continuously monitored and controlled throughout the production process.
- The system is based on frame profiles with an installation depth of 106 mm in two-track configurations and 167 mm in three-track configurations, combined with a 45 mm deep sash profile.
- Fixed and sliding sashes support glazing configurations and infill panels from 24 mm to 30 mm in thickness.
- The system is compatible with both sliding and lift-and-slide hardware solutions from the renowned manufacturer Giesse.
- Excellent weather sealing and security are achieved through membrane brush seals in sliding configurations or EPDM gaskets in lift-and-slide applications.
- The system supports up to six sliding sashes with maximum sash dimensions of 2400 × 2400 mm.
- An optional sliding insect screen can be installed on a dedicated independent outer track for enhanced user comfort and functionality.