

Insulated Sectional Overhead Doors

Steel-polyurethane-steel panel doors for industrial openings

Sectional doors built from insulated panels that run up vertical tracks and fold under the ceiling. Where a roller shutter is chosen for cost and headroom, a sectional door is chosen for thermal performance, wind resistance and cycle life — which is why the panel thickness and the U-value are the two numbers that get specified first.

Panel thickness

Market	Panel thickness	Notes
Europe	40 mm and 80 mm	Multi-rib joint profile between sections
North America	1 in. (25.4 mm), 2 in. (51 mm), 3 in. (76 mm)	Steel-polyurethane-steel, 3-layer construction

Performance commonly quoted

Construction	Pre-painted galvanised steel skins with a foamed-in-place polyurethane core; steel skin around 0.35 mm
Thermal	U-factor around 0.10 – 0.20 W/m ² K for the thicker panels; R-value and U-factor are quoted by the door manufacturer
Opening sizes	Up to roughly 11 m wide and 7 m high for standard systems — confirm for the drive and panel chosen
Operation	Manual, chain hoist or powered; powered doors bring safety devices into scope
Safety details	Joint profile designed against finger entrapment; spring breakage and entrapment protection on powered doors

U-value, wind class and cycle rating belong to the complete door assembly, not to the panel alone — they are declared per door against the product standard. Tell us the opening, the wind class and the number of cycles.

Standards referenced

EN 13241 (industrial, commercial, garage doors and gates — product standard; harmonised under CPR 305/2011 with CE marking, UKCA in Great Britain) · EN 12424 (wind load resistance classification) · EN 12453 (safety in use of power-operated doors) · EN 12426 / EN 12444 (air permeability and resistance to wind load, testing) · EN 10346 (coated steel for the skins)

Need a quote? Send the opening size, panel thickness, drive type, wind class and number of doors.

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