



HEM PROJECTS

Defender Safeguard

High quality bespoke steel doorsets

Safeguard is our bestselling, 'stronger than standard' doorset, providing superlative performance and protection for every environment





Thermally Rated



Acoustic



DDA Compliant

The Defender Safeguard is our flagship bespoke steel door system—stronger as standard and fully customisable for any application.

Precision-engineered from 1.5mm galvanised steel with a mineral wool core and internal steel reinforcements, it delivers unmatched durability.

Door Leaf

- Anti-jemmy flange on the leading edge (square edged option available)
- 1.5mm galvanised steel (upgrades: 2.0mm galvanised or 1.5mm stainless steel, 304/316)
- Weld-free construction prevents premature failure
- Mineral wool core with internal strengtheners (chipboard upgrade for added strength).

Frames

- 90mm single rebate frame in 2.0mm galvanised steel (stainless option available)
- Custom dimensions and alternative profiles (double rebated, face-fixed, ModuleX integral cloaking and more)
- Bolted corners for strength
- Threaded adjusters for easy installation (16+ fixings). Optional plain fixing plates
- 3mm steel hinge brackets
- Insulated frames available.

Thresholds

- Standard DDA-compliant chamfered profile in 2mm stainless steel
- Options: raised/extended cills, inward-opening profiles with drainage, 4mm ramped design
- Integrated removable thresholds available.

Seals

Tubular silicone rubber seal bonded into frame for optimal weather, thermal, and acoustic performance.

Hardware

- Stainless steel ball bearing hinges (4+ per door, with security dogbolts)
- Hinge upgrade options: concealed bearings, special finishes, fully concealed, heavy-duty continuous hinges
- Extensive hardware range: locks, latches, handles, panic hardware, closers, and stays. Custom hardware integration available.

Thermal Performance

Standard U-value: 2.2 W/m²K (upgradeable to 1.4 W/m²K with Thermaguard Technology).

Acoustic Option

Acoustic rated option available.

Vision Panels & Louvres

- Custom-sized vision panels in rectangular, square, or round styles
- Single, double, or triple glazed options with privacy films, blinds, and obscure glass

- Louvres: medium-duty aluminium or heavy-duty steel (150mm to full-door).

Over Panels & Side Panels

Designed to expand openings, these panels integrate seamlessly with Defender Safeguard doorsets

- Removable overpanels/transoms: Ideal for periodic access (e.g. large machinery)
- Glazed panels: Single or double glazed with weathertight wedge-gasket seals
- Louvred panels: Medium-duty aluminium or heavy-duty steel cassettes (optional insect/rodent mesh).

Finishes

- Powder coated in any RAL colour (marine-grade option available)
- Special finishes: textured, metallic, and woodgrain effects for a premium look.

Structural opening sizes (mm)*

	Max width	Max height
Single leaf	1470	3800
Double leaf	2860	3800

* Based on a 33mm wide frame. For oversized doors, please enquire.

