













The Defender Thermaguard doorset has been developed to meet the increased demands for energyefficient buildings as part of a greener future.

The Defender Thermaguard doorset uses a range of design innovations that reduce the U-value of a typical single doorset to as low as 1.4 W/m2K, meeting the latest requirements of the Building Regulations Part L in England, Scotland and Wales. Defender Thermaguard is accredited by a UKAS approved company as defined by the requirements of BS EN 10077-2:2017.

## **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)
- 60mm depth minimum door leaf to achieve a U-value of 1.5 W/m2K
- 70mm depth minimum door leaf to achieve a U-value of 1.4 W/m<sup>2</sup>K.

# **Frames**

- 110mm depth minimum door frame to achieve a U-value of 1.5 W/m2K
- 120mm depth minimum door frame to achieve a U-value of 1.4 W/m2K
- Bolted corners for strength
- Threaded adjustors for easy installation (16+ fixings). Optional plain fixing plates
- 3mm steel hinge brackets.

## **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

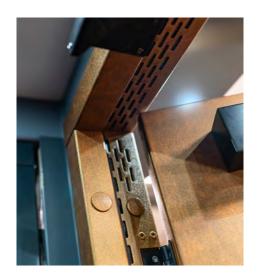
Tubular silicone rubber seal bonded into frame for optimal weather, thermal, and acoustic performance.

# **Hardware**

- Stainless steel ball bearing hinges (4+ per door, with security dogbolts)
- 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.

# **Fire Rated Option**

Fire ratings up to 120mins available as an upgrade with this doorset.



## **Thermal Performance**

1.5 W/m2K or 1.4 W/m2K values achievable with this doorset, dependant on requirements.

# **Acoustic Option**

Acoustic rated option available (requires automatic drop seal).

## **Vision Panels**

- Custom-sized vision panels to meet requirements
- Triple glazed options with privacy films, blinds, and obscure glass.

## Over Panels & Side Panels

- Removable overpanels/transoms: Ideal for periodic access (e.g. large machinery)
- Glazed panels: Triple glazed with weathertight wedge-gasket seals.

## **Finishes**

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

