

1. Scope

- Single outward opening doorsets
- Double outward opening doorsets
- Single inward opening doorsets
- Double inward opening doorsets

2. Sizing

All sizes shown are structural sizes in mm.

| Variant | Min Height | Max Height | Min Width | Max Width |
|---------------------------------|------------|------------|-----------|-----------|
| Single outward opening doorsets | 1775 | 2950 | 300 | 1470 |
| Double outward opening doorsets | 1650 | 2950 | 1050 | 2830 |
| Single inward opening doorsets | 1775 | 2950 | 300 | 1470 |
| Double inward opening doorsets | 1650 | 2950 | 1050 | 2830 |

Note:

- Leaf and a half doorsets are available, with a minimum active leaf width of 800mm, and a minimum passive leaf width of 400mm.
- Side and/or over panels can be used in a modular fashion to secure larger openings.

3. Locking Options

General purpose:

- Union deadlock
- Union sashlock
- Emergency escape sashlock
- 5 level deadlock
- MICO rimlock
- Union night latch
- Codelock series no. 525 with lever handle (pair)
- Borg keypad series no. 5401
- 14 point locking
- Trimec electric strike and union night latch
- 272kg magnetic locks
- Solenoid bolts

Panic escape:

- Briton 1438E push pad with single point latch
- Briton 378E single point panic bar
- Briton 378E 2 point vertical bars
- Briton 376E and 378E 3 point panic bar
- CORNI single point locking panic latch
- CORNI 3 point locking panic latch
- CORNI 5 point panic hardware

4. Additional Options

- Vision panels (standard sizes in mm are 203x356, 203x762, 457x457)
- Punched and/or bladed louvre cartridges
- Range of stays and closers (Dorma TS72, Dorma TS83, Briton 2130, Geze TS4000)

- Fixed side panels
- Fixed/removable over panels
- Hinged over panel

5. Fire Rating

M2M+ doors are available with a fire rating of up to FD240, providing integrity fire resistance for up to 240 minutes, certified by Exova under the CERTIFIRE scheme (certificate number CF5108).

Note:

- Doors fitted with hinged or removable over panels are not fire rated.
- Louvres must be fire rated, and will decrease the fire rating to FD120.

6. Acoustic Rating

Tested by Lorient to BS EN ISO 101402: 2010, certain M2M+ doors are available with acoustic ratings from Rw28 to Rw40, providing 28dB to 40dB of noise reduction, depending on specification.

7. Leaf Construction

- Leaf thickness – 45mm
- Leaf material – Outerskins 1.2mm THK Zintec or stainless steel, or 1.5mm THK Zintec, stainless steel or Magnelis
 - Protected by a minimum of 7no. dog bolts per leaf
- Astragal – 10mm steel astragal

8. Frame Construction

- Frame profile – 90mm deep (150mm option available)
- Frame material – 1.5mm THK Zintec, stainless steel, or Magnelis
- Construction method – Butt jointed frame sections, as standard
 - Fully welded frame available at an extra cost
- Threshold – Steel or aluminium options available

9. Standard Details

- Finish – Polyester powder coated, as standard
 - Wood effect finish available at an extra cost
- U'value – Up to 1.9W/m²K
- Weight – Circa 45kg/m²