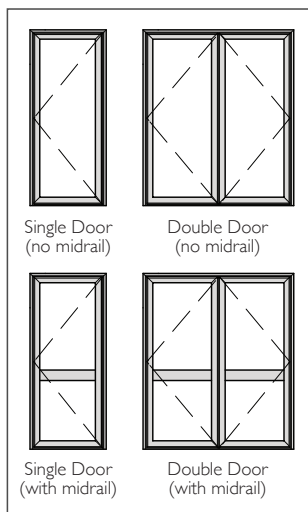


Technical Specification

Thermal Rebate Door System



The Kestrel Thermal Rebate Door is designed for residential and light commercial use. The suite of profiles will allow construction of single and double door types. The system is internally beaded as default. An externally beaded door leaf could be constructed if required by simply reversing the stiles/rails.

Designed as part of our residential suite of products the rebate door system utilises the same profiles to offer commonality of design. Fixed sidelights or fan lights can be incorporated into the design offering the option for increased ventilation and natural light. The system is suitable for use as either an entrance door to the home or as French doors leading to the garden. Doors can be single or double, opening in or out, to meet the project specification.

Design Options

- Single or dual colour
- Open in or out
- Single or double doors
- Threshold and cill options
- Midrail options
- Hardware to mirror Folding Sliding Door

Performance

- Thermal transmittance: 1.6 W/m²K
- Water tightness: 100 pa
- Air permeability: 300 pa
- Wind resistance: 1200 pa

TECHNICAL SPECIFICATION

| | | |
|--------------------------------|---|--------------------|
| Application | Residential new build, refurbishment and light commercial. | |
| | Single Door | Double Door |
| Maximum door leaf width | 1000mm | 1000mm |
| Maximum door leaf height | 2700mm | 2700mm |
| Maximum door leaf weight | 100kg | 100kg |
| Joining | Mechanical | |
| Internally beaded option | Yes | |
| Glazing options | Will accept insulating glass units and infill panels 28 – 32mm thick | |
| U-Value | 1.6 W/m ² K | |
| Finishes | <p>Mill finish.</p> <p>Etched and anodised Silver AA25 or colours on request.</p> <p>Polyester powder coat paint. See separate list for standard colour range available.</p> | |
| Performance | <p>Thermal transmittance: 1.6 W/m²K</p> <p>Water tightness: 100 pa</p> <p>Air permeability: 300 pa</p> <p>Wind resistance: 1200 pa</p> | |
| Single or dual colour profiles | Option | |
| Design standards | <p>BS EN 12020-2:2001 <i>Aluminium and aluminium alloys, extruded precision profiles.</i></p> <p>BS 3987:1991 <i>Specification for anodic oxide coatings.</i></p> <p>BS EN 12206-1:2021 <i>Paints and varnishes, coating of aluminium and aluminium alloys.</i></p> <p>BS 4873:2016 <i>Specification for aluminium alloy windows and doorsets.</i></p> <p>BS EN 14351-1:2006+A2:2016 <i>Windows and doors, performance characteristics.</i></p> <p>BS EN ISO 10077-2:2017 <i>Thermal performance of windows, doors and shutters.</i></p> <p>PAS 24:2016 <i>Enhanced security performance requirements for doorsets and windows.</i></p> | |

The system is designed to accept, 24mm or 28mm thick (DG) IGU's or infill panels



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