

construction of the discovery & designer door

Door Slab

Each door is constructed to its individual bespoke dimensions. The structural integrity of each size of door is always maintained. Door surfaces are manufactured from Gel- Coated Glass Reinforced Plastics or from High Performing Thermoplastics. These skins are bonded to an internal frame which combines a BBA approved laminated engineered timber with a specially designed thermoplastic edge. The adhesive used ensures that the bond is strong but pliable enough to enable the door to withstand the stress created by the elements and through day to day use. The core is a high-density polyurethane foam (CFC & HFC free, ozone depletion potential zero). Finally a steel mesh is incorporated into the door (only on external thermoplastic options) giving provision for enhanced security.

Frame & Threshold

A specially designed 70 mm extruded PVCu frame incorporates a double rebate within the profile which offers an internal flush appearance. The aluminium threshold works with the frame to provide an effective seal as well as meeting the regulation requirements for mobility access.

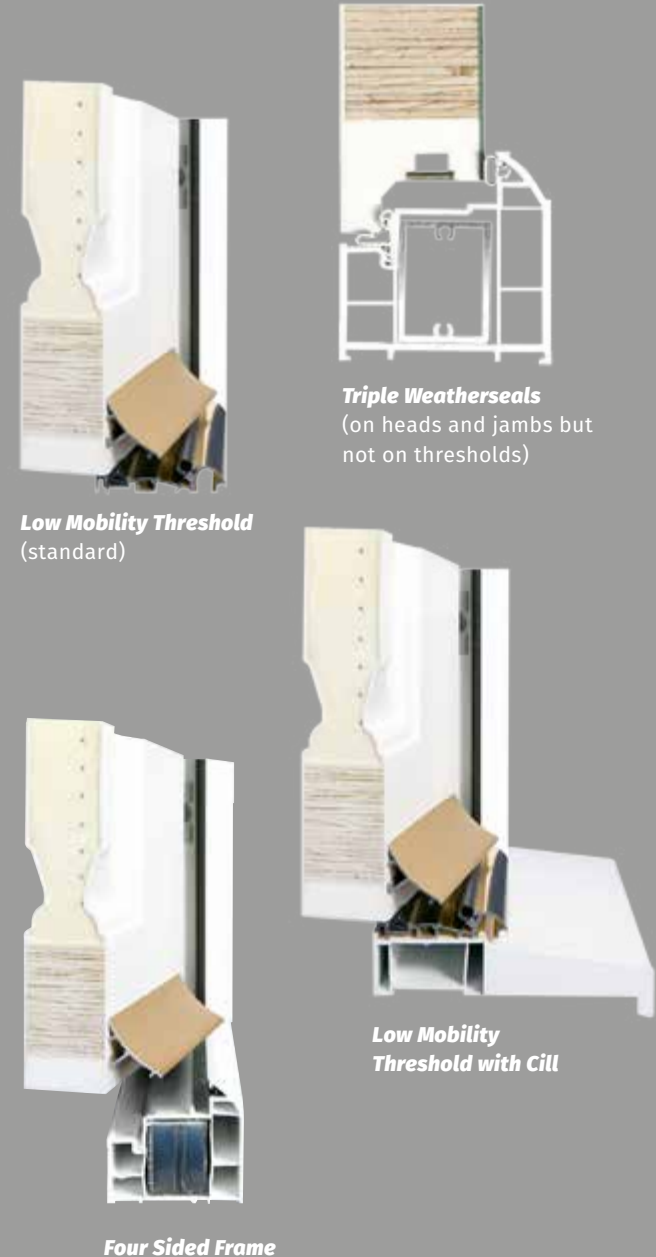
Glazing & Cassette

28mm toughened sealed units secured between a two part moulded frame with sealing to the door face and glass surface. Screws from the inside attach the inner and outer frames. Screw heads are hidden with a moulded plug.

Glass

Laminated glass is available as an option for high risk security. Improved thermal performance can be achieved by using 'low emissivity' glass or triple glazing.

CONSTRUCTION OF THE DISCOVERY & DESIGNER DOOR



performance & security



The whole philosophy of the Discovery Door Range has been built around performance achieved through testing. The materials used in the construction of the door have been individually tested to ensure long term performance. The use of the triple seal coupled with an effective threshold ensures exceptional weather performance.

Security features include a multipoint locking system, dog bolt hinges, tough polyurethane core, reinforced where necessary with steel mesh, all as standard with other features as options.

The specially formulated Glass Reinforced Plastic and Thermoplastic skin materials have been developed to promote UV stability, high thermal shock and scratch resistance, providing an effective barrier for the door.

ISO 9001:2008 – KM 55745

As one would expect, such a product has been manufactured under the British Standard quality assurance system.

BSI Kitemark Licence - KM 506343

The door has been externally tested and has passed the general performance requirement for door assemblies as required under PAS24-1 and PAS 23-1 - 1995 (including annex D covering thermal cyclic tests). PAS24:2016

Secure by Design

Being a licence holder for the prestigious 'Secure by Design' assures the effectiveness of the Discovery Door Range.

Glazing

Sealed glazing units have been manufactured to the European Standard of EN1279 using toughened glass manufactured to BS EN 12150 1.

ACDM

As a member of the association of composite door manufacturers, we are committed to continually improving the testing standards to ensure longevity of the product.

Three adjustable 'dog bolt' hinges, which effectively secure the door leaf to the outer frame when in a closed position.

Glazing cassette incorporating 28mm toughened glass sealed unit.



Multipoint locks with latch and a choice of lever or pad handles.

Laminated timber sub-frame sealed with a specially designed thermoplastic edge incorporating a steel reinforcement mesh (used on external thermoplastic skins only) embedded in the polyurethane foam core.

PERFORMANCE & SECURITY