

INSULATED SECTIONAL OVERHEAD DOORS

Panels

Kingspan 610mm wide x 40mm thick composite panels manufactured using 0.5mm thick hot dipped coated (to BS EN 10147) steel internal and external facing sheets bonded to a 39mm thick core of CFC free rigid expanded polyurethane foam. The panel itself gives a "U" value of 0.45 W/m² K, meaning that a typical 4,000 x 3,500 (W x H) door fitted and tested gives a "U" value of 0.9 W/m² K when installed, and has a formed tongue and grooved hinged joint incorporating a neoprene seal running the full length of the panel to give excellent weather resistance. This value exceeds current building regulation requirements. Each panel is fitted with galvanised steel end cassettes at each end with adjustable roller carriers and rollers. The rollers generally have a steel shaft, Nylon running surface and ball race bearing. Each door panel is connected to its adjoining panel by means of side hinge roller carriers and intermediate hinges at approximately 1000mm centres.

Panel Finishes

Standard:

White Polyester Stucco embossed to inside and outside face of door of Door.

Optional:

HP/S200 Colorcoat Plastisol/Scintilla finish to the external face in any standard colour (subject to availability).

Springs

Springs calculated and manufactured to suit the weight of each door are mounted onto a 25.4mm (1") solid bright mild steel (EN3B) shaft and secured to the structure by galvanised steel bearing plates. The number of springs and plates varies according to the size of the door - we recommend that a full width RSC be installed (usually by others) to accept these. The shaft ends are fitted with grooved aluminium conical cable drums on which the operating cables run.

Seals

Flexible Black Neoprene seals are fitted to the top, bottom and sides of each door. The top seal compresses against the lintol and the bottom seal has three points of contact with the threshold.

Tracks

Constructed from "J" type (designed to give free and easy running for bearing rollers) 2mm thick cold rolled galvanised steel purpose made channel sections which are preformed in pairs to ensure to ensure smooth operation. The tracks are secured in the opening structure by galvanised steel vertical support angles and from the roof structure by fixing hangers. Spring buffers are provided to the rear of the tracks to ensure that operating cables are always tensioned. Several track configurations are available including Standard Lift, Low headroom, High Lift and Full Vertical lift.

Furniture

As standard, all manually operated doors are fitted with a Footstep Handle and a spring loaded shoot bolt located at the right hand inside face of the door. Safety features such as Cable and Spring break devices are now fitted as standard.

Operation

Manual self coiling (push up/pull down) for doors with a maximum size 3000mm wide x 3000mm high. Doors in excess of this size can be operated manually via endless sherardized hand chain through reduction gears or electrically via 240v single phase or 415v three phase external motor units with manual override for use in the event of power failure.

Optional Extras

Various control and safety systems for electrically operated doors including UHF remote control, high security key-switches, digital entry keypads, inductive loops, safety edges and photo electric safety beams. Double glazed acrylic vision panels of various sizes, shapes and designs. Integral independent wicket pedestrian doors (where size permits) with mortice Europrofile locks and lever handles.



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