

# SECTIONAL OVERHEAD DOORS



Our insulated sectional overhead doors consist of individual door panels which give the door both its structural and thermal characteristics. The panels are constructed as follows:

## **Outer and Inner Skins**

Both outer and inner skins are 0.5 mm hot dipped galvanised steel with 'V' grooves to provide increased lateral strength. The whole panel is made-up to form a 'T & G' joint top and bottom.

The outer skin is finished and coloured to match most contemporary building and cladding finishes – please see separate leaflet for finish and colour information.

The inner skin is finished in RAL 9010 white, polyester coated stucco embossed galvanised steel as standard.

Reinforcing strips are fixed internally to ensure secure fixings for the roller carriers and hinges.

## **Insulated Cores**

The individual cores are 39 mm thick rigid polyurethane foam with a density of 40kg/m<sup>3</sup>.

## **Thermal Seals**

A factory fitted, low density, compressible foam is used at the base of each panel and PVC tape is added to each panel nose so that thermal integrity is maintained.

## **Options**

Double glazed acrylic panels in a variety of sizes can be supplied as additional extras.

A range of locking systems are available, as is the option to include an 800 mm x 1800 mm inset wicket door, complete with cylinder lock.

The sectional door panels provide high levels of insulation. The foam cores between the inner and outer steel skins of the door panels provide effective interruption of cold bridges and prevent transmission of both heat and cold.

Quality materials and precise manufacturing controls ensure a long service life in normal industrial and commercial applications. All our insulated door panels conform to or exceed the building regulations requirements for industrial doors.



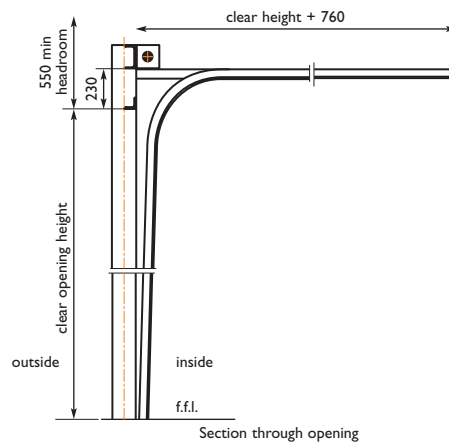
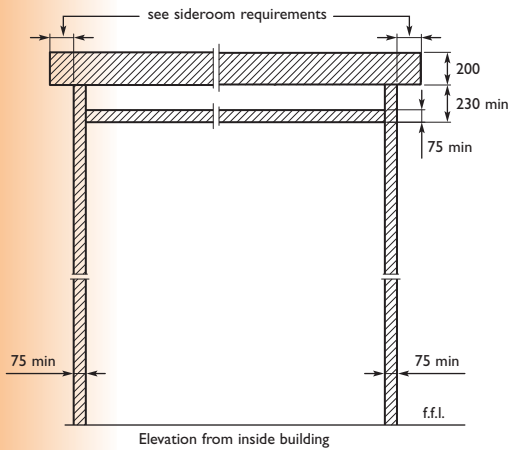
## **REGIONAL DOORS & SHUTTERS LTD**

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# STRUCTURAL AND THERMAL INFORMATION

## STANDARD LIFT TRACK



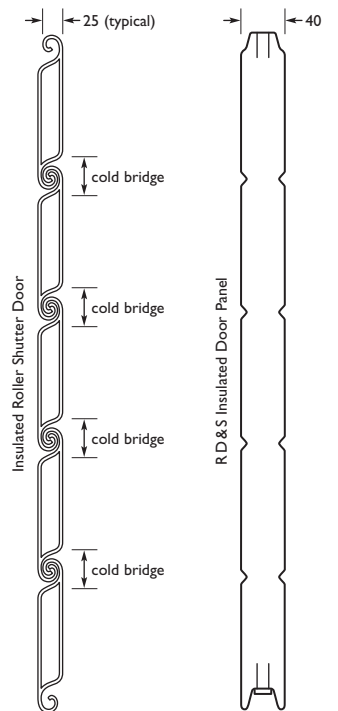
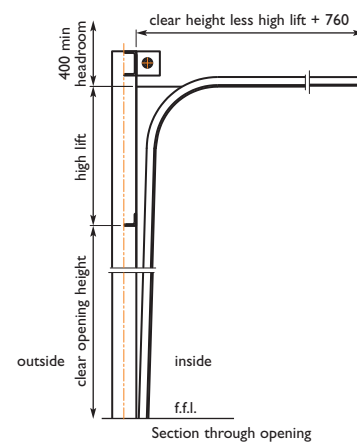
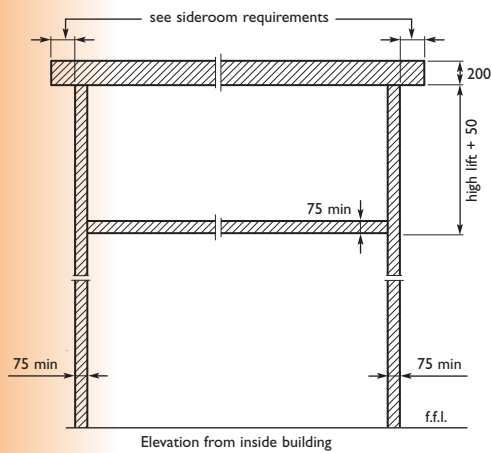
**Please Note**  
The fixing faces of all doors (shown hatched) must be flush and in the same plane

**Standard Lift, High Lift and Vertical Lift Track Sideroom Requirements**

Push up doors (up to 3000 x 3000)	150	150
Chain hoist doors	350	150
Electrically operated doors	400	150

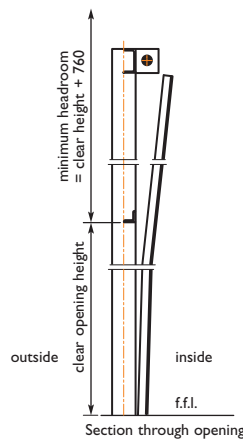
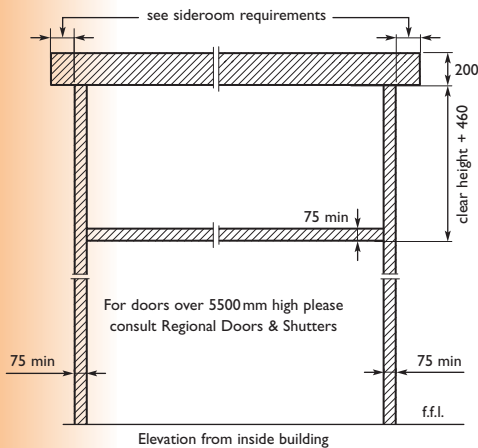
## Sectional Overhead Door and Roller Shutter Door Thermal Characteristics Comparison

## HIGH LIFT TRACK



Insulated sectional overhead doors give guaranteed high thermal performance, avoiding the cold bridging problem that is associated with traditional roller shutter doors.

## VERTICAL LIFT TRACK



The roller shutters contain little over half the thickness of insulation of sectional overhead doors and the areas indicated show where there can be no internal insulation of the roller shutter door and cold bridging can occur.

These areas without insulation can represent as much as 30% of the total door area.

The sectional overhead door panels that we supply have a thermal insulation performance that is greater than that require by building regulations.

## LOW HEADROOM LIFT TRACK

