

# Insulated Sectional Door



Generally constructed of a 40mm insulated panel, with Plastisol or PVF2 external finish and white stucco internal finish. Complete with bottom weather seal/side seals and top seals as standard.

Operating options include push up/haul chain or three/single phase electric motor. Lifting system include standard lift/high lift or vertical lift. Extras include Vision panel/wicket gate.

## Composition

The use of quality materials and precise manufacturing controls ensure long service life in normal industrial and domestic applications. All Insulated Door Panels conform to the Building Regulations requirements for Industrial Doors, and the durability of finishes are those specified by Arcelor technical specifications department.

## Outer and inner sheet steel

- 0.5mm hot-dip galvanised steel to BS EN 10147: 1992 (specification for continuously hot-dip zinc-coated structural steel sheet and strip) grade Fe E220G, coating weight 275g/m<sup>2</sup>
- Core: 39mm and 79mm thick rigid polyurethane foam, density 40kg/m<sup>3</sup>
- Seal: Low density compressible foam, factory applied. Outer and inner sheet aluminium
- 0.6mm thick aluminium grade 3004H44 to both sides.
- Core: 39mm and 79mm thick rigid polyurethane foam, density 40kg/m<sup>3</sup>
- Seal: Low density compressible foam,



## Thermal bow

Due to the excellent thermal properties of our door panels, consideration needs to be given to the temperature differential that exists between the internal and external faces. The effect known as thermal bow is of no concern in terms of structural performance.

It does however require consideration on clearance and deflection. For application for wide doors and dark colours please contact our technical department.



**BI-FOLD ROLFE LTD**  
*Industrial Door Specialist*

---

UNIT 4, CALCOT MOUNT, CALCOT LANE, CURDRIDGE, HAMPSHIRE SO32 2BN  
Tel: (01489) 780099 Fax: (01489) 780090  
E-Mail: sales@bifoldrolfe.com www.bifoldrolfe.com

## Durability

The use of high quality materials and precise process control means that long service life can be expected in most industrial and commercial applications.

## Colours and finishes

Steel outer sheet: can be finished in Plastisol or Architectural Polyester. Plastisol colours have a leather grain finish. Polyester finishes are all stucco embossed as standard.

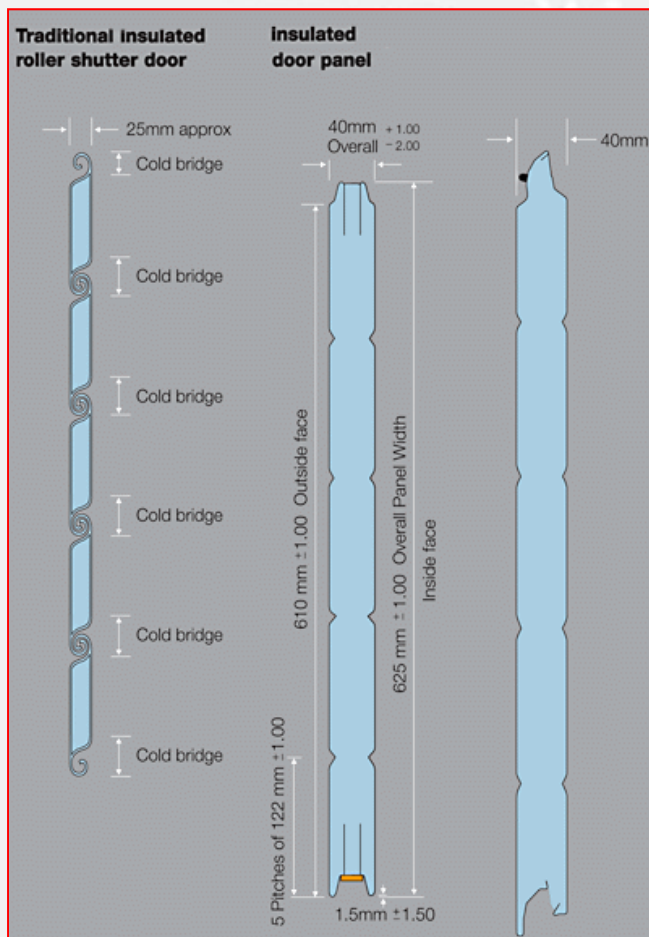
Aluminium outer skin: mill finish, stucco embossed as standard. Colour availability subject to minimum volume.

Inner skin: finished in white, polyester coated, stucco embossed galvanised steel as standard. A separate list and samples watch of the current colour

## Fire resistance

The facing materials used on composite panels, when tested independently, have a Class 1 surface spread of flame to BS 476: Part 7: 1971, and Class 0 as defined by the Building Regulations 1985. Thermal comparison Traditional insulated roller shutter door insulated door panel 40mm

## Thermal Comparison



Areas indicated where door is uninsulated and subject to cold bridging













This can be up to 30% of the door area. Also thinner layer of insulation.



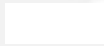








**BI-FOLD ROLFE LTD**  
*Industrial Door Specialist*

UNIT 4, CALCOT MOUNT, CALCOT LANE, CURDRIDGE, HAMPSHIRE SO32 2BN  
Tel: (01489) 780099 Fax: (01489) 780090  
E-Mail: sales@bifoldrolfe.com www.bifoldrolfe.com

**Panel Finish :-**  
Kingspan XL200

	Goose Wing Grey		Merlin Grey		Gull Grey
	Azure Blue		Olive Green		Khaki Green
	Vandyke Brown		Sapphire Blue		Leaf Green
	Flame Red		Cornflower Blue		Sunflower Yellow

Architectural Polyester

	White		Ivory		Sepia Brown
	Silver		Anthracite		Gentian Blue
	Yellow		Sunset Red		Fir Green

Colour samples are as accurate as possible but are for guidance only.



**BI-FOLD ROLFE LTD**  
*Industrial Door Specialist*

---

UNIT 4, CALCOT MOUNT, CALCOT LANE, CURDRIDGE, HAMPSHIRE SO32 2BN  
Tel: (01489) 780099 Fax: (01489) 780090  
E-Mail: [sales@bifoldrolfe.com](mailto:sales@bifoldrolfe.com) [www.bifoldrolfe.com](http://www.bifoldrolfe.com)