



**21DB SOUND REDUCTION  
(FIRE RATED)**

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## 21DB SOUND REDUCTION (FIRE RATED)

FR-INS4H



### PRODUCT DESCRIPTION

Our twin skin steel shutters are the most effective way to secure an opening and/or compartmentalise against a spreading fire.

Unlike single skin fire shutters, this model provides incredible radiant heat protection. To put this into perspective, normally if a fire was raging at 1200oC on the other side of a standard fire shutter you wouldn't be able to stand within 6 metres of the opening. However, due to the FR-INS4H's unique construction, the radiant heat levels around the roller shutter door drop from 65kw sq metre to an incredible 2.7 kw sq metre.

The FR-INS4H also offers a 21DB sound reduction value meaning they are good to use in kitchens where the room next door may also be used for meetings or exhibitions.

These fire-rated doors are fitted with safety brakes, coupled with 'drive ratio control', in order to manage controlled descents. Furthermore, we can incorporate one of our interface panels so that the roller shutter closes automatically when the fire alarm is set off.

### IDEAL USES

- Warehouses
- Factories
- Hospitals
- Large commercial buildings
- Airports
- Canteens
- Restaurants

### KEY FEATURES

- Offers 21DB sound reduction value
- Provides radiant heat protection
- Tested up to 240 minutes of fire protection

### TECHNICAL SPECIFICATIONS



## **Curtain**

The curtain is normally constructed from laths comprising a synthetic material outer skin bonded to a special inner core consisting of high performance insulation materials.

Stainless steel cables connected the laths together and are fastened to the roller at the head.

The bottom rail comprises a standard lath fitted with an extruded PVC bottom seal.

## **Guides**

Manufactured from galvanised steel and shaped into a channel profile which is prepared for bolting to the structure by means of continuous fixing angles.

## **Endplates**

Manufactured from galvanised steel of adequate thickness relative to door size and supplied with steel plates for fixing to the structure.

## **Head**

A combination of galvanised steel and 'u' profile and MDF board with a special fire protection cover fastened to the lintel into which the top of the door engages providing an effective seal against the passage of flames and hot gasses.

## **Barrel**

The barrel comprises a steel tube of suitable diameter and wall thickness to avoid deflection. Steel shafts and discs are inserted at each end and the whole assembly is supported at each end on the end brackets.

## **Operation**

Our Fire rated shutters are typically installed with an induction motor, an electromagnetic brake, limit switches and a fusible link. The design provides a reliable system that will close the shutter automatically in the event of a fire situation.

A controlled descent comes as an inbuilt safety feature.

In the event of a power loss, manual operation can be attained. By releasing a pull cord close to the shutter under controlled descent and a hand chain to open again. Every fire shutter is individually operated from a control station, incorporating open/close/stop push buttons positioned adjacent to the shutter guide.

A 24-volt DC auto reset solenoid is available for linking into the fire alarm or BMS.

## **Finish**

As standard, the curtain is self-finished light grey with the perimeter intumescent seal in black.

## **OPTIONS AND VARIATIONS**

### **Hoods/Fascia's**

Galvanised steel hoods can be supplied to cover the coiled shutter and motor.

### **Finishes**

Can be Polyester powder coated in a range of standard RAL colours' for an extra charge.

## **ILLUSTRATIONS**





GLV-11INS100 Insulated  
Security Shutter

Applications

High security commercial sites requiring large aperture coverage, and improved insulation properties from the shutter.

Curtain Slat

Double skinned polyester powder coated 100mm Flat slat with polyurethane foam insulating core.  
Standard galvanised finish.  
N.B. Colour finishes available on request. Plated range or polyester powder coated.  
Profile Height 100mm  
Weight per m<sup>2</sup> 18.5kg  
Maximum Width 12,000mm  
Maximum Surface 50M<sup>2</sup>

Housing

Manufactured from 0.7mm or 0.9mm galvanised steel sheet.  
End caps are fabricated from 3mm steel.  
Standard galvanised finish. Other colours available on request.

Guide Length	Box Size
(up to mm)	(mm)
2800	400
3300	450
4300	510

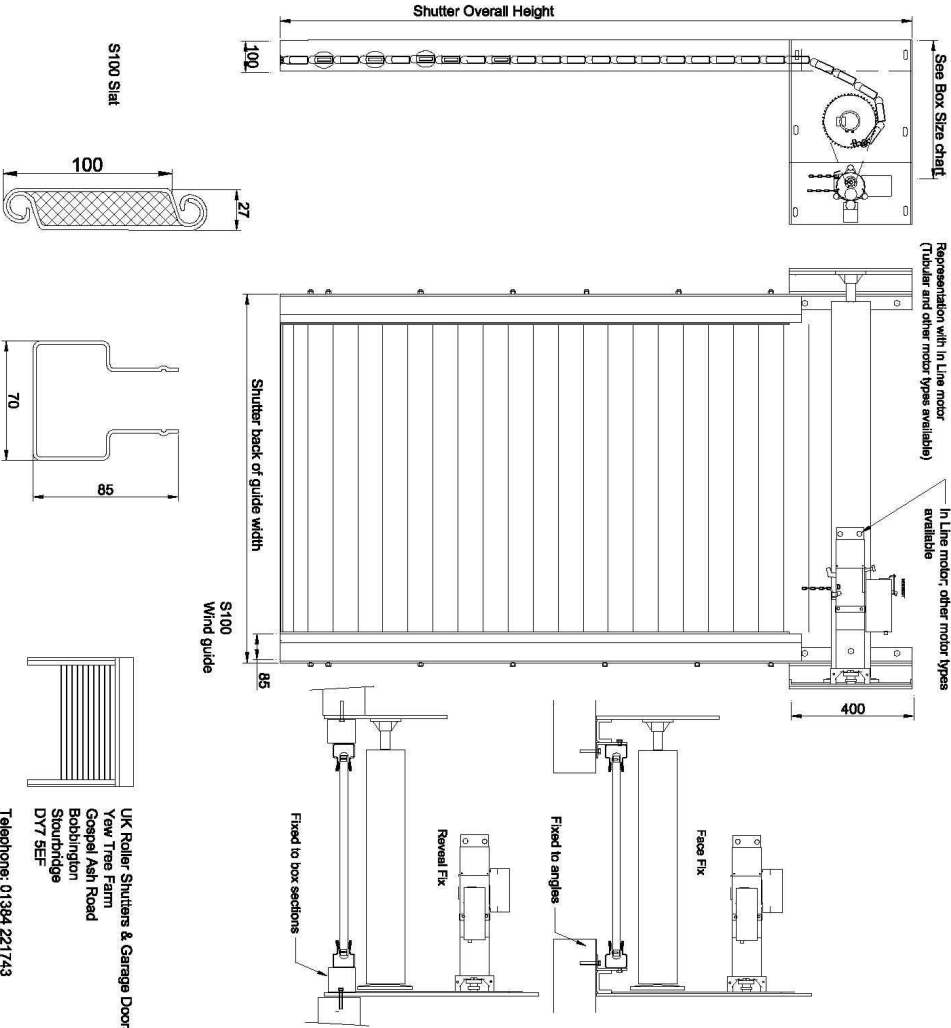
N.B. The above enclosure sizes are based on standard 3-phase motor operation.

Guide Channels / Bottom Slat

Galvanised steel bottom slat with EPDM weather seal.  
Guide channel depth is 65mm as standard.  
Standard galvanised finish. Other colours available on request.  
N.B. The guide channels are bolted to fixing angles or box section to suit the application.

Operation

Electric: Single phase tubular motor or 3-phase outboard motor (dependent on curtain weight) with push button control.  
Numerous options such as group or remote control etc available as required. Manual override facility as required.  
CE compliant to all applicable directives and regulations.



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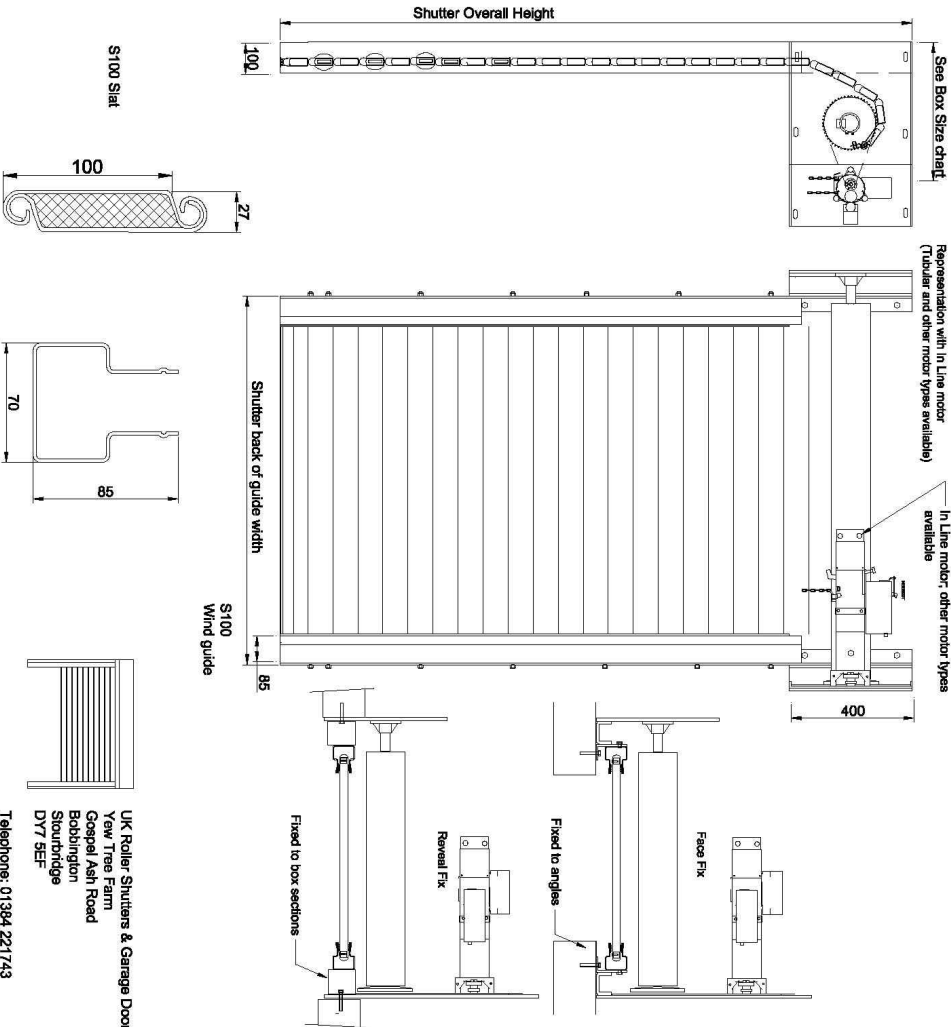
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Guide Channels / Bottom Slat

Galvanneal steel bottom slat with EPDM weather seal.  
Guide channel depth is 65mm as standard.  
Standard galvanneal finish. Other colours available on request.  
N.B. The guide channels are bolted to fixing angles or box section to suit the application.

Operation

Electric: Single phase tubular motor or 3-phase outboard motor (dependent on curtain weight) with push button control.  
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**UK ROLLER SHUTTERS**  
SUPPLIER & FITTER OF ROLLER SHUTTERS

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