



 **UK ROLLER SHUTTERS**  
SUPPLIER & FITTER OF ROLLER SHUTTERS

**SINGLE SKIN FIRE  
SHUTTERS**

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## SINGLE SKIN FIRE SHUTTERS

FR-1H, FR-2H, and FR-4H



### PRODUCT DESCRIPTION

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

Made from 76mm curved steel, these shutters have been tested by Exova to withstand a fire for 1, 2 or 4 hours depending on your need or budget.

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

Shutters are available in sizes to suit your needs and either galvanised or powder coated in a choice of colours.

### IDEAL USES

- Warehouses
- Factories
- Loading bays
- Other areas where a high level of security is required as well as a high degree of insulation
- Canteens
- Restaurants

### KEY FEATURES

- Can be powder coated two different colours, front and back.
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### TECHNICAL SPECIFICATIONS

#### SHUTTER CURTAIN

Single Skin 76mm Curved Steel. Wall thickness 0.7mm, 0.9mm, or 1.2mm, depending on overall shutter opening width.



Colour: Galvanised finish as standard. Plastisol or powder coating available.

Visible Surface: 76mm

Profile Height: 86.6mm

Weight per m<sup>2</sup>: 10kg - 16kg

Maximum Width: 12000mm

Maximum Surface: 10m<sup>2</sup> with single phase power or 50m<sup>2</sup> with 3-phase power.

### **BARREL**

Manufactured from seamless mild steel tube to BS4760 Grade 50C. Maximum barrel deflection measured at 1:400, fitted with precision machined BDMS axles to BS970 EN33 with end fitted plate wheel.

### **VERTICAL SIDE GUIDES / BOTTOM SLAT**

Galvanised steel sections with strengthened T-shape bottom bar. Guide channel depth will vary dependent on application from 65mm to 100mm.

Colour: Galvanised finish as standard. Plastisol range or powder coating available.

Note: The guide channels are bolted to fixing angles or steel box sections dependent on the application. See drawings on this sheet.

### **ENCLOSURE/HOUSING**

Manufactured from 0.9mm galvanised steel sheet.

End caps are fabricated from 5mm+ steel. A barrel support frame at the centre of the housing may be required in some applications.

### **Shutter Height (mm) Box Size (mm)**

2500	305
4000	355
5500	400

In Line motor applications enclosure projection sizes will vary dependent on the overall shutter size.

Note: The enclosure heights are based on standard tube motor operation or In Line external chain drive

motor.

## **OPERATION**

Electric: Single phase tubular motor or In Line chain driven motor dependent on curtain weight, with push button control. The fire shutter is usually connected to a Fire Control Panel and integrated with the building alarm system, so that the shutter descends under control of the motor in the event of a fire.

Manual override facility is available with the UKRS FR range. Optional battery backup will supply at least one operation of the door if electricity supply fails.

CE compliant to all relevant European directives and regulations.

## **ILLUSTRATIONS**











# FR-1H 1 Hr Fire Rated Shutter

The UKRS Fire Shutter, tested at Exora, Warrington under BS EN 1824-1:2008 test conditions, and assessed to BS EN 478-2:1987, is designed to contain fire within particular parts of a building. In the event of a fire alarm, the shutter automatically descends by operation of the motor. Further fail-safe devices to ensure higher levels of response to a fire outbreak or alarm.

**Applications**  
High security commercial and service sites, up to 50m<sup>2</sup>, with 1-hour fire-rating to stop spread of fire through an opening.

### Curtain Slat

Single Slat 76mm Curved Steel  
Standard galvanised finish.  
Wall thickness 0.7mm, 0.8mm, or 1.2mm, depending on overall shutter opening width.  
N.B. Colour finishes available on request. Plastisol range or polyester powder-coated.  
Visible Surface 76mm  
Profile Height 86.6mm  
Weight per m<sup>2</sup> 10kg - 16kg  
Maximum Width 12,000mm  
Maximum Surface 10m<sup>2</sup> with single phase power or 50m<sup>2</sup> with 3-phase power.

### Housing

Manufactured from 0.8mm galvanised steel sheet.  
End caps are fabricated from 5mm+ steel.  
Standard galvanised finish. Other colours available on request. A beam support frame at the centre of the housing may be required in some applications.

Shutter Height	Box Size
(up to mm)	(mm)
2500	305
4000	355
5500	400

In Line motor applications enclosure projection sizes will vary dependent on the overall shutter size.  
N.B. The above enclosure heights are based on standard tube motor operation or In Line external chain drive motor.

### Guide Channels / Bottom Slat

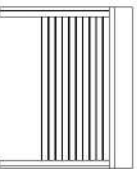
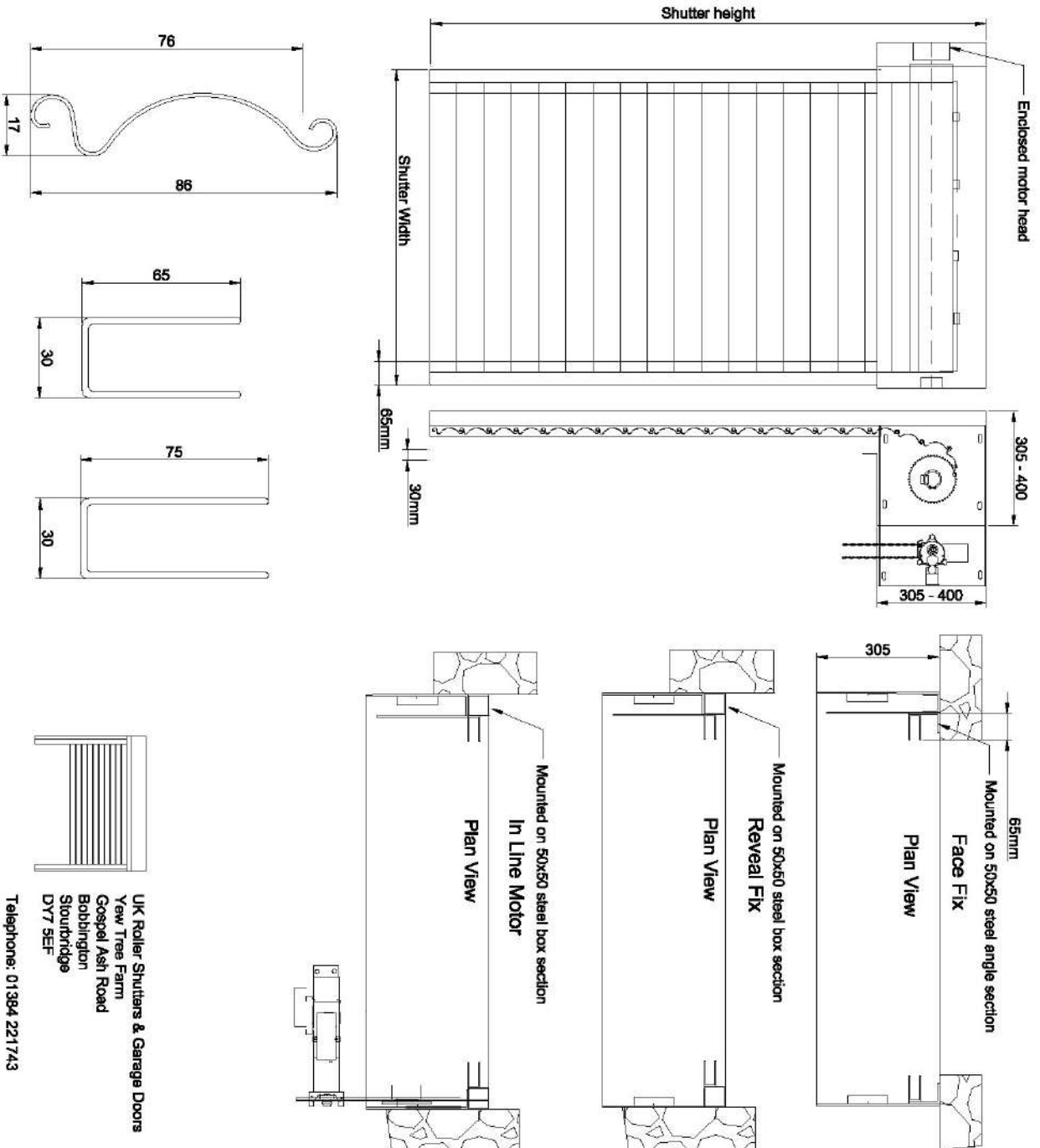
Galvanised steel sections with strengthened T-shape bottom bar. Guide channel depth will vary dependent on application from 65mm to 100mm.

Standard galvanised finish. Other colours available on request. N.B. The guide channels are bolted to fixing angles or steel box sections dependent on the application. See drawings on this sheet.

### Operation

Electric: Single phase tubular motor or In Line chain driven motor dependent on curtain weight, with push button control. (In Line motors in either Single Phase or Three Phase supply).  
The fire shutter is usually connected to a Fire Control Panel and integrated with the building alarm system, so that the shutter descends under control of the motor in the event of a fire.

Manual override facility is available with the UKRS FS range. Optional battery backup will supply at least one operation of the door if electricity supply fails.  
CE compliant to all relevant European directives and regulations.



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# FR-4H 4 Hr Fire Rated Shutter

The UKRS Fire Shutter, tested at Exova Warrington under BS EN 1634-1:2008 test conditions, and assessed to BS EN 476-22:1987, is designed to contain fire within particular parts of a building. In the event of a fire alarm, the shutter automatically descends by operation of the motor. Further fail-safe devices to ensure higher levels of response to a fire outbreak or alarm.

### Applications

High security commercial and service sites, up to 50m<sup>2</sup> with 4-hour fire-rating to stop spread of fire through an opening.

### Curtain Slit

Single Skin 76mm Curved Steel  
Standard galvanised finish.

Viall thickness 0.7mm, 0.8mm, or 1.2mm, depending on overall shutter opening width.

N.B. Colour finishes available on request. Flashed range or polyester powder-coated.

Visible Surface 76mm

Profile Height 66.6mm

Weight per m<sup>2</sup> 10kg - 18kg

Maximum Width 12,000mm

Maximum Surface 10m<sup>2</sup> with single phase power or 50m<sup>2</sup> with 3-phase power.

### Housing

Manufactured from 0.9mm galvanised steel sheet. End caps are fabricated from 5mm+ steel.

Standard galvanised finish. Other colours available on request. A barrel support frame at the centre of the housing may be required in some applications.

### Shutter Height

Box Size

(up to mm)	(mm)
2500	305
4000	365
5500	400

In Line motor applications enclosure projection sizes will vary dependent on the overall shutter size.  
N.B. The above enclosure heights are based on standard tube motor operation or In Line external chain drive motor.

### Guide Channels / Bottom Slat

Galvanised steel sections with strengthened T-shape bottom bar. Guide channel depth will vary dependent on application from 65mm to 100mm.

Standard galvanised finish. Other colours available on request. N.B. The guide channels are bolted to fixing angles or steel box sections dependent on the application. See drawings on this sheet.

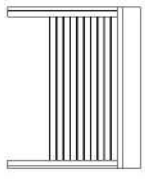
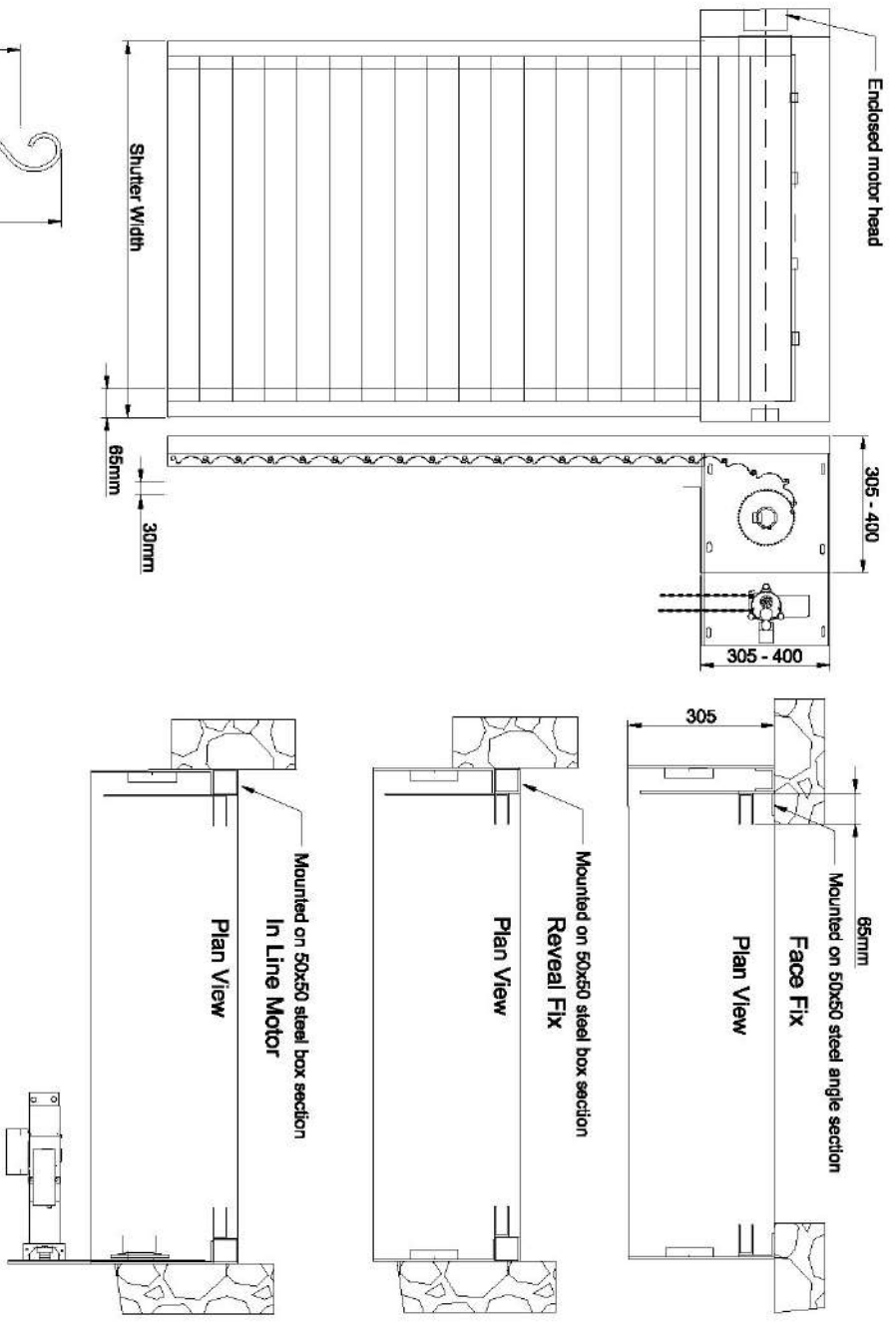
### Operation

Electric: Single phase tubular motor or In Line chain driven motor dependent on curtain weight, with push button control. (In Line motors in either Single Phase or Three Phase supply).

The fire shutter is usually connected to a Fire Control Panel and integrated with the building alarm system, so that the shutter descends under control of the motor in the event of a fire.

Manual override facility is available with the UKRS FR range. Optional battery backup will supply at least one operation of the door if electricity supply fails.

CE compliant to all relevant European directives and regulations.



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