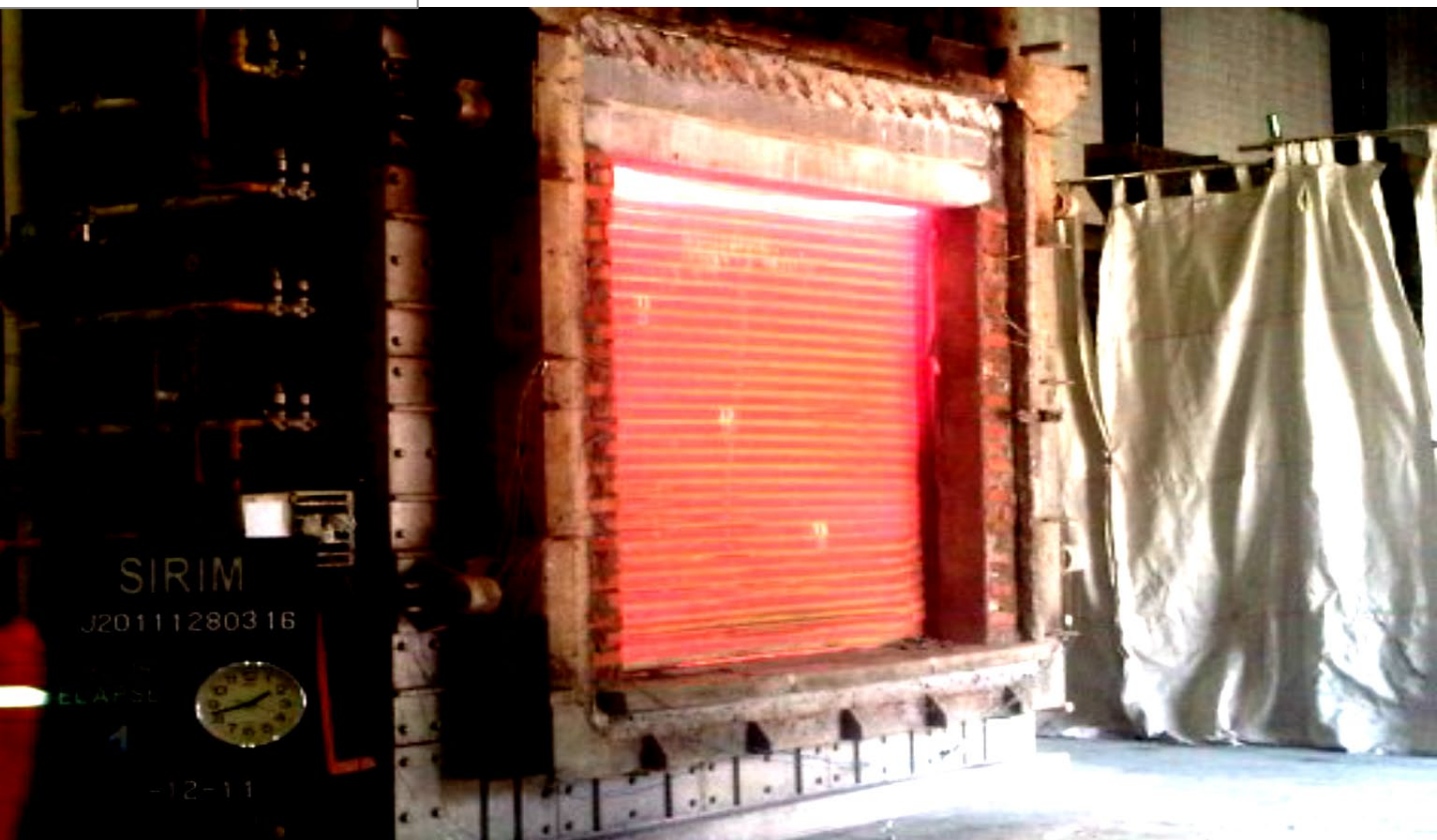# ferco
SHUTTERS & SEATING

INSULATED FIRE RATED
VERTICAL ROLLER SHUTTERS – BS

- **Up to 4 hours fire rating**
- **CONFORMS TO BS 476:Part22:1987 EN 1634-1:2014**
- **Approved by U.A.E Civil Defence**
- **Sizes up to 12m (w) x 5.3m (h) Larger sizes available upon request**
- **Gravity fail safe system**
- **Thermal Fusible link**
- **Electric Solenoid release**
- **Z275 galvanized steel curtain**
- **Roll-formed Heavy duty guide**
- **Standard RAL Range of powder coated finishes**
- **World Class Service Support**
- **24 hours reachability**
- **ISO 9001/ISO 14001/ISO 45001**
- **UK/Singapore/Malaysia/UAE**
- **Distributed over 20 countries**

Galvanized steel single skin slats
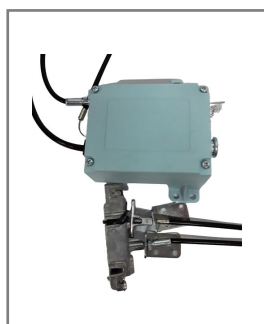powder coated finish
(0.80mm+0.80mm thickness)

T Shaped
Galvanized steel Bottom Bar
powder coated finish

Roll-formed heavy duty
Side Guide rail
powder coated finish

Fire shutter operator
1 phase 230v 50/60-Hz (OR)
3 Phase 415v 50Hz

Electric Solenoid Release (ERS)
equipped with dual thermal
fusible link melts at heat 74° C
and activates the shutter on
receiving fire alarm signal

Fire Alarm panel convert a voltage
free signal to 24V DC to activate
the ERS Device

Exova Warringtonfire

NFPA

intertek

UKAS MANAGEMENT SYSTEMS 014

INSULATED FIRE RATED VERTICAL ROLLER SHUTTERS – BS

SPECIFICATION

The specifications shall cover the design, manufacture, installation and operation to the required fire rating as specified in BS EN 1634: 2014

CURTAIN SLAT

The fire tested shutter curtain is made of roll formed process with 80mm pitch, 0.8+0.8mm thickness double skin superior galvanized steel slat with rockwool infill .

BOTTOM BAR

The fire tested bottom bar slat formed by two no. of 50mm x 50mm x 4.5 mm thickness galvanized steel angles are bolted to the bottom slat to form an inverted 'T'

SIDE GUIDE RAILS

For exposed, face fixing applications, roll-formed 'G' shaped heavy duty guides made of galvanized steel of sizes 75/90/105mm wide (depends on the door size) by 80mm depth by 3mm thickness.

SHUTTER BOX

Shutter box is made out of two heavy duty steel end plates of thickness 6 - 12mm according to the size of the shutter; joined together by using 5 nos. of 50mm X 25mm steel hollow sections and in black color primer finish. Two nos. of 50mm x 50mm x 4.5mm thick steel L angles with slotted fixing holes to be welded with end plates for fixing the shutter box to structure.

BARREL

Barrel is made out of heavy duty ERW welded steel pipe, welded with axle of sizes $\phi40$ - $\phi60$mm according to the sizes of shutters. This barrel is fixed to the right and left end plates with heavy duty sealed roller bearings.

BOX COVER

Shutter box covers are made out of 0.8mm thickness galvanized steel sheets, with folded edges for rigidity.

SHUTTER OPERATOR

A suitably sized, fully enclosed design motor with high starting torque, built-in gear box, built-in thermal protector is used. Shutter operators are provided with "endless hand chain" for manual operation from ground level. An "emergency-release lever" shall be provided for emergency closing operation.

AUTO-CLOSING MECHANISM

All fire shutters are equipped with fusible link mechanism. Upon sensing heat of 74°c, the fusible link melts and releases the brake of the motor and the shutter descends by gravity. On receiving a fire/smoke signal, the ERS releases the brake of the motor upon receiving a processed signal of 24V and 400mA. To reset the brake a reset leveler provided on the motor.
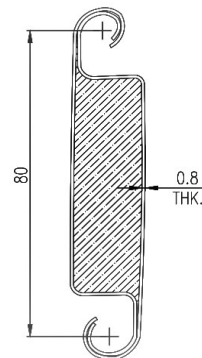
PUSH BUTTON CONTROL

Low voltage Push button control with 'up', 'down', 'stop' buttons are provided. The Push Button is provided with a stainless steel lockable enclosure upon request.
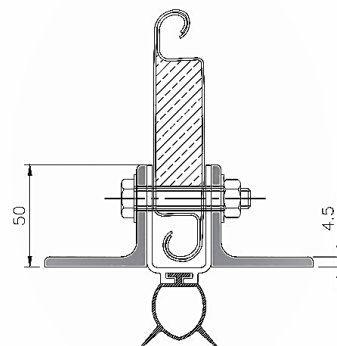
M&E REQUIREMENTS

Single Phase, 230V, 50Hz/60Hz, 13A (OR) Three Phase, 415V, 50Hz, 20A power supply at shutter box location.

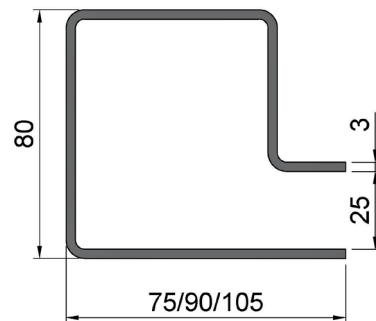### OPTIONAL DEVICES / SERVICES

- Motor Hood
- Guide seals
- Wind locks
- Delay Timer
- Warning Flash and Audio Alarm
- Powder Coating Special RAL colors
- Connection to Heat / Smoke detector
- Battery Back-up
- Safety Photocell
- Remote control system
- Bottom safety edge sensor

Curtain double skin slat

Bottom Bar

Side Guide Rail

All Dimensions are in mm