



CERTIFICATE OF APPROVAL

No CF 5545

This is to certify that, in accordance with
TS00 General Requirements for Certification of Fire Protection Products
The undermentioned products of

SHAKTI HORMANN PVT. LTD

**H.No2-67/1 (Survey No. 188,198), Gagillapur, Dundigal Municipality,
Dundigal Gandimaisamma Mandal, Medchal (Malkajgiri) District -
500 043. TS India
TEL 91 40 27840394/27840395**

Have been assessed against the requirements of the Technical Schedule(s)
denoted below and are approved for use subject to the conditions
appended hereto:

CERTIFIED PRODUCT
Fire Resistant Roller Shutter

TECHNICAL SCHEDULE
**TS30 Industrial Type Fire
Resisting Shutters**

Signed and sealed for and on behalf of Warringtonfire Testing and Certification Limited

Paul Duggan
Certification Manager



Issued: 7th September 2017
Revised: 28th October 2022
Valid to: 27th October 2027





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FIRE RESISTANT ROLLER SHUTTER

1. This approval relates to the performance of roller shutter doors, which are fitted with an industrial type motor (excluding tubular motors). The shutter, which may be fabricated using wither mild steel or stainless steel components, is designed to suit openings in masonry/concrete constructions and fire protected steel structures up to for fire resistance periods up to 4 hours.

The performances given Tables 1 to 5 are based on a fire test and a subsequent assessment to BS 476: Part 22: 1987 'Methods for determination of the fire resistance of non-loadbearing elements of construction'.

2. This certification is provided to the client for their own purposes and we cannot opine on whether it will be accepted by Building Control authorities or any other third parties for any purpose.
3. The product is approved on the basis of:
- i) Initial type testing
 - ii) A design appraisal against TS30
 - iii) Inspection and surveillance of factory production control
 - iv) Audit testing
4. The approval relates to on going production. Product and/or its immediate packaging is identified with the manufacturers' name, the product name or number, the CERTIFIRE name or name and mark, together with the CERTIFIRE certificate number and application where appropriate.
5. This certification is provided to the client for their own purposes and we cannot opine on whether it will be accepted by Building Control authorities or any other third parties for any purpose



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Table 1:
1 Hour Fire Resistance without Barrel Support Frame (BSF)

Maximum Opening		Barrel		Axle Diameter (mm)	Endplate Fixings	
Width (m)	Height (m)	Diameter (mm)	Thickness (mm)		Bolts M	Bolts No.
2.5	4.0	140.0	5.0	40.0	10	4
2.5	5.0	140.0	5.0	40.0	10	4
2.5	7.0	140.0	5.0	40.0	10	4
3.0	4.0	140.0	5.0	40.0	10	4
3.0	5.0	140.0	5.0	40.0	10	4
3.0	7.0	140.0	5.0	40.0	10	4
4.0	4.0	140.0	5.0	40.0	10	4
4.0	4.5	140.0	5.0	40.0	10	4
4.0	7.0	219.1	6.0	40.0	10	4
5.0	3.8	165.0	5.0	40.0	10	4
5.0	7.0	219.1	6.0	40.0	10	4
6.0	4.4	219.1	6.0	40.0	10	4
6.0	7.0	273.0	6.0	40.0	10	4
7.0	5.1	273.0	6.0	40.0	10	4
7.0	7.0	323.0	6.0	50.0	12	4



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Table 2:
2 Hour Fire Resistance without Barrel Support Frame (BSF)

Maximum Opening		Barrel		Axle Diameter (mm)	Endplate Fixings	
Width (m)	Height (m)	Diameter (mm)	Thickness (mm)		Bolts M	Bolts No.
2.5	4.0	140.0	5.0	40.0	10	4
2.5	5.0	165.0	5.0	40.0	10	4
2.5	7.0	219.1	6.0	40.0	10	4
3.0	4.0	165.0	5.0	40.0	10	4
3.0	5.0	219.1	6.0	40.0	10	4
3.0	7.0	219.1	6.0	40.0	10	4
4.0	4.0	219.1	6.0	40.0	10	4
4.0	5.0	273.0	6.0	40.0	10	4
4.0	5.8	273.0	6.0	40.0	10	4
4.0	7.0	323.0	6.0	40.0	10	4
5.0	3.6	273.0	6.0	40.0	10	4
5.0	4.6	323.0	6.0	40.0	10	4

Table 3:
2 Hour Fire Resistance with One Central Barrel Support Frame (BSF)

Maximum Opening		Barrel		Axle Diameter (mm)	Endplate Fixings	
Width (m)	Height (m)	Diameter (mm)	Thickness (mm)		Bolts M	Bolts No.
5.0	5.0	165.0	5.0	40.0	10	4
5.0	7.0	219.1	6.0	40.0	10	4
6.0	7.0	219.1	6.0	45.0	10	4
7.0	4.7	219.1	6.0	40.0	10	4
7.0	7.0	273.0	6.0	40.0	10	4



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Table 4:
4 Hour Fire Resistance without Barrel Support Frame (BSF)

Maximum Opening		Barrel		Axle Diameter (mm)	Endplate Fixings	
Width (m)	Height (m)	Diameter (mm)	Thickness (mm)		Bolts M	Bolts No.
2.4	2.4	140.0	5.0	40.0	10	4
2.4	5.0	219.1	6.0	40.0	10	4
2.4	7.0	219.1	6.0	40.0	10	4
3.0	3.0	219.1	6.0	40.0	10	4
3.0	5.0	219.1	6.0	40.0	10	4
3.0	7.0	273.0	6.0	40.0	12	4
4.0	3.7	273.0	6.0	40.0	10	4
4.0	5.0	323.0	6.0	40.0	12	4
5.0	2.5	323.0	6.0	40.0	12	4

Table 5:
4 Hour Fire Resistance with One Central Barrel Support Frame (BSF)

Maximum Opening		Barrel		Axle Diameter (mm)	Endplate Fixings	
Width (m)	Height (m)	Diameter (mm)	Thickness (mm)		Bolts M	Bolts No.
5.0	5.0	219.1	6.0	40.0	10	4
5.0	7.0	219.1	6.0	40.0	10	4
6.0	7.0	273.0	6.0	45.0	10	4
7.0	4.7	273.0	6.0	40.0	10	4
7.0	7.0	323.0	6.0	50.0	10	4



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General Specification: The specification of the certificated product is based upon the specimen subjected to test under the reference WF Test Report No. 381000. Although this certificate provides a brief overview of the certificated design and options, a more detailed specification can be found within the aforementioned test report.

Orientation: The doorset is suitable for fire exposure from either side.

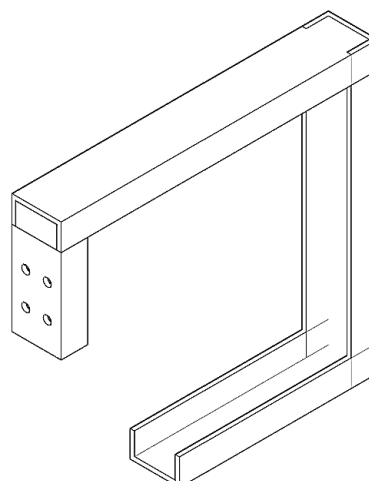
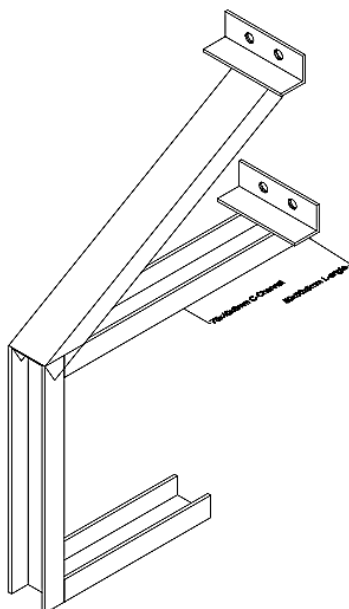
Motor: The shutter is fitted with an industrial type motor (excluding tubular motors). The motor may be independently fitted to the supporting structure or fitted to an end plate. Where chain operation is required the enclosure hood may contain a small hole for the operating chain. The enclosure hood must not include the motor unless there is a steel division between the motor hood and the barrel enclosure hood. The openings between the motor hood and the enclosure hood should be the minimum for the operation of the drive chain.

Wall: The masonry/concrete wall must have a fire resistance of at least that specified for the doorset and be capable of providing adequate support to the doorset for the required period.

Steel supporting structure: Structural steel members must be clad with a proprietary fire protection system such that they have a fire resistance of at least that specified for the doorset and are capable of providing adequate support to the doorset for the required period. The fixing of the doorset components to the steel members must not reduce the ability of the fire cladding system to protect the members. Where the structural steel members are protected with an intumescent coating additional fire protection must be added around the connecting shutter components to compensate for the area of coating that is trapped between the steel members and the shutter components and therefore cannot intumesce. The structural steel members may be contained within a partition system but must still be clad with a proprietary fire protection system. The vertical structural steel members providing the support at the sides of the shutter must be continuous and secured to the structural floors slabs above and below the doorset. The horizontal steel member over the opening must be connected to the vertical structural steel members and must be deep enough to accept the fixings for the shutter. Alternatively, more than one horizontal steel member may be fitted.

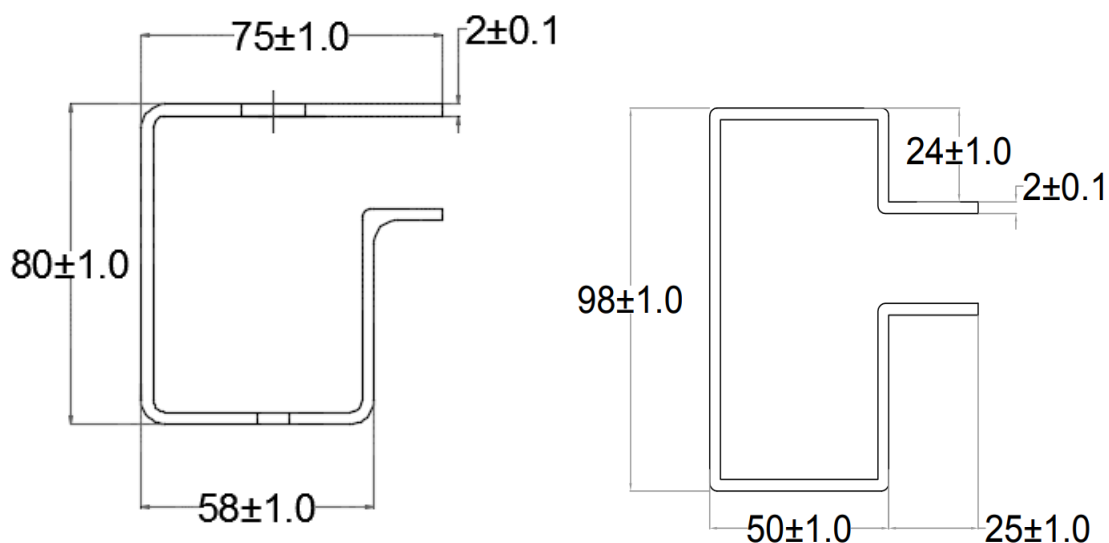
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Barrel support frames: The barrel support frames are only required where stipulated in the Tables 1 to 5 of this certificate. They shall be constructed with welded steel channel sections as shown in either of the two examples below, each minimum 75mm x 40mm x 6mm thick. Where a barrel support frame is required it is to be positioned at mid-width of the shutter. Each barrel support frame is fastened to the supporting construction with minimum 4 x M12 steel bolts or anchors via 50mm x 50mm x 5mm angle section welded to the frame.



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Side Guides: Minimum 2 mm thick steel. Either of the following options may be used. Metal windlocks/endlocks may be added where required



End plates: The minimum size of the end plates is 500 x 400mm. The endplate thickness shall be as follows:

Height or Width - m x m	Endplate thickness - mm
up to 4 x 4	6
up to 7 x 7	7
maximum	10

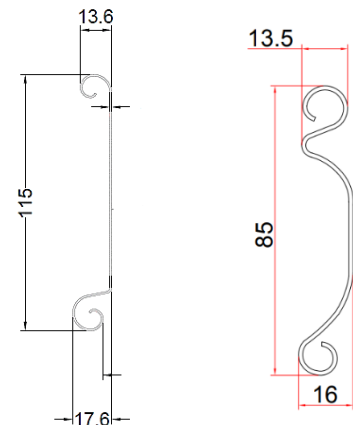
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Expansion allowances: The following expansion allowances shall be provided.

Component	Expansion Allowance (mm/m)		
	1 hr	2 hrs	4 hrs
Barrel/Axle Assembly	10.2	12.2	13.3
Guides	11.1	13.0	13.8
Bottom Rail	11.1	13.0	13.8
Curtain	7.7	7.7	7.7

Curtain laths: Galvanised mild steel. 115mm flat or 85 mm scrolled profiles and steel thicknesses as shown below.

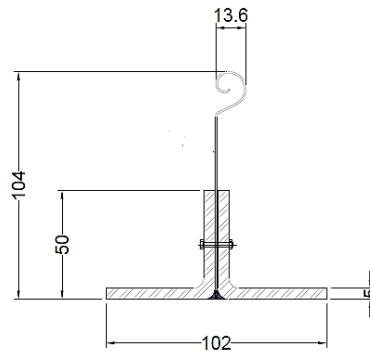
Lath Thickness (mm)	Maximum Shutter Opening Dimensions (m)	
	60/120 mins	240 mins
0.8	4 x 4	3 x 3
0.9	5 x 5	5 x 5
1.2	7 x 7	7 x 7



Bottom rail: T-section bottom rail comprising 104 mm high bottom lath sandwiched between two 50 x 50 x 5mm thick steel angles.

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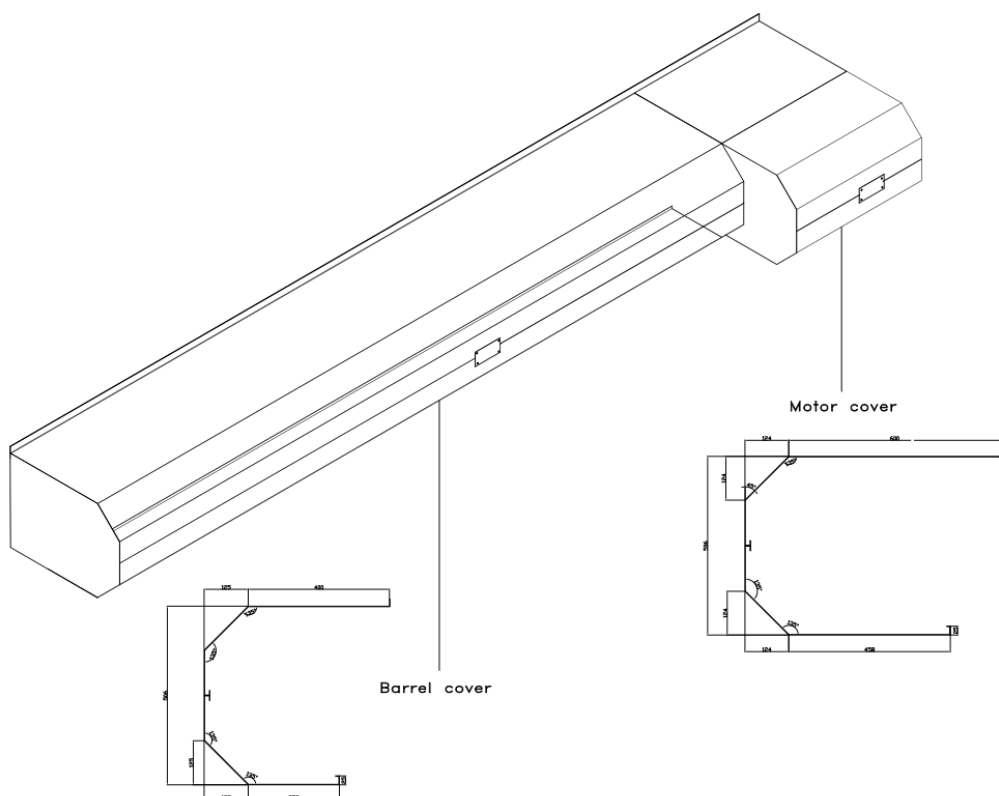
DETAILS OF THE
BOTTOM BAR ASSEMBLY

Enclosure hoods and fascia:

Option 1: Fabricated from RHS and reinforced with flat bar, clad with minimum 1.2 mm thick steel. Full specification provided within WF Test Report No. 381000. Optional alternative hood profile is shown below. All steel thickness and jointing details shall remain as tested and only the profile of the outer hood shall differ from the tested specification. **A steel division must be included between the motor hood and the barrel enclosure hood**, as described in the section of this certificate relating to the motor specification.

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Optional Alternative Hood Profile



Option 2: As Option 1 but RHS and flat bar reinforcement on the hood framework may optionally be removed, as per specification tested under SI142-4.