

FITZPATRICK CERTIFICATION SCHEDULE **for**

FITZPATRICK STEEL LATH ROLLING SHUTTERS having 4 hours fire resistance in accordance with the integrity criteria of BS 476-22: 1987

This Schedule should be read in conjunction with Certificate No. **IFCC 1081** which relates to the performance of steel lath rolling shutters in accordance with BS 476-22: 1987.

1. The following rolling shutter configuration and sizes are approved:

- Uninsulated shutter comprising horizontal steel laths
- Vertical drop
- Soffit or face-fit mounted headbox
- Maximum dimensions: 7m width and 7m height

2. The following rolling shutter components are approved

- i) Rolling shutter curtain comprising 0.9mm or 1.2mm steel laths
- ii) Rolling shutter hollow mild steel roller barrel (see Table 1 for sizes)
- iii) Folded steel sheet headbox enclosing roller barrel
- iv) Steel endplates bolted to soffit or face-fitted to wall
- v) Steel side guides retaining the ends of the steel laths
- vi) Steel bottom bar at the foot of the curtain
- vii) Curtain deployed mechanically or by electric motor.



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3. Component descriptions and dimensions

3.1 The following component dimensions apply for 4 hours fire resistance

Opening widths/ & heights (m)	Barrel size		Axle diam. (mm)	Lath thickness (mm)
	Outer diam. (mm)	Wall thick. (mm)		
2.4 W x 2.4 H	101	1.6	19	0.9
3 W x 4 H	114.3	3.0	25	0.9
3 W x 5 H	168.3	4.0	30	1.2
3 W x 6 H	168.3	4.0	30	1.2
3 W x 7 H	168.3	4.0	30	1.2
4 W x 3 H	168.3	4.0	30	0.9
4 W x 4 H	168.3	4.0	30	0.9
4 W x 5 H	168.3	4.0	35	1.2
4 W x 6 H	193.7	4.0	40	1.2
4 W x 7 H	193.7	4.0	40	1.2
5 W x 3 H	193.7	4.0	35	0.9/1.2
5 W x 4 H	193.7	6.3	40	0.9/1.2
5 W x 5 H	193.7	6.3	40	1.2
5 W x 6 H	193.7	6.3	45	1.2
5 W x 7 H	193.7	8	45	1.2
6 W x 3 H	193.7	6.3	40	1.2
6 W x 5 H	219.1	6.3	45	1.2
6 W x 6 H	219.1	8.0	50	1.2
6 W x 7 H	244.5	6.3	50	1.2
7 W x 3 H	219.1	6.3	45	1.2
7 W x 4 H	219.1	8.0	50	1.2
7 W x 5 H	244.5	8.0	55	1.2
7 W x 7 H	273.0	8.0	60	1.2

Table 1: Fitzpatrick rolling shutter component dimensions

3.2 Operation of rolling shutter roller barrel

The purpose of the fire-resisting roller shutter is to close-off an opening in a masonry or concrete wall in the event of a fire or other emergency.

This fire/emergency closure is achieved by automatic operation which normally allows the barrel to freely rotate and the shutter curtain to free fall within a short period of time. Normal 'every day' operation is reliant on the electric motor coupled to the roller barrel.

3.3 Installation of shutter roller barrel

The steel lath curtain is deployed from a steel tube barrel which is located by heavy-duty end-plates normally bolted to one face of the walls to the side of the opening, but for some situations is fastened back to the soffit of the opening providing that the fixings used are suitable for the system weight and fixture orientation. The numbers and sizes of fixture bolts vary according to the size and weight of the rolling shutter system. These vary from 2 No. M10 bolts on each endplate for a 2.4m wide x 2.4m high shutter, up to 3 no. M20 bolts for the maximum shutter size of 7m x 7m.

3.4 Side guides

The steel laths are restrained at each end by steel sideguides fixed back to the wall opening perimeter. The laths have endlocks which engage in the sideguides and are specially designed to retain the laths whilst allowing for expansion.

3.5 Head box and roller barrel support

For head box (enclosure hood) and shutter roller barrel widths more than 4m, intermediate supports should be installed. These must be designed to support the extra load imposed by the barrel and head box assembly.

3.6 Surface finish

The use of powder coated finish or alkyd, phenolic or epoxy-based paint is approved.

4. Fire resistance

WF Assessment Report No.319510 states that Fitzpatrick rolling shutters constructed to that tested and reported under reference WARRES No.116205, if subjected to a fire test in accordance with Clause 8 of BS 476: Part 22: 1987, would be expected to be capable of satisfying the performance criteria (integrity only) for a fire resistance of 240 minutes. Using the information provided in WF No. 319510, a range of component dimensions has been compiled in Table 1 of this Schedule for various extended sizes up to 7m x 7m.