

TACAM

FIRE-RATED & HEAVY DUTY ROLLER SHUTTERS

Type: **FireShield™**

Photograph 1



TACAM Shutter at START of 6 Hours Fire Test at Warrington Fire Research Centre (U.K.)

Photograph 2



TACAM Shutter AFTER conclusion of 6 hours Fire Test. Fully intact; minimum distortion.

RATINGS: Up to 4 hrs Fire-Rating: MS1073:Part 3:1996 or SS332:2007 abelled.

GENERAL: Face fixed or soffit mounted fire rated steel roller shutter of galvanised steel construction, complete with motor operator as standard. Heavy duty shutters may be manually operated or motorised .

CURTAIN: The shutter curtain is formed from interlocking galvanised steel slats of "C" profile, of material thickness 1.0 mm or 1.2mm, depending on shutter size and fire rating. Stainless steel slats are optional.

BOTTOM BAR: The bottom bar is constructed of right-angled steel bars, weighted where necessary, fastened to the bottom slat of the curtain. Safety-edge, stopping operation on contact, for motor operated shutters is available as option.

BRACKETS: Brackets shall be fabricated of steel and designed to close the ends of the roller shaft housing and form an end closure support for the hood.

HOOD: Hood shall be constructed of not less than 1 mm galvanised steel and reinforced with steel angles where necessary.

FINISH: Finish of above components as follows. Post is coated and paint finished. Prepainted steel available in standard colours as an option.

SHAFT: Roller shaft to be constructed of steel pipe of proper diameter and thickness for the size of the curtain and the fire rating. Deflection limit 2.5mm/m span. End of roller closed with cast iron plugs, machined to fit pipe. Grease-scaled or self-lubricating graphite bearings are used for rotating members.

OPERATION: The fire rated roller shutter shall be manually operated or operated by electrical power and manual handchain. For motorised shutters, 3-phase power point with isolator is to be supplied by the client. Single phase motorised operation is an option.

ELECTRICAL OPERATION (Optional) Furnished complete with electric motor, reduction gears, brackets, push button control and limit switches as necessary for the normal operation of the shutter. Additional limit switches and position sensors available as options. A manual operator crank gear or chain gear mechanism shall be provided to permit manual operation of the shutter in case of electric power failure. The motor provided will have sufficient torque output to operate the curtain at a travel speed of not less than 3m per minute. Unless otherwise stated, motors will require 3 phase 415 volts alternating current power supply. Power supply and points to be provided by the client.

REMOTE LINK (Optional) Fire Control Panel / System with DC 24V supply for auto-closing by break releaser as an option.

New Option: Windproof shutter with hook locks at end slats connected to guide rail to withstand strong wind conditions

NOTE: Design details may differ for different approvals. Tacam and FireShield are Registered Trademarks of Techsteel Corp.

Singapore: 541 Bt. Batok St 23, #07-00 Tacam Industrial Building, Singapore 659546. Tel +65 6665 7555; www.tacamsteel.com

Malaysia: B15-5 Jalan Selaman 1, Dataran Palma Off Jalan Ampang, 68000 Ampang, Selangor Darul Ehsan, Malaysia. Tel +603 4270 2267; Fax: +603 4270 2269