

TACAM

FIRE-RATED & HEAVY DUTY ROLLER SHUTTERS

Type: *FireShield / FireShield 2™*

Photograph 1



TACAM Shutter at START of 4 Hours Fire Test at SIRIM

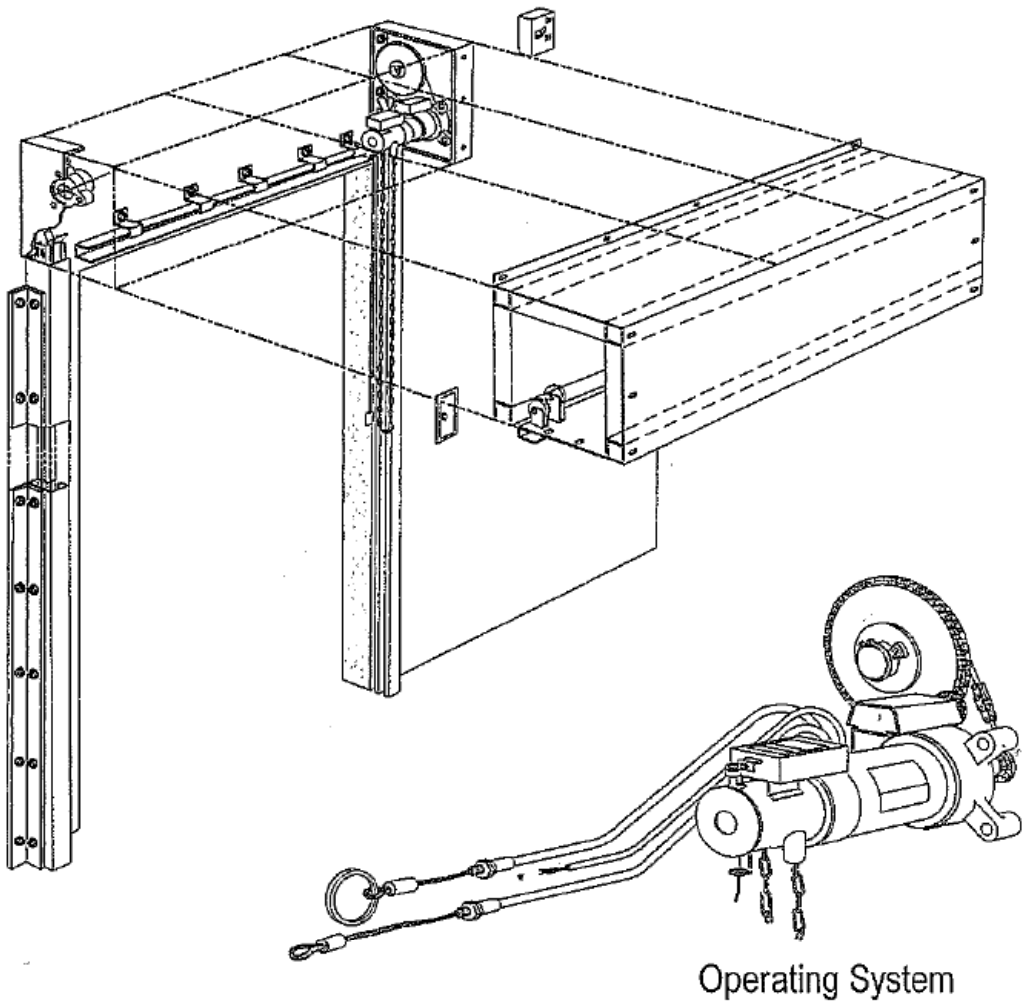
Photograph 2



TACAM Shutter AFTER conclusion of 4 hours Fire Test. Fully intact; minimum distortion.

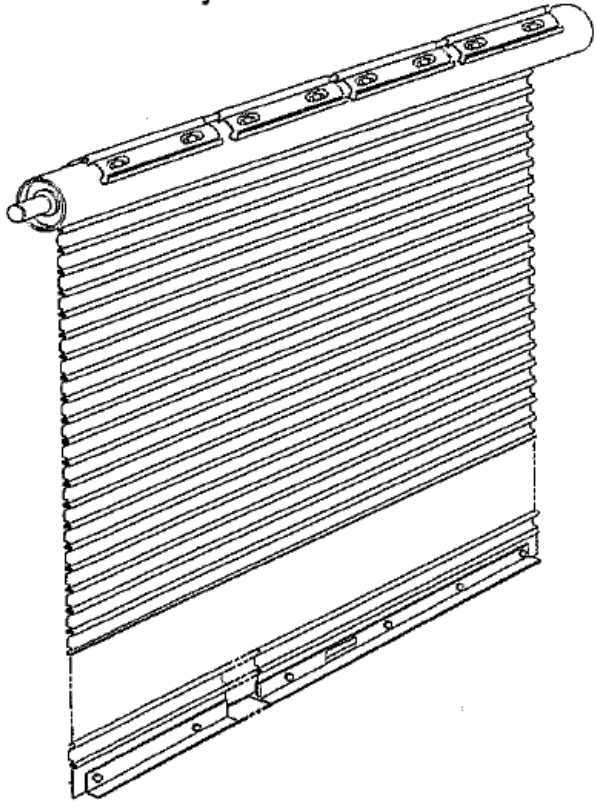
- RATINGS:** FireShield - Up to 2 hrs (MS 1073, Part 3 1996, Amd. 01)
FireShield 2 – Up to 4 hrs (MS 1073, Part 3 1996, Amd. 01)
- GENERAL:** Face fixed or soffit mounted fire rated steel roller shutter of galvanised steel construction, complete with fusible link and governor as standard. Heavy duty shutters may be manually operated or motorised but are supplied without fusible links.
- CURTAIN:** The shutter curtain is formed from interlocking galvanised steel slats of "C" or "F" profile, of material thickness, 1.0 mm (as a standard) 1.2mm or 1.6mm, depending on shutter size and fire rating. Both ends of alternate slats shall have a malleable metal end-lock. 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 cast-iron or 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 0.8 mm galvanised steel and reinforced with steel angles where necessary.
- FINISH:** Finish of above components as follows. All exposed welds to be ground smooth and puttied where necessary. One coat of grey primer to be shop applied. Finish coat is not recommended due to the high possibility of damage during transportation. Painted 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 our standard motorised shutters, a single-phase power point with isolator or power socket is to be supplied by the client.
- ELECTRICAL OPERATION (Optional)** Furnished complete with elec. 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 1 phase 230 volts alternating current power supply. Power supply and points to be provided by the client.
- REMOTE** A remote link to Fire Control Panel / System with DC 24V pulse supply with cut-off main supply for auto-closing is a fire shutter requirement feature.
- NOTE:** Design details may differ for different approvals. Tacam and FireShield are Registered Trademarks of Techsteel Corp.

Typical Face-Fitted Mounting Schematic



Updated : January, 2019. Note: Drawing details shown herein are subject to changes at the discretion of manufacturer to bring the doorset design up to date and to incorporate ongoing improvements and changes in fire regulations.

Shaft Assembly and Steel Slats



Series: Fireshield I®

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