

## Fire Doors, Rolling Steel

Rolling steel fire doors consist of an interlocking steel slat curtain, bottom bar, wall guides, counterbalancing mechanism, hood and flame baffle, operating mechanism and an automatic release device which, upon release, will cause the curtain to close.

All doors are designed to be either face-of-wall or between-the-jamb mounted on concrete or masonry walls using through-wall or concrete expansion bolts, may be operated by a chain, manually (push-up), crank or motor and are rated up to three hours, unless noted otherwise. If steel jambs or face plates are encountered, machine bolts shall be used. Wall angles shall not be welded to steel jambs or face plates under any circumstances. All guides shall be installed for downward expansion (space between bottom of guide and floor and wall bolts located at or near the bottom of slotted holes) unless noted otherwise in the individual listing.

Automatic closing is accomplished by activating an Approved fusible link or other detection device which releases an escapement device that allows the curtain to close. Fusible link/detection devices should be installed on both sides of the wall and interconnected so that the operation of any single fusible link will activate doors on both sides of the wall. One link should be located near the top of the opening with an additional link located 6 in. (152 mm) from the ceiling.

Approved doors have been performance tested for durability and reliability in addition to fire resistance. If the doors will be operated frequently, high cycle doors should be specified when ordering. Power operators, if provided, must disconnect, allowing the automatic closing device to close the door, irrespective of power failure or manual operation.

Assemblies shall be tested upon installation and at least annually thereafter to simulate a fire situation and ensure that the automatic closing mechanism is in proper working condition. These devices are under extreme spring tension and should be reset by trained and qualified rolling fire door personnel in accordance with each manufacturer's written instructions. All replacement parts shall be obtained from the original manufacturer.

Approved sizes are as noted in each individual listing based on the largest size door which was successfully fire tested. Doors for openings larger than those shown may be provided with a serialized label denoting OVERSIZE construction. The design of OVERSIZE doors is based upon, and is similar to, the Approved product design but they have not been subjected to Approval testing due to test facility limitations. The label signifies that the doors have been produced under the FM Approvals audit inspection program. Acceptance is the prerogative of the authority having jurisdiction.

### **The Cookson Co 2417 S 50th Ave Phoenix AZ 85043**

Models FD-1, -2, -3, -4, -5. Max size: 152 ft<sup>2</sup> (14 m<sup>2</sup>) with neither dimension to exceed 13 ft 6 in. (4 m). Also available in stainless steel. Door guides installed to allow for upward expansion.

Model FD-10. Max size: 108 ft<sup>2</sup> (10.0 m<sup>2</sup>) with the height of the opening not exceeding 9 ft 0 in. (2.74 m) and the width of the opening not exceeding 12 ft 0 in. (3.66 m). Manual or crank operation only. Also available in stainless steel. Door guides installed to allow for upward expansion.

FDO Model A, FDO Model B and FD-2A self resetting chain operator with automatic release devices for use on Cookson Company rolling steel fire doors, FD Series. FDO Model A and Model B do not disconnect from the gear train upon automatic closure. Model A and 2A are fail-safe which allows for automatic closure in case of loss of AC power. Model A is provided with a viscous governor. Model B is provided with battery back-up in case of loss of AC power. For details, see listing under Power Operators for Rolling Steel Fire Doors or Chain Hoist Assemblies for Rolling Steel Fire Doors.

### **Cornell Iron Works Inc Crestwood Industrial Park Mountaintop PA 18707**

Models PFL, PBL, CFL, CBL, MFL, MBL. Also available in stainless steel. Max size: 120 ft<sup>2</sup> (11.1 m<sup>2</sup>) with neither dimension exceeding 12 ft (3.7 m).

Model M100. Up to 4 hour rated. Max size: 144 ft<sup>2</sup> (13.4 m<sup>2</sup>) with neither dimension exceeding 12 ft (3.7 m). Power operation only. Utilizing Cornell's power operator/gearbox assemblies, Model M100-30 Series, -50, -100, -200, -300 and -500 units (1/3, 1/2, 1, 2, 3 and 5 hp, respectively). Power operators do not disconnect from the gear train upon automatic closure. Automatic closure is achieved upon de-activation of an electrical hold open brake upon receipt of a signal from a product of combustion detection device or by means of a "fail-safe" feature which automatically allows the curtain to close upon loss of power to the unit.

FireGard EZ Test 'n Set chain hoist assembly with automatic release device for use on new and retrofit applications with Cornell Iron Works rolling steel fire doors. The assembly incorporates Model HDHWF (Grifco Hoist) chain hoist assembly. Allows for manual testing by pulling a toggle. Resetting can be accomplished from floor level without special tools or qualified personnel as tension does not need to be reapplied to the counterbalance spring assembly.