NS170 MODEL - EI120

PRO DOOR SYSTEMS

INSULATED FIRE RESISTANT **ROLLER SHUTTER**

EI120

info@prodoor-systems.com www.prodoor-systems.com

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INSULATED FIRE RESISTANT ROLLER SHUTTER EI120

Certificate
Rated Roller Shutter (EI120)
Certificate no: EEA-2000-0021 dated 04.03.302120

Ideal Uses
Application in indoor / outdoor for Industrial Buildings, Loading Bays, Warehouses, Factories, Hospitals, Large Commercial Buildings, Airports, Canteens, Restaurants, Shopping Mall, Car Parks, Department Stores and Fire Explosion Hazardous Environments, other areas where a high level of security is required as well as a high degree of insulation.

Accreditations
EN 1634 - 1: 2014 + A1 : 2018 Fire resistance

Performance Characteristics:
Resistance to Fire : EN 1634-1:2014 + A1 : 2008, rated EI120
Classified according to EN 13501-2 :2016
Extended application of test results according to EN 15269-10:2011

TECHNICAL SPECIFICATIONS

Profile / Curtain
Profile / curtain made of galvanized interlocking roll-formed steel, double-walled 170mm flat slat which made by press break bending method. Sheet thickness 100mm with galvanized steel, filled with board and ceramic wool to provide heat, sound and fire insulation with end locks riveted to the slats maintain profile/curtain alignment and prevent wear.

Side Guides
Side guides made of galvanized steel profile, 200x200mm dimension and 3,00mm thickness made by press break bending method, fixing to face of wall and between Jambs U type based on construction structure. Side guides can be mounted to the interior or exterior side of the wall or the jamb. Side guide assemblies bolt to fixing angles or frame steel and support the entire weight of the shutter. There are also a 90mm wide fire seal and acoustic seal inside side guide rails.

Endplates
Manufactured from galvanized steel of adequate thickness between 5,00mm and 20,00mm relative to door size and supplied with steel plates for fixing to the structure. Bolt to side guides assembly and support shaft and curtain and prepared to accept the coil casing / hood. Securely bolted to steel angles which are drilled for attachment to the structure at the correct centres.

Finish
ProDoor Systems shutters are finished in standard galvanized steel. Polyester powder coat in a range of standard RAL color are available on request.

Control Panel
Surface-mounted type control unite in a metal box with integrated keypad up-stop-down on the drive side with hold to run button at handy height. It is designed in accordance with smart building automation systems. The technical specifications of the control panels are also equipped according to the motor powers to be used. The control panel has diode overload protection and diode break protection feature. It has the features of remote on-off, remote monitoring system, audio-visual sound signal when the door is working and battery back-up facility where maintained power is required according to the dimensions in the control panel. Audio visual warning.

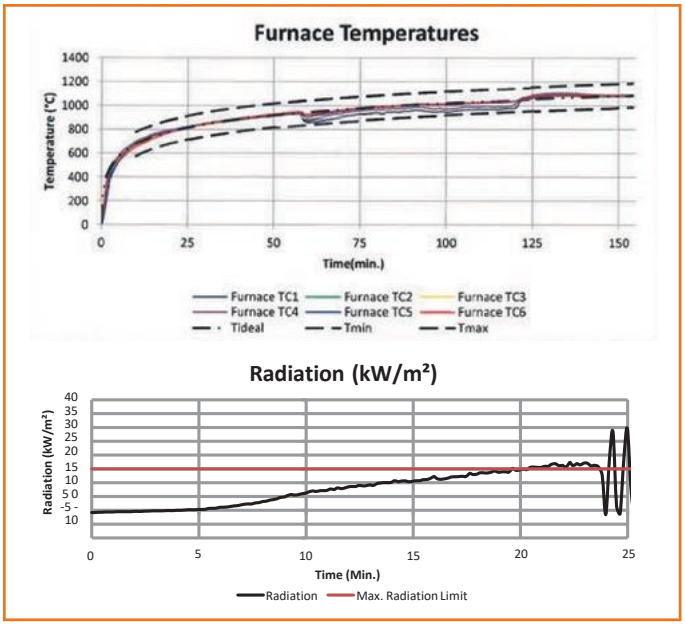
Options
•Key-switch control, Motor cover hood, Remote control, Loop detectors, Photocells, Timer closing, Other colors, Integral frame and Coil Casing / Hood • For Coil Casing / Hood, it made of galvanized steel and 'U or L type' profile cover fastened to the lintel into which the top of the door engages for coiled shutter and motor providing an effective seal against the passage of flames. It will be produced by the press break bending method according to the quality and characteristics of the place to be used and double-walled fire board barrier or rock wool will be used as the inner filling. •For Integral frame, in order to provide the desired fire value, the fire value of the existing wall and the area where the door will be made should be better than the desired fire value at the door. The internal frame profiles, where the door will be mounted, need to be backed up with fire board materials in a way that will provide the fire values after the assembly.

Operation / Drive
Electric Drive 3Ph 380V / 50 Hz, protection class IP54, directly coupled to the winding shaft, thermal motor protection in the motor windings, upper and lower limit switch for the control and main current circuit. Emergency hand-crack or hand-chain with safety contact. Wide range of drive torques is available based on curtain weight. Drive comes with push button control device. Usually connect to a fire control panel and integrated with the building alarm system, so that the shutter descends under control of the motor in the event of a fire. Also specially designed in accordance with smart building automation systems.

Bottom Rail
Bottom rail made of galvanized steel profile with 100x230mm dimension and 1,00mm thickness made by press break bending method. It has a fire resistance board inside and equipped with a 90mm wide fire seals and acoustic seals at the point of contact with the ground.

Roller / Barrel
The roller / barrel comprises a seamless steel tube of sufficient diameter and thickness to avoid deflection. Steel shafts and discs are inserted at each end and the whole assembly is supported in bearings mounted on each endplate.

TEST RESULTS



Technical support will be provided to the construction site after order confirmation.

Maximum Sizes 12,000mm wide x 12,000mm high
(Please contact us to discuss if there is a requirement beyond these dimensions)

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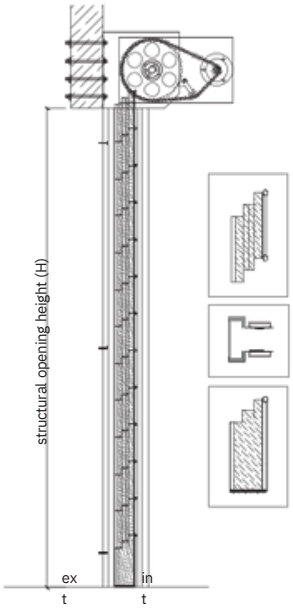
WALL SURFACE INSTALLATION



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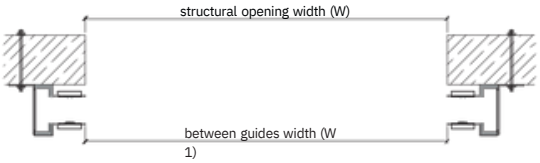
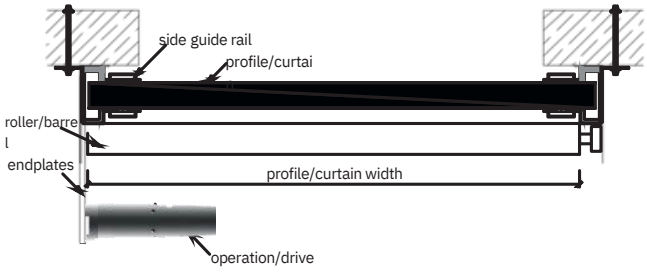
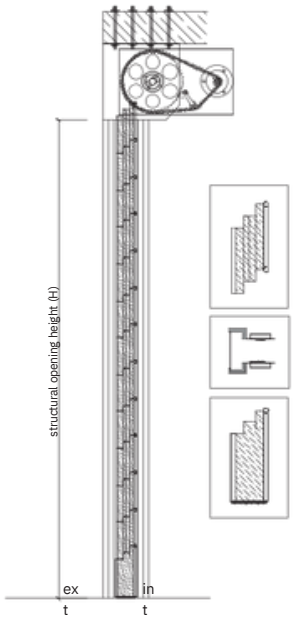


Plan at Guide Level



Plan at Roller/Barrel Level

UNDER THE LINTEL INSTALLATION



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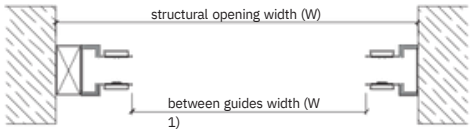
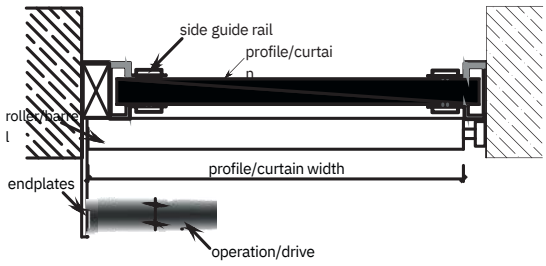


Plan at Guide Level



Plan at Roller/Barrel Level

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