

## DESCRIPTION

TRIAFIRE H is a Horizontal Automatic Fire Curtain that in the case of fire, limits and controls the fire, with classification E120.

The curtain is composed by: fiberglass fabric with polyurethane coating on both sides seamed with reinforced steel wire and fixed to a two steel rollers of 78mm of diameter; galvanized steel elements as head-box, side guides and bottom bar.

All the system is driven at least by two 24Vdc tubular motors, in opposite sides. The control panel for automatic curtains (CBM), has nominal input voltage of 115Vac or 220Vac and output voltage of 24Vdc.

Uninterruptible Power Supply (UPS System) with autonomy up to 6 hours exists in all control panels.

Tested and approved according to the European Standards UNE EN 1634-1 and UNE EN 1363-1.



# triafire h

## OPERATION

The system can be activated by a SHEV, fire alarm contact, internal fire and smoke detection devices, or manual emergency buttons. In the event of a fire, the TRIA's Control Panel (CBM), receives the signal alarm, and the automatic curtain deploys automatically, at constant speed. If there is a false alarm the curtains return to stand-by position automatically after reset of alarm from main Fire Management Systems. In case of main power loss, the curtain will be ready to be activated with batteries at least during the next 24h.

## FABRIC

The fiberglass fabric resists up to 1100°C. The polyurethane coating on both sides guarantees mechanical stability when handling the fabric not only in the sewing process but also during the installation. All seams are done with reinforced stainless steel wires with a coating of Kevlar.

## HEADBOX

Galvanized Steel head-box 1,2mm thickness with different possibilities to adapt to different architectural spaces, and maintenance requirements. Dimensions of the head-box varies depending on width and height of the curtain.

## SIDE GUIDES

Galvanized Steel from 1,5 to 3mm thickness and different dimensions depending on width and height of the curtain.

## ROLLER

Galvanized Steel of 1,5mm thickness and 78mm diameter. Special slide system for fixing the fabric.

## BOTTOM BAR

Galvanized Steel of 1,5mm thickness.

## ELECTRIC MOTOR

TRIA tubular motor 24Vdcc; maximum current 3A per motor  
**Maximum power:** 24 W/ 18,5Nm  
**Average linear speed:** 0.08 m/s

## CRM MOTOR REGULATION BOX

Polyester box IP56 with an electronic board inside to control the movement of the motor.

**Dimensions (W x H x D):** 120mm x 160mm x 75mm

## CBM CONTROL PANEL

Receives the signal alarm from Fire Management System and controls the movement of curtains. Visual and acoustic alert system.

**Dimensions (W x H x D):** from 300x300x210mm to 400x400x210mm

**Input:** 115 or 220 Vac 50Hz

**Output:** 24Vcc

**Battery:** 2 x 12Vcc 7,5 Ah rechargeable (up to 6 hours autonomy)

## OPTIONAL EXTRAS

**RAL coating:** head-box, side guides, bottom bar.

**Stainless steel elements:** head-box, side guides, bottom bar, screws, rivets.

**Headbox:** customized set-up for specific architectural or special operational requirements.

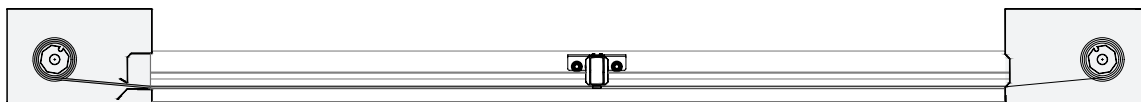
**Side guides:** customized set-up for specific architectural or special operational requirements.

**Electric motor:** special 24Vdc motors up to 80Nm without CRM; Special 230Vac motors up to 120Nm without CRM.

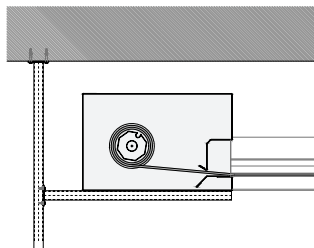
**CBM control panel:** special design in one control panel, additional information output, micro switches, communication with other devices, special battery back-up, possibility of delaying curtain deployment.

**Note:** other requirements and customized solutions on demand.

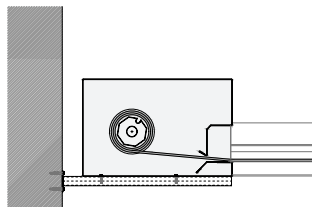
## SECTION



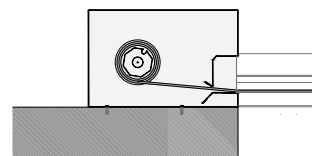
## HEADBOX FIXING



SECTION TOP CEILING

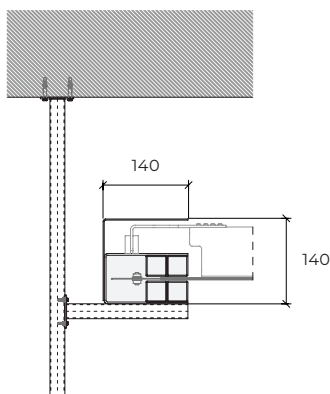


SECTION HORIZONTAL

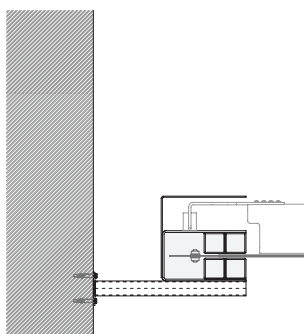


SECTION WALL

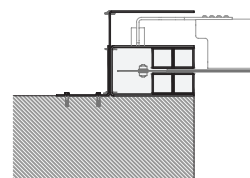
## SIDE GUIDE FIXING



SECTION TOP CEILING

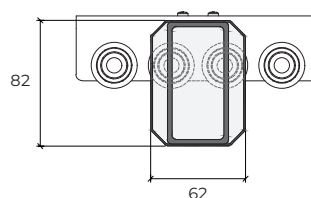
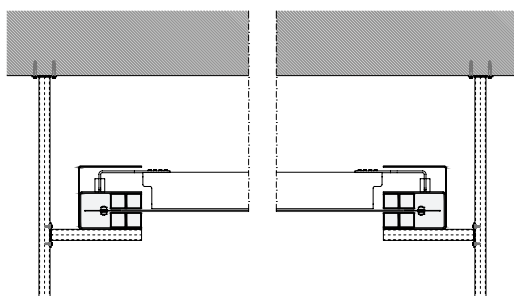


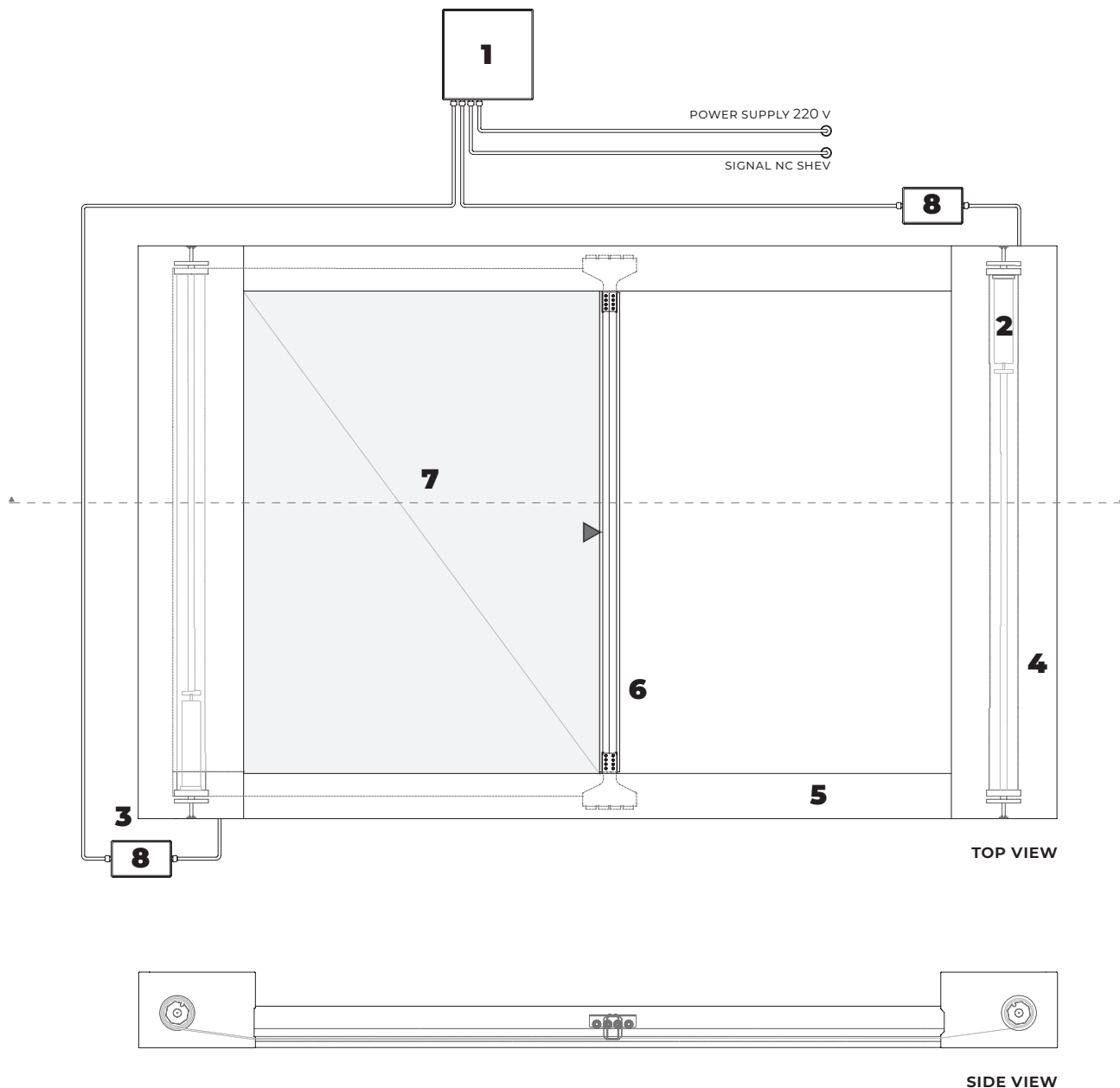
SECTION HORIZONTAL



SECTION WALL

## COUNTERWEIGHT





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|-------------------------------------|--|
| <b>1.</b> control panel CBM         | <b>5.</b> galvanized steel side guides |
| <b>2.</b> TRIA tubular motor 24vdc  | <b>6.</b> galvanized steel bottom bar  |
| <b>3.</b> galvanized steel head-box | <b>7.</b> fire resistant fabric        |
| <b>4.</b> galvanized steel roller   | <b>8.</b> CRM electronic control board |