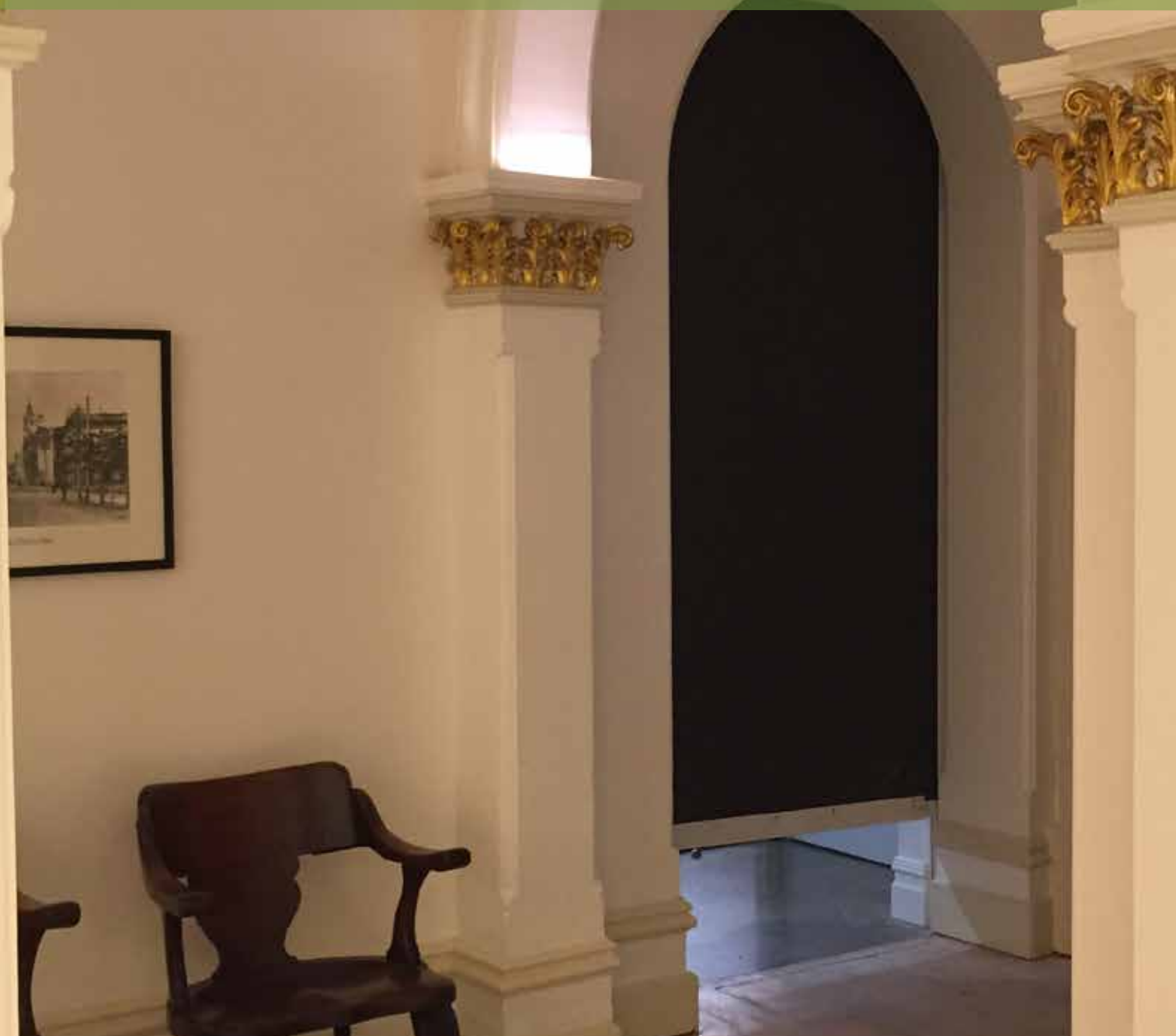


FireMaster® Plus

create tenable zones with insulating zone fire curtain



revision 3.0 november 2017

delivering engineered solutions

FireMaster® Plus

create tenable zones with insulating zone fire curtain

The revolutionary FireMaster® Plus fire curtain incorporates a unique intumescent fabric that was developed and produced by Coopers Fire. It uses a unique rapid reaction graphite flake which expands to over 20 times its original thickness on exposure to heat and fire, creating an insulating carbon barrier to heat.

FireMaster® Plus reduces radiant heat to under 2.5 kilowatts per square meter for over 15 minutes. You can escape safely just a few inches away from a 600°C fire.

| Fire Rating | Max Width | Max Height |
|-----------------|-----------|------------|
| - / 120 / 120 * | 30 metres | 7.5 metres |

operation

FireMaster® Plus will remain retracted within its head box until it is automatically activated by the fire alarm signal. Once activated it will completely close the opening, creating a fire and smoke compartment. Deployment is by gravity at a controlled speed of 0.06 - 0.15m/s. The only true gravity failsafe product on the market.

Testing is performed by a simple key switch. It is reset manually by pressing a reset button on the control panel. Automatic reset is available.

fire curtain construction

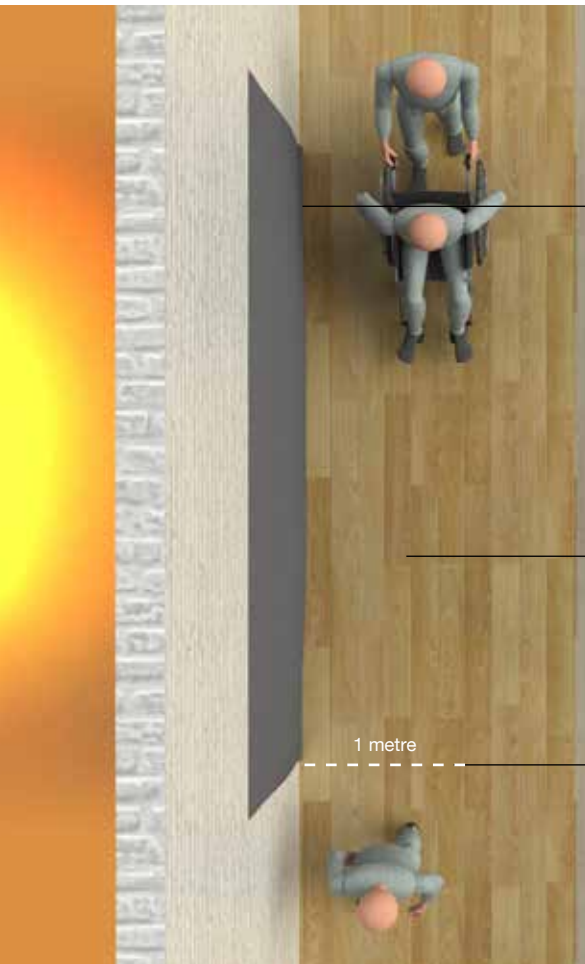
Single roller construction only. Each roller is up to 30 meters wide and has a minimum of 70mm diameter with a wall thickness of not less than 1.5mm. Rollers wider than 4 meters are wide single rollers incorporating Wide Single Roller (WSR) head boxing.

material finish

Metalwork is zinc coated mild steel. This can be painted on site or powder coated to DULUX or RAL colours.



single roller



**FireMaster® Plus
Fire Curtain**
EW60
(60 minutes Radiation)

Means of Escape
Tenable Zone

**FireMaster® Plus
Performance:**
Under 2.5kW/m² at 15 minutes
at 1 metre distance

Benefits

- Provides an equivalent FRL of -/120/120 when the insulation requirement is measured 50mm from the fire curtain
- Does not require sprinklers or drenchers to reduce heat
- Can be used near combustibles and means of egress where insulated barriers are normally used. Pending fire engineered solution



FireMaster® Plus

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headbox installation options



unistrut and drop rods



I beam



face fixed



soffit fixed

side guides

Side guide channels seal the curtain fabric and the building. As fire can cause extreme positive or negative pressures, Coopers' unique fabric locking system has been developed and proven over many years to prevent fire spread and smoke leakage.



end fixed



face fixed



recess fixed
(recommended 5mm gap between
side guide and building material)

fire curtain concealment

Standard bottom bar is Jumbo which is a triangular shaped bar 40mm wide. Also available operable ceiling interface systems (SLAT) in 150mm profile and 75mm stall plate.



flush fit



suspended ceiling with SLAT
(self levelling access trim) for ease
of maintenance through ceiling -
no need for destructive access



removable, reinforced suspended
ceiling with stall plate

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fire rating

Full scale and full assembly fire testing to AS1530.4 providing fire integrity of 2 hours with low radiant heat. Insulation was achieved for 2 hours when measured 50mm from the curtain.

Testing also includes motor testing and proving 12 operating cycles across 30 minutes fire exposure.

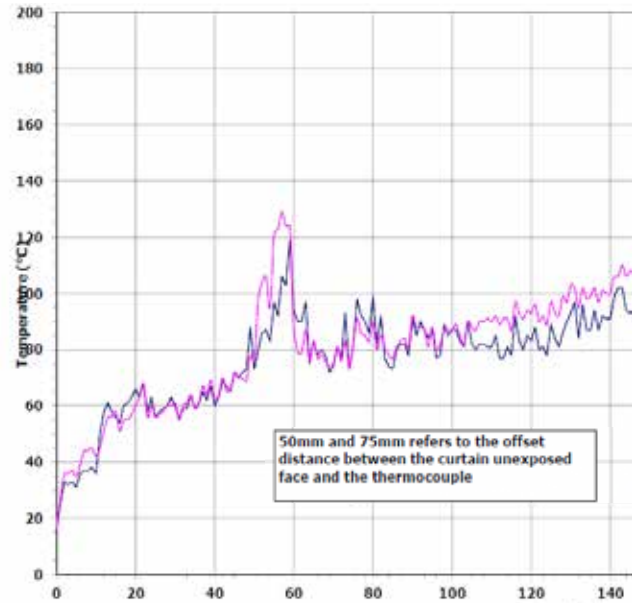
No need to fire protect the headbox or side guides as the complete product is fire rated. Assessment report EXOVA EWFA-RIR-22049.

Incident Irradiance (kW/m²)

| Time (min) | I _o - 0mm | I ₁₀₀₀ - 1000mm |
|------------|----------------------|----------------------------|
| 0 | 0.00 | 0.00 |
| 15 | 3.07 | 2.26 |
| 30 | 4.65 | 3.42 |
| 60 | 7.28 | 5.35 |
| 120 | 11.59 | 8.52 |



insulating zone temperatures



* 120 minutes insulation is achieved when measured 50mm from the face of the curtain

Below: Protected means of escape where the fire stair exits into the lobby instead of the outside of the building.

downloads

[specification](#)

[drawings pdf](#)

[drawings cad](#)

[radiation calculator](#)

[test certificate](#)

