

FireMaster® Concertina™ Plus

insulating fire curtain for protecting voids



revision 2.0 november 2017

delivering engineered solutions

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FireMaster® Plus Concertina™ would be used in preference to the standard FireMaster® Concertina™ where an insulated barrier is preferred or required. The unique Plus fabric provides significantly lower irradiance (approximately 4 times less) through the fire curtain barrier and is a preferred option in areas where there is expected to be egress or combustibles in close proximity to the fire curtain location.

The full benefits of the [FireMaster® Concertina™](#) are achieved with the Plus model. The corners are still required to be formed using the standard FireMaster fabric.

Fire Rating	Max Width	Max Height
- / 120 / -	unlimited	4.5 metres

operation

FireMaster® Concertina™ 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 - 0.1m/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

Concertina™ is a folding fabric fire curtain where the complete construction is concealed in the headbox in the ceiling. The headbox traverses the perimeter of the void in a uniform design.

The fabric is constructed in strips forming a pleated design. These are stitched together horizontally. The material keeps the memory of the folds as manufactured. Each corner is specifically cut, folded and constructed to create any angle from 60° to 180°. As the bottom tray deploys, these pleats unfold. During retraction of the curtain the pleats will neatly fold back to their stored position

many design configurations



Benefits

- Ideal for use in unsprinklered buildings or to protect near combustibles such as in museums and galleries
- Low radiant heat performance to the majority of the fire barrier
- Does not require any visible support posts at the corners



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headbox installation options



unistrut and drop rods



I beam



soffit fixed

side guides (open shapes only)

Concertina™ doesn't need to completely surround the perimeter of a void or connect back to itself. It can connect into a fire wall with side guides.



recess fixed



face fixed

material finish

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

fire curtain concealment

Standard bottom tray is 300mm wide and provides complete access into the headbox when deployed.



flush fit



suspended ceiling with SLAT (self levelling access trim) for custom shapes

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fire rating

Full scale and full assembly fire testing to AS1530.4 providing fire integrity of 2 hours. 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-26822.

Incident Irradiance (kW/m²)

Time (min)	I ₀ - 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



Pressurisation testing above 60Pa. See our [TAL fit out case study](#) for more details.

downloads

specification

drawings pdf

drawings cad

radiation calculator

test certificate

