

SMOKEMASTER SM-ST

PRODUCT DESCRIPTION

A Colt Smokemaster SM-ST fixed smoke curtain provides an uninterrupted barrier against smoke in the event of a fire. The formation of a barrier prevents the spread and cooling of hot fire gases. Smoke curtains are an integral part of a smoke and heat control system to EN 12101-1.

APPLICATIONS

The curtain is suitable for providing smoke compartments in different kinds of buildings. Its low weight means that it has little influence on the structural stability of the roof. It is easily and quickly installed, since it is equipped with a variety of different types of fixings.

FEATURES AND BENEFITS

The smoke curtain material consists of a glass fibre fabric with a stabilising polyurethane coating, and it is resistant to high fire gas temperatures. Its design allows for an unlimited length and an overall height of up to 15 metres.

Designed to support fire protection and life safety strategies in accordance with NFPA 13 (Section 4.9.2) – Installation of sprinkler systems; NFPA 92 / NFPA 204 – Smoke and heat exhaust systems; and NFPA 409 (Section 7.18) – Aircraft hangars



Description of the product

The angle bracket and the clamping profile are prepunched to accommodate rivets. The hole pattern is continuous across the butt joints and enables the fabric strips to be quickly and easily installed. The lower end of the cloth loop serves to hold the weight profile, which is pushed into the loop and is connected using fixings (D class version).

If SM-ST systems are used to close off residual openings above automatic smoke curtains, the fabric has no loop and is fixed directly to the headbox of the automatic smoke curtain.

Angle bracket, clamping profile and weight profile are made from galvanised steel. The overlaps of the fabric can be covered with a spray adhesive which has been approved by the testing authority. Approved fixings are used. The fixings can be up to 1.5m apart.

Technical data

Length:	1.0 m to an infinite length	Weight:	9kg/m (D) 11kg/m (DH)
Unit height:	0.5 to 15 m	Cloth weight:	455g/m ² (D) 690g/m ² (DH)
Fabric overlap:	100 mm (D class version)	Bottom bar:	¾" round tube, (D) 5/25 steel flat profile, (DH)

Application Areas and NFPA Compliance

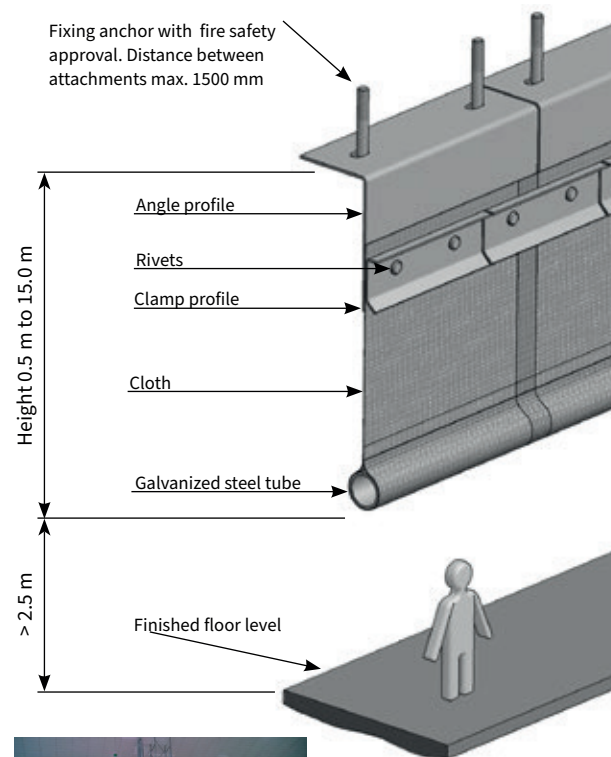
The Smokemaster SM-ST is suitable for use as a draft curtain in the following application areas, where relevant NFPA standards may be applied:

General Building Applications

Standard	Application Area	Technical Specification / Consideration
NFPA 13 (Section 4.9.2)	Sprinkler systems / building materials	Classified as a limited-combustible material; remains intact at temperatures exceeding 600 °C for up to 180 minutes.
NFPA 13 (Section 9.3.5.2)	System geometry	Suitable for use where draft curtain depths meet the minimum required length of 460 mm (18 inches).
NFPA 92 / NFPA 204	Smoke management systems	Suitable for smoke management applications with an operational performance duration of up to 180 minutes at temperatures up to 600 °C.

Specialist Applications

Standard	Application Area	Technical Specification / Consideration
NFPA 409 (Section 7.18)	Aircraft hangars	Suitable for use in aircraft hangar smoke management applications, subject to project-specific geometric and thermal design requirements.



KEY FEATURES

Time / temperature classification

D 120 (600°C/120min.)
DH 60

(945°C to standard time/ temp curve)

DH 120
(1049°C to standard time/ temp curve)

Tested and certified to

EN 12101-1

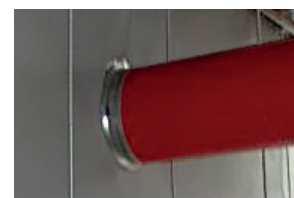
Approved with EU conformity and the cloth is tested to EN 13501-1

Length: 1m to an infinite length

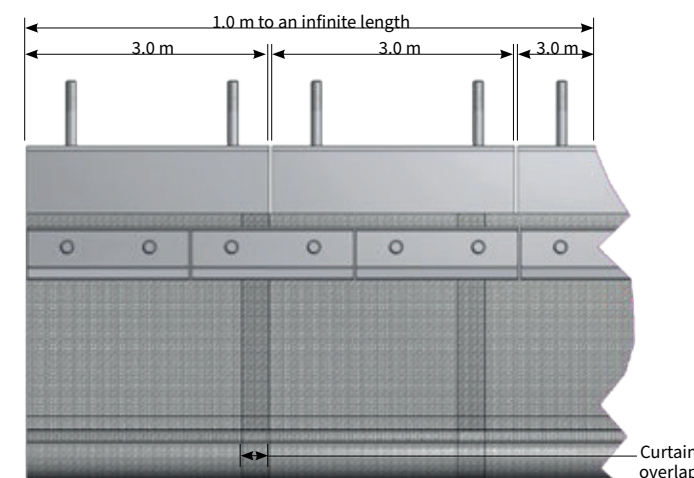
Unit Height: up to 15m



The system can be easily and quickly attached to the existing building structure



Since metal sleeves are prefabricated, penetrations of various sizes and formats can be easily produced.



Example unit to table 1 EN 12101-1 (D class)

