

SmokeSafe D120

CE Marked according to BS EN 12101-1:2005+A1:2006 Annex ZA with its Assessment and Verification of Constancy of Performance (AVCP) by Warrington Certification Ltd.

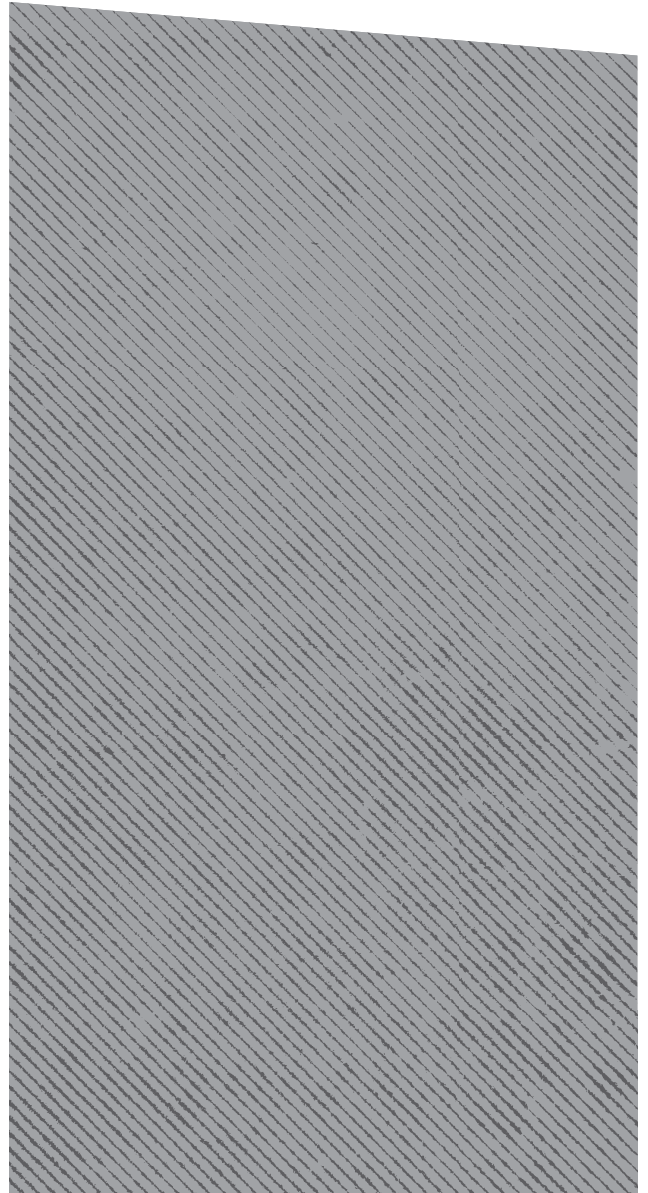
The system has a fire resistance performance in accordance with Annex D, achieving a D_{600} A classification in accordance with BS EN 13501-4:2007+A1:2009 (600°C, over 120 minutes) when tested in accordance with BS EN 1363-1:2012.

Reliability, response time and durability tests were carried out in accordance to Annex B, to determine the durability of the system. The SmokeSafe D120 system is designed to operate to more than 3 000 cycles (the standard only requires 1 000 cycles) at normal ambient temperatures to Category ASB1 and ASB2.

Air permeability tests in accordance with Annex C specifies that the leakage rate when tested is less than $25\text{m}^3/\text{hr}$ per m^2 when tested in accordance with BS EN 1634-3:2004. The tested results at 25 Pa under positive pressure resulted as 2.09m^3 per m^2 , under negative pressure at -25 Pa resulted as 1.85m^3 per m^2 all at Ambient temperature.

The fabric curtain weight is around $455\text{g}/\text{m}^2$ and is coated with a fire-retardant polyurethane on both sides providing a heat reflecting surface. The fabric has a nominal thickness of 0.4mm and is a 4-satin shaft weave.

The fabric has been independently tested for reaction to fire in accordance with BS EN ISO 1716:2010 and BS EN 13823:2010+A1:2014, achieving a classification of A2-s1, d0 in accordance with BS EN 13501-1:2007+A1:2009.



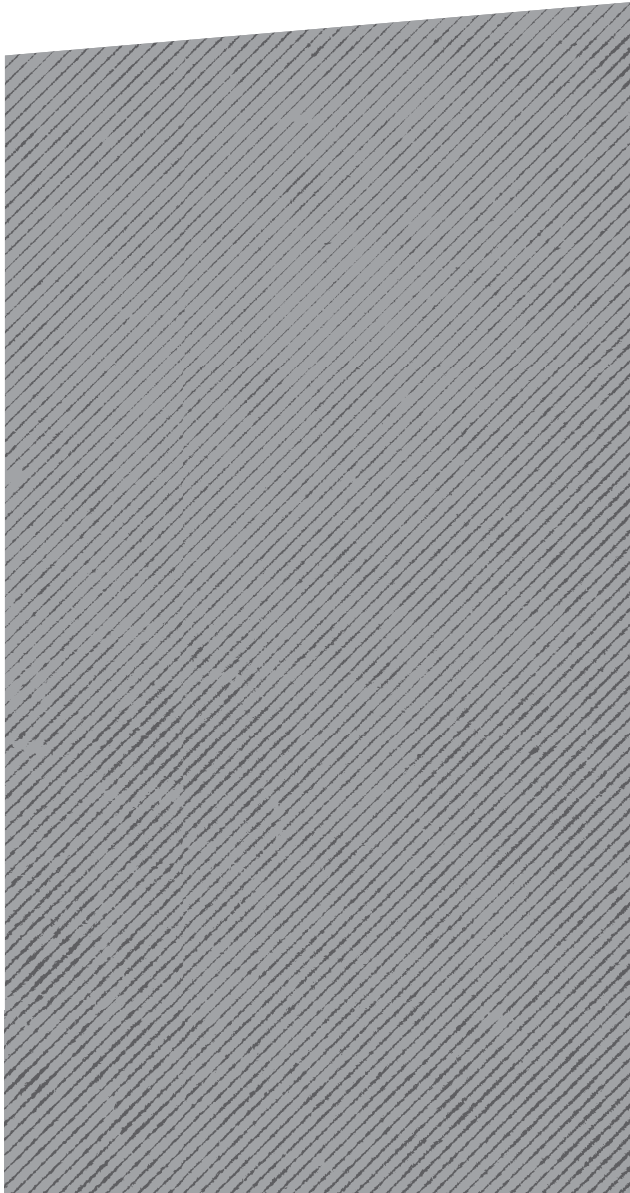
Disclaimer

Smoke & Fire Curtains Ltd. has a policy of continuous product improvement. As such we reserve the right to change design and specifications without prior notice. Please check our website for the latest information. The fabric swatch is not intended to be tampered with. The swatch is glass fibre based and if damaged could become an irritant when handled so please ensure you wash your hands after handling.

Smoke & Fire Curtains Ltd

9 Brook Street, Syston, Leicester. LE7 1GD
e: enquiries@firecurtainsltd.com

t: + 44 (0)116 352 7223
w: firecurtainsltd.com



SmokeSafe D120

SmokeSafe is enclosed within a Zintec steel headbox and this structure is rated at the same temperature as the curtain fabric. Removable cover plates are incorporated to allow access to the curtain rollers. A suitably weighted bottom bar is provided to prevent deflection and ensure correct operation under gravity.

Smoke barriers in their fire operational position will provide essential smoke containment and channelling and shall be defined according to their application type.

When smoke is detected the alarm sends a signal to the SmokeSafe system controller. The SmokeSafe starts to descend to its operational position to a designed/specified height from finish floor level. All smoke and heat control system assist the protection of the means of escape.

Function of Active Smoke Barriers

- To create a smoke reservoir by containing and limiting the travel of smoke
- To channel smoke in a pre-determined direction
- To prevent or retard smoke entry into another area or void

Smoke (Fire Effluent) Leakage (containment efficiency)

Gaps need to be minimised between the smoke barrier and the construction work.

- a 20mm gap per barrier movement up to and including 2m;
 - a 40mm gap per barrier movement from 2m up to and including 6m;
 - a 60mm gap per barrier movement from 6m and over
- These gaps should not prejudice the fitness for purpose of the system.

Smoke Curtain Barrier Applications Types

- Shop unit containment
- Stairwell containment
- Smoke reservoir boundaries
- Void edge screens
- Escalator containment
- Elevator wells containment
- Channelling screens
- Void edge sealing

SmokeSafe D120 - Headbox Sizing Chart

Curtain Drop	Single Box Standard Size (W x H)	Double Box Over / Under Size (W x H)
Up to 3m	160 x 160mm	160 x 320mm
3m to 8m	200 x 200mm	200 x 400mm
8m to 12m	210 x 240mm	210 x 440mm