

SmokeStopp

Automatic Smoke Curtain



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AUTOMATIC SMOKE CURTAIN SYSTEM

The functions of Automatic Smoke Curtain System are to facilitate the movement of hot smoke by containing and slowing down the movement of smoke from one smoke zone to another in the building, and to channel the smoke in a fixed path for smoke extraction via mechanical or natural means.

The objectives of automatic smoke curtain are similar to static smoke barrier, except for the capacity to retract and stay aesthetically concealed in the false ceiling unless activated.

SmokeStopp is equipped with PU coated fiberglass fabric (SC430PU), grey in colour, with area density of 0.46kg/m² & thickness of 0.43mm. The joint of the fabrics is secured with para-aramid steel sewing thread to make sure the entire system is not compromised.

The classification of SmokeStopp's "SC430PU" smoke curtain fabric material, in accordance with BS EN 13501-1: 2007 +A1: 2009 is : A2.s1.d0



SmokeStopp - PU Coated Fiberglass Fabric (SC430PU)



1. CREATING SMOKE RESERVOIRS

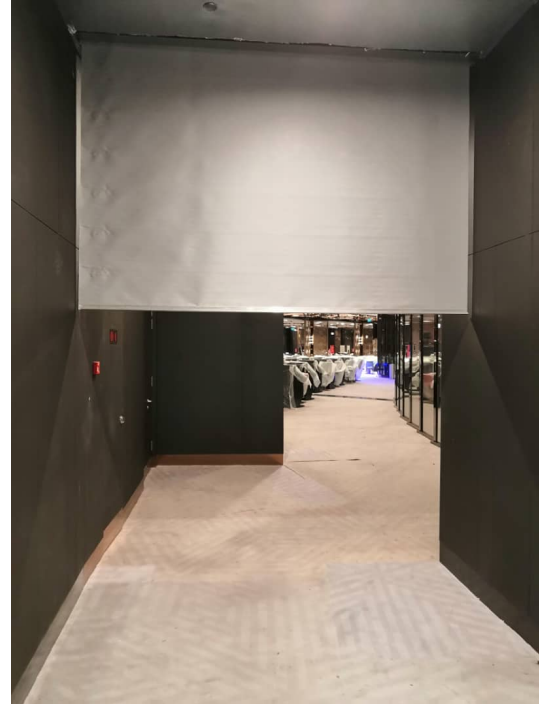
Escalators voids with gaps between floor compartments are sealed off in the event of a fire to stop the spread of fire and smoke from lower to upper levels.

2. CHANNELING BARRIERS

Mixed Development Buildings and warehouses with huge floor areas are separated in various smoke zones to comply with fire strategy. The smoke curtains are in place to channel the toxic smoke into designated zones for extraction by smoke exhaust fans or natural.

3. VOID EDGE BARRIERS

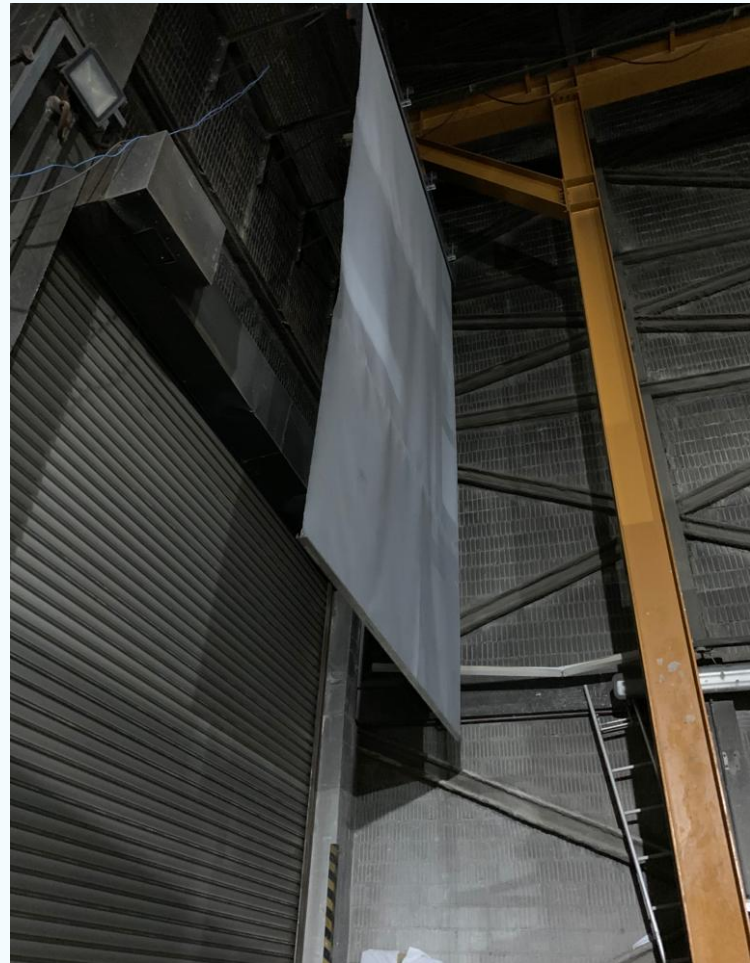
To prevent spread of smoke from ground level to upper levels as per design in compliance to building fire strategy.



Automatic Smoke Curtain System is made up of steel headbox which provides compact enclosure for the roller, fibreglass fabric and tubular motor.

The roller, coupled with heavy duty roller bearing, is driven by 24VDC tubular motor to retract and deploy the fibreglass fabric to its operational position at a controlled speed conforming to EN 12101-1: 2005+A1: 2006 Annex B (Reliability & Response Time Tests). The fibreglass fabric has a weight of 0.46 kg/m² and thickness of 0.43mm which is tested to 600 °C for over a period of 120mins, in accordance to EN 12101-1 Annex D (Fire Resistance Test).

A weighted steel bottom bar is secured at the bottom of the fabric to minimize the deflection while descending to its operational position under gravity.



Reliability Test of 3m x 7m Drop Curtain



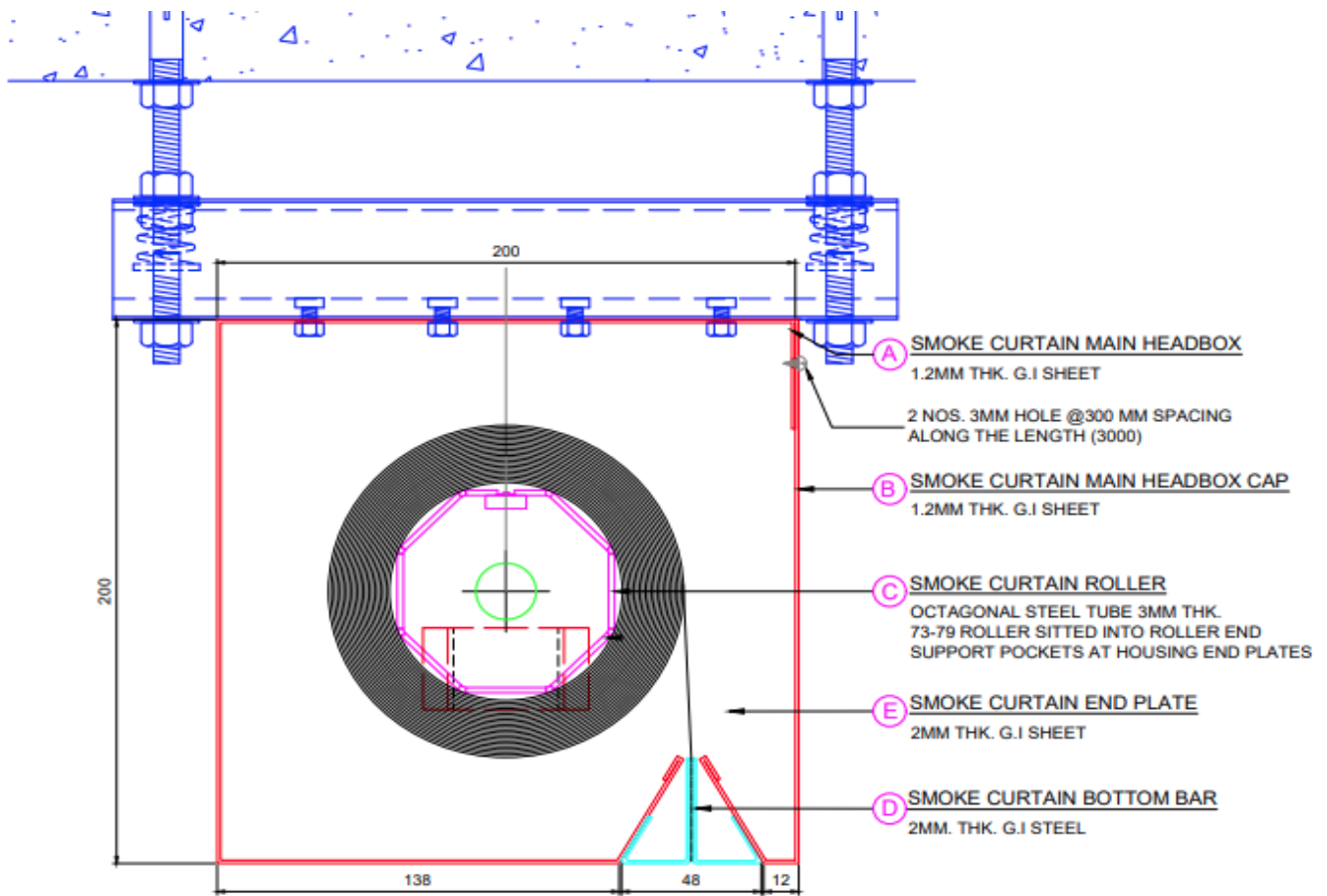
Temperature / Time Resistance

Achieved Standards

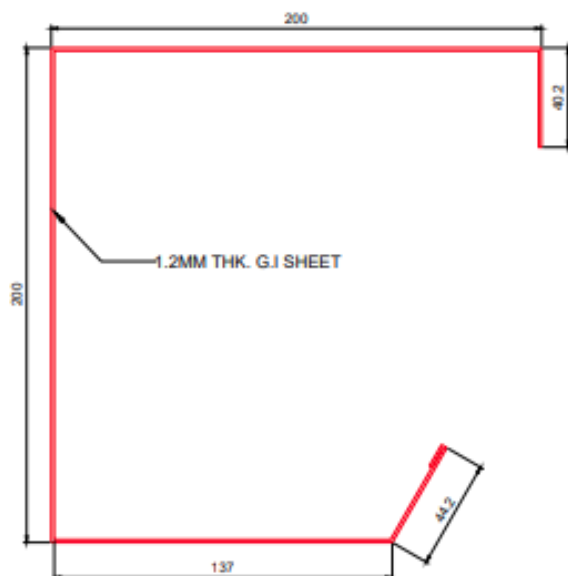
Reliability and Response Time	BS EN 12101-1: 2005+A1: 2006 Annex B
Permeability	BS EN 12101-1: 2005+A1: 2006 Annex C
Temperature / Time Resistance	BS EN 12101-1: 2005+A1: 2006 Annex D & BS EN 1363-1: 2012: Part 1
Reaction to Fire	BS EN 13501-1:2007 +A1: 2009

SINGLE HOUSING

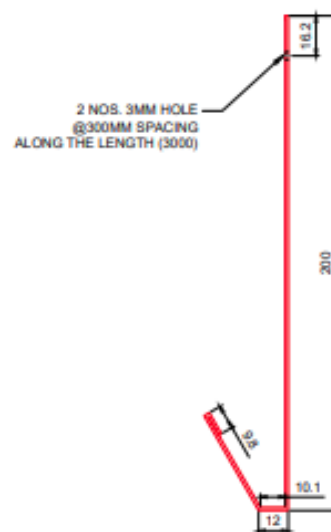
MULTIPLE ROLLER SMOKE CURTAIN DATA SHEET



1 SMOKE CURTAIN ASSEMBLY
SCALE 1:3



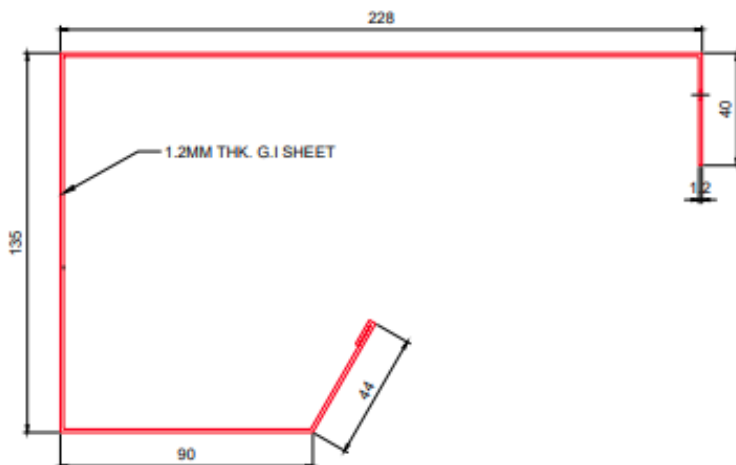
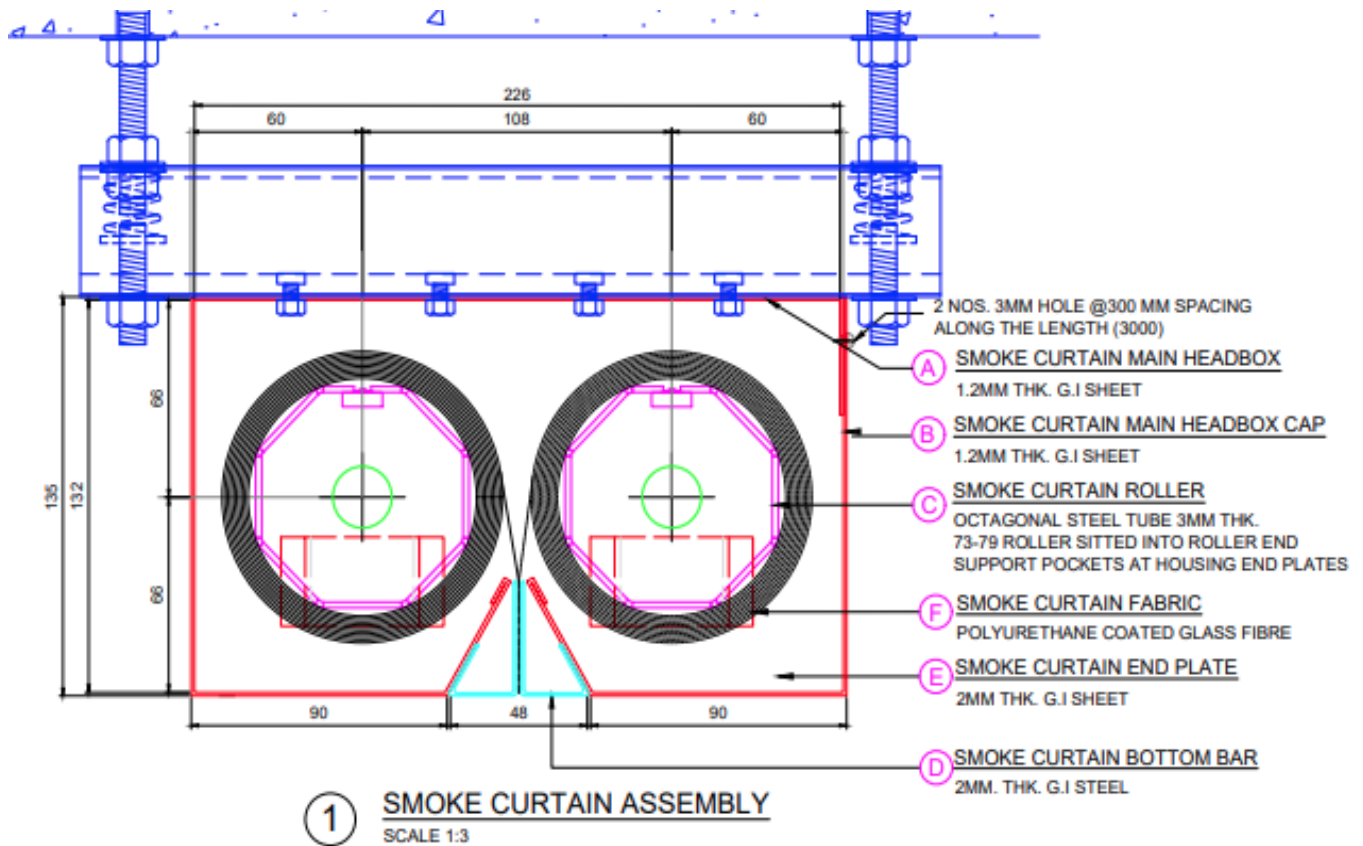
A SMOKE CURTAIN MAIN HEADBOX
1.2MM THK. G.I SHEET



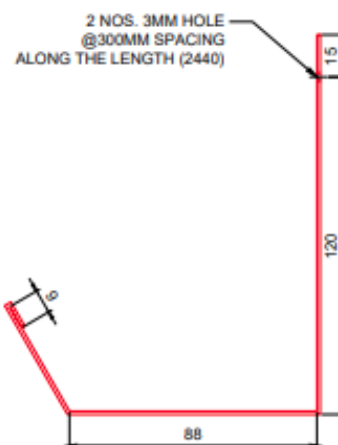
B SMOKE CURTAIN MAIN HEADBOX CAP
1.2MM THK. G.I SHEET

DOUBLE HOUSING

MULTIPLE ROLLER SMOKE CURTAIN DATA SHEET



(A) SMOKE CURTAIN MAIN HEADBOX
1.2MM THK. G.I SHEET



(B) SMOKE CURTAIN MAIN HEADBOX CAP
1.2MM THK. G.I SHEET



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