



ABS PIPE

(ABS008/25 - 25mm)

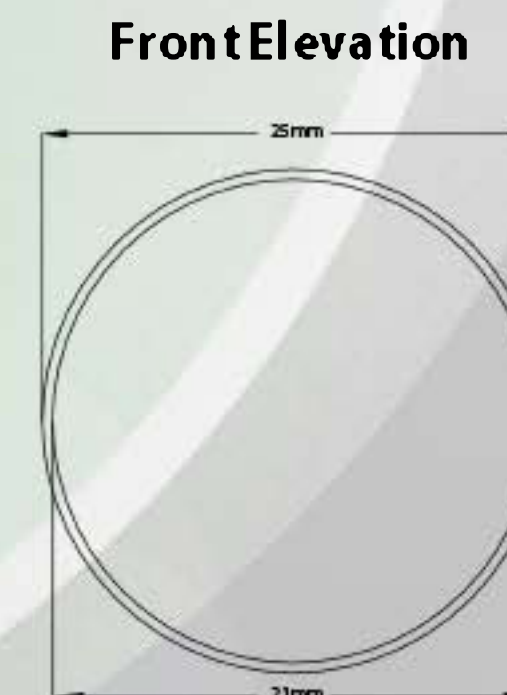
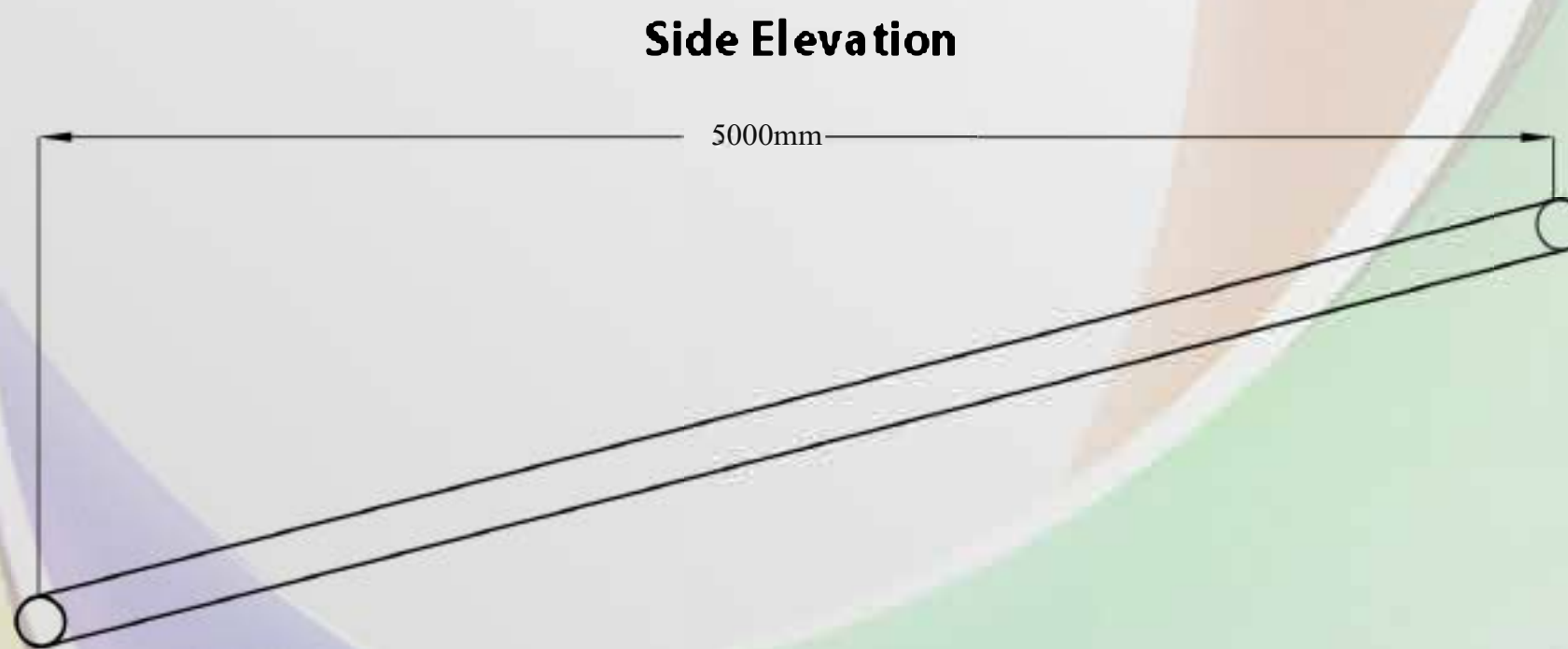
5 Meter ABS 25mm aspirating smoke detection pipe EN54 - 20 Approved. Pipe is designed for aspirating fire detection only.

Installation Instructions:

- Do not bend the pipe. Do not paint. Keep pipe clean and free from dust.
- Do not install in direct sunlight. Only install with approved fittings.
- Do not use solvents to clean, only soapy water.
- Only use approved pipe plastic cutters to cut the pipe.
- Ensure that pipe cutters are sharp.
- When ambient temperatures outside are 15°C to 25°C use pipe expansion joints.

Pressure Rating: 9 Bar at 20°C
Operating Temperature: -40°C to 70°C
Pipe Colour: RED
Diameter Tolerance: +/- 0.15mm
Wall Thickness: 1.85mm - 2mm
Outside Diameter: 25mm
Internal Diameter: 21mm
Weight: 500 Grams

BSI Test Details:
 Test No: 3159127
 Dated: 9th June 2020
 BS EN 54-20:2006 Clause 5.7 (BS EN 61386-1:2008 Clauses 10.2, 10.3 and 12.2)



Bracket Spacing Intervals

Plastic pipe lines require regular support, and the spacing of clips or brackets depends on the pipe used, temperature and density of the liquid carried.

25mm pipe size bracket spacing in meters:

20°C	30°C	40°C	50°C	60°C	70°C
1.00	0.95	0.86	0.75	0.70	0.60

RAW MATERIAL DATA

Number: ABS 792
Acrylonitrile Butadiene Styrene

Product:
 Specific Gravity 1.04
 Test Method ASTM D792

Melt Mass - Flow Rate (MFR)
 230°C/21.0 kg 47 g/10 min
 230°C/3.0 kg 4.1 g/10 min
 220°C/10.0 kg 34 g/10 min
 Test Method ASTM D1238

Molding Shrinkage -
 Flow 0.0040 to 0.0070 in/in
 Test Method ASTM D955

Mechanical:
 Tensile Strength
 Yield, 73°F (23°C)
 1.97 in (50.0mm)
 6670 psi
 Test Method ASTM D638

Tensile Elongation:
 Yield, 73°F (23°C)
 1.97 in (50.0 mm) 15%

Char. Modulus:
 73°F (23°C)
 0.118 in (3.00 mm)
 31200 psi
 Test Method ASTM D638

Char. Modulus:
 Yield, 73°F (23°C)
 0.118 in (3.00 mm)
 9230 psi
 Test Method ASTM D738

Impact:
 Notched Izod Impact
 73°F (23°C) 0.128 in (3.20 mm) 5.5 ft-lb/in
 73°F (23°C) 0.252 in (6.40 mm) 4.8 ft-lb/in
 Test Method ASTM D738

Flexural:
 Recovered Flexural Modulus 100
 Test Method ASTM D790

Thermal:
 Deflection Temperature Under Load
 264 psi (1.8 MPa), Unannealed 185°F/85°C
 Test Method ASTM D648

Heat Softening Temperature: 205°F/95°C
 Test Method ASTM D1525

Flammability:
 Flame Rating
 0.0896 in (2.28 mm) HB
 0.0896 in (2.28 mm) HB
 0.126 in (3.20 mm) HB
 Test Method UL 94

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