



ABS PIPE

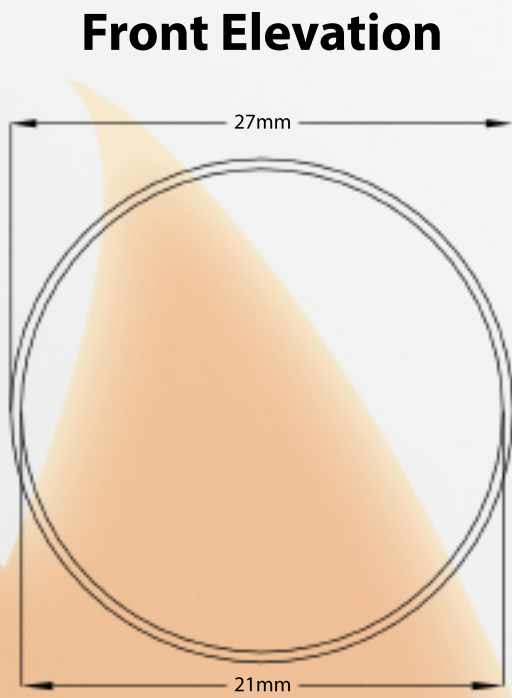
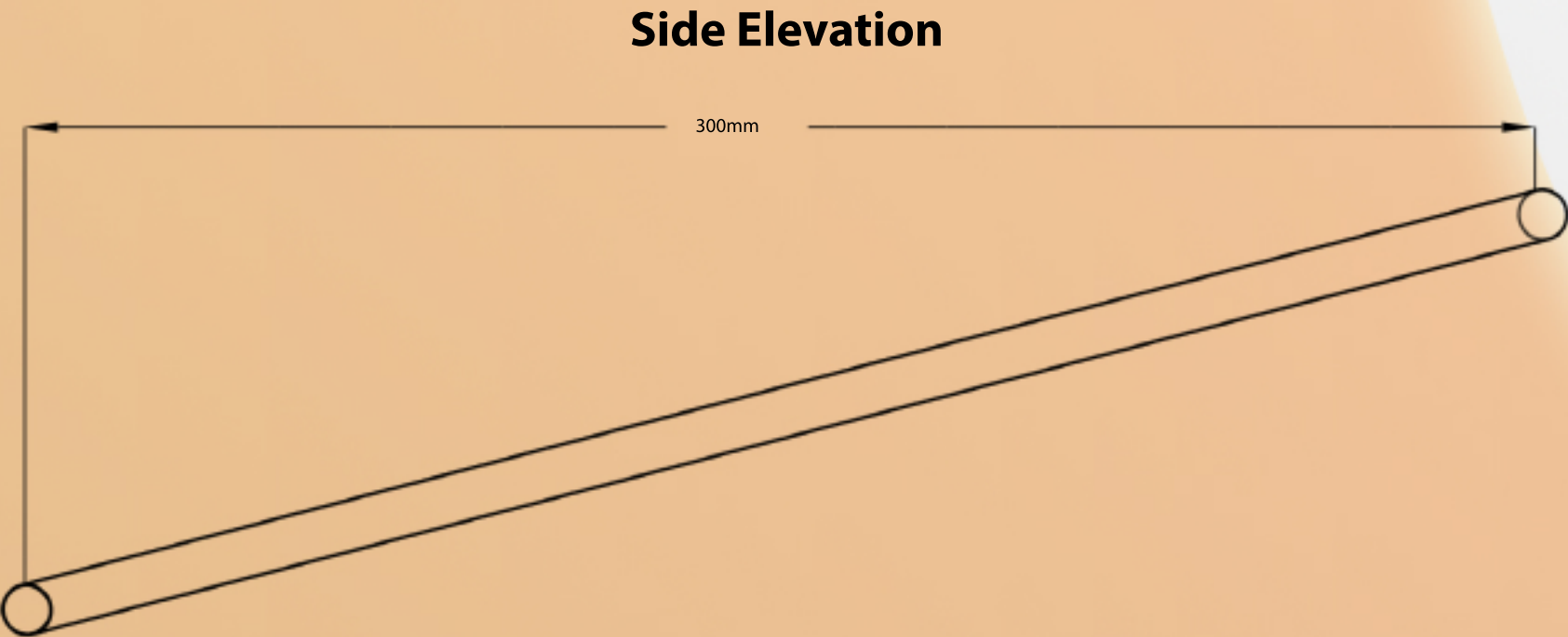
(ABS008/27 - 27mm)

3 Meter ABS 27mm 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.
- Pipe clips are required every 800mm
- 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.

Part No.	ABS008/27
Pipe colour	RED
Text colour	WHITE
Diameter Tolerance	+/- 0.15mm
Test by BSi to	EN54-20:2006 Clause 5.7
Test report	2381/74533753
Text description	“Aspirating Smoke Detection Pipe”



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	0.85	0.75	0.70	0.60

The Butadiene constituent of ABS enhances impact strength and toughness at temperatures ranging from -40°C to 70°C and gives exceptional resistance to accidental damage*.

*Pipe work must be installed to accommodate thermal expansion.

RAW MATERIAL DATA

Kumho ABS 750
Acrylonitrile Butadiene Styrene

Pysical:

Specific Gravity 1.04
Test Method ASTM D792
Melt Mass - Flow Rate (MFR)
200°C/21.6 kg 47 g/10 min
200°C/5.0 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%
Test Method ASTM D638

Flexural Modulus
Yield, 73°F (23°C)
0.118 in (3.00 mm)
312000 psi
Test Method ASTM D638

Flexural Strength
Yield, 73°F (23°C)
0.118 in (3.00 mm)
9230 psi
Test Method ASTM D790

Impact
Noched Izod Impact
73°F(23°C), 0.126 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 D256

Hardness
Rockwell Hardness (R-Scale) 108
Test Method ASTM D785

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

Vicat Softening Temperature 203°F/95°C
Test Method ASTM D1525

Flamibility
Flame Rating
0.0630 in (1.60 mm) HB
0.0866 in (2.20 mm) HB
0.126 in (3.20 mm) HB
Test Method UL 94

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