

Product Data Sheet

Firestop™ AK - 320 CABLE PENETRATION FIRE SEALING SYSTEM TYPE"B"

Firestop™ - AK - 320 is an integrated fire proof sealing system which prevents the spread of fire through cables & cable trays through various openings within all types of openings specially openings below panels for critical & Fire porne areas.

Tested & approved as per BS: 476 (20) & EN-1366-4 at Warrington Fire Research Laboratory, Belgium

System Features & Details:

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|---|-------------------|--|
| 1 | System Type | Fire Rated PU Foam, Panel & Wool based integrated Fire Sealing System |
| 2 | System Inclusions | 50 mm Thick Fire Rated Foam, 1 x Composite Fire Board 12 mm thick, 2 x Insulation slab 50 mm thick, Sealant, Top Coat Mastic & other ancillaries as required. |
| 3 | Sizes | Customized and erected at site as per the requirement of applications. |
| 4 | Life expectancy | 40 years Minimum unless damaged by Fire or Heavy mechanical impact |
| 5 | Erection Pattern | Nut bot type system mechanically supported to parent Roof / Floor / Wall / Cable trays does not has any load impact over Cables, Electrical panels or any other equipment. |
| 6 | Retrofitting | Extremely supportive needs very less effort and can be done without any specialist, board & foam Sealant can be drilled cut & infilled insulation can be cut using a knife and new cables can be laid, further the sealant can be applied on small gaps lef, after drying the system is ready. |
| 7 | System strengths | <p>Most advanced and accepted system, having excellent strength compared to the orthodox system of Mortar or Insulation/Coating based system.</p> <p>Has minimum limitations, is suitable for all types of applications irrespective of load, support availability, anti-gravity and indoor/outdoor applications.</p> <p>Has maximum life expectancy, is 100% water/moisture proof, resists maximum vibration no periodic maintenance required (unless a fire incident happens).</p> <p>Single product suitable for all the applications no multi-product/system is required for different applications, no multi-selection is required.</p> |

System Components and technical details:

(a) Composite Fire Board

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| 1 | Product Category | Parent Product will be considered for measurement of supply/erection |
| 2 | Standard Size | 12 mm (thk) x 1220 mm x 2440 mm |
| 3 | Bulk Density | 1440 kg. per Cubic Meter ± 10% |
| 4 | Colour | Light Grey |

5	Property Against Moisture	100% water proof, water emersion test of seven days is carried for each batch
6	Flash Point	NA
7	Toxicity / Hazardous	100% non toxic, non hazardous, asbestos free, environment friendly
8	Mechanical properties	Non Combustible & High density compressed composite board having great mechanical strength especially for high vibration areas.
9	Testing / Codes	Tested along with complete system as per BS: 476 (20) & UL: 1479 (ASTM E814) for 04 hours by NABL accredited Lab.
10	Shelf Life	5 Years from manufacturing (under prescribed storage conditions).

(b) Fire Rated Expandable Foam - SOUDAFOAM FR

1	Product Category	One of parent product but billed as Ancilliary - Supplied free of Cost as per quantity required for specified job quantity
2	Consistency	Stable Foam
3	Packing	750 ml Aerosol Can
4	Colour	Light Red
5	Drying Time/Hard Dry	2 hours / 8-24 hours
6	Flash Point	Nil
7	Toxicity / Hazardous	Non Toxic / Non Hazardous
8	Testing / Codes	Tested as per BS: 476 part 20, EN-1366-4 up to Fire Ratings of 04 hours
9	Shelf Life	9 months from Manufacturing date

(c) High Density Mineral Wool Panel

1	Product Category	Ancillary - will be supplied FOC (whatever qty required at site)
2	Standard Size	50 mm (thk) x 500 mm x 700 mm (length and width may vary)
3	Bulk Density	125 kg. per cubic meter \pm 14 kg.
4	Colour	Light Brown (as per rock shades)
5	Property Against Moisture	100% water proof, product is not exposed to fire / moisture directly
6	Flash Point	NA
7	Toxicity / Hazardous	100% non toxic, non hazardous, asbestos free, environment friendly
8	Mechanical properties	Very Flexible having porous property to lock Air, Smoke & temperature
9	Testing / Codes	Tested along with complete system as per BS: 476 (20) & UL: 1479 (ASTM E814) for 04 hours by NABL accredited Lab.
10	Shelf Life	3 Years from manufacturing (under prescribed storage conditions).

(d) Flame Seal Sealant & Top Coat Mastic - MC 1200

1	Product Category	Ancillary - will be supplied FOC (whatever qty required at site)
2	Standard Packing	5 Gallons app - 19 litre (PVC Pails)
	Bulk Density	Sealant - 1 litre = 1.5 kg. \pm 0.100 (used to seal joints & Gaps)
3		Mastic - 1 litre = 1.25 kg. \pm 0.100 (applied on complete system)
4	Colour	White
5	Property Against Moisture	Water Based Product / 100% water proof
6	Flash Point	NA
7	Toxicity / Hazardous	100% non toxic, non hazardous, asbestos free, environment friendly
8	Application Method	Can applied by spraying, brushing & trowel
9	Testing / Approvals	UL Listed, FM Approved
10	Shelf Life	3 Years from manufacturing (under prescribed storage conditions).
11	PH Factor	7 to 11

(e) Perforated MS Angles

1	Product Category	Ancillary - will be supplied FOC (whatever qty required at site)
2	MOC	Mild Steel
3	Size	1.5 mm x 38 mm x 38 mm x 2000/2500/3000 mm
4	Type of Construction	Perforated
5	Use	To provide extra ordinary strength to system especially for high Vibration areas
6	Shelf Life	3 Years from manufacturing (under prescribed storage conditions).

(f) Anchor Fasteners

1	Product Category	Ancillary - will be supplied FOC (whatever qty required at site)
2	MOC	Mild Steel with Cadmium Coated
3	Size	m8 x 75 mm
4	Type of Construction	PIN TYPE
5	Use	To provide extra ordinary strength to system especially for high Vibration areas for erection of system with support of Concrete and Brick Walls/floor.
6	Shelf Life	3 Years from manufacturing (under prescribed storage conditions).
7	Packing	(PVC / Gunny Bags) 1500 / 1750 nos.

(g) Bolt, Nuts & Washers

1	Product Category	Ancillary - will be supplied FOC (whatever qty required at site)
2	MOC	Mild Steel
3	Size	m8 x 40 mm
4	Type of Construction	Hex Head
5	Use	To provide extra ordinary strength to system especially for high Vibration areas for erection of system with metal structure / cable trays, etc.
6	Shelf Life	3 Years from manufacturing (under prescribed storage conditions).
7	Packing	(PVC / Gunny Bags) 50 kg. Or less

Application Method

Kindly refer to FQAP i.e. Field Quality Assurance Plan provided by AEFS.

For more information please contact us at:

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