

Product Data Sheet

Firestop™ AK - 318 CABLE PENETRATION FIRE SEALING & BARRIER SYSTEM TYPE"B"

Firestop™ - AK - 318 is an integrated Fire Proof Sealing & Barrier System which prevents the spread of fire within running cables & cable trays through various openings within Walls, floors, roofs, floor openings below panels, long run of cable trays, etc. The System is suitable for both indoor & outdoor application areas.

The complete system has been tested & approved as per BS: 476 (20), UL:1479 & ASTM E814 for 04 hours by NABL accredited Lab.

SYSTEM FEATURES & DETAILS:

1	System Type	Panel & Wool based integrated Fire Sealing System
2	System Inclusions	One layer of Composite Fire Board 12 mm thick and 2 layers of Insulation boards 50 mm thick, Sealant, Top Coat Mastic & other ancillaries as required.
3	System Rating	Fire Rating up to 04 hours as per BS: 476 Part-20, tested & approved by CBRI, Roorkee & NABL Accredited Labs.
4	Sizes	Customized and erected at site as per the requirement of applications.
5	Life expectancy	40 years Minimum unless damaged by Fire or Heavy mechanical impact
6	Erection Pattern	Nut bolt 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.
7	Retrofitting	Extremely supportive needs very less effort and can be done without any specialist, board can 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 left, after drying the system is ready.
8	System strengths	Most advanced and accepted system, having excellent strength compared to the orthodox system of Mortar or Insulation/Coating based system. Has minimum limitations, is suitable for all types of applications irrespective of load, support availability, anti-gravity and indoor/outdoor applications. Has maximum life expectancy, is 100% water/moisture proof, resists maximum vibration no periodic maintenance required (unless a fire incident happens). Single product suitable for all the applications no multi-product/system is required for different applications, no multi-selection is required.

SYSTEM COMPONENTS & TECHNICAL DETAILS:

(a) Firestop™ Composite Fire Board

1	Product Category	Parent Product will be considered for measurement of supply/erection
2	Standard Size	12 mm (thk) x 1220 mm x 2135 / 2440 mm
3	Bulk Density	1400 kg./m3 ± 10%
4	Colour	Light Brownish 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 fire 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) 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).

(c) 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)
3.1	Bulk Density	Sealant - 1 litre = 1.5 kg. \pm 0.100 (used to seal joints & Gaps)
3.2	Bulk Density	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, Tested along with complete System at CBRI for Fire Rating of 03 hours
10	Shelf Life	3 Years from manufacturing (under prescribed storage conditions).
11	PH Factor	7 to 9

(d) 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).

(e) 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 70 mm \pm 10%
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.

(f) 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.