

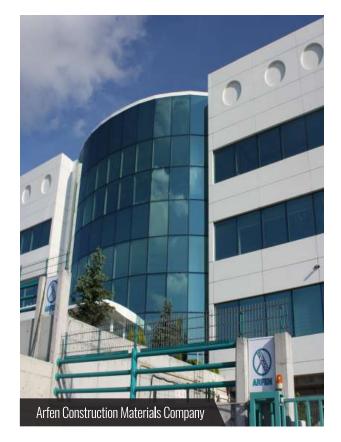
barrier systems

fire blanket consumables fire insulation rope













Since the day it was founded, ARFEN has been producing solutions in high quality standards to meet construction and industrial sectors demand, and has achieved significant success with its business partners not only in domestic markets but also in international markets.

To be able to reach this success, our motto strictly have been "Continues in quality and customer focused approach".

Arfen continues its activities in 18.000 m2 closed area in İstanbul Hadımköy Industrial area, Çorlu Organized Industrial area and Gebze Organized Industrial area. It has become one of the most significant and greatest manufacturer in plastic, aluminum and rubber industry with a management approach that has adopted the principle of specialization in manufacturing.

While Arfen applies modern production systems, it also provides sensitivity to work safety, human health and environment.

Arfen fulfills the need of construction industry with its dilatation profiles, Arfen Bridge expansion profiles and bearings, Arfen decoration profiles, Viny wall and corner protection systems, Aluminum matting systems and Hydroflex & chamfer bands.

Moreover, having available high machinery and equipment capacity, Arfen meets the specific product requirements of different sectors.

By working in numerous projects without any problems provided Arfen to have global market network coverage in more than 50 countries in the construction industry.

Arfen's perfection and excellence in production quality is provided by its hard working and honest employees from lowest levels to top managers.

After 20 years of working with an understanding of business and ethics, we would like to thank our employees, our customers and suppliers for their contributions.

Yours Faithfully.



we build solutions...







Arfen Fire Blanket (Vertical)



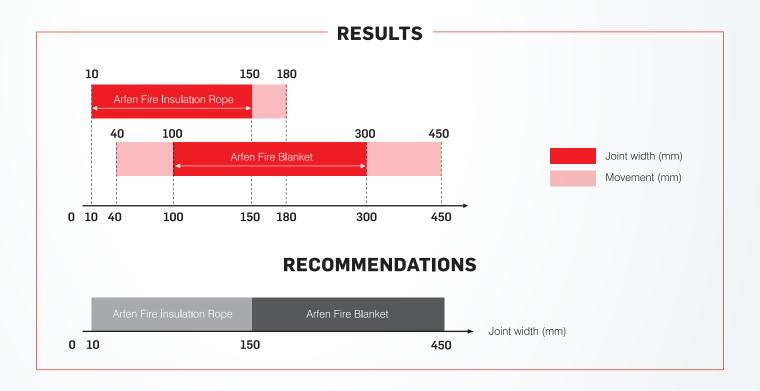
Arfen Fire Insulation Rope



Arfen Multicoat Fire Stopper Gap Filler /



Arfen Consumables



HOW TO READ A

CLASSIFICATION REPORT?

Things to know for correct reading of test reports in accordance with fire resistance standards

E: Integrity

I: Insulation

El: Resistance period as minutes

H: Suitable for horizontal application

V: Suitable for vertical application

M: Movement Capacity

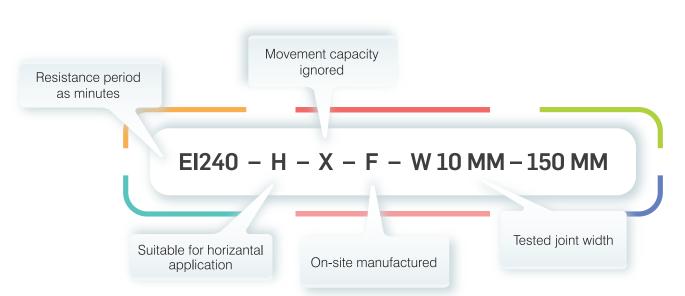
X: Movement capacity ignored

B: Factory and on-site manufactured

F: On-site manufactured

W: Tested joint width





ARFEN ROCK WOOL FIRE ROPE

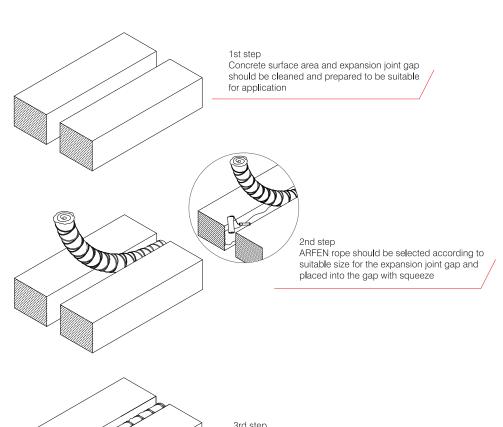
Arfen fire insulation rope can be easly applied because of type used as Glass yarn weaving on rock wool. Should beplaced in the expansion joint gap by compression of at least 33%

Arfen fire insulation rope diameter to be selected according to the application area,

- Horizontal Vertical Fire Resistance Time: El240 (SIST EN 13501-2)
- Fire Resistance Classification: A1
- Product Sizes: 20 180 mm
- Product Density: 240 +/-20 Kg / m3
- Horizontal And Vertical Use Suitability: Yes
- ETA 17/0061

EI240 - H - X - F - W 10 MM - 150 MM

Expansion Joint Gap Dimension (mm)	<10	11- 15	16- 20	21- 30	31- 40	41 - 50	51- 60	61 - 70	71- 80	81 - 90	91- 100	101- 110	111- 120	121 - 130	131 - 140	141- 150
Material Diameter to be applied (mm)	20	25	30	40	50	60	70	80	90	100	120	130	140	150	160	170







If required, the rope can be fixed with suitable sealant or adhesive on the edge of concrete surface



ARFEN FIRE BLANKET (HORIZONTAL)

Firestop 120 is a high performance, low weight, 7 layer fiberglass fire blanket that is designed to prevent fire and smoke passage in Expansion Joint gaps and also prevents heat transfer and flame transition to cold side. ARFEN fire barriers can be applied easier and faster than traditional solutions. ARFEN fire barriers have designed and tested to resist fire longest when mounted properly.

Can be used in vertical and horizontal gaps from 100 mm to 300 mm. Suitable for floor applications. Application areas: Carparks, hospitals, shopping centres, schools, library and etc.

■ Horizontal Fire Resistance Time: El180 (EN 1366-4:2006+A1:2010)

■ Fire Resistance Classification: A1

Product Sizes: 100- 300 MMVertical Use Suitability: NO

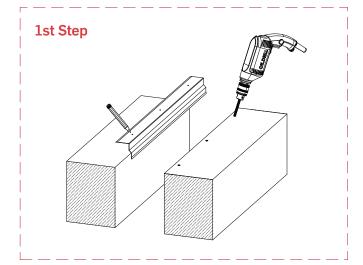
■ Horizontal Use Suitability: YES

E 180 - EI 60 - H - M50 - B- W100-450 MM

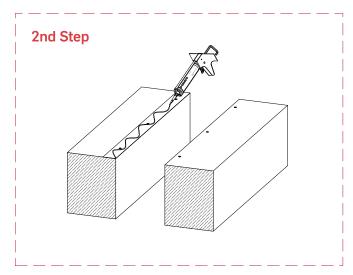
Reference	Inital Gap (mm)	Maximum Gap (mm)	Min. Gap (mm)	Classification		
FS100	100	150	40	E180 - El60 - H - M50 - W100		
1 0 100	100	100	7	E120 - El20 - V - M50 - W100		
FS150	150	225	40	E180 - El60 - H - M50 - W100		
		223	40	E120 - El20 - V - M50 - W100		
FS200	200	300	40	E180 - El60 - H - M50 - W100		
				E120 - El20 - V - M50 - W100		
FS250	250	375	40	E180 - El60 - H - M50 - W100		
		3/3	40	E120 - El20 - V - M50 - W100		
FS300	200	450	40	E180 - El60 - H - M50 - W100		
	300	450	40	E120 - El20 - V - M50 - W100		



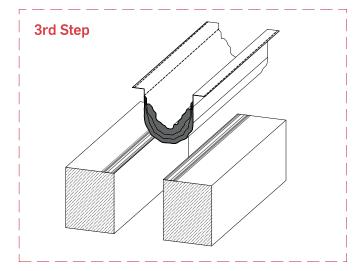
Fire Blanket Layers



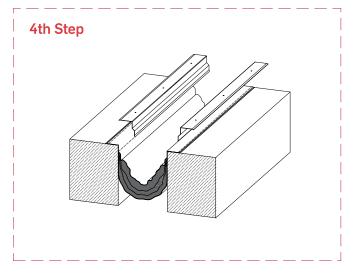
1st Step: The concrete surface and expansion joint gap should be cleaned. The galvanized mountage profiles should be placed on the concrete surface and concrete should be marked through holes on the galvanized profiles, after that fixation holes should be opended with 6,5 mm drill. The holes started from beginning point 150 mm and continue with the interval of 300 mm



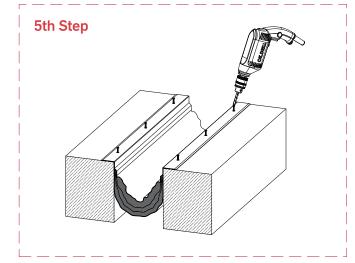
2nd Step: Sealant should be applied on the concrete surface and the layer should be 70 mm



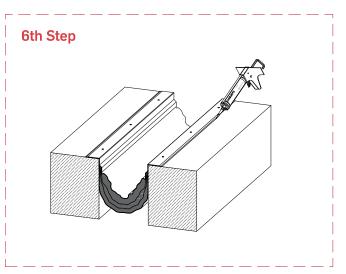
3rd Step: Fire barrier should be placed on the sealant layer. Wait for a while to get efficient bonding with sealant and barrier. After this process, fire barrier could be fixed with nails on the surface optionally



4th Step: Galvanized mountage profiles should be placed on the fire barrier which is already bonded with concrete surface.



5th Step: Application should be done by E 8,0x80 Buldex Screw through the opened holes on galvanized mountage profiles.



6th Step: The application will be completed with sealant to prevent any leakage between galvanized mountage profiles and concrete surface

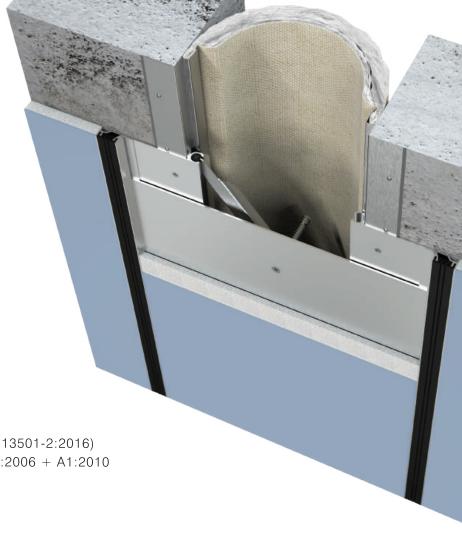
ARFEN FIRE BLANKET (VERTICAL)

Firestop 120 is a high performance, low weight, 7 layer fiberglass fire blanket that is designed to prevent fire and smoke passage in Expansion Joint gaps and also prevents heat transfer and flame transition to cold side. ARFEN fire barriers can be applied easier and faster than traditional solutions. ARFEN fire barriers have designed and tested to resist fire longest when mounted properly. Can be used in vertical and horizontal gaps from 100 mm to 300 mm. Suitable for floor and wall applications. Application areas: Carparks, hospitals, shopping centres, schools, library and etc.

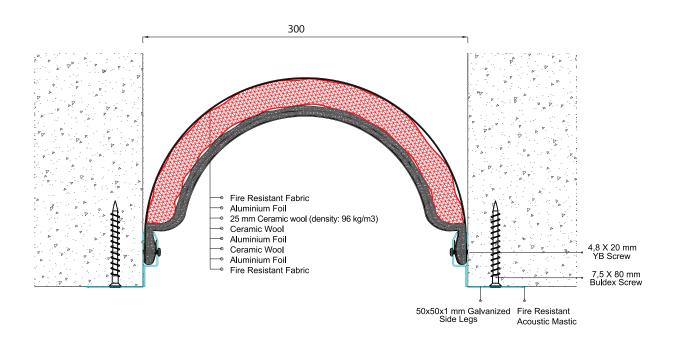


Product Sizes: 100- 300 mmVertical Use Suitability: Yes

Horizontal Use Suitability: No

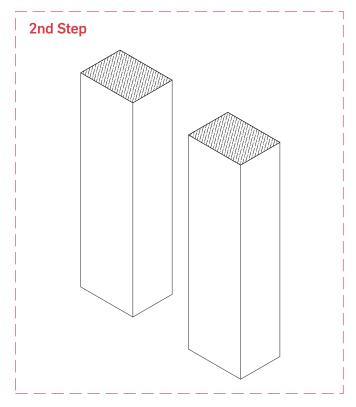


E120 -EI 20- V- M050 - F - W 100 MM - 300 MM



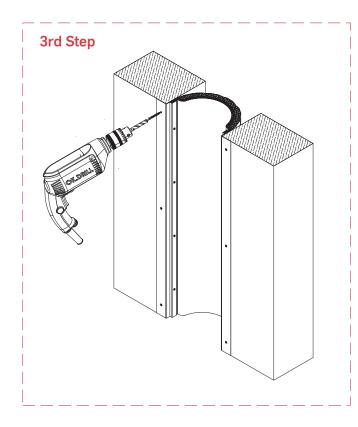
20 MINUTES 120 MINUTES ISOLATION 120 OF INTEGRITY

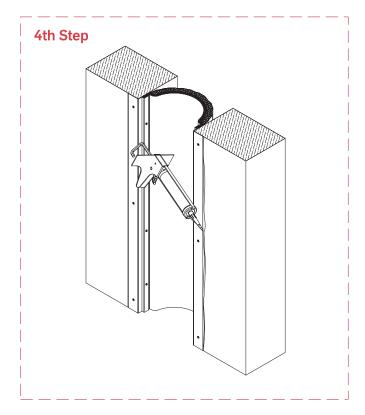




1st Step: The Vertical Fire Barrier detail which is 7 mt long prepared and assemble with galvanized mountage profiles in ARFEN facility and dispatch to the site

2nd Step: Concrete surface should be cleaned and should be prepared to application





3rd Step: The Vertical Fire Barrier should be placed on the wall and immobilized with 7,5 x 80 mm buldex screw.

4th Step: The application will be completed with Fire resistant sealant to prevent any leakage between galvanized mountage profiles and concrete surface

ARFEN CONSUMABLES

FIRE-RESISTANT ACOUSTIC MASTIC

An acrylic based firestop sealant that provides movement capability in fire rated joints and seals through-penetrations applications

- Silicone free
- Halogen, asbestos and solvent free
- Paintable
- Tested up to %33 movement with 500 cycles in accordance to UL 2079 and ASTM 1966
- Smoke and fume resistant
- Easy clean up with water
- Single component systems available
- Meets LEED requirements for indoor environmental quality credit 4.1 Low Emitting Materials, Sealants and Adhesives and 4.2 Paints and Coatings

Technical Data	Acoustic Mastic				
Chemical basis	Acrylic based firestop sealant				
Color	Available in red, white and gray				
Application temperature	40°F to 104°F (5°C to 40°C)				
Skin-forming time	Approx 15 min				
Curing time	Approx 3 mm / 3 days				
Average volume shrinkage	22.20/				
(ASTM C1241)	22,2%				
Movement capability	Approx 10%				
Temperature resistance	-22 F to 176 F (-30°C to 80°C)				
Surface burning characteristics	Flame Spread: 10				
(ASTM E 84-96)	Smoke Development: 0				
Sound transmission classification	56				
(ASTM E 90-99)	(Relates to specific construction)				

















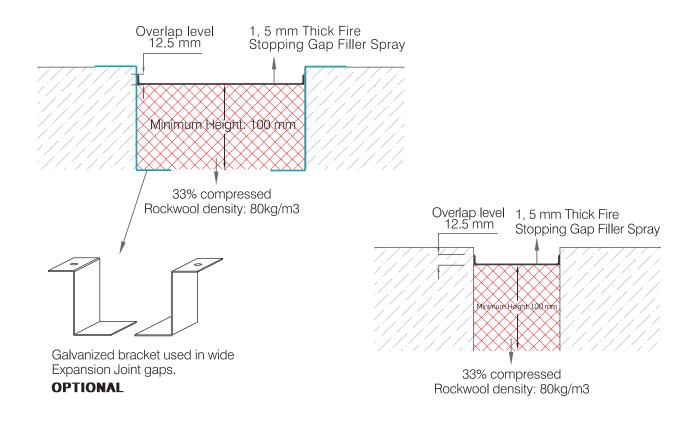


ARFEN FIRE MULTICOATED FIRE STOPPING GAP FILLER

This product is multicoated water based acrylic fire stopping gap filler. Applied on rock wool by a roll or spray internally or externally. ARFEN's fire stopping gap filler has 25% movement capacity of the gap applied in and can resist to fire up to 2 hours.

- Produced in buckets of 5 litre and 15 litre
- Density 1.35 kg/dm3
- Ideal storage temperature: 5.30 C, minimum shelf life is 1 year
- Application Temparature: 5.30 C
- Drying Time: 2-4 hours
- Recommended thickness: Wet sheet thickness 2mm, Dry sheet thickness 1 mm.
- Usage: 1.4 Lt/m2Colour: White
- Waterproof. (Limited to 25% movement capacity)
- Note: Rockwool needs to be compressed 33% before fitting in to Expansion Joint Gap.







IMAGES DURING FIRE TEST

During Fire Classification and Fire Resistance Test, we passed 180 minutes straight fire resistant according to EN 1366-4:2006 A1:2010 standards.

After Test process, there wasn't any deformation on the ARFEN Fire Blanket at all. Examine images as below. In consequence of deformation at the supporting construction because of losing the security of the test conditions, test was terminated after consulted with the sponsor. Otherwise the test could be finalized up to 240 minutes.













CERTIFICATES OF ARFEN FIRE BLANKET FOR HORIZONTAL AND VERTICAL APPLICATION

ARFEN passed the European Standards Fire Resistant tests with 3 hours remain form





For detailed information, you can visit our websites.

