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PRODUCT DATA SHEET

FPNet INTUMESCENT NETTING

1.) Product Description:

FPNet is woven fiberglass mesh coated with an intumescent elastomer. The coated mesh shall have no less than twenty percent openings. The dimensions of the coated mesh shall be 965mm x 1041mm (minimum length). The minimum weight per square meter is 1.5kg. It shall be soft and flexible so it may be wrapped around small cylindrical diameters.

2.) Applications:

- Intumescent firestop wrap for cables and cable trays.
- This product can be tested for use in any application requiring the movement of heat or air, prior to the activation of FPNet.

3.) Specifications:

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| • Appearance: | Dark Gray/Black Flexible Fiberglass fabric coated with an intumescent elastomer. |
| • Minimum weight KG/M2 | 1.5 |
| • Expansion Start Temperature Range °C | 191°C – 239°C |
| • Greatest Expansion Range | 240°C – 400°C |
| • Volume Expansion Range | 10 – 15 X at 260°C |
| • Product Size | 965mm X 1041mm(Minimum Length) Longer Lengths to be determined |
| • Finished Product | Minimum Average of 20% Openings in the Coated Fabric in Comparison to the Uncoated Fabric. |

4.) FPNet Properties:

- When tested at 260°C all openings in the mesh shall close
- Specimens placed in 100% relative humidity at 60°C for six months and conditioned for 24 hours at ambient exhibited no weight loss.
- Specimens immersed in water at 60°C for 3 days, and conditioned for 24 hours at ambient exhibited no weight loss.
- Appearance – after specimens were placed in 100% relative humidity at 60°C for 6 months, and conditioned for 24 hours at ambient, the FPNet appeared a slightly lighter gray.
- Easy to Install, cut to size and shape with common trade tools.

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5.) Component details:

a.) Fiberglass Mesh

	<u>Imperial</u>	<u>Metric</u>
Construction: (per inch) (per 10cm)		ASTM D-3775
Warp:	6.0	24
Weft:	5.9	23
Weight: (oz/yd ²)	4.5	152 ASTM D-3776
Weave:	Leno	
Finish:	Alkali Resistant	
Thickness: (per inch) (per mm)	0.015	0.39 ASTM D-1777
Minimum Tensile: (LB/in) (N/2.54cm)		ASTM D-5035
Warp:	150	665
Weft:	200	890
Hand:	Soft	

b.) Intumescent Coating

The intumescent coating is a graphite-based elastomer formulated to protect surfaces and openings in the following ways:

- On the exposure to flame and heat, the material absorbs heat and begins to expand. The material forms an insulating barrier to retard the spreading of flames and to control temperature increases.
- Expansion start temperature, 204°C to 232°C.
- Substantial expansion occurs above 232°C.

Minimum Volume expansion at 260°C is eight times.

All Statements, technical information and recommendations contained herein are believed to be accurate and reliable but are presented without guarantee on our part. Values presented above are nominal and only to be used as guidelines.