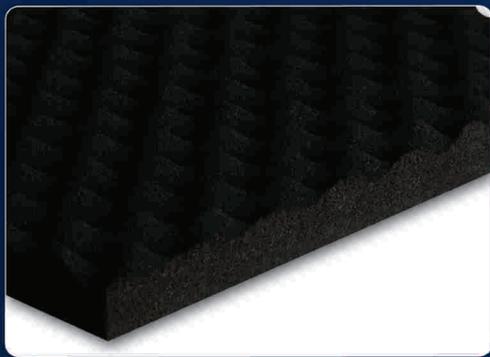


Noise Fire Stop[®]



Sound Absorption Products For Generator Canopies



1 - DEFINITION

NOISE FIRE STOP foams are open-celled, impregnated polyurethane foam for acoustical and thermal insulation. It's absorbed a mineral component which increases the ability of flameless; it has a great performance in ignition resistance tests.

NOISE FIRE STOP - does not support combustion, melt and drip. It is not affected by any bacteria and doesn't shelter. The foam shape and mineral structure of NOISE FIRE STOP never changes. The products have a uniform appearance, high sound absorbing properties and thermal properties. Plane NOISE FIRE STOP meets several flame behavior standards.

2 - TECHNICAL DATA

a) Physical Specifications:

Colour	Black
Nominal Density Range	75 -100 kg / m ³
Nominal Hardness Range	120 -108 Newtons
Elongation at Break	not less than %90
Nominal Tensile Strength	not less than 70 kpa
Operating Temperature	- 40 0C, + 110 0C

b) Fire Resistance Test Summary:

BS 476: Part 5 - Ignitability
Class P

BS 476 - Part 6 - Fire Propagation
Low contribution to fire growth with Fire Propagation Indices not exceeding $I = 12$ and $I = 6$

BS 476 Part 7 - Surface Spread of Flame
Very low surface spread of Flame-Class 1
Insulation which meets the required combined standards as detailed above for BS 476: Part 6 and 7 are rated Class '0' to the UK Building Regulations.

ASTM D - 2863 Limited Oxygen Index
45%

Directive 95 / 28 / EC

The burning behavior of materials used in the interior construction of certain categories of motor vehicle. The requirements concerning the burning behavior according to annex IV (horizontal direction) are met. The requirements concerning the melting behavior according to annex V are met.
Horizontal burning rate: 0 mm/min.

c) Sound Absorption Values:

ACOUSTIC PERFORMANCE						
Thickness (mm)	Sound	Absorption			Coefficient	
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz
24,5	0.09	0.22	0.38	0.52	0.63	0.73
22,6	0.17	0.28	0.46	0.48	0.77	0.85
20,7	0.24	0.47	0.75	0.84	0.87	1.02
18,8	0.06	0.09	0.18	0.29	0.38	0.58

d) Possible Post Treatments

The product is available with a self adhesive backing and a wide variety surface finishing.
The product can be supplied in composite form with lead or polymeric barriers and damping sheets

I - PU film (protective film): 35µ (mikron) polyurethane film to resist to grease, oil and water
II - PSA : Self adhesive, resistant to max 80°C, Modified Acrylic, Liner is Silicone

The most preferred
NOISE FIRE STOP™ Flame Prof Acoustical Foams by Generator Compaines

- 30 mm thickness NOISE FIRE STOP™ foam
- 50 mm thickness NOISE FIRE STOP™ foam
- Protective film faced 30 mm thickness NOISE FIRE STOP™ foam
- Protective film faced 25 mm thickness NOISE FIRE STOP™ foam with PSA self adhesive layer
- Eggcrate (viyol) formed NOISE FIRE STOP™ foam 40 mm total thickness (20 mm + 20 mm)

These products are chosen by companies after many tests in their canopies. Each product has different acoustic performance in different canopies.

TEKSAN can just advise the best alternatives which used more in market. So TEKSAN advises that to test and then use to have the best performance.

The tolerance regarding thickness is ± 1 mm for the products up to 15 mm and ± 2 mm for the products of thickness 20 and above.

3 - INSTALLATION

Adhesive Systems used in canopies

1 - Water based / Solvent based Adhesives

NOISE FIRE STOP™ products can be easily installed on any clean surface (concrete, plaster, wood, metal, plastic, etc) by using an appropriate organic based or water dispersion glue. When needed, the sheets and rolls can be easily cutted by a Stanley knife. For the best acoustic performance and good appearance, the sheets should be also glued among them perimetrically.

2 - Self Adhesive layer

The products can be with self adhesive layer at the back. So it's easy and fast to apply, safe and no risks to breathe the glue.

3 - Without any adhesive to use Hanger Kits

Attention: 1) The use of organic solvent glue can cause damage to the products. Before using such glue it is suggested to make a trial.

2) Since the products are flexible, for die aligned installation on big surfaces (ceiling , walls etc) before you start the gluing of the sheets you must mark the surface where they will be fixed with straight marks In distance equal to the dimensions of the products(ie every 500 mm or 1000 mm).



4 - PACKING

In sheets: 2000 mm x 1000 mm

All goods are covered by polyethylene film.

Thickness mm	# of Sheets in one packing	Total square meter per each packing	App weight of each packing	Optimum loading in 40 HC
		m2	kg	
25	6	12	21	2736 sqm = 1368 sheets
30	5	10	21	2288 sqm = 1144 sqm
50	4	8	28	1368 sqm = 684 sheets
40 mm Eggcrate	6	12	25	2280 sqm = 1140 sheets

Comparison Table of
NOISE FIRE STOP[®] and 30D Acoustic foams

	NOISE FIRE STOP [®]	Standard 30 density foams
Density of foam	70 ± 5 kg/m ³	30 ± 2 kg/m ³
Foam Type	Impregnated Foam	Slabstock Foam
Fire Behaviour Speed of burning	BS 476 part6 & BS 476 part7 Class 0 0 mm per minutes	SELF-EXTINGUISHING UL 94 HF1 Min 50 mm per minutes
Gas Please burn with match and see the difference	Contains minerals (85%) so cause min gas outs when it burns	%100 burns and %100 of it cause gases
Drop Effect Please burn with match and see the difference	NEVER drips	When it burn, They will completely DRIP.
Structure after burning Please burn with match and see the difference	Protects its structure after burning and can still insulate the noise	Lost all the structure
Sound Absorption Capacity	% 40 higher and very successful at low frequencies	Very low and unsuccessful in low frequencies
Antibacterial	Antibacterial. It Does Not get moldy, stink when stayed wet. NOISE FIRE STOP [®] have SANITIZED AG certificate.	When it is wet. It will get moldy and stink
Thermal resistance	- 30°C > + 130°C	- 20°C > + 100°C
Color	Black	Anthracite / Grey

