

# FIREGUARD 9

Product Code: FG9  
 Origin: Malaysia  
 Manufacturer: Lien Huat Alliance Sdn. Bhd.



## PRODUCT SPECIFICATIONS

<b>Construction</b>	: Waffle Sponge	
<b>Raw Material</b>	: 100% Natural Rubber	
<b>Width</b>	: 1.22 m	( 4' )
<b>Length</b>	: 8.0 m	( 26.24' )
<b>Roll Size</b>	: 9.76 m <sup>2</sup>	( 11.67 yd <sup>2</sup> )
<b>Weight</b>	: 3786 g/m <sup>2</sup>	( 111.66 oz / yd <sup>2</sup> )
<b>Density</b>	: 420.22 kg/m <sup>3</sup>	( 26.23 lbs / ft <sup>3</sup> )
<b>Nominal Thickness</b>	: 9.0 mm ± 0.5 mm	( 0.28" ± 0.02" )
<b>Colour</b>	: Brown	
<b>Backing Materials</b>	: Polyester Spunbonded Fabric	

## PRODUCT DESCRIPTION

The Fireguard Series is based on the small bubble waffle sponge profile, which gives it a perfect balance between comfort and dimensional stability. Its added feature is in its inherent flame retardant properties. Unlike most flame retardant underlays (which ignites and burns within a confined area but extinguishes after a while), Fireguard does not combust and is not made from any hazardous flame retardant chemicals.

## RECOMMENDED APPLICATIONS

**Sectors:** Hospitality, Commercial

**Areas:** Hotels, Cinemas, Restaurants, Convention Halls, "Areas where public safety is a concern"

**Top Surface:** Broadloom Carpets, Area Rugs

**Installation Method:** Install with fabric-side facing up; suitable for stretch-fit installation of Carpets

## SUMMARY OF TESTS (results on next page)

End use classification: Class HC/U; Heavy Contract Use

### Material Standards

BS 5808 / BS EN 14499  
 BS 4939 / ISO 3416  
 BS 4098  
 BS 4051 / ISO 1765  
 BS 4052 / ISO 2094  
 BS 2576 / BS EN ISO 13934

### Environmental / Flammability Standards

REACH EU Compliant  
 BS 4790  
 ASTM D 2859  
 ASTM E-648 / NFPA 253  
 ASTM E-662 / NFPA 258

### Disclaimer

1. Some test results were derived from similar product results  
 2. Fireguard and associated labels are trademark of Lien Huat Alliance Sdn Bhd  
 3. Densities are indicative values only as there may be slight variations within normal manufacturing tolerance due to the product being made from natural materials. However, such variations will not affect the quality and performance of the product.

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## Test Performance to BS 5808 : 1991 / BS EN 14499 : 2015

End Use Classification	Class HC/U; High Contract Use	
Work of Compression (Min 50 J/m <sup>2</sup> )	388.0 J/m <sup>2</sup>	BS 4098 / BS 4052 / ISO 2094
Retention of Work of Compression (min 40%)	86.0 %	BS 4098 / BS 4052 / ISO 2094
Compression after Dynamic Loading	2.8 mm	BS 4098 / BS 4052 / ISO 2094
Loss in Thickness after Dynamic Loading (max 15%)	2.6 %	BS 4098 / BS 4052 / ISO 2094
Loss in Thickness after Static Loading (max 15%)	7.0 %	BS 4939 / ISO 3416
Breaking Strength - length/width (min 30N)	93.7 N / 56.4 N	BS 2576 / BS EN ISO 13934
Extension Under Force - length/width (max 15%)	4.0 % / 2.0 %	BS 2576 / BS EN ISO 13934
Resistance to Cracking (not greater than 50 mm)	Pass	BS 5808 / BS EN 14499

## Test Performance to Environmental / Flammability Standards (ASTM D 2859 | BS 5808 : 1991)

Hot Metal Nut Test (Pass/Fail)	Pass / Medium Radius	BS 4790
Critical Radiant Flux (class II min 0.22 watts/cm <sup>3</sup> )	0.42 watts/cm <sup>3</sup>	ASTM E-648 / NFPA 253
Maximum Specific Optical Density (max 450)	Rating of 223	ASTM E-662 / NFPA 258
Specific Optical Density at 1.5 minutes (max 100)	21	ASTM E-662 / NFPA 258
Specific Optical Density at 4.0 minutes (max 175)	162	ASTM E-662 / NFPA 258

## Manufacturer Warranty

A manufacturer's certificate of quality and warranty is available on request.

Warranty will only take into effect AFTER completion and due inspection of the project.

\*This is important to ensure that you receive the authentic product and that no substitutes are used for your projects

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