

# **UNDERLAY TECHNICAL SPECIFICATION**

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# FIREGUARD 9

Product Code: FG9 Origin: Malaysia

Manufacturer: Lien Huat Alliance Sdn. Bhd.

## PRODUCT SPECIFICATIONS

Construction : Waffle Sponge Raw Material : 100% Natural Rubber

Width : 1.22 m (4')Length : 8.0 m (26.24')**Roll Size** : 9.76 m<sup>2</sup>  $(11.67 \text{ yd}^2)$ : 3786 g/m<sup>2</sup> Weight  $(111.66 \text{ oz } / \text{yd}^2)$ : 420.22 kg/m<sup>3</sup> **Density**  $(26.23 lbs / ft^3)$ Nominal Thickness: 9.0 mm ± 0.5 mm  $(0.28" \pm 0.02")$ 

Colour : Brown

**Backing Materials**: 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 Environmental / Flammability Standards

BS 5808 / BS EN 14499 REACH EU Compliant

BS 4939 / ISO 3416 BS 4790

BS 4098 ASTM D 2859

BS 4051 / ISO 1765 ASTM E-648 / NFPA 253 BS 4052 / ISO 2094 ASTM E-662 / NFPA 258

BS 2576 / BS EN ISO 13934

#### 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/m2)	388.0 J/m2	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/cm³)	0.42 watts/cm³	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

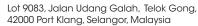
A manufacturer's certificate of quality and warranty is available on request.

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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