

## Advanced Acoustics Silent Floor Ultra Acoustic Underlay

# Data Sheet

### Material Description

Advanced Acoustics Silent Floor PLUS is a flexible 2 ply polyolefin sound barrier mat bonded to an 8mm, 25kg/m<sup>3</sup> closed cell cross linked PE foam. This unique PVC free material has a proprietary polymer structure composed of a blend of polymers compounded with mineral fillers. It can be made use of as the sole sound absorption layer or as part of a multilayer composite with other materials. This material is effective in reducing both impact noise and airborne noise for floors and is designed to be placed under carpet to replace regular carpet underlay.

#### Key Benefits

- Environmentally Sustainable: Manufactured from pre and post industrial waste sources.
- Sustainable: 100% recyclable at the end of its life.
- Safer Disposal: poses fewer environmental risks and has a higher potential for mechanical recycling.
- Free from PVC, Plasticizers and Stabilizers and unrefined aromatic oils.
- Clean and Non-staining.
- Low tack easy to cut.
- Free from Lead.
- Free from Bitumen.

#### **Typical Properties**

| Bottom Layer Specification |   |
|----------------------------|---|
| Nominal Weight             | 5kg/m2                                  |
| Nominal Thickness          | 2.88mm                                  |
| Hardness                   | min 75 (Durometer Shore A, 1 sec dwell) |

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| Tensile Strength      | 0.9mpA (JISK6251)       |
|-----------------------|-------------------------|
| Elongation at break   | >100% (JISK6251)        |
| Dimensional Stability | <2% (4hr @ 100 °C)      |
| Surface Tension       | >44 dynes/cm            |
| Flammability          | <100 mm/min (FMVSS 302) |

### Top Layer Specification

| Density                     | 25kg/m <sup>3</sup>       |
|-----------------------------|---------------------------|
| Tensile Strength - MD       | 291kPA                    |
| Tensile Strength – TD       | 237kPA                    |
| Elongation – MD             | 100%                      |
| Elongation – TD             | 115%                      |
| Compression 10%             | 20kPA                     |
| Compression 25%             | 39kPA                     |
| Compression 50%             | 98kPA                     |
| Compression Set – 0.5hrs    | 14%                       |
| Compression Set – 24hrs     | 5.5%                      |
| Working Temperature Range   | -60-+80°C                 |
| Water Absorption %Vol (max) | 1%                        |
| Water Vapour Transmission   | 0.97g/m <sup>2</sup> *24h |



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| Thermal Conductivity at 10C | 0.0390W/mK          |
|-----------------------------|---------------------|
| Thermal Conductivity at 40C | 0.0460W/mK          |
| Flammability                | 94mm/min (FMVSS302) |
|                             |                     |
| Overall Specification       |                     |

| Nominal Dimensions | 600mm x 1200mm |
|--------------------|----------------|
|                    |                |

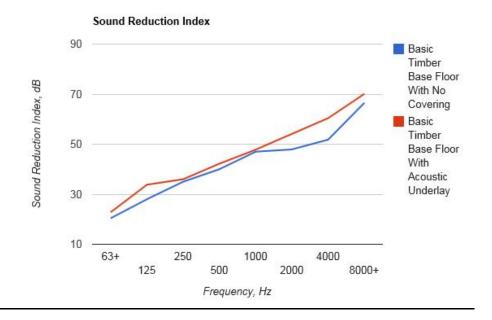
Nominal Thickness 11mm

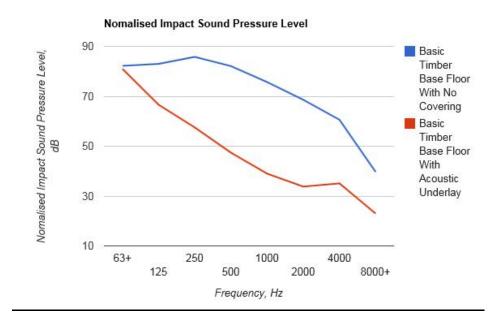
**Overall Weight** 3.75kg

**Acoustic Properties** 



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