# **Product Description**

Polyester Solutions Soffit and Slab Liner (PSSSL) is part of the Polyester Insulation Masonry Blankets range and has been engineered as a thermal lining for masonry soffit type slab applications. PSSSL is designed to improve the thermal and energy efficiency of the building envelope. Polyester Solutions Soffit and Slab Liner (PSSSL will also assist in the control of reverberation levels and noise spill.

# **Applications**

Polyester Solutions Soffit and Slab Liner (PSSSL) is designed to be installed to the underside of masonry and metal pan floors and ceilings to improve thermal performance and energy efficiency of the building. Polyester Solutions Soffit and Slab Liner (PSSSL) will help lower noise levels by controlling reverberation times in enclosed spaces and reducing noise pollution to external areas.

To ensure building code compliance Polyester Solutions recommends that architects and building designers consult the relevant Australian Standards before specifying thermal and acoustic insulation products.

PSSSL will support and assist in meeting the following provisions of the NCC/BCA: BCA Volume One - Class 2-9 Buildings Section J - Energy Efficiency: Performance requirement JP1 Section F - Health and Amenity: Sound Transmission and Insulation. Performance requirement FP 5.1 and FP 5.4

BCA Volume Two - Class 1 and Class 10 Buildings

Part 2.6 - Energy Efficiency: Performance requirement P 2.6.1 Part 3.8.6 - Health and Amenity, Sound Insulation: Performance requirements P 2.4.6.

 **Standard Sizes and Packaging**

|  |  |  |  |
| --- | --- | --- | --- |
|  **PRODUCT** | **NOMINAL THICKNESS (mm)** | **NRC** | **R - Value** |
|  R1.0 PSSSL | 45mm | 0.7 | 1.0 |
|  R1.5 PSSSL | 50mm | 0.9 | 1.5 |
|  R2.0 PSSSL | 75mm | 0.9 | 2.0 |
|  R2.5 PSSSL | 90mm | 1.00 | 2.5 |

|  |  |  |  |
| --- | --- | --- | --- |
|  R3.1 PSSSL | 110mm | 1.05 | 3.1 |
|  R3.5 PSSSL | 130mm | 1.10 | 3.5 |

Sizes: PSSSL is made to order. Sheet size typically: 1200mm x 2400mm (+/- 10mm). Special sizes on application, All subject to minimum order quantities. PSSSL Soffit and Slab Liner is available in a range of colour options and can be laminated.

# **Fire Resistance**

When tested in accordance with AS1530.3 (1999), “Early Fire Hazard Properties of Materials”, PSSSL exhibit the following characteristics:

Ignitability Index 0

Spread of Flame Index 0

Heat Evolved 0

Smoke Developed Index 0 - 3

# **Moisture Resistance**

Exposure to an atmosphere of 50˚C and 95% relative humidity for 4 days results in less than 0.2% by vol moisture absorption.

# **Maximum Service Temperature**

The maximum temperature to which Polyester Solutions Soffit Insulation should be exposed in service is 150˚C.

# **Environmental and Health Benefits**

Recycled Fibre Content 80% minimum

Volatile Organic Compounds (VOC’s) No harmful VOC’s

Formaldehyde Content Nil

Phenol Content Nil

Ammonia Content Nil

Ozone Depleting Potential (ODP) Nil

Chloride Content Nil

Total Recyclable Content 100%

**How to Specify**

The insulation material shall be Polyester Solutions Soffit Liner.

**General Installation Advice**

Polyester Solutions recommends that all thermal and acoustic insulation be installed in accordance with AS 3999:1992 Thermal Insulation of Dwellings - Bulk insulation, installation requirements and the manufacturer’s instructions (included on each pack). Products are generally fixed with insulation type fasteners. Fixings should be set out at not less than 600mm centers and a maximum of 200mm in from the edge of each panel.

Penetrations can be formed with a pointed chisel type bit. If used with a power drill ensure the clutch is engaged to minimize the risk of twist up should the bit bind in the fibers.

**Testing**

All testing was conducted in a laboratory situation. On site results may vary due to site conditions and quality of installation. Thermal testing is done in accordance with AS/NZS 4859.1 (Materials for the thermal insulation of buildings - General criteria and technical provisions). As these products are constantly being researched and developed, we reserve the right to update these specifications without notice.