

# PROGUARD™

## Fall Arrest Foil Laminate

# PROGUARD™ PLUS

## Fall Arrest, Hail Resistant Foil Laminate

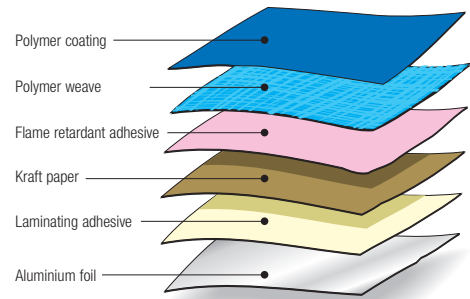


### PRODUCT DESCRIPTION

Insulation Solutions™ *ProGuard* and *ProGuard Plus* are manufactured with an outer layer of aluminium foil bonded to a high density kraft paper. This in turn is bonded to a woven polymer fabric, using a flame retardant adhesive.

The products are a distinctive reflex blue for easy recognition and to provide an antiglare surface during installation.

*NOTE: Logo is printed on the foil (underside) for ease of identification as complying with Fall Arrest and Hail Resistance requirements.*



### PRODUCT FUNCTION

In addition to the benefits provided by all other Sisalation™ products, *ProGuard Plus* is designed with properties to provide an accredited Fall Arrest System and protection against hail storms. *ProGuard* is Fall Arrest System only.

#### FALL ARREST SYSTEM



*ProGuard* and *ProGuard Plus* have been independently tested and meet the requirements of AS/NZS4040.4 'Methods of testing sheet roof and wall cladding, Method 4: Resistance to impact (sandbag) for sheet roof materials',

modified to reflect Australian building practice.

This test is designed to simulate the impact of an accidental fall of a person onto the membrane during the initial construction of the roof. When acting as part of a Fall Arrest System, *ProGuard* and *ProGuard Plus* shall be installed to meet the requirements of AS2050. *ProGuard* and *ProGuard Plus* have been endorsed by WorkCover NSW as 'Fall Arrest Systems' when used on roofs of residential buildings.

#### HAIL STORM PROTECTION



*ProGuard Plus* has been independently tested and meets the requirements of UL2218, 'Impact Resistance of Prepared Roof Covering Materials', modified to reflect Australian building practice.

This test is designed to determine hail resistance of protective membranes.

*ProGuard Plus* resisted penetration under the most severe test conditions.

#### SARKING



*ProGuard* and *ProGuard Plus* are designed for use in demanding applications where resistance to cyclonic conditions is advisable.

As sarking under tiled roofs, *ProGuard* and *ProGuard Plus* provide an effective barrier or second skin against the ingress of wind driven rain, dust and debris entering the roof space, particularly if the roof tiles become cracked or damaged.

Under metal roofs, *ProGuard* and *ProGuard Plus* will reduce the potential for condensation to occur, preventing water damage to the building fabric.

#### INSULATION



*ProGuard* and *ProGuard Plus* reduce radiant heat flow, assisting in keeping homes comfortable all year round. To provide optimum insulation values, a minimum air space of 20mm is required adjacent to the reflective foil face. Under tiled roofs, *ProGuard* and *ProGuard Plus* add approximately R0.7 to R1.8 to the roof system.

#### FIRE PERFORMANCE



*ProGuard* and *ProGuard Plus* are flame retardant and are suitable for use in buildings in bushfire prone areas to lessen fire hazard by preventing the ingress of sparks into the roof space.

*ProGuard* and *ProGuard Plus* has a flammability index not greater than 5 in accordance with AS1530.2.

#### VAPOUR BARRIER



*ProGuard* and *ProGuard Plus* will provide an effective vapour barrier when overlapped and sealed with *Insulation Solutions Vapastop™ 883* self adhesive aluminium foil tape.

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## PRODUCT APPLICATIONS

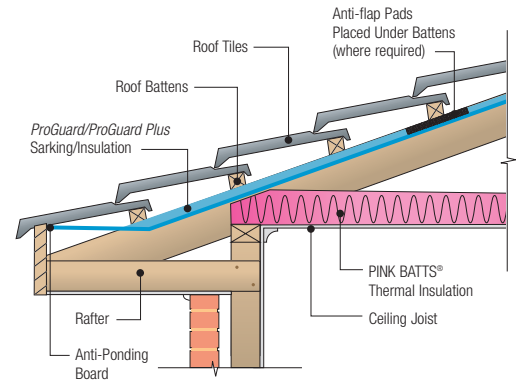
*ProGuard* and *ProGuard Plus* are a protective insulation membrane designed for use in demanding applications where resistance to hail or cyclonic conditions is advisable.

*ProGuard Plus* is equally applicable for use under metal deck roofing and tiled roofs.

*ProGuard Plus* has the strength to resist puncturing and tearing if tools or materials are dropped onto it.

*ProGuard Plus* is suitable for use on rafter spans up to 900mm with standard 150mm overlap.

*ProGuard* is designed for use at rafter spacings of 450mm to 900mm. Where rafter spacings are 900mm, **the foil lap (joint) must be overlapped by 300mm and a batten shall be fixed at the centre of the lap.**



## PRODUCT CLASSIFICATION



*ProGuard* and *ProGuard Plus* are fully compliant with the relevant requirements of the Building Code of Australia (BCA) & Australian Standards.

*ProGuard Plus* achieves the following classifications as defined by AS/NZS4200.1, 'Pliable Building Membranes and Underlays, Part 1: Materials', an 'Acceptable Construction Manual', recognised by the BCA Part 3.5.1 Roof Cladding.

Duty	Extra Heavy Duty
Vapour Barrier	High
Emittance	Reflective ( <i>emittance of aluminium face &lt;0.05</i> )
Water Barrier	High
Flammability Index	Low ( <i>not greater than 5, determined by AS1530.2</i> )
Tensile Strength Machine Direction (kN/m)	Min 13.0
Tensile Strength Lateral Direction (kN/m)	Min 10.5
Edge Tear Resistance Machine Direction (N)	Min 90
Edge Tear Resistance Lateral Direction (N)	Min 13
Water Transmission Rate (ng/Ns)	Max 2
Emittance of Reflective Face	Max 0.05

- *ProGuard Plus* has a Flammability Index of not greater than 5 as determined by AS1530.2. This satisfies the BCA Part 3.7.1 Fire Hazard Properties.
- *ProGuard Plus* meets the requirements of AS/NZS4859 'Materials for the Thermal Insulation of Buildings Part 1: General Criteria and Technical Provisions' and 'Part 2: Fire Criteria'.
- *ProGuard Plus* passes the requirements of AS/NZS4040.4 (Sandbag Test), modified, and UL 2218 (Hail Test), modified.
- *ProGuard Plus* meets the requirements of the WorkCover NSW, Code of Practice, 'Safe work on roofs - Part 2: Residential buildings'.

Note: *ProGuard Plus* is clearly identified as being suitable for use as Hail Resistant and a Fall Arrest System by the 'Certified' logo printed on the foil side.

Product that is not able to be identified in this way, does not meet the performance requirements of AFIMA (Australian Foil Insulation Manufacturers Association) and should not be used for Hail Resistance or as part of a Fall Arrest System.



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DATA SHEET

TM

ECO  
PINK

# PROGUARD™ Fall Arrest Foil Laminate

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### PRODUCT INSTALLATION

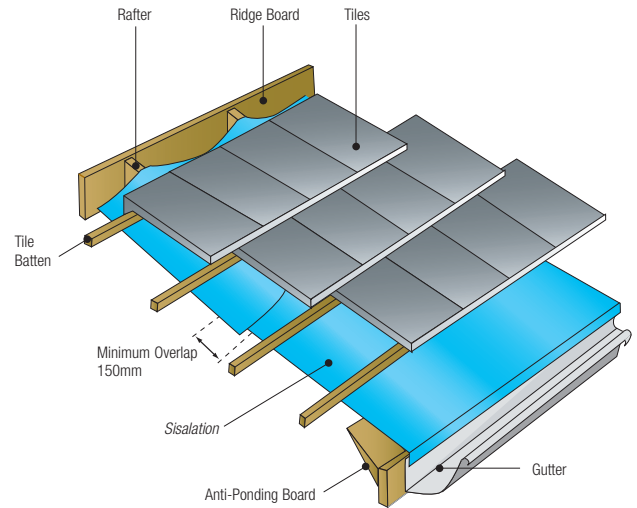
To achieve the product functions as listed in this datasheet, *ProGuard* and *ProGuard Plus* should be installed in accordance with AS/NZS4200.2. In high wind areas, it may be necessary to install anti-flap pads.

### DURABILITY

When installing *ProGuard* and *ProGuard Plus* in roofs, the tiles or metal decking should be installed without delay.

### RESISTANCE TO ALKALIS

Aluminium foil is susceptible to alkali attack. *ProGuard* and *ProGuard Plus* should not be stored or used where it may come in contact with wet concrete or mortar.



### ENERGY EFFICIENCY



As insulation, *ProGuard* and *ProGuard Plus* will reduce summer heat gain and winter heat loss. This reduces heating and air conditioning costs, and may eliminate the need for mechanical

cooling. This can result in energy savings and reduced greenhouse gas emissions. When installed in buildings as an exposed internal roof lining, the reflectivity of the ceiling is increased by up to 40%. This reduces artificial lighting loads, and further enhances energy efficiency.

### SUSTAINABILITY

Sustainability...measures that satisfy the needs of people today while enhancing the quality of life for future generations. The demands on non-renewable resources for the production of energy are not sustainable without compromising the environment.

Insulation, correctly specified and installed, is one of the most beneficial products in improving energy efficiency and reducing greenhouse gas emissions.

APPLICATION	SUMMER	WINTER
<p>TILED ROOF - Pitched / Flat Ceiling (<i>Proguard / Proguard Plus</i> under battens)</p>	<p>TOTAL <b>R1.6</b></p>	<p>TOTAL <b>R1.0</b></p>

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### HEALTH & SAFETY

There are no known health or safety risks associated with these products for applications described in this data sheet. For additional

information or a Material Safety Data Sheet, please contact your nearest *Insulation Solutions* office.

### SPECIFICATION

**Product Name:** *Insulation Solutions ProGuard and Proguard Plus*

- Functions:**
- Insulation
  - Sarking
  - Hail Protection (*Proguard Plus only*)
  - Vapour Barrier
  - Fall Arrest

Eg: *'ProGuard* shall be installed in the roof to provide Insulation, Fall Arrest, Vapour Barrier and Sarking.

Eg: *'ProGuard Plus* shall be installed in the roof to provide Insulation, Fall Arrest, Hail Protection, Vapour Barrier and Sarking.

### STANDARD ROLL SIZES

	Roll Width	Roll Length	Roll Area	Roll Weight
<i>ProGuard</i>	1500mm	30m	45m <sup>2</sup>	18.5 kg
<i>ProGuard Plus</i>	1500mm	30m	45m <sup>2</sup>	18.5 kg



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