



Solairforce F-4SAGW is suitable for - Residential Metal Roofs, Residential Tile Roofs, Commercial Metal Roofs as well as walls and floors. Easy to use in sheds, houses and commercial applications.

Solairforce F-4SAGW is a multipurpose 2-in-1 insulation, this reduces labour costs significantly.

Solairforce F-4SAGW comes in 47.25m<sup>2</sup> rolls, the majority of similar products only come in 30m<sup>2</sup> rolls.

Solairforce F-4SAGW has been independently tested to Australian Standards AS/NZS 4859.1-2018.

- ✓ Quick and easy to install
- ✓ Fibre free, clean & safe, non irritant
- ✓ Reduces energy costs
- ✓ Reduces greenhouse gases
- ✓ Highly durable, hail resistant, anti tear
- ✓ Anti-fungal, anti bacterial
- ✓ Resists rodents and nesting
- ✓ Water Barrier
- ✓ Independently Tested
- ✓ Aust. Standard Compliant  
AS/NZS 4859.1-2018

## TECHNICAL DATA SHEET

### National Construction Code (NCC) 2022

When correctly specified and installed Solairforce products provide the following compliance with NCC 2022

**Material Performance Properties-** Complies with AS 4200.1 NCC 2022 Volume 1 F3D3 for sarking type material  
**Thermal-** Compliance with AS/NZS 4859.1

**Fire Hazard Properties-** When assessed to AS/NZS 1530.3 products do not exceed the 'spread of flame' or 'smoke developed' indices of Table S7C7. Complies with requirements of NCC 2022 Volume 1 S7C7 for insulation materials

Solairforce insulation products are tested through AWTA to comply with AS/NZS standards.

| Product Name                  | Solairforce F-4SAGW                    |
|-------------------------------|--|
| Product Thickness             | 4 mm                                   |
| Foil Thickness                | 7 microns                              |
| Foil Purity                   | 99.00%                                 |
| Reflectance                   | Reflective: 97%<br>Anti-glare: 95%     |
| Remittance                    | Reflective: E0.03<br>Anti-glare: E0.05 |
| Roll Size                     | 1350 mm x 35 m (47.25m <sup>2</sup> )  |
| Roll Diameter                 | 415 mm                                 |
| Weight                        | 16 kg                                  |
| Pliability                    | No cracking                            |
| Fungi Growth Ability          | Nil                                    |
| Shrinkage                     | ≤ 0.5%                                 |
| Edge Tear Resistance          | Lateral 302N, Machine 302N             |
| Apparent Thermal Conductivity | 0.03434 W/m.K                          |
| Material Thermal Resistance   | R0.15 m <sup>2</sup> K/W               |

| Test                    | Standard                 | Solairforce F-4SAGW - Result           |
|-------------------------|--------------------------|--|
| Corrosion Resistance    | AS/NZS 4859.1 Appendix 1 | Pass                                   |
| Flammability            | AS 1530.2                | Low (index ≤ 5)                        |
| Ignitability Index      | AS1530.3                 | 0 - Pass                               |
| Spread of Flame Index   |                          | 0 - Pass                               |
| Heat Evolve Index       |                          | 0 - Pass                               |
| Smoke Development Index |                          | 0 - 1 Pass                             |
| Thermal Resistance      | ASTMCS18                 | R0.15                                  |
| Emittance               | ASTM-E408                | Reflective: E0.03<br>Anti-glare: E0.05 |
| Vapour Transmission     | ASTM-E96                 | Medium                                 |
| Dry Delamination        | AS/NZS 4201.1            | Pass                                   |
| Wet Delamination        | AS/NZS 4201.2            | Pass                                   |
| Shrinkage               | AS/NZS 4201.3            | ≤ 0.5%                                 |
| Water Penetration       | AS/NZS 4201.4            | Water Barrier Classification HIGH      |
| Edge Tear               | AS 4200.1 6.1.3          | Lateral 302N, Machine 301N             |

### SolairForce F-4SAGW



#### Product Specifications

|                   |                                   |
|-------------------|-----------------------------------|
| Roll Size         | 47.25m <sup>2</sup> (35m x 1.35m) |
| Roll Diameter     | 415mm                             |
| Product Thickness | 4mm                               |
| Roll Weight       | 16kg                              |
| Reflectance       | 97%                               |
| Emissivity        | Silver .03, Anti-Glare .05        |

#### System R-Values (m<sup>2</sup>.KW)

| Tiled Roof - 22° Pitch       | Summer | Winter |
|------------------------------|--------|--------|
| Ventilated (60mm Airspace)   | 2.2    | 1.0    |
| Metal Roof - 22° Pitch       |        |        |
| Raked Ceiling                | 2.6    | 1.4    |
| Ventilated (40mm Airspace)   | 2.6    | 1.2    |
| Unventilated (40mm Airspace) | 2.4    | 1.4    |

#### Commercial Applications

|                              |     |     |
|------------------------------|-----|-----|
| Commercial Office Metal Roof | 3.1 | 1.4 |
| Warehouse Metal Roof         | 1.9 | 0.9 |

#### External Walls (with Plasterboard internal)

|   |     |     |
|---|-----|-----|
| Metal Cladding (NO Plasterboard internal) | 1.0 | 1.0 |
| Brick Veneer                              | 1.8 | 2.1 |
| Vinyl Cladding                            | 2.2 | 2.2 |
| Precast Concrete                          | 2.5 | 2.5 |
| Masonry Block                             | 2.7 | 2.7 |

#### Residential - Metal Roof

Heat Flow In  
**R 2.6**

