

## General Purpose

### Insulation blanket for mechanical services

#### Description

General Purpose is manufactured from 80% recycled glass forming a lightweight, flexible blanket. It is available in various densities of 18kg, 22kg and 24kg. Sisalation® Facing Foil is applied to one side for condensation management.

#### Applications

General Purpose is a flexible insulation blanket designed for the external lagging of sheetmetal ductwork as well as low to medium temperature industrial equipment and appliances. It can also be used as a general insulating roofing blanket for commercial building where desired. General Purpose insulation is typically suited for use in applications such as air-conditioning ductwork, hot water tanks, and as an effective energy saving material on process vessels operating up to 300°C. The glasswool blanket is sufficiently flexible to wrap around sharp angles and small radii with sufficient compressive strength to maintain its thickness.

#### Product limitations of use

- Not to be used/exposed to weather in any condition including prior, during and after installation. Product must be kept dry at all times.
- Not suitable for applications where high humidity is present within building (wet climates for a long period).
- This product can not be classified to AS 1530.1 as an assembly, and is not suitable where non-combustible material is required.
- This product does not have a group number in accordance with AS 5637.1 and is not suitable for exposed applications where a group number is required.
- Product needs to be allowed to fully recover before installation.
- The facing is a vapour barrier, not to be used where vapour permeable product is required.
- Unfaced glasswool is not a water or vapour barrier, as such is not suitable for water or vapour control.
- Modifications not permissible, as suitability and/or compliance may be compromised.

#### Features and benefits

|                                                                |   |                                                                                        |
|----------------------------------------------------------------|---|----------------------------------------------------------------------------------------|
| Available in a range of thicknesses                            | → | Effectively meeting the NCC 2022 energy efficiency provision.                          |
| Codemark certified to AS 4859.1 for thermal performance        | → | Assurance that the product meets the requirements of National Construction Code (NCC). |
| Environmentally positive made from up to 80% recycled material | → | Minimal impact on the environment.                                                     |
| FBS-1 Bio-Soluble product                                      | → | Safe and comfortable to handle.                                                        |

### Product data

| Density<br>kg/m <sup>3</sup> | Facing                                                    | Material<br>R-value<br>m <sup>2</sup> K/W | Thickness<br>mm | Width<br>mm | Length<br>m | Old<br>product<br>code | New<br>product<br>code |
|------------------------------|-----------------------------------------------------------|-------------------------------------------|-----------------|-------------|-------------|------------------------|------------------------|
| 18                           | Sisalation® Medium Duty (MD)<br>430 Facing Foil 150mm lap | R1.5                                      | 50              | 1380        | 10          | 935477                 | 4005655                |
|                              |                                                           | R2.0                                      | 75              | 1380        | 8           | 935476                 | 4005654                |
| 22                           | Unfaced                                                   | R1.2                                      | 41              | 1200        | 18          | 935433                 | 4003806                |
|                              |                                                           | R1.5                                      | 50              | 1200        | 15          | 435415                 | 4003803                |
|                              |                                                           | R2.0                                      | 75              | 1200        | 7.5         | 940186                 | 4005585                |
|                              | Sisalation® Heavy Duty (HD)<br>450 Facing Foil 150mm lap  | R0.7                                      | 25              | 1200        | 15          | 935321                 | 4005642                |
|                              |                                                           | R1.5                                      | 50              | 1200        | 15          | 935322                 | 4005272                |
|                              |                                                           | R1.5                                      | 50              | 1380        | 15          | 935318                 | 4005641                |
|                              |                                                           | R2.0                                      | 75              | 1200        | 7.5         | 935327                 | 4005643                |
|                              |                                                           | R2.0                                      | 75              | 1425        | 9           | 935332                 | 4005644                |
|                              |                                                           | R0.7                                      | 25              | 1500        | 20          | 936135                 | 4005657                |
|                              |                                                           | R1.5                                      | 50              | 1500        | 12          | 936140                 | 4005658                |
| 24                           | Unfaced                                                   | R0.7                                      | 25              | 1500        | 20          | 936135                 | 4005657                |
|                              |                                                           | R1.5                                      | 50              | 1500        | 12          | 936140                 | 4005658                |

### Physical properties

| Property                                 | Test method/standard | Result                                       | Unit               |
|------------------------------------------|----------------------|----------------------------------------------|--------------------|
| Nominal density                          | ASTM C167            | 18, 22 or 24                                 | kg/m <sup>3</sup>  |
| Thermal resistance @ 23°C                | AS/NZS 4859.1        | Complies                                     | m <sup>2</sup> K/W |
| Maximum service temperature              | ASTM C411/C447       | Glasswool: 300<br>Reflective Foil Facing: 70 | °C                 |
| Fungi Resistance of Insulation Materials | ASTM C1338-14        | Pass (No growth)                             | –                  |

### Fire hazard properties

General Purpose exhibits the following characteristics when tested in accordance with the following standards:

| Property                                             | Test method/standard | Test results    |                                                                                                                                                                                                                                                                                      |
|------------------------------------------------------|----------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                      |                      | Unfaced         | Sisalation® HD Facing Foil                                                                                                                                                                                                                                                           |
| Combustibility<br>(unfaced glasswool component only) | AS/NZS 1530.1        | Non-combustible | N/A                                                                                                                                                                                                                                                                                  |
| Early Fire Hazard Indices                            | AS/NZS 1530.3        |                 |                                                                                                                                                                                                                                                                                      |
| Ignitability Index                                   |                      | 0               | 0                                                                                                                                                                                                                                                                                    |
| Spread of Flame Index                                |                      | 0               | 0                                                                                                                                                                                                                                                                                    |
| Heat Evolved Index                                   |                      | 0               | 0                                                                                                                                                                                                                                                                                    |
| Smoke Developed Index                                |                      | 1               | 2                                                                                                                                                                                                                                                                                    |
| Burn Test (excluding 24kg/m <sup>3</sup> )           | UL181.11             | N/a             | General Purpose Insulation has undergone testing to provide an indication of how it will perform individually when tested to UL 181 Burn Test, this testing is indicative only. AS 4254.1 and AS 4254.2 requires specific testing on the final assembled duct system for compliance. |

### Compliance

#### NCC2019

- Complies with AS/NZS 4859.1 as referenced in NCC 2019, Volume 1 Clause J1.2(a) and NCC 2019, Volume 2 Clause 3.12.1.1.
- When tested to AS/NZS 1530.3 this product does not exceed the 'Spread of Flame' or 'Smoke Developed' indices as required by NCC 2019 Volume 1, Specification C1.10 Clause 5 for Air Handling Ductwork and Clause 7 for insulation materials.

#### NCC2022

- Complies with AS/NZS 4859.1 as referenced in NCC 2019, Volume 1 Clause J1.2(a) and NCC 2019, Volume 2 Clause 3.12.1.1.
- When tested to AS/NZS 1530.3 this product does not exceed the 'Spread of Flame' or 'Smoke Developed' indices as required by NCC 2019 Volume 1, Specification C1.10 Clause 5 for Air Handling Ductwork and Clause 7 for insulation materials.

### Environmental properties

The Glasswool component of General Purpose Insulation is manufactured from up to 80% recycled glass which would otherwise go into landfill and be unsuitable for alternative manufacturing processes.

Fletcher Insulation avoids the use of Ozone Depleting Potential (ODP) substances in the manufacture or composition of its FBS-1 Glasswool Bio-Soluble Insulation® and Sisalation® reflective foil products.

The use of General Purpose Insulation provides the use of Zero ODP insulation while also ensuring that no harmful levels of Volatile Organic Compounds (VOCs) are released. This allows the incorporation of environmentally preferable insulation whilst also maintaining indoor air quality.

### Health and safety

General Purpose is manufactured from FBS-1 Glasswool Bio-Soluble Insulation. Refer to Fletcher Insulation Glasswool SUIIS for more information.

### Maintenance and conditions of use

- For installation please refer to AS4254.2 for installation requirement for air handling ductwork.
- Product must be kept dry at all times, not to be exposed to weather in any condition including prior, during and after installation.
- Foil facing should not be in contact with any corrosive environments, water or alkaline materials such as wet concrete etc
- Use of pressure cleaners or mineral based cleaners must not be used on the facing product.
- If product is compressed it will reduce the thermal performance of the product, ensure product recovers to nominal thickness where allowable to claim declared material R-value.
- Where insulation can be inspected, ensure any tears in the facing are repaired with appropriate tape as highlighted in the AS4254.2 for installation requirement for air handling ductwork.

### Technical specification

**When specifying, please state the following:**

The insulation material must be Fletcher Insulation® FI \_\_\_\_\_ (specify density 18, 22, 24) General Purpose with a Material R-value of R \_\_\_\_\_ m<sup>2</sup>K/W (specify Material R-value) at a nominal thickness of \_\_\_\_\_ mm (specify nominal thickness). Compliant with the thermal testing requirements of AS/NZS 4859.1.

Where a vapour barrier laminate is to be adhered to the blanket, the specification must state 'incorporating a Sisalation® MD or HD Facing Foil \_\_\_\_\_ mm wide' (specify 1200, 1380, 1425 or 1500mm width).

**The following performance attributes must be specified:**

- Product must be FBS-1 Biosoluble.
- Product must recover to the requirements of AS/NZS 4859.1.

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