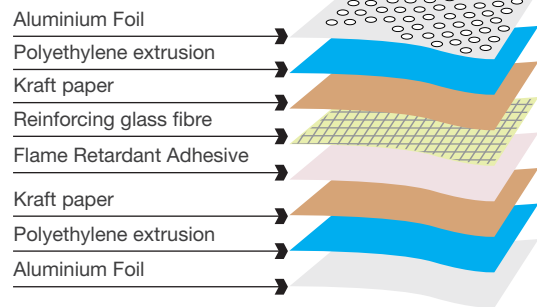


SISALATION® HEAVY DUTY PERFORATED 450P FACING FOIL

Description

Sisalation® Heavy Duty Perforated 450P Facing Foil is a double sided reflective foil laminate with approx. 2.5mm diameter perforations. The facing foil product has an outer layer of aluminium foil laminated to high density kraft paper with a unique extrusion polyethylene which provides a superior bond. A second layer of kraft paper is bonded with a heavy coating of flame retardant adhesive and reinforced with continuous strands of fibreglass in two directions. Another outer layer of foil is laminated with extrusion for superior bond. The final product is perforated to provide 11% open space.

Product Composition



Applications

Sisalation® Heavy Duty Perforated 450P Facing Foil is recommended for use as an acoustic insulation facing to maximise the acoustic absorption properties of the glasswool insulation. Recommended for lining internal ductwork for high volume air conditioning (HVAC) systems, common to large commercial buildings, to reduce sound transmission of moving air and air-borne noise from room to room. It is also recommended for providing acoustic treatment of walls and ceilings when used in combination with a glasswool blanket and installed behind a ceiling or wall lining.

It is also recommended for providing acoustic treatment of walls and ceilings when used in combination with a glasswool blanket and installed behind a ceiling or wall lining.

Product Data

| Roll width mm | Roll length m | m ² per roll | Roll weight kg |
|---------------|---------------|-------------------------|----------------|
| 1200 | 300 | 360 | 111.6 |
| 1350 | 60 | 81 | 25.1 |
| 1500 | 300 | 450 | 558 |
| 1500 | 600 | 900 | 279 |

Physical Properties

| Property | Test Method/Standard | Result | Unit |
|---|----------------------|----------------------|------|
| Duty Classification (prior to perforation) | AS4200.1 | Heavy Duty | |
| Resistance to dry delamination | AS/NZS 4201.1 | PASS | |
| Resistance to wet delamination | AS/NZS 4201.2 | PASS | |
| Shrinkage | AS/NZS 4201.3 | ≤ 0.5 | % |
| Emittance of reflective face (prior to perforation) | AS/NZS 4201.5 | IR Reflective (0.03) | |
| Edge tear resistance (prior to perforation) | Lateral | 112 | N |
| | Machine | 85 | N |
| Tensile strength (prior to perforation) | Lateral | 8.6 | kN/m |
| | Machine | 13.9 | kN/m |

Fire Hazard Properties

Sisalation® Heavy Duty Perforated 450P Facing Foil exhibits the following characteristics when laminated to semi rigid bulk insulation and tested in accordance with the following standards:

| Property | Test Method/Standard | Result |
|---|---|------------------|
| Early Fire Hazard Indices Ignitability Index Spread of Flame Index Heat Evolved Index Smoke Developed Index | Ignitability, Flame Propagation, Heat Release and Smoke Release (AS/NZS 1530.3) | 0 0 0 3 |
| Burn Test – Air Duct | In accordance with AS 4254 | Complies |

Health and Safety

There are no known health or safety risks associated with this product for applications described in this datasheet. Sisalation® Heavy Duty Perforated 450P Facing Foil contains aluminium foil and can conduct electricity. To avoid electrocution, care should be taken to ensure products do not come into contact with electrical wiring during installation or use. For additional information or to request a Safety User Information Sheet (SUIS) please visit www.insulation.com.au or contact your Fletcher Insulation Representative.

Acoustic Performance

Sound Absorption

The performance of sound absorption for insulation is described by the Noise Reduction Coefficient (NRC). In sound absorption applications, the NRC is used as an acoustic performance measure. The higher the NRC, the greater the sound absorption at the representative frequencies.

The NRC is the calculated average result of four frequencies: 250 Hz, 500 Hz, 1,000 Hz and 2,000 Hz.

Sisalation® Heavy Duty Perforated 450P Facing Foil Insulation achieves the following sound absorption coefficients when tested in accordance with AS ISO 354:

| Product FI32 Semi Rigid faced with: | Nominal thickness mm | Sound Absorption Coefficients at frequencies (Hz) of: | | | | | | | | | | |
|---|----------------------------|---|------|------|------|------|------|------|------|------|------|----------------|
| | | 100 | 125 | 250 | 500 | 1000 | 2000 | 3150 | 4000 | 5000 | NRC | α _w |
| Sisalation® Heavy Duty Perforated 450P Facing Foil | 25 | 0.05 | 0.06 | 0.22 | 0.63 | 0.87 | 1.00 | 0.92 | 0.88 | 0.83 | 0.70 | 0.55 (MH) |
| | 38 | 0.08 | 0.16 | 0.57 | 0.89 | 1.08 | 1.02 | 0.98 | 0.99 | 0.94 | 0.90 | 0.85 |
| | 50 | 0.07 | 0.19 | 0.68 | 1.07 | 1.05 | 1.01 | 0.91 | 0.96 | 0.86 | 0.95 | 1.00 |
| | 75 | 0.22 | 0.52 | 1.16 | 1.07 | 0.99 | 1.01 | 0.99 | 0.97 | 0.90 | 1.05 | 1.00 |
| | 100 | 0.45 | 0.82 | 1.19 | 1.14 | 1.06 | 1.06 | 1.01 | 1.01 | 0.96 | 1.10 | 1.00 |

Recommended Air Velocities

The recommended air velocities has been determined to be 40m/s. A safety factor of 0.4 is applied in accordance with the UL181 Standard to give a recommended maximum working velocity of 16m/s. For higher velocities, duct linings should be used behind perforated sheet metal mechanically fastened to the duct wall. Maximum design velocities are valid for ductliner insulation faced by Fletcher Insulation and installed according to AS4254.2.

Technical Specifications

When specifying, state the following:

Facing material should be Sisalation® Heavy Duty Perforated 450P Facing Foil bonded directly to FI32 Semi Rigid Insulation.

© Fletcher Insulation Pty Limited 2020. Fletcher Insulation reserves the right to change product specifications without prior notification. Information in this publication and otherwise supplied to users as to the subject product is based on our general experience and is given in good faith, but because of the many particular factors which are outside our knowledge and control and affect the use of products, no warranty is given or is to be implied with respect to either such information or the product itself, in particular the suitability of the product for any particular purpose. The purchaser should independently determine the suitability of the product for the intended application. Unless otherwise stated all ™ and ® are trademarks and registered trademarks of Fletcher Insulation Pty Limited ABN 72 001 175 355. HITDS16_Revision_2_Issuedate 25082020.

For more information call 1300 654 444
email info@insulation.com.au or web www.insulation.com.au

 **SISALATION**
The Original and The Best