Fletcher Insulation
Building Better, Together

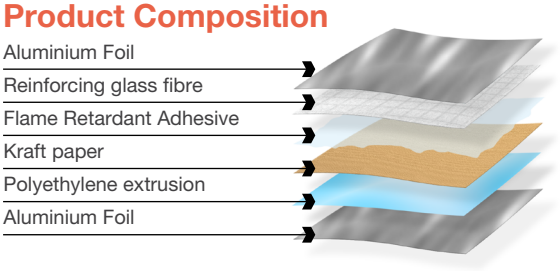
Technical Data Sheet

SISALATION® HEAVY DUTY 450 FACING FOIL

Description

Sisalation® Heavy Duty 450 Facing Foil comprises of an outer layer of aluminum foil bonded to a high density kraft paper. This is then bonded to an additional layer of foil using a heavy coating of flame-retardant adhesive. The laminate is reinforced with strands of glass fiber yarn to deliver exceptional strength.

Product Composition



Applications

Sisalation® Heavy Duty 450 Facing Foil is recommended for use as a vapour barrier in the internal lining and external lagging of air conditioning ductwork, pipes and vessels. It is also used to face building blanket for metal deck roofing and underpinning concrete roof slabs, particularly when a strong, tear resistant facing is required. When used in conjunction with an airspace, it is an effective thermal insulation material because of the high reflectivity and low emissivity of its aluminium foil surfaces. It provides an effective barrier against moisture, vapour, wind, heat and dust penetration when overlapped.

Features and Benefits

Superior resistance to moisture as a Class 2 Vapour barrier.	Provides an excellent secondary skin and an ongoing barrier to vapour.
Meets flammability index requirements of ≤5 in accordance with AS/NZS1530.2	Peace of mind compliance with the requirements of NCC 2022.
Heavy Duty tensile strength	Provides superior strength as an effective facing to bulk glasswool insulation in ducting, plant room, factories and sports stadium applications.
Provides R-value from reflective surface	Aids in reducing energy costs for the building and provides thermal comfort to the occupant.

Product Data

Roll width mm	Roll length m	m² per roll	Roll weight kg
1000	60	60	10.45
1000	300	300	53.27
1200	60	72	12.24
1200	300	360	63.47
1350	60	81	14.05
1500	600	900	155.80

Physical Properties

Property	Test Method	Result/Classification	Unit
Duty classification	AS4200.1	Heavy Duty	
Resistance to dry lamination	AS/NZS 4201.1	Pass	
Resistance to wet lamination	AS/NZS 4201.2	Pass	
Shrinkage	AS/NZS 4201.3	Pass (<0.5%)	
Emittance of reflective face	AS/NZS 4201.5 (ASTM E408)	0.03 IR Reflective	
Edge tear resistance	TAPPI T470	Machine Direction ≥80 Lateral Direction ≥80	N
Tensile strength	AS 1301.448	Machine Direction ≥12.5 Lateral Direction ≥7.5	kN/m

Fire Hazard Properties

Sisalation® Heavy Duty 450 Facing Foil exhibits the following characteristics when tested in accordance with the following standards:

Property	Test Method/Standard	Test Results
Flammability Index	AS/NZS 1530.2	≤5 (Low)

Health and Safety

There are no known health or safety risks associated with this product for applications described in this datasheet. Sisalation® Heavy Duty 450 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 Use Sheet please visit www.insulation.com.au or contact your Fletcher Insulation Representative.

Technical Specifications

When specifying, state the following:

For Internal lining of ductwork

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

For external lagging of ductwork

Facing material should be Sisalation® Heavy Duty 450 Facing Foil bonded directly to FI22 Ductwrap Insulation.