

TECHNICAL DATA SHEET

FI11 DUCTFLEX® LIGHTWEIGHT FLEXIBLE DUCT INSULATION

Product description and typical applications

Ductflex® is a lightweight glasswool insulation roll suitable for insulating flexible ducting of all types. The use of long, fine fibres in the manufacture of Ductflex® insulation enables the product to recover to its designed thickness even after prolonged periods of storage on a fully compressed duct.

Ducts insulated with Ductflex® insulation will comply with the bulk insulation requirements of AS 4254 "Ductwork for Air-Handling Systems in Buildings" and AS 4508-1999 including Amendment 1 "Thermal Resistance of Insulation for Ductwork used in Building Air-Conditioning".

Physical characteristics

Material R-value m ² K/W	Nominal thickness mm	Roll dimensions	Density kg/m ³	Mass/unit area kg/m ²
R0.6	25	30m x various widths	11	0.3
R1.0	45	30m x various widths	11	0.5
R1.2	50	30m x various widths	11	0.6
R1.5	63	24m x various widths	11	0.7
R1.8	75	24m x various widths	11	0.8
R2.0	85	24m x various widths	11	0.9

Note: Ductflex® rolls are skip-chopped at 6m intervals to assist with installation onto flexible duct cores. Roll widths are manufactured to suit 8" (200mm) - 20" (500mm) diameter flexible ducts.

Thermal performance

Ductflex® complies with the requirements of AS/NZS 4859.1:2002 including Amendment 1.

Combustibility

Ductflex® insulation is classified as non-combustible in accordance with AS 1530.1 – 1994.

Early fire hazard properties

Ductflex® achieves the following results when tested in accordance with AS1530.3-1999:

	Unfaced
Ignitability Index	0
Spread of Flame Index	0
Heat Evolved Index	0
Smoke Developed Index	0-1

Maximum service temperature

Ductflex® is manufactured for use at a maximum service temperature of 340°C. When used in conjunction with flexible ductwork, the temperature tolerance of the core and sleeve must be considered as these components will limit the temperature tolerance.



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Moisture absorption

Ductflex® absorbs less than 0.2% moisture by volume when exposed to environmental conditions of 50°C and 95% relative humidity for four days.

Alkalinity

When tested in accordance with British Standard 3958, Fletcher Insulation™ glasswool products receive a rating of pH9 (pH7 is neutral). They will not promote or accelerate the corrosion of steel or galvanised steel studs provided they are protected from external contamination.

Safe to use

Ductflex® is manufactured from FBS-1 Glasswool Bio-Soluble Insulation®. FBS-1 Glasswool Bio-Soluble Insulation® is safe to use and meets the criteria of the Australian Safety and Compensation Council (formerly NOHSC) to be classified as non-hazardous. Fletcher Insulation™ glasswool can be used with confidence in any residential, commercial or industrial application.

Green Star compliant

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 Ductflex® guarantees the use of Zero ODP insulation while also ensuring that no harmful levels of Volatile Organic Compounds (VOC's) are released. This allows the incorporation of environmentally preferable insulation whilst also maintaining indoor air quality.

Specification notes

The insulation material shall be Fletcher Insulation Ductflex® with a Material R-value of R ____ m² K/W (specify Material R-value) at a nominal thickness of ____ mm (specify nominal thickness).

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