



ARD Rigid Duct Liner



GreenStuf® Rigid Duct Liner (ARD) consists of high-density polyester insulation material bonded to a highly durable black fabric or e-Foil perforated facing.

Applications

ARD has been designed as a thermal and acoustic lining for all types of air conditioning systems, including rectangular ducting, oval and round sheet-metal ducting and silencers.

Its high durability rating means it can be used for both low and high air-flow volumes, rated to velocities of up to 50m/second, with no additional protection. The tough black facing also helps protect the liner on-site prior to installation.



Technical

NZBC Compliance: GreenStuf® ARD products meet the relevant clauses of NZBC C3.4(a) Prevention of Fire, F2 Hazardous Building Materials, and may contribute to meeting H1 Energy Efficiency, and G6 Acoustic Design requirements.

Non Flammable: GreenStuf® is classified non flammable.

Fire ratings:

GreenStuf® ARD products are fully compliant with NZBC fire requirements as detailed in NZBC Verification Method C/VM2.

GreenStuf® ARD Black Face

ISO 9705: 1993

Classification: Group 1-5

Smoke Production Rate: <5.0m²/s

As required by NZBC C/VM2

Issued 8th October 2013, BRANZ (FC 4045)

GreenStuf® ARD e-Foil Perforated Face

ISO 9705: 1993

Classification: Group 1-5

Smoke Production Rate: <5.0m²/s

As required by NZBC C/VM2

Issued 20th August 2014, BRANZ (FI 5550)

Thermal Performance:

GreenStuf® ARD products carrying declared thermal performance ratings have been laboratory tested to ASTM C518-04.

Sizes: Sheet size: 1200mm x 2400mm. Special sizes on application, subject to minimum order quantities

Biological Resistance: Polyester insulation is resistant to biological attack (bacteria and fungal resistant)

Maximum Service Temperature: GreenStuf® ARD should not be used where temperature exceeds 90°C

Maximum Air Velocity: GreenStuf® ARD black faced can be used in sheetmetal ductwork up to velocities of 50m/sec without additional protection. GreenStuf® ARD must be used with surface edge protection to the air flow direction

Moisture: GreenStuf® is not affected by moisture. Exposure to an atmosphere of 50°C at 90% relative humidity for four days showed moisture absorption by weight of less than 0.03%.

Corrosiveness: GreenStuf® ARD would not be classified as corrosive when tested in accordance with NZS4222.

Odour Free: Autex insulation is odour free and won't absorb from it's surroundings.

PRODUCT	NOMINAL THICKNESS	R-VALUE	NRC	SHEETS PER PACK	m ² /PACK
ARD 25 Black Face	25mm	R0.68	0.70	10	28.8m ²
ARD 25 e-Foil Perforated	25mm	R0.68	0.70	10	28.8m ²
ARD 50 Black Face	50mm	R1.36	0.90	5	14.4m ²
ARD 50 e-Foil Perforated	50mm	R1.36	0.90	5	14.4m ²
ARD 75 Black Face	75mm	R2.03	1.05	4	11.52m ²
ARD 75 e-Foil Perforated	75mm	R2.03	1.05	4	11.52m ²

Non Corrosive: GreenStuf® polyester is pH7.8 (pH7 is neutral).

Non-Toxic, Non-Allergenic, Non-Irritant: There are no known hazards with the use or handling of GreenStuf® polyester.

Vermin: GreenStuf® is naturally resistant to insect and vermin attack.

MSDS: Material Safety Data Sheets (MSDS) are available on request from your Autex Representative or by visiting our website: www.autex.co.nz

Durability: GreenStuf® has a 50 Year Durability Warranty.

Acoustic Performance: All performance results are based on testing carried out in a laboratory environment. On-site results could vary depending on the system design, materials and quality of the installation. For more information and assistance please contact your Autex Representative.

VOC Emissions: Autex polyester has been tested by Cetec Pty Ltd (Report: CV080408) for chemical emission and is classified as low VOC. VOC concentration: 0.01 mg/m³.

ISO Standards: Autex is committed to Quality and Environmental best practice through our ISO 9001 & ISO 14001 certified Quality and Environmental Management Systems.

Nominal Thickness: The product nominal thickness for ARD is the off-line manufactured thickness. Packaging, storage and handling may affect the “out of the pack” thickness. This is not considered a manufacturing fault. If thickness is critical to a particular installation please discuss your requirements with your Autex Account Manager.

ARD Facings and Adhesive Backings: Autex GreenStuf® ARD is factory faced with a durable 100% polyester black needled felt. Other facings including perforated foil as well as Self Adhesive Backings may be available on request (with a minimum order quantity). Please discuss your requirements with your Autex Representative.

Environmental: All GreenStuf® insulation products are manufactured using the same materials and under the same conditions, processes and controls as the Environmental Choice New Zealand certified range as published at the date of this document. All GreenStuf® products are manufactured from 100% polyester fibre and contain a minimum of 45% already recycled fibre (from PET plastic) and are manufactured under Autex’s zero waste policy.

GreenStuf® products are Green Star NZ & Homestar compatible, and GreenStuf® products have been independently assessed and verified compliant with Living Building Challenge projects. For more information please contact your Autex Account Manager or visit our website.

Availability: Autex GreenStuf® ARD products are exclusively available nationwide from Forman Building Systems.



www.forman.co.nz - 0800 45 4000

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Mt Wellington
Auckland

Hamilton

86 The Boulevard
Te Rapa
Hamilton

Wellington

77 Port Road
Seaview, Lower Hutt
Wellington

Christchurch

88 Hazeldean Road
Addington
Christchurch

Dunedin

8 Kitchener Street
Dunedin 9054

GreenStuf® is manufactured in New Zealand by Autex Insulation, a division of Autex Industries Limited. Autex retains the right to change products and specifications without prior notice. If a specification is critical to end use situation please discuss your requirements with your Autex Representative.

GreenStuf® is a registered trademark of Autex Industries.

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AUTEX



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ISO 9001 AND ISO 14001 CERTIFIED