

GreenStuf®

AUTEX ACOUSTIC BLANKET

GreenStuf® Autex Acoustic Blanket (AAB) is a thermally bonded 100% polyester blanket having excellent acoustic transmission control and noise absorption properties. Typical uses include infill insulation for stud walls and inter-floor construction. Building uses include inter-tenancy fit outs, noise critical partitions in commercial office, educational buildings and hospitals. GreenStuf AAB is available in a range of densities and thicknesses to suit the specific application.

APPLICATIONS

GreenStuf AAB has been engineered to maximize sound absorption for the control of reverberated noise in building interiors. GreenStuf AAB is ideal for managing noise in theatres, studios, auditoriums, halls, offices, retail and indoor swimming pool complexes. GreenStuf AAB can also be used in marine applications, as acoustic baffles, acoustic infill for silencers and louvres, and insulation for Original Equipment Manufacturers (OEM). To ensure Building Code compliance, architects and building designers are advised to consult an engineer or the relevant Australian standards before specifying acoustic insulation product. For information and assistance please contact your local Autex account manager.

TECHNICAL

BCA Compliance: When installed in accordance with the manufacturer's instructions, GreenStuf insulation will satisfy the 50 year durability criteria for minimum design life as set out in the ABCB guidance document Durability in Buildings including Plumbing Installations 2015 (section 3.4).

Durability: GreenStuf has a 50 Year Durability Warranty.

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

Product Format: The product nominal thickness 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.

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%.

Hazardous Building Materials: GreenStuf is non-hazardous.

VOC Emission Safe:

VOC concentration: 0.01 mg/m³ (7 days).
 GECA/GreenGuard Limit: 0.25 mg/m³ (7 days).
 Cetec Pty Ltd (Report: RCV080408)

Non-Corrosive: GreenStuf polyester is considered non-corrosive based on AS/NZS4859.1 standard for insulation.

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



MSDS: Material Safety Data Sheets (MSDS) are available on request from your Autex account manager or by visiting our website www.greenstuf.com.au

Fire Regulations: GreenStuf insulation may not be suitable for all applications, as stipulated in the NCC. Please consult a fire engineer when specifying GreenStuf insulation or contact your local Autex account manager for further information.

Fire ratings:

AS ISO 9705:2003

Australian Group Number: Group 1

SMOGR_{RC}: less than 100m²/s²

Assessed using methodology AS ISO 9705:2003 in accordance with AS5637.1:2015, as required by NCC specification C1.10-4, F14973 issued 16th September, 2012 (Test conducted on GreenStuf AAB 48-100). FAR4045-2 issued 8th October, 2013.

AS1530.3

Ignitability Index (0-20) 0

Heat Evolved Index (0-10) 0

Spread of Flame Index (0-10) 0

Smoke Developed Index (0-10) 2

APL Report 98106 (Test conducted on GreenStuf AAB 35-50)

IEC 60695-11-5 (Downlight Fire Test Standard)

GreenStuf AAB range has been tested and assessed as complying with the requirements of IEC 60695-11-5 Needle-flame test.

Certificates available on request.

Specification & Substitution: Autex specification documents are available from our website www.greenstuf.com.au

Substitution of any products should not be accepted and we recommend this be made clear in all specification and tender documents. The performance and design of GreenStuf AAB has been engineered to supply a tested and proven sound control system. Substitution of any specified components in a sound control system can significantly compromise the system performance. Accept NO substitutions.

Take Back Programme: Autex will gladly recycle used, uncontaminated GreenStuf insulation to help keep it out of landfills. For more information on recycling GreenStuf contact Autex on freephone 1800 678 160.

Environmental: All GreenStuf products are manufactured using 100% polyester fibre and contain a minimum of 50% previously recycled fibre (from PET plastic). GreenStuf products are manufactured under Autex's Zero Waste Programme where all manufacturing waste is recycled back into the production process. GreenStuf products are Global GreenTag GreenRate Level A certified and have been awarded Global GreenTag's Platinum Product Health Declaration. GreenStuf is also Declare certified to be Red List chemical free and can be used in Living Building Challenge projects. For more information, please contact your Autex account manager, or visit our website www.greenstuf.com.au

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

Acoustic and Thermal Performance: All GreenStuf AAB acoustic and thermal performance testing has been carried out in a laboratory environment. On-site results could vary depending on the system design, product handling and quality of the installation. For service and advice, please contact your Autex account manager or Customer Services on 1800 678 160.

Installation: Autex recommends that all thermal and acoustic insulation be installed in accordance with the manufacturer's instructions and AS3999: 2015 Bulk thermal insulation - Installation.

When installed as infill insulation GreenStuf AAB should be installed with no gaps. Where required, drops should be mechanically fixed at the top to secure in place until the plasterboard linings are installed.

Lower density options can be torn by hand across the width of the rolls for length. If the insulation needs to be cut we suggest using sharp scissors or a wavy edge type Swibo knife. GreenStuf AAB can be used in both metal and timber-framed partitions.

When used as an absorber GreenStuf AAB should ideally be installed with the textured/patterned surface exposed to the sound source. GreenStuf AAB can be fixed to wall and ceiling substrates using compatible contact type adhesive and/or mechanical fixings such as insulation anchors and fastening systems.

When installed behind perforated or slotted panels ensure the insulation lays flat and all perforations or open area is covered. Wiring, luminaires and appliances should not be covered. Instruction from the luminaire and appliance supplier should obtain to assess the required space between insulation and the device in all cases.

Maximum safe weight loadings of the substrate that the insulation will be fixed to or laid over should be verified prior to installation to ensure the Insulation will not overload or void any applicable warranties. Additional information and advice is available from your Autex account manager or by visiting our website www.greenstuf.com.au

PRODUCT	DENSITY (kg/m ³)	NOMINAL THICKNESS (mm)	WEIGHT (gsm)	SOUND ABSORPTION — FREQUENCY (Hz)							CALCULATED R-VALUE	
				125	250	500	1000	2000	4000	NRC		
AAB 10-100	10	100mm	1000	0.40	0.70	0.80	0.80	0.80	0.80	0.80	0.80	1.60
AAB 20-25	20	25mm	500	0.11	0.25	0.57	0.71	0.78	0.74	0.74	0.60	0.56
AAB 20-50	20	50mm	1000	0.29	0.61	0.87	0.91	0.91	0.89	0.89	0.80	1.12
AAB 20-75	20	75mm	1500	0.35	0.60	0.85	0.95	0.90	0.95	0.95	0.85	1.68
AAB 20-100	20	100mm	2000	0.50	0.85	1.00	0.95	0.95	1.00	1.00	0.95	2.24
AAB 25-25	25	25mm	625	0.15	0.30	0.50	0.65	0.75	0.75	0.75	0.55	0.61
AAB 25-50	25	50mm	1250	0.25	0.50	0.70	0.80	0.80	0.80	0.80	0.70	1.22
AAB 25-75	25	75mm	1875	0.40	0.65	0.90	1.00	0.95	1.00	1.00	0.90	1.83
AAB 25-100	25	100mm	2500	0.49	0.84	1.00	0.94	0.94	1.01	1.01	0.95	2.44
AAB 32-25	32	25mm	800	0.15	0.25	0.50	0.65	0.80	0.80	0.80	0.55	0.66
AAB 32-50	32	50mm	1600	0.30	0.50	0.80	0.95	0.90	0.90	0.90	0.80	1.32
AAB 32-75	32	75mm	2400	0.20	0.55	0.90	1.00	1.00	1.00	1.00	0.90	1.98
AAB 32-100	32	100mm	3200	0.50	1.00	1.10	1.05	1.05	1.05	1.05	1.05	2.64
AAB 35-25	35	25mm	875	0.10	0.38	0.64	0.83	0.88	0.84	0.84	0.70	0.68
AAB 35-50	35	50mm	1750	0.29	0.68	1.01	1.01	0.97	0.95	0.95	0.90	1.36
AAB 40-25	40	25mm	1000	0.10	0.20	0.45	0.65	0.80	0.80	0.80	0.55	0.70
AAB 40-50	40	50mm	2000	0.30	0.55	0.90	0.95	0.95	0.95	0.95	0.85	1.41
AAB 40-75	40	75mm	3000	0.25	0.60	0.95	1.05	1.05	1.00	1.00	0.95	2.11
AAB 40-100	40	100mm	4000	0.45	1.05	1.15	1.05	1.05	1.05	1.05	1.05	2.81
AAB 48-25	48	25mm	1200	0.15	0.42	0.73	0.92	0.96	0.90	0.90	0.75	0.73
AAB 48-50	48	50mm	2400	0.30	0.55	0.90	0.95	0.95	0.95	0.95	0.90	1.47
AAB 48-75	48	75mm	3600	0.40	0.80	1.15	1.10	1.05	1.05	1.05	1.05	2.20
AAB 48-100	48	100mm	4800	0.88	1.14	1.10	1.03	1.03	0.98	0.98	1.10	2.94

Greenstuf® is manufactured in Australia by Autex Australia Pty Ltd. Autex retains the right to change products and specifications without prior notice. If a specification is critical to the end use application please discuss your requirements with your Autex account manager.

GreenStuf® is a registered trademark of Autex Industries.

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