

GreenStuf®

PARTITION BLANKETS

GreenStuf® Partition Blankets are a range of 100% polyester acoustic insulation designed to improve the acoustic performance of partition walls and ceiling systems. The range includes GreenStuf® Autex Sound Blanket (ASB), GreenStuf® Commercial Partition Blanket (CPB) and GreenStuf® High Performance Infill (HPI). GreenStuf Partition Blankets are pre-cut to fit standard metal stud partitions set at 450mm and 600mm centres.

APPLICATIONS

GreenStuf Partition Blankets can be used in metal and timber stud partition walls and as an acoustic ceiling overlay for reducing airborne sound transfer. The use of GreenStuf Partition Blankets reduces resonating noise in the construction cavity thereby increasing the sound transmission loss of the construction system. The National Construction Code of Australia (NCC) sets out minimum performance ratings for inter-tenancy walls and floor-ceiling construction. Acoustic design for code compliance requires specialist design considerations.

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

Durability: GreenStuf has a 50 Year Durability Warranty.

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/NZS 4859.1 standard for insulation.

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.

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

Classification: Group 1

SMOGRARC: 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.

FAR4045-2 issued 8th October, 2013 (Assessed as GreenStuf Blanket/Roll Form).



Declare.



PROUDLY MADE IN AUSTRALIA

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) 3

APL Report 02116 (Test conducted on Sound Solution®)

Installation: GreenStuf Partition Blanket products should be installed in accordance with the manufacturer's instructions (included in each pack) and the design detail and specification. Additional information and advice is available from your Autex account manager or by visiting our website www.greenstuf.com.au

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

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

The performance and design of the GreenStuf Partition Blanket range has been engineered to supply a proven sound control system. Substitution of any specified components in a sound control system can significantly compromise the system performance. Products of similar weight and density may not provide equivalent performance, as small variations in fibre size, structure and bonding will affect 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 free phone 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 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 Performance: Performance results are typically reported as Weighted Sound Reduction Index (Rw) ratings for partition walls. The construction method, linings and insulation will all contribute to the performance of the partition wall.

The acoustic performance ratings described in the following performance tables are valid for metal stud

partition walls using 0.55µm steel stud set at 600mm centres (as described in the systems tables). Dependent on the system, installing the correct GreenStuf Partition Blanket can improve the value between 3 -10 Rw points. For design advice on a specific system contact your Autex account manager.

ACOUSTIC PERFORMANCE

SYSTEM DESCRIPTION	INSULATION TYPE	INSULATION THICKNESS (mm)	SYSTEM RATING	
			RW	RW + CTR
1 x layer 10mm plasterboard each side 64mm metal stud partition wall.	ASB3	60mm	39	-
	ASB4	70mm	40	-
	HPI60	60mm	41	-
1 x layer 13mm plasterboard each side 64mm metal stud partition wall.	ASB3	60mm	41	-
	ASB4	70mm	42	-
	HPI60	60mm	43	-
2 x layers 13mm plasterboard one side 1 x layer 13mm Plasterboard other side of 92mm metal stud partition wall.	ASB3	60mm	47	-
	CPB14-90	90mm	49	-
	HPI-90	90mm	50	-
2x 10mm plasterboard each side 92mm metal stud partition wall.	ASB4	70mm	48	-
	CPB 11-75	75mm	49	-
	HPI 90	90mm	50	-
2x 13mm FR rated plasterboard each side 92mm metal stud partition walls.	ASB5	80mm	54	-
	CPB14-90	90mm	55	-
	HPI90	90mm	56	-
2 x layers 13mm FR rated plasterboard each side staggered metal stud partition walls using 150mm track.	ASB 4	70mm	57	51
	CPB11-75	75mm	58	52
	CPB14-75	75mm	59	53
1 x 16mm FR rated plasterboard each side double metal stud wall 64mm metal studs wall thickness 204mm. discontinuous construction.	HPI165 + ASB3	165mm + 60mm	59	51

The acoustic performance stated in this document are based on testing, prediction and opinion. All studs are set out at 600mm centres. Performance on-site can vary dependent on installation and limitations on site such as flanking paths. Autex recommends specifying higher than the minimum required performance level to help ensure the client's expectations are satisfied. For assistance on your project please contact your local Autex account manager.

ON-SITE INFORMATION

GreenStuf Partition Blanket products are compression packed to minimise transportation costs and ease on-site storage and handling. Prior to use, the packs should be opened to allow recovery of the insulation loft. Product recovery to the stated nominal thickness may be slowed by low temperatures and extended periods of storage in compressed packaging. Installing product at less than the stated nominal thickness does not hinder long-term acoustic performance.

These products are proven to recover in-situ over time. The GreenStuf Partition Blanket range is blue colour tinted to provide easy identification on site. If GreenStuf Partition Blanket products have been specified and the insulation material is not blue tinted, it is not a GreenStuf Partition Blanket and instructions should be issued to cease installation until the correct specified material is supplied. Equivalent weight and thickness products may not provide equivalent acoustic performance as small changes to fibre size, blend and fibre bonding affect the product performance. Acoustic insulation 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. Insulation 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 Partition Blanket products are designed to be used in metal and timber stud walls.

The GreenStuf Partition Blanket range can be used as an acoustic ceiling overlay to help reduce sound transfer between rooms and spaces, and reduce reverberation times in when used behind perforated or panel type systems. (GreenStuf AAB is specifically designed for reverberation control in this application). Performance will vary depending on the ceiling system design and installation. For design advice and assistance please contact your Autex account manager.

GREENSTUF® AUTEX SOUND BLANKET (ASB)

GreenStuf ASB is an acoustic insulation ideally suited as a partition infill for interior and commercial fit out applications to improve acoustic separation between adjoining spaces. Being 100% polyester GreenStuf ASB is completely safe for the installer and building occupiers. Supplied in roll form to allow fast and efficient use and minimise waste. GreenStuf ASB is available in a range of thicknesses to suit the required stud depth and performance rating.

PRODUCT	NOMINAL THICKNESS (mm)	DIMENSIONS (mm)	ROLLS PER PACK	m ² /PACK
ASB2	50mm	610mm x 16500mm	2	20.13m ²
		450mm x 16500mm	3	22.28m ²
ASB3	60mm	610mm x 16500mm	2	20.13m ²
		450mm x 16500mm	3	22.28m ²
ASB4	70mm	610mm x 16500mm	2	20.13m ²
		450mm x 16500mm	3	22.28m ²
ASB5	80mm	610mm x 16500mm	2	20.13m ²
		450mm x 16500mm	3	22.28m ²
ASB6	90mm	610mm x 12000mm	2	14.64m ²
		450mm x 12000mm	3	16.20m ²

GREENSTUF® COMMERCIAL PARTITION BLANKET (CPB)

GreenStuf CPB is an acoustic infill insulation designed to meet the standard industry weight based requirements of many common referenced as Rw rated partition wall and ceiling systems. GreenStuf CPB is supplied standard in either 11 or 14kg/m³ and ranged in thickness's to suit the specified stud depth and acoustic rating. To ensure optimal performance it is recommended to match the product thickness as closely as possible to the stud depth. GreenStuf CPB is supplied in roll form to allow fast and efficient installation of the product and help minimise material and labour costs. Being 100% polyester it is non-toxic and completely safe for the installer and building occupiers.

PRODUCT	kg/m ³	NOMINAL THICKNESS (mm)	DIMENSIONS (mm)	ROLLS PER PACK	m ² /PACK
CPB11-50	11kg	50mm	610mm x 15000mm	2	18.30m ²
			450mm x 15000mm	3	20.25m ²
CPB11-75	11kg	75mm	610mm x 15000mm	2	18.30m ²
			450mm x 15000mm	3	20.25m ²
CPB14-50	14kg	50mm	610mm x 15000mm	2	18.30m ²
			450mm x 15000mm	3	20.25m ²
CPB14-75	14kg	75mm	610mm x 15000mm	2	18.30m ²
			450mm x 15000mm	3	20.25m ²
CPB14-90	14kg	90mm	610mm x 12000mm	2	14.64m ²
			450mm x 12000mm	3	16.20m ²

GREENSTUF® HIGH PERFORMANCE INFILL (HPI)

GreenStuf HPI is a range of acoustic insulation specifically engineered to maximise the acoustic performance of partition wall and ceiling systems. GreenStuf HPI improves the acoustic separation by reducing noise intrusion and increasing sound privacy between spaces. GreenStuf HPI should be used where optimal acoustic performance is required. Manufactured from 100% polyester, GreenStuf HPI is completely safe for the installer and building occupiers and has no known health hazards.

PRODUCT	kg/m ³	NOMINAL THICKNESS (mm)	DIMENSIONS (mm)	ROLLS PER PACK	m ² /PACK
HPI60	20kg	60mm	610mm x 8200mm	2	10.00m ²
			450mm x 8200mm	3	11.07m ²
HPI90	20kg	90mm	610mm x 8200mm	2	10.00m ²
			450mm x 8200mm	3	11.07m ²
HPI165	11kg	165mm	610mm x 6000mm	2	7.32m ²
			450mm x 6000mm	3	8.10m ²

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.

AUTEX



**Autex Australia Pty Ltd
Melbourne**

166 Bamfield Rd,
PO Box 5099,
West Heidelberg, Melbourne,
VIC 3081 Australia
Phone **+61 3 9457 6700**
Fax **+61 3 9457 1020**
Freephone 1800 678 160
www.autex.com.au

**Autex Australia Pty Ltd
Sydney**

16 Bushells Place,
Wetherill Park,
Sydney, NSW 2164
Australia
Phone **+61 2 9756 3122**
Fax **+61 2 9756 3165**

www.autex.com.au

**Autex Australia Pty Ltd
Brisbane**

7-11 Lancashire Street,
Acacia Ridge,
Brisbane, QLD 4110,
Australia
Phone **+61 7 3853 2600**
Fax **+61 7 3853 2666**

www.autex.com.au