

GreenStuf® Partition Blankets

GreenStuf® Partition Blankets is a range of 100% polyester acoustic insulation products designed to improve the acoustic performance of partition walls and ceiling systems. The range includes Autex Sound Blanket, Commercial Partition & High Performance Infill. Pre-cut to fit standard metal stud partitions set at 450 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 reduce resonating noise in the construction cavity there by increasing the sound transmission loss of the construction system. The Building Code of Australia (BCA) sets out minimum performance ratings for inter-tenancy walls and floor-ceiling construction. Acoustic design for code compliance requires specialist design considerations. For information and assistance please contact your Autex Representative.

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 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.

Non Flammable: GreenStuf® is classified non flammable.

Fire ratings:

AS ISO 9705:2003

Classification: Group 1

SMOGRARC: Less than 100m²/s²

Report No: FAR4045

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

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



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AUSTRALIA ★

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

Specification & Substitution: Autex specification documents are available and can be downloaded from our website (www.autex.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 effect performance. Accept NO substitutions.

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

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 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 Representative.

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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 ASB is completely safe for the installer and building occupiers. Supplied in roll form to allow fast and efficient use and minimise waste. ASB is available in a range of thickness's to suit the required stud depth and performance rating.

PRODUCT	THICKNESS	DIMENSIONS	ROLL PER PACK	M2 PER PACK
ASB2	50	610 x 16.5m	2	20.13
		450 x 16.5m	3	22.28
ASB3	60	610 x 16.5m	2	20.13
		450 x 16.5m	3	22.28
ASB4	70	610 x 16.5m	2	20.13
		450 x 16.5m	3	22.28
ASB5	80	610 x 16.5m	2	20.13
		450 x 16.5m	3	22.28
ASB6	90	610 x 12.0m	2	14.64
		450 x 12.0m	3	16.20

Commercial Partition Blanket (CPB)

GreenStuf® CPB is an acoustic infill insulation designed to meet the standard industry weight based requirements of many common referenced RW rated partition wall and ceiling systems. CPB is supplied standard in either 11 or 14kgm³ 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. CPB is supplied in roll form to allow fast and efficient installation of the product helping 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	THICKNESS	DIMENSIONS	ROLLS PER PACK	M2 PER PACK
CPB11-50	11	50	610mm x 15m	2	18.30
			450mm x 15m	3	20.25
CPB11-75	11	75	610mm x 15m	2	18.30
			450mm x 15m	3	20.25
CPB14-50	14	50	610mm x 15m	2	18.30
			450mm x 15m	3	20.25
CPB14-75	14	75	610mm x 15m	2	18.30
			450mm x 15m	3	20.25
CPB14-90	14	90	610mm x 12m	2	14.64
			450mm x 12m	3	16.20

High Performance Infill (HPI)

GreenStuf® High Performance Infill 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. HPI should be used where optimal acoustic performance is required. Manufactured from 100% polyester HPI is completely safe for installer and building occupiers and has no known health hazards.

PRODUCT	THICKNESS	DIMENSIONS	ROLLS PER PACK	M2 PER PACK
HPI60	60	610mm x 8.2m	2	10.00
		450mm x 8.2m	3	11.07
HPI90	90	610mm x 8.2m	2	10.00
		450mm x 8.2m	3	11.07
HPI165	165	610mm x 6.0m	2	7.32
		450mm x 6.0m	3	8.10

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 effect the

products 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. 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® RT blanket 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 Representative.

Acoustic Performance

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

The acoustic performance stated in this document are based on testing, prediction & 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 clients expectations are satisfied. For assistance on your project please contact your local Autex Account Manager.

Environmental Design

The Green Building Council of Australia (GBCA) has developed assessment tools to determine an overall Green Star rating. The use of Autex GreenStuf® can contribute to points available in the various tools as set out in the table below.

GREENSTAR TOOL	CATEGORIES							
	Management (Man)	Materials (Mat)			Indoor Environment Quality (IEQ)		Emissions (Emi)	
Education v1	Waste Management	Mat-3	-	-	Internal noise	-	Insulant ODP	-
Healthcare v1		-	-	Mat 14	-	VOC	Insulant ODP	-
Industrial v1		-	-	-	Internal noise	-	Insulant ODP	Noise Pollution
Multi Unit Residential v1		Mat-3	-	Mat 14	Internal Noise	-	Insulant ODP	-
Office Design and as built v3		-	Mat4	-	Internal Noise	-	Insulant ODP	-
Office Interiors v1.1		Mat3	-	-	-	-	-	-
Retail Centre v1		-	-	-	-	-	Insulant ODP	-

Management. (Man)

Waste management:

Autex can arrange the take back of uncontaminated GreenStuf® Insulation for re-processing, helping keep it out of landfill. Please contact your Autex Account Manager for further details.

Materials (Mat)

Green Star Materials credits aim to improve the environmental impacts of building products and materials. GreenStuf® will assist in achieving the available credits in the applicable calculators. GreenStuf® has a 50+ year durability warranty, high recycled content and manufactured to independently certified EMS protocols.

Indoor Environment Quality (IEQ)

Internal Noise and VOC:

The use on GreenStuf® products will by their nature contribute to the reduction of internal noise levels when used as part of the design for internal acoustic performance of the space. Autex GreenStuf® has been independently tested and is well below the allowable limits for VOC concentrations and considered to be formaldehyde free.

Emissions (Emi)

Ozone depleting substances (ODP) and Noise pollution:

Encourages the reduction of emissions via material selection and the in use application of the development. Autex GreenStuf® does not contain or produce ozone depleting substances. The use on GreenStuf® Partition Blankets can contribute to the reduction of noise omissions from the development when used as part of the design for acoustic control.

GreenStuf® is manufactured in Australia by Autex Pty Ltd. 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.

AUTEX



Autex Pty Ltd - Melbourne
166 Barnfield 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 Pty Ltd - Perth
195 Bank St,
East Victoria Park,
Perth, WA 6101
Australia
Phone +61 8 9355 1911
Fax +61 8 9355 1032

www.autex.com.au

Autex 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 Pty Ltd - Queensland
7-11 Lancashire Street,
Acacia Ridge,
QLD 4110,
Australia
Phone +61 7 3712 4400
Fax +61 7 3712 4466

www.autex.com.au