

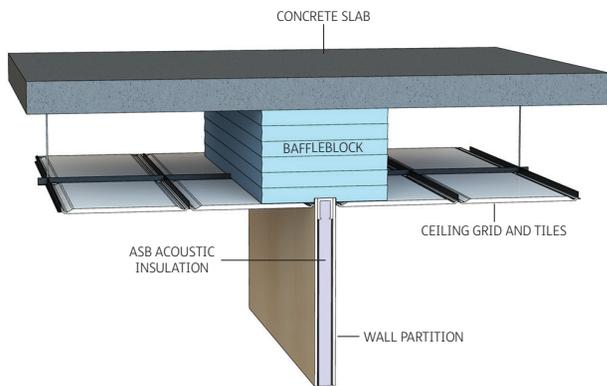


## Baffleblock®

GreenStuf® BAFFLEBLOCK® is a 100% polyester acoustic insulation product designed to be layer stacked above partition walls to reduce sound transmission through the ceiling plenum space and is supplied as rolls pre-cut to 600mm wide.

### Applications

GreenStuf® BAFFLEBLOCK® is designed for use above new or existing STC rated partition walls to enhance the acoustic privacy between spaces.



**Application Considerations:** BAFFLEBLOCK® must be installed with at least enough compression to ensure stack stability and a tight fit to all surfaces including concrete slab, ceiling or the floor above. No gaps to be allowed through the stack. BAFFLEBLOCK® can be installed to a height of 1m without specialist design considerations. Above this height consideration must be given to the stack stability and weight loading restrictions on the ceiling tiles and grid system. Other options are available for plenum heights above 1m.

Where the ceiling plenum is used as an active return for the air conditioning system, ensure airflow is not significantly reduced. Autex recommends you consult the Mechanical Services Engineer to ensure the use of BAFFLEBLOCK® will not result in a loss of effective air movement.

Existing services, ducting, ceiling grid supports and fire control and detection devices must not be affected by the installation. BAFFLEBLOCK® should not be used where temperatures exceed 160°C. Where flues or similar heat emitting items pass through the insulation, a 200mm venting gap should be left between that item and the insulation. For more information please discuss your requirements with your Autex Representative.



### Technical

**NZBC Compliance:** GreenStuf® insulation when installed in accordance with the manufacturer's instructions will satisfy the 50 year durability clause NZBC B2.3.1 (a). GreenStuf® meets the relevant clauses of NZBC E3 Internal Moisture, F2 Hazardous Building Materials.

**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/m<sup>3</sup> (7 days).

GECA/GreenGuard Limit: 0.25 mg/m<sup>3</sup> (7 days).

*Cetec Pty Ltd (Report:RCV080408)*

**Non-Flammable:** GreenStuf® is non-flammable.

**Fire ratings:**

ISO 9705: 1993

Classification: Group 1-S

Smoke Production Rate: <5.0m<sup>2</sup>/s

As required by NZBC C/VM2

*Issued 11th March 2013, BRANZ (FAR 4045)*

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 98055*

PRODUCT	NOMINAL THICKNESS (mm)	PACK SIZE	m <sup>2</sup> /PACK
BAFFLEBLOCK®	100mm	600mm wide x 8.33Lm x 2 rolls	10m <sup>2</sup>

**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

**Installation:** GreenStuf® BAFFLEBLOCK® should be installed as a layer stack above STC rated partition walls. BAFFLEBLOCK® must be installed with enough compression to ensure stack stability and a tight fit to all surfaces including slab, roof or floor above. No gaps to be allowed through the stack and small pieces should be used to fill around ducting, services and structural components. Consult with the HVAC Installer/Engineer prior to commencing to ensure no loss of effective air movement to the active return of the air conditioning system.

Additional information and advice is available from your Autex Representative or by phoning Autex Customer Services freephone 0800 428 839.

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

**Specification & Substitution:** Autex specification documents are available through Masterspec® or can be downloaded from our website ([www.autex.co.nz](http://www.autex.co.nz)).

The performance and design of BAFFLEBLOCK® 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 landfill. For more information on recycling GreenStuf® contact Autex on freephone 0800 428 839.

**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:** 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.

**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

FREQUENCY (Hz)	ACOUSTIC PERFORMANCE*		
	Installed Product Density: 11 kg/m <sup>3</sup> Stack Compression: 10%	Installed Product Density: 15 kg/m <sup>3</sup> Stack Compression: 33%	Installed Product Density: 16 kg/m <sup>3</sup> Stack Compression: 40%
63	5.22	5.76	6.73
125	7.75	8.38	9.34
250	7.27	8.24	9.01
500	13.15	14.35	15.64
1000	15.25	17.01	18.42
2000	16.56	18.71	20.17
4000	19.53	22.56	24.21
8000	18.30	20.54	21.78
<b>Insertion loss (dBA)</b>	<b>12.9</b>	<b>14.1</b>	<b>15.2</b>

\*Tested through the 600 mm section of the material

Density expressed as Kg/m<sup>3</sup> is a calculation of Product Weight (gsm) divided by Nominal Thickness. BAFFLEBLOCK® has a non-compressed thickness of 100mm and a nominal net weight of 1,000gsm. So standard product density (un-compressed) is 10Kg/m<sup>3</sup>.

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



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