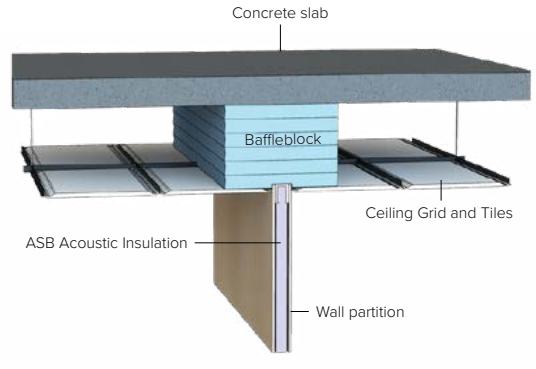
SOUND SOLUTION® BAFFLEBLOCK®

GreenStuf® Baffleblock® is a 100% polyester acoustic insulation 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 Sound Transmission Class (STC) rated partition walls to enhance the acoustic privacy between spaces.

To ensure New Zealand Building Code (NZBC) compliance, architects and building designers are advised to consult an engineer or the relevant NZ standards before specifying acoustic insulation products. For information and assistance please contact your Autex account manager.



Application Considerations: GreenStuf 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. GreenStuf 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 GreenStuf 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. GreenStuf 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 account manager.

TECHNICAL

NZBC Compliance: When installed in accordance with the manufacturer's instructions, GreenStuf Insulation 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.

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

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^3 (7 days).
GECA/GreenGuard Limit: 0.25 mg/m^3 (7 days).

Cetec Pty Ltd (Report: RCV080408)

NAME	THICKNESS	PACK SIZE	WEIGHT	DENSITY	M2/PACK
Baffleblock	100mm	600mm W x 8.33Lm x 2 rolls	1000gsm	10kg/m^3	10m^2

Fire ratings:
ISO 9705: 1993
Classification: Group 1-S
Smoke Production Rate: <5.0m²/s
As required by NZBC C/VM2
FAR 4045-2 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) 3
APL Report 98055 (Test conducted on GreenStuf Thermal Insulation)

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

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.

Installation: GreenStuf Baffleblock should be installed as a layer stack above STC rated partition walls.

GreenStuf 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 are available from your Autex account manager or by phoning Autex customer services freephone 0800 428 839.

MSDS: Material Safety Data Sheets (MSDS) are available on request from your Autex account manager or can be downloaded from our website greenstuf.co.nz

Specification & Substitution: Autex specification documents are available through Masterspec or can be downloaded from our website greenstuf.co.nz

The performance and design of GreenStuf 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.

ISO Standards: GreenStuf is committed to Occupational Health and Safety, Quality and Environmental best practice through our ISO 45001, ISO 9001 and ISO 14001 certified management systems.

Takeback Programme: GreenStuf is recyclable. We will gladly recycle used polyester insulation site waste, including offcuts and packaging, to help keep it out of landfills. Please ensure used polyester insulation and offcuts are in a general state of cleanliness in line with standard site conditions. Excessive contamination, such as metal and cement, will not be accepted. Please contact your account manager to request a Material Diversion Certificate prior to dropping insulation off. For more information on recycling GreenStuf, contact us on 0800 428 839.

Packaging Recycling: GreenStuf packaging is recyclable LDPE 4. Please refer to your local recycling centres for drop off and collection services.

Environmental: GreenStuf Baffleblock is manufactured using 100% polyester fibre and contains a minimum of 92% previously recycled fibre content (from PET plastic). Greenstuf views waste as a resource with potential, not something to be disposed of. With this in mind, all product trimmings and offcuts are reused, and waste material goes back through production to make more GreenStuf.

GreenStuf products are Global GreenTag GreenRate Level A certified and can be used to contribute to Green Star and Homestar accreditation.

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 greenstuf.co.nz

INSERTION LOSS AT DIFFERENT COMPRESSION RATES

FREQUENCY	ACOUSTIC PERFORMANCE*		
	INSTALLED PRODUCT DENSITY: 11 KG/M^3 STACK COMPRESSION: 10%	INSTALLED PRODUCT DENSITY: 15 KG/M^3 STACK COMPRESSION: 33%	INSTALLED PRODUCT DENSITY: 16 KG/M^3 STACK COMPRESSION: 40%
63Hz	5.22dBA	5.76dBA	6.73dBA
125Hz	7.75dBA	8.38dBA	9.34dBA
250Hz	7.27dBA	8.24dBA	9.01dBA
500Hz	13.15dBA	14.35dBA	15.64dBA
1000Hz	15.25dBA	17.01dBA	18.42dBA
2000Hz	16.56dBA	18.71dBA	20.17dBA
4000Hz	19.53dBA	22.56dBA	24.21dBA
8000Hz	18.30dBA	20.54dBA	21.78dBA
Insertion loss	**12.9dBA**	**14.1dBA**	**15.2dBA**

**Tested through the 600mm section of the material. Density expressed as kg/m^3 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. Standard product density (un-compressed) is 10kg/m^3.*

GreenStuf®

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