

ACOUSTIC ABSORPTION BLANKET (AAB)[™]

INSTALL INSTRUCTIONS

GreenStuf[®] Acoustic Absorption Blanket (AAB[™]) is a range of 100% polyester acoustic insulation products designed for reducing and controlling reverberated noise in building interiors. GreenStuf AAB is ideally suited for use as an absorber in ceiling systems. GreenStuf AAB can also be used as an acoustic infill.

These install instructions are of a general nature and are designed to assist suitably experienced tradespeople in the installation of GreenStuf AAB to a high standard in typical use situations. For further installation support, please contact your account manager before you start.

TECHNICAL

Manufacturer's Documents: GreenStuf recommends that all persons engaged in installing GreenStuf AAB have full knowledge of the product and installation procedures as set out in the most recent edition of the manufacturer's instructions and related documents. GreenStuf documents relating to work in this section are:

- GreenStuf AAB Datasheet
- GreenStuf Manufacturer's Guarantee
- GreenStuf AAB Install Instructions
- Insulating Safely around Downlights Factsheet

Copies of the above documents are available on request or from the GreenStuf website.

Transportation, Storage and Handling: GreenStuf AAB must be handled with care. Transport and store GreenStuf AAB on a flat, clean and dry surface. Avoid abrasion, delamination or distortion and protect edges from being crushed. Avoid harsh rubbing, bending panels, and dropping panels on their corners as this can cause damage to the panel. The work area should be clean, tidy, and free from dirt and contaminants that could soil the panels.

Do not accept damaged product. If product or packaging arrives damaged ensure you note the condition on the freight documents and contact GreenStuf immediately. Goods signed as received in 'good condition' will not be the responsibility of GreenStuf. Greenstuf should be removed from compressed packaging within 6 months of manufacturing.

Inspection: Before starting the installation, check again that the materials have been supplied as ordered and are free from damage or faults. Check that all product is supplied from one batch. Due to batch to batch variation, we do not recommend joining different batch lots as this could result in colour variation. The batch number can be found on the product label sticker attached to each pack.

Any variations must be reported to GreenStuf prior to commencing the installation. No claims will be accepted where the job continues with obvious faults, and no consultation with GreenStuf has taken place. If you cut or install the product, you have accepted the quality.

Safety Instructions: GreenStuf 100% polyester insulation is completely safe and user-friendly; therefore, no protective clothing or specialist equipment is required to handle this product.

GreenStuf is a non-irritant, non-toxic, and non-allergenic insulation. This ensures no skin, throat or lung irritation during or post-installation.

GreenStuf Material Safety Data Sheet (MSDS) contains further safety information on the handling of GreenStuf insulation. A copy of the MSDS is available on request from your account manager.



CAUTION: Electric cables and equipment partially or fully surrounded with any bulk thermal insulation may overheat and fail. Care must be taken to ensure this risk is avoided. Guidance is set out in AS/NZS 3000. Wiring Rules. Ensure you understand your responsibility before you begin the installation.

Lights and Electrical Appliances: Regardless of the type of insulation being used, there can be significant fire risk associated with some lighting and appliances, especially halogen type bulbs as these can produce very high temperatures and may require clear ventilation space to operate safely. Careful selection, as well as correct installation of the light fitting/appliance and any surrounding



insulation, is critical. Minimum clearances to all bulk insulation may be required for selected lighting or appliance/s. This must be checked with the lighting/appliance manufacturer prior to installation. Any appliance, including recessed type lights and transformers, should not be covered or surrounded with insulation unless allowed by the appliance manufacturer. If in doubt, leave a clear 100 mm space between the fitting/appliance and the edge of the insulation. Refer to a registered electrician for further guidance.

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

For more information, please refer to our Insulating Safely around Downlights Factsheet.

Clearances: Cut GreenStuf AAB to fit neatly around fire collars, pipes and penetrations. Do not cover the face of fire collars as these must be exposed to activate in a fire situation.

Leave specified and required clearances to light fittings, ancillary equipment and electrical accessories.

Product Format: GreenStuf AAB is supplied as standard 1200 mm (+20/-0 mm) x 2400 mm (+100/-0 mm) sheets in white or black colour. Custom sizes and colours may be available on request but are subject to minimum order quantities.

GreenStuf AAB is non-woven, so some colour blending variation is typical batch to batch and throughout each production lot. This is an inherent feature of the product and not considered a manufacturing fault.

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 account manager.

Insulation Fasteners: GreenStuf AAB can be installed using mechanical fixings. These can be either shot fired insulation anchors (such as Hilti) or the insulation pin style of insulation anchor with a one way washer or dome. The fastener length must be equal to the thickness of the GreenStuf AAB insulation panels to avoid compression and pillowing of the insulation sheet.

Use fixings in accordance with the manufacturer's technical information and instructions.

Insulation Anchor Penetrations: When using shot fired insulation anchors, we recommend that penetrations are created for each insulation anchor point prior to the installation of each sheet. This will help ensure good take of the anchor in the substrate and a tight and neat install of the GreenStuf AAB sheet.

Penetrations for the insulation anchors and fixings can be formed using a hot-knife, insulation knife or a pointed chisel type drill bit. When using a battery/power drill, ensure the drill clutch is engaged to minimise the risk of twist-up should the bit bind in the fibres. Bring the drill to full speed before starting the penetration and use light pressure throughout the cut.

Adhesives: GreenStuf AAB can be direct fixed using adhesives. GreenStuf recommends a contact-type adhesive or full curing panel adhesive for applying GreenStuf AAB to most common substrates. Prior to commencing work, we recommend contacting your adhesive supplier with samples of the GreenStuf products you are installing and the specification of the substrates you are installing to.

It is the installer's responsibility to ensure that any adhesive is fit for the intended purpose. It also is the installer's responsibility to ensure that the substrate is fit for the application of adhesives and GreenStuf product. For information regarding adhesive suppliers, please contact your account manager.

Installation Tools: A typical installation will require:

- Appropriate access equipment to ensure safe working conditions are maintained
- Measuring and marking out tools
- Insulation fastening system (i.e. insulation anchors and associated equipment)
- Pointed SDS chisel bit and battery drill, or appropriate hot-knife to create insulation anchor penetrations
- Cutting board, straight edge and insulation knife/saw/cutter to assist in trimming GreenStuf AAB sheets
- Knife and/or scissors for cutting and fitting foil tape (if required)



Cutting GreenStuf[®] AAB: Mechanical cutters such as a straight knife cutting machine are ideal for cutting and trimming GreenStuf AAB. Insulation knives and insulation saws can also be used to trim panels to size.

Heavy-duty snap-off blade knives are useful for cutting holes for services. All cutting tools must be sharp to help ensure an easy, neat and tidy cut.

Always cut slightly oversize to ensure a tight friction fit.

Caution should be taken with all cutting tools and equipment. Follow the manufacturer's use and safety instructions, as well as site and individual safe working practices and requirements.

Installation: GreenStuf AAB should always be installed in accordance with these installation instructions and as per the specification detail and customer requirements. If there is conflicting information, you must seek clarification from all appropriate parties before proceeding with the work.

It is important that the installation is planned before cutting and installing any product.

GreenStuf AAB sheets are supplied as standard 1200 mm (+20/-0 mm) x 2400 mm (+100/-0 mm). We recommend all panels are checked prior to installation. We recommend you "measure twice and cut once".

Prior to installation, verify that the weight of the GreenStuf AAB to be installed does not exceed the maximum allowable loading of the substrate or ceiling system that the insulation will be fixed to or laid over.

Acoustic Absorber: GreenStuf AAB should ideally be installed with the textured or patterned surface exposed to the room or space.

GreenStuf AAB can be fixed with insulation type fasteners. Fixings should be set out at no more than 600 mm centres. Each fixing should be a minimum 100 mm and a maximum of 200 mm from the edge of each panel.

The fastener length must be equal to the total thickness of the GreenStuf AAB insulation panels to avoid compression and pillowing of the insulation sheet. We recommend 11 fixings per standard panel (Fig. 1).

Fixing layout may vary depending on substrate. When fixing GreenStuf AAB to the underside of corrugated/profiled steel floor composite systems, fixings must be installed securely against the trough of the corrugation.

For installation speed and efficiency, we recommend that the panels are installed in staggered formation (Fig. 2).

Checks should be made as the install progresses and panels are trimmed to ensure a square tidy finish is maintained.

GreenStuf AAB should be installed touching the slab/substrate, but not compressed. Any uncontrolled airspace between the

thermal and acoustic performance. The soft nature of GreenStuf AAB will allow some compression and 'give' when butt joining or finishing to adjoining surfaces. However, GreenStuf AAB should be installed without visible folds and compression lines in the finish.

GreenStuf AAB should be installed with all panels joining 'width to width' and 'length to length' to avoid colour variation in the install.

Prepare the first sheet for installation by creating penetrations for the insulation anchors, taking account of fixing locations in the substrate. Install the GreenStuf AAB panel by fixing from one corner then across the width of the panel, and then down the length of the panel to ensure tight flat install. Prepare and install successive panels with tight neat joins to adjoining panels and surfaces until the install is complete.

Insulate all areas of the slab/substrate (as detailed on the plans and project specifications) leaving no gaps.

When installed behind perforated or slotted panels, ensure GreenStuf AAB lays flat and all perforations or open areas are covered.

Metal Roof: Where GreenStuf is to be installed beneath a roof, it is essential that a minimum 25 mm air gap is maintained between the roofing underlay and the GreenStuf AAB.

Infill Insulation: GreenStuf AAB can be used as an infill in both metal and timber-framed partitions. GreenStuf AAB should be installed with no gaps. Where required, drops should be mechanically fixed at the top to secure in place until the substrate linings are installed. Low density roll options of GreenStuf AAB can be torn by hand across the width of the rolls to achieve the desired length.

Completion: Leave work secure, smooth and free of wrinkles, gaps, stains and blemishes and to the standard required by following procedures.

Remove waste and recycle wherever possible. Leave site clean and tidy.

Service: For more information and installation support, please contact your account manager.

Other Trades: Prior to installation, consultation with other trades such as HVAC, plumbing and electrical should be made to ensure an order of works that best suits the site is established.

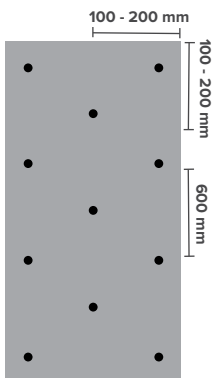


Fig. 1

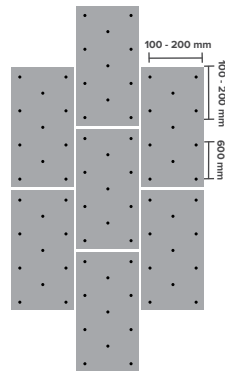


Fig. 2

GreenStuf AAB and the slab/substrate may affect the installed thermal and acoustic performance. GreenStuf AAB should be installed tight to adjoining sheets and surfaces to ensure no gaps. Do not compress the insulation as this will affect the



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