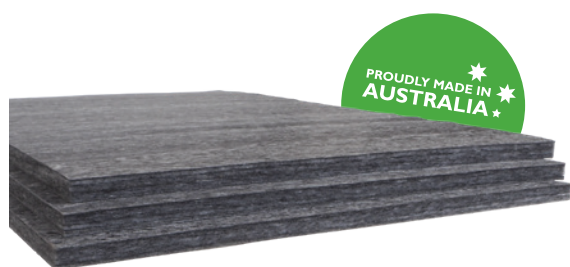


GreenStuf®

ASL- SOFFIT & SLAB LINER



Installation Instructions

GreenStuf® ASL Soffit & Slab Liner is engineered to improve the thermal performance and energy efficiency of the building envelope, and assist in the control of reverberated noise. GreenStuf ASL is intended to be direct-fix installed to concrete and masonry soffit and ceiling constructions.

These installation instructions are of a general nature and designed to assist suitably experienced tradesmen install GreenStuf ASL to a high standard in typical use situations. For further installation support, please contact your Autex Account Manager before you start.

Manufacturer's Documents

Autex recommends that all persons engaged in installing ASL 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. Autex Documents relating to work in this section are:

- Autex GreenStuf ASL Datasheet
- Autex GreenStuf ASL Brochure
- Autex GreenStuf Manufacturers Guarantee
- Insulation and Downlights Facts Sheet
- Autex GreenStuf ASL Install Instructions

Copies of the above literature are available on request or from the Autex website.

AS/NZS 4859.1 Labelling Compliance

GreenStuf ASL is supplied to market compliant with AS/NZS 4859.1 labelling requirements.

The initial performance of this product may be reduced if it is stored for too long in its compressed packaging. Should this product be found to be compressed at installation, it will recover to its nominal thickness and R-Value within 72 Hours following installation.

The total R-Value of the building system depends on the building materials, design and installation and may be less than, greater than, or equal to the R-Value of this product.

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.

Transportation, Storage & Handling

GreenStuf ASL must be transported, stored and handled with care. Avoid abrasion, delamination or distortion and protect edges from being crushed. Do not accept damaged product. If product or packaging arrives damaged ensure you note the condition on the freight documents and contact Autex immediately. Goods signed as receipted in 'good condition' will not be the responsibility of Autex.

Always transport and store ASL on a flat, clean and dry surface. GreenStuf ASL can be damaged if not handled with care. Avoid harsh rubbing and bending panels, and do not store or drop panels on their corners as this can cause damage to the panel. The work area should be clean and tidy and free from dirt and contaminants that could soil the panels.

Safety Instructions

GreenStuf 100% polyester insulation is completely safe and user friendly; therefore, no protective clothing or specialist equipment is required to handle or install 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.

CAUTION: Electric cables and equipment partially or completely 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 3000:2007 Wiring Rules. Ensure you understand your responsibility before you begin the installation.

Lights and Electrical Appliances

Regardless of the type of thermal 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 manufacturer. If in doubt, leave a clear 50mm space between the fitting/appliance and the edge of the insulation. Refer to a registered electrician for further guidance.

GreenStuf is classified non-flammable/non-combustible in accordance with the requirements of AS/NZS 60598 and IEC 60695 for abutting and covering downlights. For more information please refer to our Insulation and Downlights Facts Sheet available on our website or from your Autex Account Manager.

Format and Finish

GreenStuf ASL is supplied as standard 1200 x 2400mm (+/- 10mm) sheets, however custom sizes are available on request, and with minimum order quantities. Manufactured from 100% polyester fibres, GreenStuf ASL inherits a natural textured appearance on one face of the product. It is suggested that this textured surface is the exposed face to the completed install.



ASL is non-woven and 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.

GreenStuf ASL can also be factory laminated with a fire compliant E-Foil facing. Where E-foil finishes are preferred please contact your Autex Account Manager to discuss your specific needs.

Insulation Fasteners

GreenStuf ASL is intended to be installed using mechanical fixings. The fastener length must be equal to the thickness of the ASL insulation panels to avoid compression and pillowing of the insulation sheet.

We recommend the Hilti X-IE range, or similar. Refer and use fixings in accordance with the manufacturers technical information and instructions.

Adhesives

Where required, Autex recommends a contact-type adhesive for adhering ASL to most common substrates. It is the installers responsibility to ensure that any adhesives used are fit for intended purpose. It also is the installer's responsibility to ensure that the substrate is fit for the application of adhesives and GreenStuf ASL. If using adhesives to support the install of ASL we recommend you consult with your specialist adhesive supplier.

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 (ie. 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 ASL sheets
- Knife and/or scissors for cutting and fitting foil tape (if required)

Insulation Anchor Penetrations

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 ASL sheet.

Penetrations for the insulation anchors and fixings can be formed using a hot-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.



Cutting ASL

Mechanical cutters such as a straight knife cutting machine is ideal for cutting and trimming GreenStuf® ASL. Serrated Swibo type 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 manufacturers use and safety instructions, as well as site and individual safe working practices and requirements.



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 variations, we do not recommend joining different batch lots as this could result in colour variation.

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

Clearances

Cut ASL to fit neatly around fire collars, pipes and penetrations. Do not cover the face of fire collars as this must be exposed to activate in a fire situation.

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

Installation

GreenStuf ASL 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 ASL sheets are supplied as standard 2400mm x 1200mm (+/-10mm). We recommend all panels are checked prior to installation. We recommend you “measure twice and cut once”



ASL is generally fixed with insulation type fasteners. Fixings should be set out not more than 600mm centres and minimum 100mm and maximum of 200mm from the edge of each panel.

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

For installation speed and efficiency, we recommend that the panels are installed in staggered formation (Fig.2). A squared install is possible with proper planning and consideration of variations in the substrate and product that could lead to the misalignment of joins. Checks should be made as the install progresses and panels trimmed to ensure a square tidy finish is maintained.

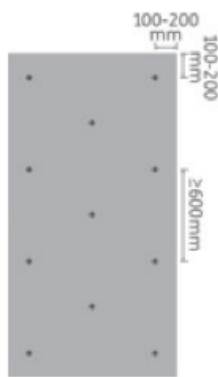


Fig 1

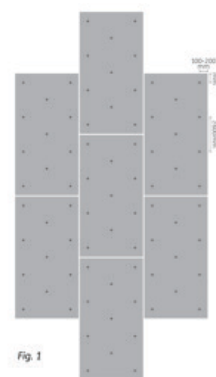


Fig 2

GreenStuf ASL should be installed touching the slab/substrate, but not compressed. Any uncontrolled airspace between the ASL and the slab/substrate may affect the installed thermal performance.

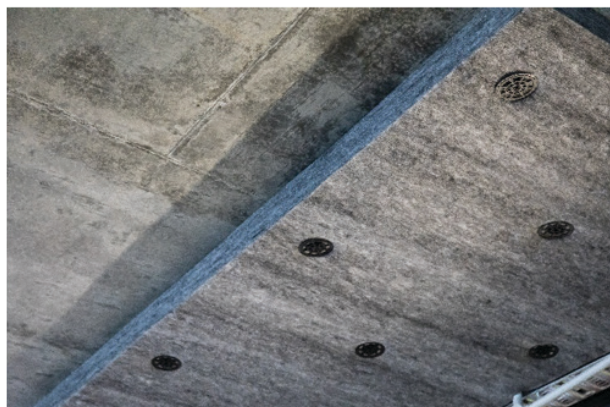
GreenStuf ASL should be installed tight to adjoining sheets and surfaces to ensure no gaps. Do not compress the insulation as this will affect the thermal performance. The soft nature of GreenStuf ASL will allow some compression and ‘give’ when butt joining or finishing to adjoining surfaces, but ASL should be installed without visible folds and compression lines in the finish.

ASL 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 ASL 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 (as detailed on the plans and project specifications) leaving no gaps.





E-Foil – Tape Joins

If ASL with E-Foil face is required to provide a moisture barrier, all joins and edges must be sealed with foil tape.

Use minimum 50mm wide foil tape, or as specified or required to ensure adequate joining of ASL panels and bond to surfaces.

Refer tape manufacturer's instructions regarding climatic conditions and suitability of use.

Ensure surfaces are free of dust, dirt and oils.

Tape should be applied over the centre of the join and pressed firmly to the ASL E-Foil facing, with care taken not to stretch the tape as this can create buckles and voids in the contact area. Tape should be wiped firmly to ensure adequate adhesion to all surfaces. Cut and fit tape with a knife or scissors as required.

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 Autex Account Manager.

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