ASL is an acoustic and thermal lining for soffit, slab and ceiling applications. ASL is designed to be installed to the underside of masonry and metal pan floors and ceilings. These install instructions are of a general nature and designed to assist suitably experienced tradespeople in the installation of ASL to a high standard in typical use situations. For further installation support, please contact your specification manager before you start.

Manufacturer's documents

Autex Acoustics 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. Documents relating to work in this section are:

- ASL Data Sheet
- Manufacturer's Guarantee
- Insulation and Downlights Facts Sheet
- ASL Install Instructions

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

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 and handling

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 Acoustics immediately. Goods signed as received in 'good condition' will not be the responsibility of Autex Acoustics.

Always transport and store ASL on a flat, clean, and dry surface. 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, tidy, and free from dirt and contaminants that could soil the panels.

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

Safety instructions

ASL is manufactured from 100% polyester fibre and is completely safe and user-friendly. Therefore, no protective clothing or specialist equipment is required to handle or install this product.

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

Site conditions, and some tools needed for working with ASL, may require the use of appropriate safety equipment. The safety equipment must be specific to the hazards of the installation, its location, and the use of installation equipment.

CAUTION: Electrical cables and equipment partially or completely surrounded by any acoustic or thermal insulation may overheat and fail. Care must be taken to ensure this risk is avoided. Guidance is set out in AS/NZS 3000:2018 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 for all bulk insulation may be required for particular

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, keep a 50 mm clearance around electrical appliances and LED, fluorescent, or incandescent lamp fittings, and a 200 mm clearance around halogen lamp fittings. Refer to a registered electrician for further guidance.

Format and finish

ASL is supplied as standard 1200 x 2400 mm (+/- 10 mm) sheets. Custom sizes are available on request, with minimum order quantities. Manufactured from 100% polyester fibre, 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 thermally bonded, 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.

ASL can also be factory laminated with a compliant e-foil facing. Where e-foil finishes are preferred, please contact your specification manager to discuss your specific needs.

Insulation fasteners

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.

The mechanical fixings can be either shot fired insulation anchors, such as Hilti, or the insulation pin style of an insulation anchor with a one way washer or dome. Use fixings in accordance with the manufacturer's technical information and instructions.

Adhesives

ASL can be fixed with adhesives. Where this option is required, please contact your specification manager to discuss the most suitable options. It is the installer's responsibility to ensure that any adhesives used are fit for intended purpose. It is also the installer's

responsibility to ensure that the substrate is fit for the application of adhesives and 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, are ideal for cutting and trimming ASL. Serrated Swibo type knives and insulation saws can also be used to trim sheets 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 manufacturer's use and safety instructions, as well as site and individual safe working practices and requirements.

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 for activation in a fire situation.

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

Installation

ASL should always be installed in accordance with these install 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.

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

ASL should always be installed in accordance with these install 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.

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

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.

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 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.
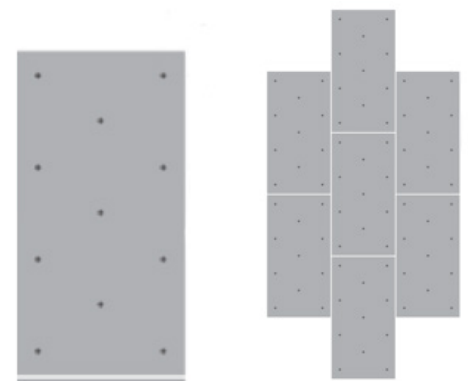

Fig 1   Fig 2

ASL should be installed with all panels joining 'width to width' and 'length to length' to avoid colour variation.

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

Refer to 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, 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 specification manager.

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