

TRIM-KLIP™ & AMPELITE®

TRIM-KLIP™ END/EXPANSION JOINT SYSTEM
AMPELITE 5 RIB INSTALLATION GUIDELINES.

LYSAGHT



Installation of Ampelite® 5 RIB (760 cover) translucent sheeting on TRIMDEK® with TRIM-KLIP™ end joints

The new LYSAGHT TRIM-KLIP™ system provides installers with a quick and easy end joint/expansion joint solution between overlapping sheets of LYSAGHT TRIMDEK® with no special purlin detailing required.

The TRIM-KLIP system comprises a fully engineered ZINCALUME® steel bracket and a custom profiled weather resistant closed cell polyethylene foam strip.

The TRIM-KLIP bracket replicates the role of a step/expansion joint and is secured to the supports through the ribs of the bottom sheet using standard roofing fasteners. The bracket is designed to hold the top sheet firmly against the profiled foam strips thereby creating a weather resistant joint, all while maintaining LYSAGHT TRIMDEK roofing's ability to accommodate normal thermal expansion and contraction. The standard Ampelite installation process is retained.



Figure 1: Finished installation of Ampelite at TRIM-KLIP joint

The following guidelines detail how Ampelite 5 RIB can be installed over the TRIM-KLIP™ joint while maintaining a weather resistant roof area.

These guidelines are based on progressively laying the lower TRIMDEK sheets and Ampelite sheets prior to installing the upper sheets. However alternative laying processes may be used to suit the installer's requirements. An alternative laying process may involve laying all the steel sheets, both lower and upper, prior to installing the Ampelite sheets. Alternative installation processes may require temporary fixing of some TRIMDEK sheets to allow later installation of TRIM-KLIP brackets and weather strips with the Ampelite sheets.

When laying TRIMDEK sheets without the TRIM-KLIP joint, install the Ampelite 5 RIB according to the manufacturer's installation instructions which are available at www.ampelite.com.

Roof design considerations

Where translucent sheet is used then:

- Any end laps of translucent sheet must be located at least two purlins away from this TRIM-KLIP joint
- The translucent sheet is installed for a full run between ridge and TRIM-KLIP joint, between TRIM-KLIP joints, or TRIM-KLIP joint and eaves, or any multiple/sequence of runs
- Where the translucent is short of eaves or short of a TRIM-KLIP joint, added support details will need to be provided for the translucent sheeting.
- The end spans of the translucent sheeting at the joint must be kept within the manufacturer's limits.

Installation guidelines

1. Using standard TRIMDEK installation and TRIM-KLIP installation guides begin laying and fixing the required number of TRIMDEK lower sheets up to the first row of Ampelite 5 RIB translucent sheet that is to be installed.
2. Using a template (such as a length of Ampelite translucent sheeting) to locate and position the next TRIMDEK sheet and thus providing a space for later installation of the translucent sheet. Continue laying and fixing the following TRIMDEK sheets until the number of sheets required is reached. Use the template where necessary to space the TRIMDEK sheets.
3. Place the lower translucent sheets at the required location, as provided by the template, with side ribs overlapping the TRIMDEK side-lap ribs. Fix the translucent sheet according to the Ampelite 5 RIB manufacturer's installation instructions at the supports other than at the TRIM-KLIP joint using the recommended fasteners. Ensure the screws and enlarged washers are installed as per manufacturer's recommendations.



Figure 2: TRIMDEK and Ampelite 5-Rib lapping

4. At the TRIM-KLIP joint, mark the position of the bracket atop of the ribs and ensure the positions are aligned. Pre-drill an enlarged hole of suitable size through the rib crests of the translucent sheets. Position two rows of TRIM-KLIP weather strips and position and fix the TRIM-KLIP brackets, all as described in the TRIM-KLIP installation guide, ensuring the fastener is located central to the pre-drilled hole. The weather strips must extend into and seal a full width of the TRIMDEK pan on both sides of the translucent sheet.



Figure 3: Pre-drill hole at lower translucent sheet at TRIM-KLIP joint.

Installation Guidelines (continued)



Figure 4: Lower translucent sheet fixed with TRIM-KLIP brackets and weather strip.

5. At the upper edge of the lower translucent sheet some method of drip protection may be required providing added protection in high wind situations. A traditional flashing edge or a foam strip of suitable specifications may be installed.
6. Begin laying and fixing the required number of TRIMDEK upper sheets in a similar manner as described above and using a template to provide spaces for translucent sheets. Fix the TRIMDEK sheets to the TRIM-KLIP brackets other than at the side lap ribs where the translucent sheeting is to be positioned. Installation and fixing of TRIMDEK to the TRIM-KLIP brackets will be described in the TRIM-KLIP installation guide.
7. A packer will be required on the lowest purlin of the upper sheet for roofs to achieve a more gradual change in the roof slope. This is of particular importance on shallow roof slopes (generally less than 3°). The packer (at least 10mm thickness, greater if packers are also placed under steel roofing) is positioned on the lowest purlin of the upper sheet prior to positioning of the upper sheets. Longer screws may be required where a packer is used. The packer must extend at least 200mm past the edges of the translucent sheet and thus sit under the adjacent pans of the TRIMDEK.



Figure 5: Upper translucent sheet with packer at support.

8. Place the upper translucent sheets at the required space location, as provided by template, with side ribs overlapping the TRIMDEK side-lap ribs and align the ends of the sheet to the correct overhang. Ensure that the weather strips are not dislodged during this placement. Fix the translucent sheet according to the Ampelite 5 RIB manufacturer's installation instructions at the supports other than at the TRIM-KLIP joint.

9. At the TRIM-KLIP brackets pre-drill enlarged holes of suitable size (2 per TRIM-KLIP) through the rib crest at the side-lap of the translucent sheets (Figure 6). Only the side-lap ribs need to be pre-drilled, however pre-drilling of the inner ribs of the translucent sheet may also be conducted. Fix the translucent sheet to the TRIM-KLIP brackets with two fasteners per TRIM-KLIP (Figure 7). Fasteners to be M6x25 Hex Head Roof Zips (without sealing washer) and including a 32mm DEKS Fibreglass Washer (Weatherlok style). Ensure the screws and enlarged washers are installed as per manufacturer's recommendations.



Figure 6: Pre-drill holes of upper translucent sheet at TRIM-KLIP bracket.



Figure 7: Upper translucent sheet fixed to TRIM-KLIP brackets

10. Continue the above process to the finishing edge/end of the roof.

Progressively clean up all residue and swarf, and also clean up at the completion of each day and at the end of the job.

NOTE :

- Care should be taken to avoid walking around the TRIM-KLIP overhang area to avoid damage
- Added care and safety precautions should be taken when standing at/near, and fixing of, the translucent sheeting.
- Safety precautions should be taken when walking on the roof and particularly near the roof edges (both permanent and temporary edges).
- Two rows of weather strips must be used at all the translucent sheets at the TRIM-KLIP joint

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