

KLIP-LOK 700 HI-STRENGTH® WITH LOK KLIP® & AMPELITE CLEARSLIDE® HS



INSTALLATION GUIDE

The LOK-KLIP® system provides installers with a quick and easy end joint/expansion joint solution between overlapping sheets of LYSAGHT KLIP-LOK 700 HI-STRENGTH® cladding.

The LOK-KLIP® system comprises a fully engineered ZINCALUME® steel bracket and a custom shaped weather resistant polyethylene foam strip.

The LOK-KLIP® bracket replicates the role of a standard concealed fix bracket and is secured to the ribs of the bottom sheet using standard roofing fasteners. The bracket is designed to hold the top sheet firmly against profiled polyethylene foam strips thereby creating a weather resistant joint, all while maintaining KLIP-LOK® roofing's ability to accommodate normal thermal expansion and contraction.

The following guidelines detail how Ampelite Clearslide® HS can be installed over the LOK-KLIP® system end/expansion joint while maintaining a weather resistant roof area.

It is based on the installer using a length of Clearslide® HS as a template. A long length template is preferred. This procedure is also based on progressively laying the upper and lower KLIP-LOK 700 HI-STRENGTH® sheets including the LOK-KLIP® system prior to installing any Clearslide® HS sheets. This procedure may be modified to suit the installer's requirements. However, when laying KLIP-LOK 700 HI-STRENGTH® sheets without an end joint, install Clearslide® HS according to the manufacturer's installation instructions which are available at www.ampelite.com.

ROOF DESIGN CONSIDERATIONS

Where Clearslide® HS sheet is used then:

- The end laps of the Clearslide® HS sheet must be located at least two purlins away from this LOK-KLIP® end joint
- The Clearslide® HS sheet is installed for the full roof run from ridge to eaves.
- Where the Clearslide® HS sheet is short of eaves, added support details will need to be provided for the translucent sheeting.

FIGURE 1:

KLIP-LOK 700 HI-STRENGTH® Clearslide® HS

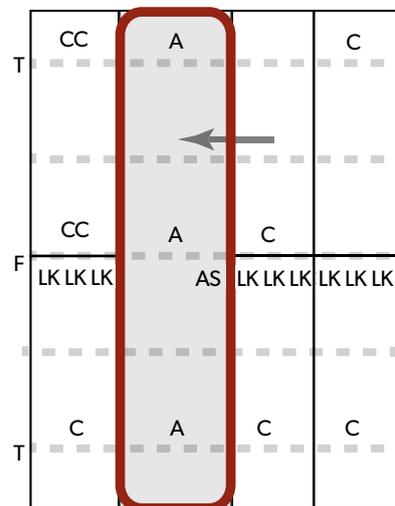


INSTALLATION GUIDELINES

1. Using standard KLIP-LOK 700 HI-STRENGTH® installation and LOK-KLIP® installation guides, begin laying the required number of KLIP-LOK 700 HI-STRENGTH® lower and upper sheets up to the first row of Clearslide® HS translucent sheet that are to be installed.
2. Use your template of Clearslide® HS translucent sheeting to locate and position the Clearslide® HS clips for the installation of the translucent sheet.
3. Place the midspan of the translucent template at the LOK-KLIP® end joint. Position the centre of the underlap rib side of the Clearslide® HS sheet over the centre of the underlap rib of the previously fixed lower and the upper KLIP-LOK 700 HI-STRENGTH® sheets.

FIGURE 2:

Clip Layout



LK = LOK-KLIP® bracket

C = Standard KLIP-LOK 700 HI-STRENGTH® clip (3-tower)

A = Clearslide® HS clip

AS = Clearslide® HS 'finishing side clip'

F = LOK-KLIP® Underlap Rib Hold Down Clips

T = Single clip KLIP-LOK 700 HI-STRENGTH® tower

← = direction of laying

■ ■ ■ ■ = purlin

FIGURE 3:

Standard KLIP-LOK 700 HI-STRENGTH® installation



4. Position the tower of the Ampelite Clearslide® HS clip (A) centrally under the Clearslide® HS sheeting, on the support at either end of the translucent sheet. Ensure the Clearslide® HS translucent sheet is square and parallel to the adjacent previously installed KLIP-LOK 700 HI-STRENGTH® cladding.
5. Mark the position of the Clearslide® HS clip at each end of the Clearslide® HS sheet and fix with the recommended fasteners. Using a string line locate and mark the remaining Clearslide® HS clips for the entire roof run. Check for alignment, then fix off as recommended by the manufacturer.
6. Using the same translucent sheet template, locate the next lower and upper rows of KLIP-LOK 700 HI-STRENGTH® cladding and clips. Position a KLIP-LOK 700 HI-STRENGTH® clip assembly at each end of the translucent sheet on the purlin support. Locate the tower of the KLIP-LOK 700 HI-STRENGTH® clip (C) under the centre line of the overlap rib side of the Clearslide® HS sheet.
7. Ensure the Clearslide® HS sheet is square and parallel to the previously fixed off KLIP-LOK 700 HI-STRENGTH® cladding. Mark the position of the KLIP-LOK 700 HI-STRENGTH® clip (C) assembly on the support and fix off with recommended fasteners. Using a string line locate and mark remaining KLIP-LOK 700 HI-STRENGTH® clip assemblies (C) for the entire roof run, checking for alignment. Do not install the Clearslide® HS sheet - this is placed after KLIP-LOK 700 HI-STRENGTH® 700 sheets have been laid both sides. In this regard, the Clearslide® HS sheet can be treated in the same way as a roof penetration.
8. Fix off the remaining KLIP-LOK 700 HI-STRENGTH® clips with the recommended fasteners.
9. At the intersection of the underlap ribs of the installed KLIP-LOK 700 HI-STRENGTH® and the LOK-KLIP® joint, use an additional Clearslide® HS finishing clip (AS) to hold down the two underlap ribs in piggyback formation. (See Fig. 4-6) Both finishing clips are then screw fixed through the common hole provided in the Clearslide® HS clip assembly to the support.

For the remaining run of KLIP-LOK 700 HI-STRENGTH® (the upper and lower sheets), use one standard Clearslide® HS clip (A) assembly with the standard finishing clip crimped over the underlap rib of the KLIP-LOK 700 HI-STRENGTH® cladding. (See Fig. 4-5 below)

FIGURE 4:

Position the finishing side clip over the Clearslide® HS male rib of the cladding.



FIGURE 5:

Using pliers or grip, squeeze the finishing side clip onto the rib, do not to deform the rib. This gives a snug fit and doesn't restrict thermal movement.



FIGURE 6:

At the LOK-KLIP® joint use an additional Clearslide® HS finishing side clip (AS) to secure the lower and upper sheets. Clip is independently squeezed for a snug fit.



10. At the intersection of the overlap ribs, the LOK-KLIP® joint and the Clearslide® HS sheeting, place a 1200mm (min.) long x 20mm x 19mm slow recovery PVC foam weather strip with adhesive backing on to the top of the lower sheet. Insert 50mm of this foam weather strip inside the void of the overlapping ribs. See Figure 7.

FIGURE 7:

Position the Clearslide® HS finishing side clip over the male rib of the cladding.



- 11. Install Clearslide® HS on to clips according to manufacturer’s recommendation.
- 12. Clean up all residue and swarf at the completion of each day and at the end of the job.

Clearslide® HS at LOK-KLIP® end joint

Per Clearslide® HS sheet panel

Ampelite Clearslide® HS assembly (A)	1
Ampelite Clearslide® HS finishing sideclip (AS)	1
LOK-KLIP® brackets	43 per 10m
Weather Strip	22 per 10m
LYSAGHT LOK-KLIP® Underlap Rib	1
Hold Down Clips (F) for each finishing end of the LOK-KLIP® joint	

FIGURE 8:

Finished installation at overlap rib



FIGURE 9:

Repeat this installation process alternating sheets of KLIP-LOK 700 HI-STRENGTH® with Ampelite Clearslide® HS sheets until the required number of sheets have been installed.



FIGURE 10:

The finished joint showing Ampelite Clearslide® HS sheeting at a LOK-KLIP® end joint. (Underlap rib side)



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