

Klip-Tite –The Engineered Concealed- Fix System Technical Bulletin 2.1

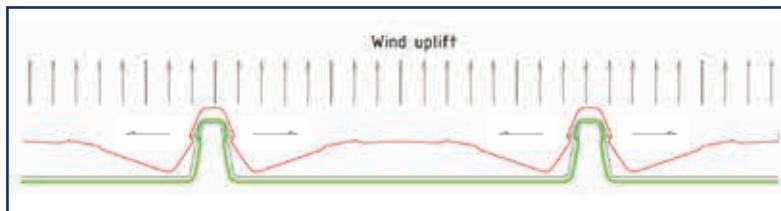
ROOFING LIKE NO OTHER

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Klip-Tite™ – The Engineered Concealed-Fix SYSTEM

- An independent Consulting Engineer tested Klip-Tite™ and found characteristic resistance to unclipping to 3.9kPa per m²
- This demonstrates the sheet's excellent stiffness and rigidity which can sustain a wind uplift load of 3.9kPa per m²
- Klip-Tite™ sheet and clip engineered as a unit to provide a High Performance Roofing System
- The most common reason for failure during wind storms is when the sheet disengages from the clip. It is thus of utmost importance that the holding down capacity of the roof sheet matches the holding down capacity of the clip.
- Transverse stiffeners in pan of the sheet act as beams to limit deflection and keep the sheet engaged to the clip.



- Transverse stiffeners provides strength to sheet and accumulates less dirt than longitudinal stiffeners

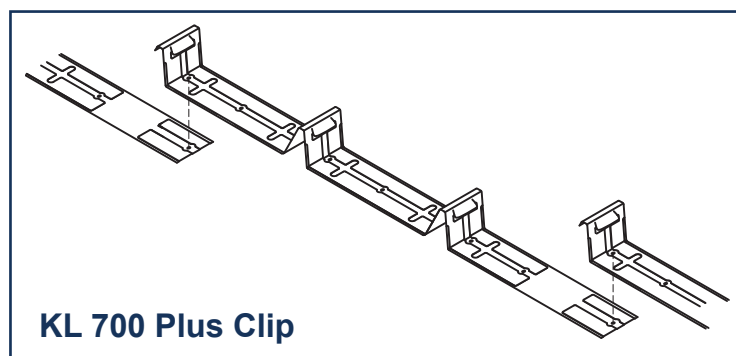


Longitudinal pan stiffening ribs



Transverse pan stiffeners

Photographs of two projects of equal age – both installed for about 4.5 years. It is noticeable that most of the dirt (black and brown marks) that accumulates on the roof is trapped at the bottom of the narrow flutes, and the bottom of the sides of the longitudinal pan stiffening ribs with minimal accumulation at the transverse pan stiffeners. The dirt accumulation thus follows the height of the upstand – 41mm at the narrow flute, 2mm at the longitudinal pan stiffeners and 0.5mm at the transverse pan stiffeners.



- Extended base of clip allows for a more accurate installation:
- Predetermined pilot holes at interlocking of adjacent clips ensure sheets are not stretched beyond 700mm cover width of sheet, resulting in proper sidelap interlock of adjacent sheets.
- Clips are installed in a straight line when using spacer hole.
- Extended base eliminates insulation bulge when used on blanket type insulation providing higher wind uplift capability.
- Extra base stiffeners allow for improved stability on the purlin, LSF battens or on "Ash Grid" type spacer systems.
- Design of clip's spur ensures that full length of spur is in contact with sheet during deflection.

