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Rivet fasteners to panels

1. Rivets to metal sub framing

Only rivets are to be used to attach panels to metal sub framing, because rivets keep their lock function permanently; whereas screws might loosen up over many years of service life, due to thermal and structural movement occurring on the cladding.

2. Panel expansion/ retraction/ shrinkage

The Swisspearl rivet attachment system uses 2 fixed panel fastening points in the middle of the panel; all other fastening points are slipping points allowing the panel to move in any possible direction.

3. Panel installation

Use concenter bore gauge to drill holes into the panel support profiles. Install first the 2 fixed points using insert sleeves (bushings) to keep the panel firmly in it's final position. Install the slipping points subsequently.

4. Rivet material/ length/ design

Swisspearl rivets are available in aluminium and stainless steel. Maritime or other aggressive environment calls for stainless steel rivets. Choose the rivet length corresponding to required grip range. The rivets have been designed and tested specifically for the use of panels applied directly onto flat metal support face. Engineering including panel fastener distances to be determined by local engineer/ contractor in accordance with local building code and standards.

5. Rivet gun

Best suitable is GESIPA AccuBird. Other products including hand riveting tools might also be suitable. Do not use pneumatic tools with excessive pulling speed.

6. Rivet data sheets

For engineering refer to separate rivet data sheets.

CH-8867 Niederurnen
+41 55 617 11 11

info@swisspearl.com
www.swisspearl.com

Member of the
Swisspearl Group