PSA S-Connection

In-Yard Installation Guide – May 2026

PSA S-Connection

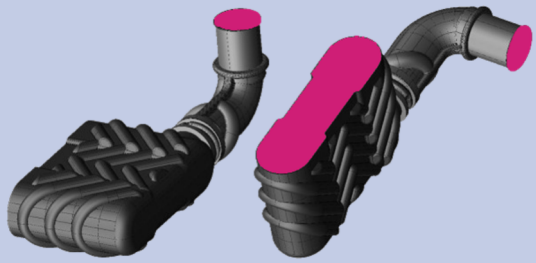
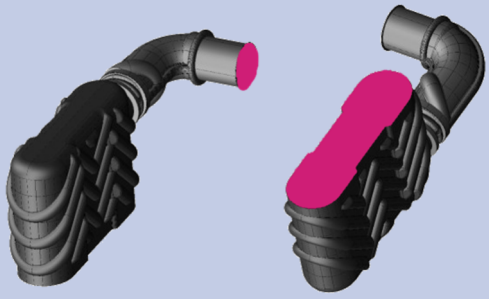
PSA S-Connection provides an efficient alternative to traditional welded stitch plates and wet joints for connecting precast panels.

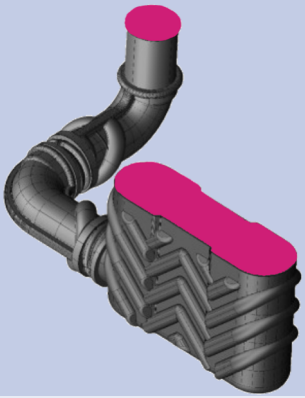
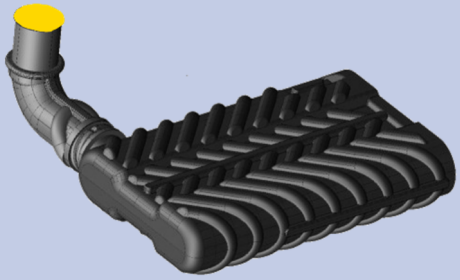
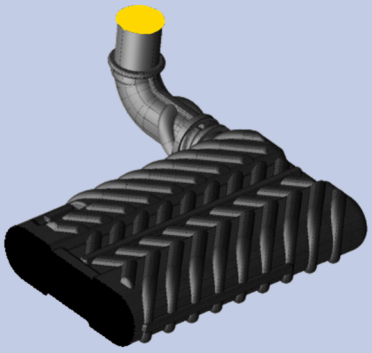
This document outlines the recommended procedures for installing S-Connections in precast panels prior to concrete pouring, along with the required post-pour aftercare. Following these guidelines will help ensure correct installation and support a smooth workflow both in-yard and on-site.

For any deviations from these guidelines, please consult the PSA team before proceeding.

> ⚠ As the correct placement of the PSA S-Connection components is crucial for the PSA S-Connection to work, it is recommended to perform Quality control checks in the precast yard before and after the pour! ⚠

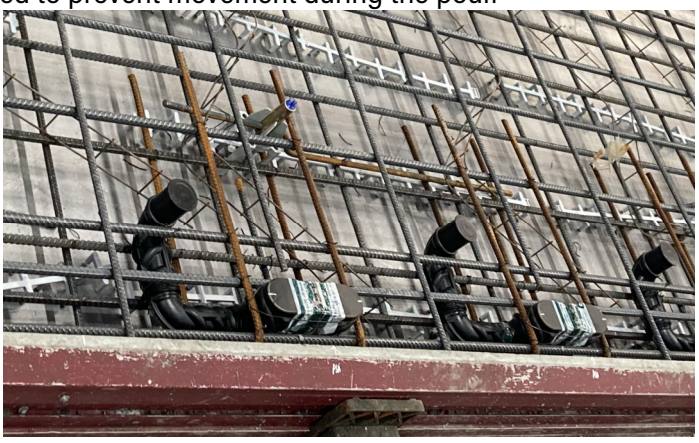
The following items are covered by this document:

Item No.	Description	Image
SCON-F-XXX-R	S-Connection Female component for XXXmm panel, **Right** orientation	
SCON-F-XXX-L	S-Connection Female component for XXXmm panel, **Left** orientation	

S-CON-F-DB-R	S-Connection Female Component for Corner Connections - **Right**	
S-CON-F-DB-L	S-Connection Female Component for Corner Connections - **Left**	
SCON-M-XXX-L	S-Connection Male component for XXXmm panel, **Left** orientation	
SCON-M-XXX-R	S-Connection Male component for XXXmm panel, **Right** orientation	

Pre-Pour Guidelines

1. The PSA S-Connection product range comprises two standard male components and four standard female components, each distinguished by the orientation of the grout inlet and outlet. PSA custom-manufactures these components to suit the actual panel thickness and grout inlet orientation.
   Ensure the label on the item matches the specification on the drawing for type (male / female), Panel Thickness (200 / 250 / 300) and Orientation (L / R).
   Images of all items with their orientation are shown in the table on page 1 and 2 of this document.
2. If correctly matched, the grout inlet/outlet orientation (NF, FF, SF) shown on the drawings should also be achieved. Check the grout inlet orientation as an additional check that the correct item has been used.
3. Timber forms are recommended for panel edges where S-Connection components are installed. Timber caps on male/female components can be screwed into timber shutters to ensure secure placement.
4. Adhere strictly to the specified locations on shop drawings and implement a robust QA process to prevent misplacement.
5. Unless otherwise noted, components fixed to panel edges should be centralised on the edge. Use suitable-height deck rail chairs or similar supports to secure the components at the correct height.
6. For corner connections, female components will typically be fixed on NF or FF faces (see below images). In such cases, ensure the timber cap is flush with the FF or NF and is firmly tied in or otherwise secured to prevent movement during the pour.



7. All grout inlets/outlets must be flush with the panel face. Wenn installed correctly all grout inlets should be above the main body of the S-Connection in the direction how the panel is finally installed.
8. Ensure that all reinforcement detailed on the shop drawings is correctly installed in conjunction with the S-Connections.

Post-Pour Guidelines

1. **DO NOT remove** the timber end cap (black) of **male components** during stripping. However, these caps should be cleared and made visible for easy access on site.
2. **DO NOT remove** the grout inlet cap (yellow) of **male components** during stripping. However, these caps should be cleared and made visible for easy access on site.
3. **REMOVE** the timber end cap (pink) of **female components** during stripping.
4. **REMOVE** the grout outlet cap (pink) of **female components** during stripping.
5. Conduct a post-pour inspection on all S-Connection components to confirm they have not shifted during the concrete pour.
6. If any components have moved during concrete pour, please contact PSA immediately for rectification advice.

Contact the PSA Technical Team (technical@psa.com.au) for guidance when any PSA S-Connection components are displaced or rotated!

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