

NZSIP Smart Panel Design Stage Checklist



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Design Stage Checklists

Architect/Designer

- Sufficient space to form lintels above windows
- Sufficient space to form panels between windows and between windows and corners/other obstructions
- Max roof panel length
- Max wall panel height

- Check standard panel construction. If non standard construction is proposed, please discuss this NZSIP prior to inclusion in documentation.
- Check standard details. If non standard connections are proposed, please discuss these NZSIP prior to inclusion in documentation.
- If steelwork within the panels is proposed, please discuss with NZSIP prior to inclusion in documentation.

Engineer

- Max roof panel length
 - Max wall panel height (Design additional support if over height)
 - Check standard panel construction. If non standard construction is proposed, please discuss this with NZSIP prior to inclusion in documentation.
 - Check standard details. If non standard connections are proposed, please discuss these with NZSIP prior to inclusion in documentation.
 - If steelwork within the panels is proposed, please discuss with NZSIP prior to inclusion in documentation.
 - Lintel sizes and grades
 - Roofing/Cladding fixings
 - Wall panel wind & axial load
 - Roof panel span and cantilever
 - Bracing
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For inclusion in Producer statement scope of work

- Lintel sizes and grades
- Roofing/Cladding fixings
- Wall panel wind & axial load
- Roof panel span and cantilever
- Bracing

Documentation Requirements

Architectural and Engineering drawings and models are the key inputs into creating the

panel documentation for the Smart Panels. Proper planning requires the location of all panel joints and structural components to be identified and correctly located on the plans. This planning and review process ensures that panels delivered to site match your design intent and satisfy engineering requirements. It is therefore very important that the person signing off on the drawings is experienced with shop drawings and comfortable with the review process.

The panel plan and shop drawings can be produced efficiently if all the relevant information is submitted to NZSIP. This includes, but is not limited to the following:

- Foundation plans including details and dimensions
- Detailed Floor plans and dimensions
- Dimensioned Sections
- Elevations with floor to floor dimensions
- Window & Door schedules with clear indication of structural opening sizes (opening required in the panels) including lintel and sill heights.
- Structural Engineering Design and calculations
- Clear indication of any situations where the NZSIP Standard methodology and/or details have not been employed

The above inputs will ensure that approved shop drawings contain all the correct elements prior to manufacture commencing. Documentation should be provided in the following format:

A set of all consent documentation in PDF format. Preferably a 3D RVT or IFC format file or 2D DWG plans, sections and elevations, 3D PANEL PLANS and SHOP DRAWINGS are available from NZSIP.
