

### BEST PRACTICE TIPS TO ENSURE A SUCCESSFUL PIONEER INSTALLATION

This summary of critical installation points in no way replaces the full Pioneer Installation Guide which is available for download on [www.eva-last.com](http://www.eva-last.com). It is recommended that you download and familiarise yourself with the full installation guide.

#### CRITICAL INSTALLATION POINTS

##### • Substructure:

- Plan your substructure to align with the intended deck layout.
- Ensure your substructure is level and secure.
- Use appropriate spans. The maximum centre-to-centre span for the 145 mm (5.709") wide Pioneer profile is 406 mm (16"). These spans
  - are suitable for residential applications and most other applications. Consult an appropriately qualified professional for spans above this maximum, or where ultimate load cases are greater than 4 kPa (0.580 lbf.in<sup>2</sup>) and/or serviceability load cases are greater than 2 kPa (0.290 lbf. in<sup>2</sup>) (based on a serviceability limit of 2.5 mm (1.0")).
- Support boards along all cut edges.
- Use double joists at all butt joints so that both board edges are fully supported.
- Use noggins between joists where breaker boards are used. The spans between noggins must not be greater than the maximum centre-to-centre span of Pioneer.
- Boards should overhang the last clip fixing by a minimum of 10 mm (0.379") and must not exceed 20 mm (0.788") from the support edge.

##### • Fastening:

- HULK halo (S-series) or Chain Collated Clips must be used when installing Pioneer. The manufacturer cannot guarantee a successful install using other decking clip brands which could then affect your warranty.
- Use two fasteners (hidden clips or top fixings) at every joist.
- Boards wider than 150 mm (5.906") require three fasteners per joist when top fixed.
- Maintain a clip fastening distance of between 10 mm (0.379") (minimum) and 20 mm (0.788") (maximum) from the end of the board.
- When top fixing boards (decking and fascia), ensure a spacing of 30 mm (1.182") between fasteners and from any board edge.
- Appropriate fasteners must be used when top fixing.
- Do not over-tighten any fasteners. The torque setting of your driver must be less than 30% of the maximum allowable.

### • Ripping and Cutting:

- Do not rip solid groove boards narrower than 60 mm (2.113") or square edged boards narrower than 90 mm (3.554").
- When cross cutting Pioneer boards it is essential to cut through the capping of the board at a slow pace to prevent the cap from lifting. Once the cap has been cleanly severed cutting can commence at a regular speed and pressure.

### • Trim or Fascia:

- Always install your trim or fascia beneath the lip of the boarder board.

### • Expansion:

- Pioneer can expand and contract up to similar rates experienced with typical wood-plastic composite materials.
- To allow for an appropriate expansion gap per board, multiply the length of the board (**L**) by 0.04 and by the difference between the installation temperature and the possible maximum temperature of the boards (Change in Temp.):
- Change in board length = **L x 0.04 x Change in Temp.**

Example: Change in board length =  $5.45 \times 0.04 \times (36^{\circ}\text{C} - 18^{\circ}\text{C})$

Change in board length = 3.9 mm

Expansion gap = 3.9 mm / 2

Expansion gap = 1.95 mm (either end of the board)

Please refer to **Section 3.5.1** in the full Pioneer installation guide for more information on this topic.

- Use the same method to estimate maximum gap size (when boards are fully contracted) to ensure this is suitable for the project.
- Where the expected temperature range is high consider using lighter coloured deck boards to reduce the required expansion gap.
- To further reduce the expansion gap, boards can be cut to shorter lengths.
- Breaker boards must be used between boards that are installed end-to-end to assist in controlling expansion and contraction.
- Use boarder boards around the perimeter of an installation to further assist in controlling expansion and contraction.
- Do not use grooved decking boards for stairs, breakers and/or boarder boards, only use square edge boards.
- If the expansion and contraction is not managed appropriately, the warranty may be affected.

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