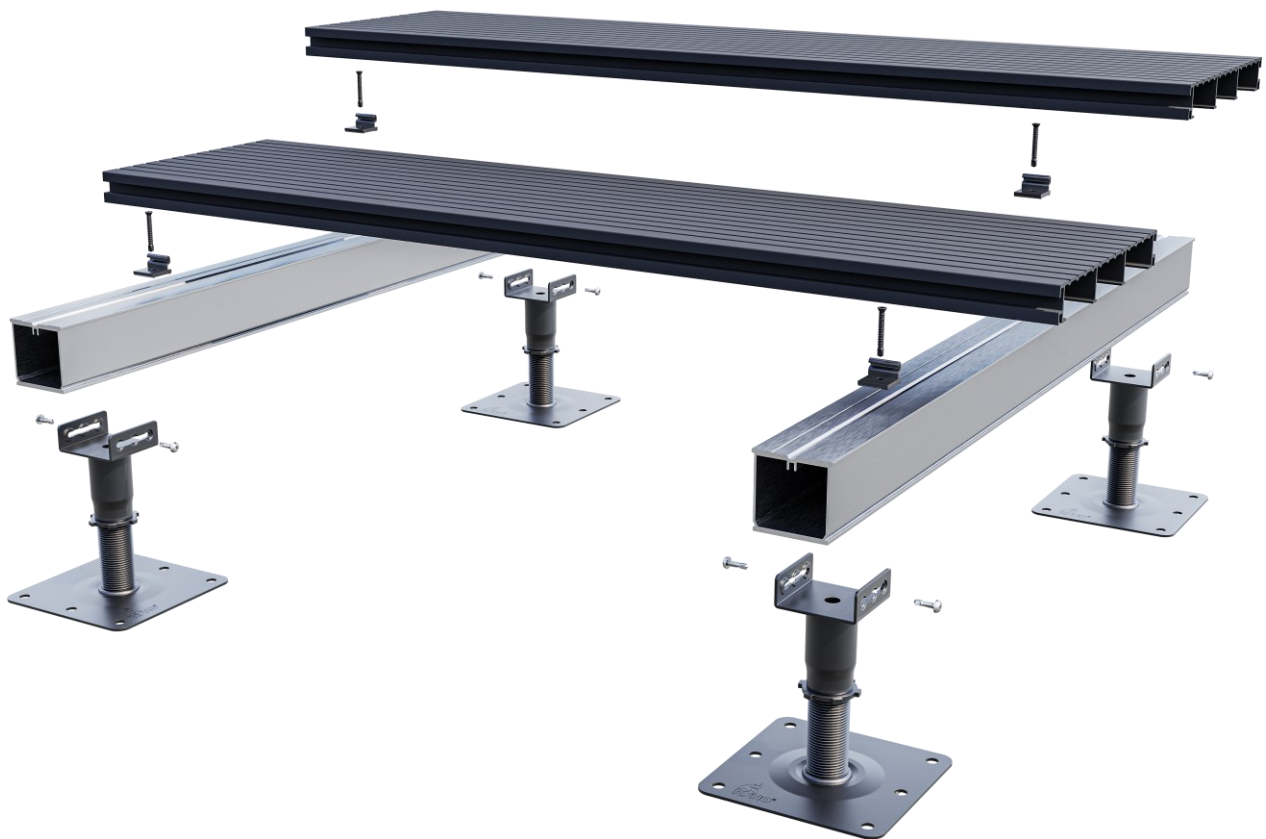


# TERRASMART ALUMINIUM DECKING SYSTEM

## INSTALL GUIDE

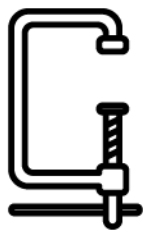


# EQUIPMENT

Mitre Saw



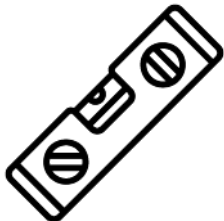
G-Clamp



Angle Grinder



Spirit Level



Rubber Mallet



Cordless Drill



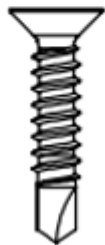
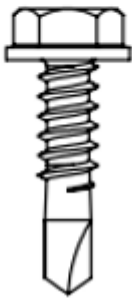
Tape Measure



Site PPE



FASTENER GUIDE



Self-Drill  
4.2x13mm

Self-Drill  
4.8x19mm

Self-Drill  
3.9x30mm

Self-Drill  
3.9x19mm



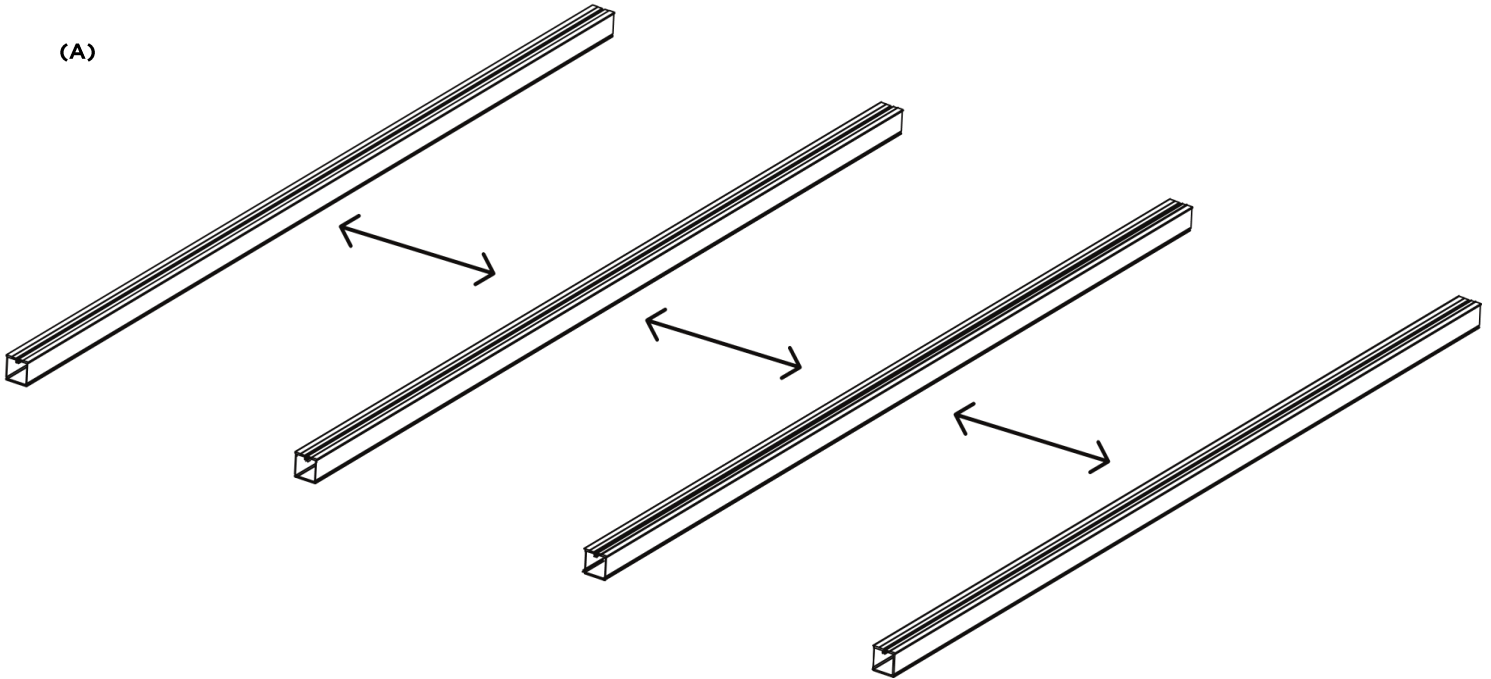
# IMPORTANT NOTES

- Leave a 3mm gap between board ends when butted end-on-end.
- Some schemes require a 10mm gap around perimeter edge of area.
- Use offcuts of material wherever possible to minimise waste.
- Where joists are to be butted end-on-end, ensure there is a support under the join connecting the two joists.
- Always use appropriate torque setting on cordless screwdriver for screws.
- Always use correct PPE throughout installation.
- Typical spacings shown within this guide are based on standard system design conditions. Project-specific loads, finishes, build-ups or design requirements may require alternative or reduced support spacings. Always refer to the project-specific design information where provided. Where requirements are unclear, contact the RYNO Technical Team before installation.

## INSTALLATION GUIDANCE

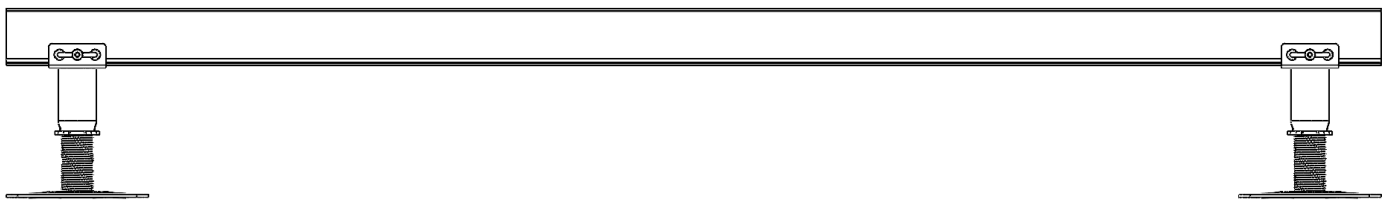
- 1) Determine decking direction.
- 2) Lay the joists out on the substrate perpendicular to the decking direction, at the required centres (as per board span, see datasheet). Fig A.

(A)



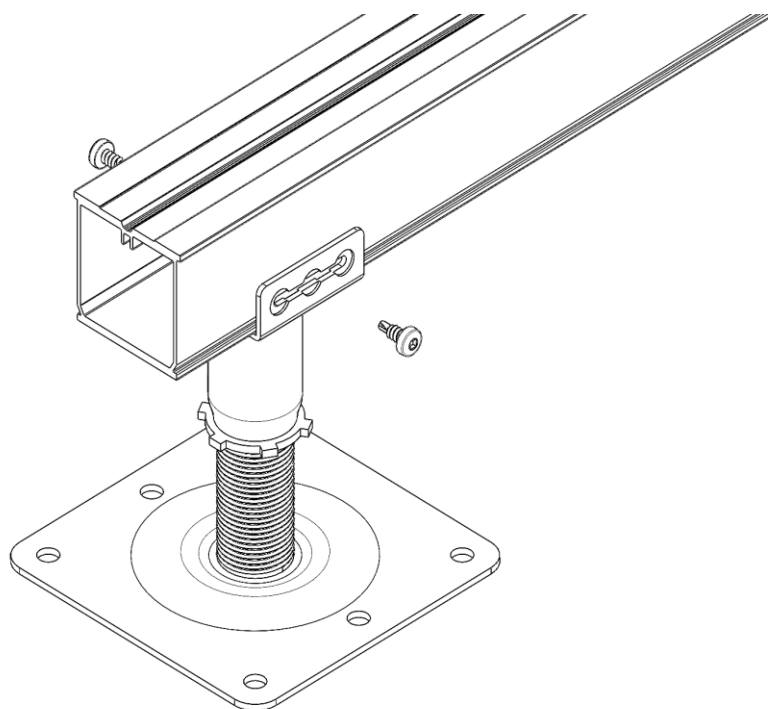
- 3) Lift the joists onto the pedestal supports, which should be placed at each end of the joist, and level up to the required height (FFL minus board depth). Fig B.

(B)



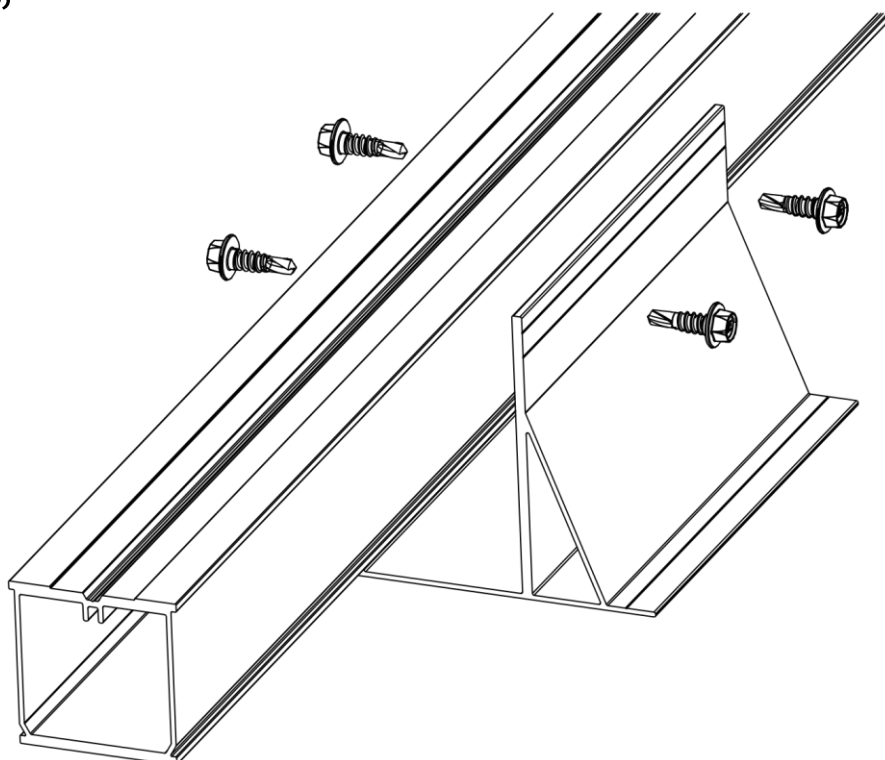
- a) If using adjustable pedestal supports, fasten the joist to the pedestal head using 13mm self-drill screws and tighten the locking nut on the pedestal to secure it at the required height. **Fig C.**

(C)



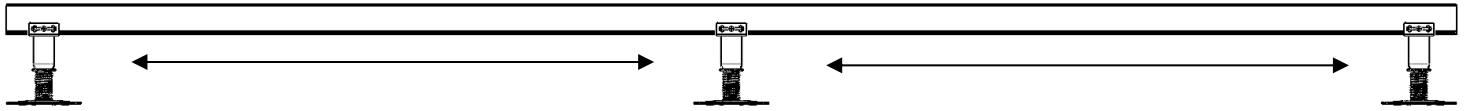
- b) OR; if using cleat supports, use the 4.8x19mm hex head self-drill screws to secure the joist at the required height. **Note:** In some scenarios, using packers to build up to the required height can be helpful. If the packers are combustible, remove them after the screws have been installed. **Fig D.**

(D)



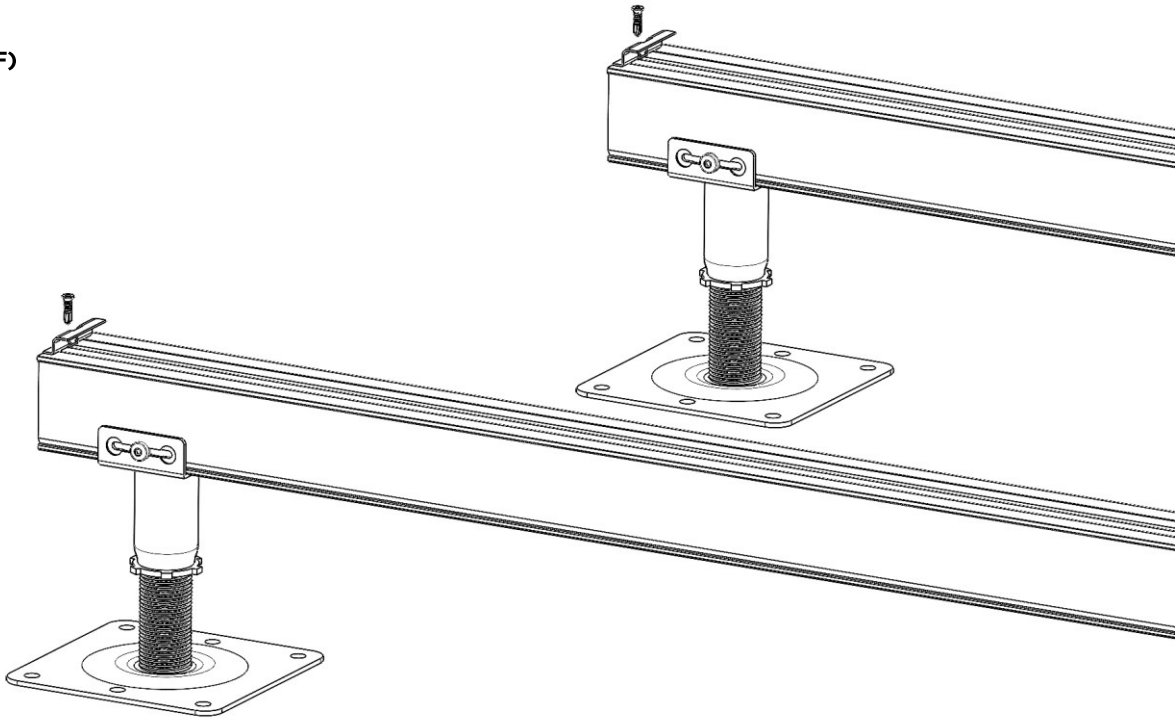
- 4) Add the intermediate pedestal supports at the required centres along the joist (as per the joist span, see datasheet). **Fig E.**

(E)



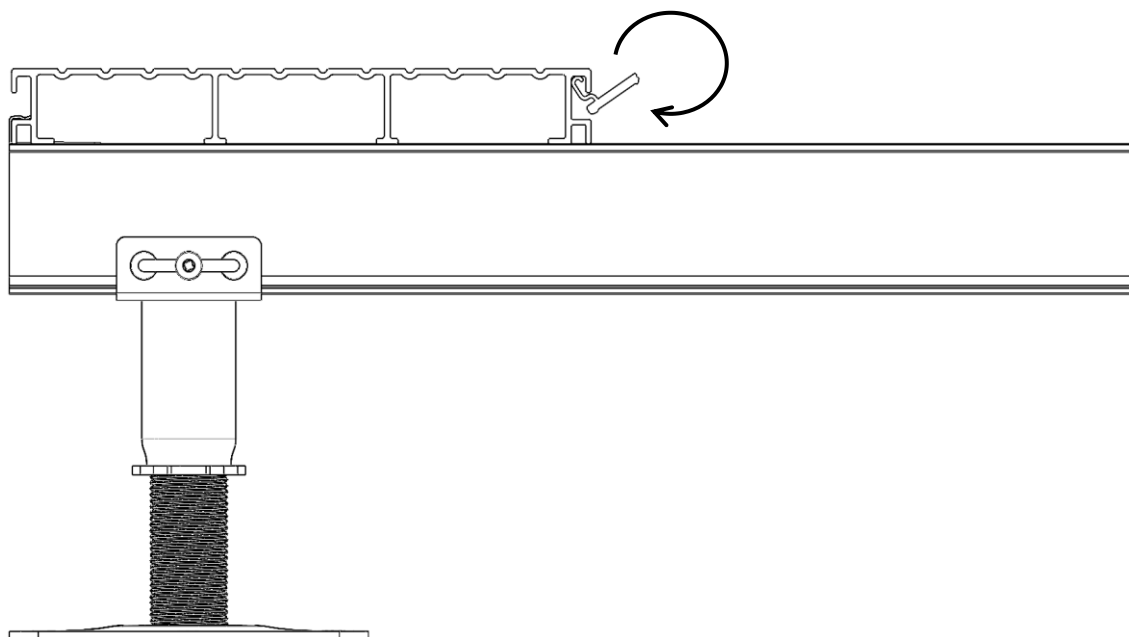
- 5) Once all joists are level and supported, establish where the first board will be laid.  
6) Install the Starter/End Clip along the ends of the joist ready for the first row of boards, using the 3.9x19mm countersunk screws. **Fig F.**

(F)



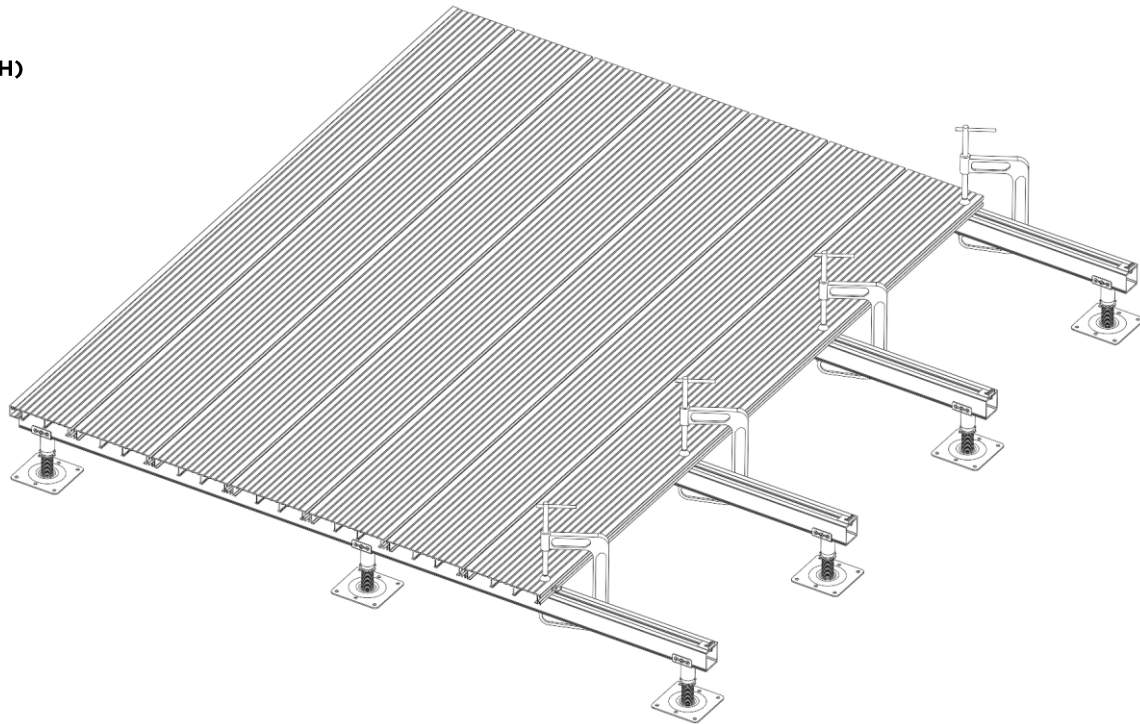
- 7) Push the first row of decking boards into the Starter/End Clips. Ensure there is a 10-12mm gap around the perimeter to allow for drainage (BS 8579:2020).  
8) Apply the AluClips along inside edge of the first row of decking, above each joist. This creates a 6-8mm gap between boards on the pedestrian surface (BS 8579:2020). **Fig G.**

(G)



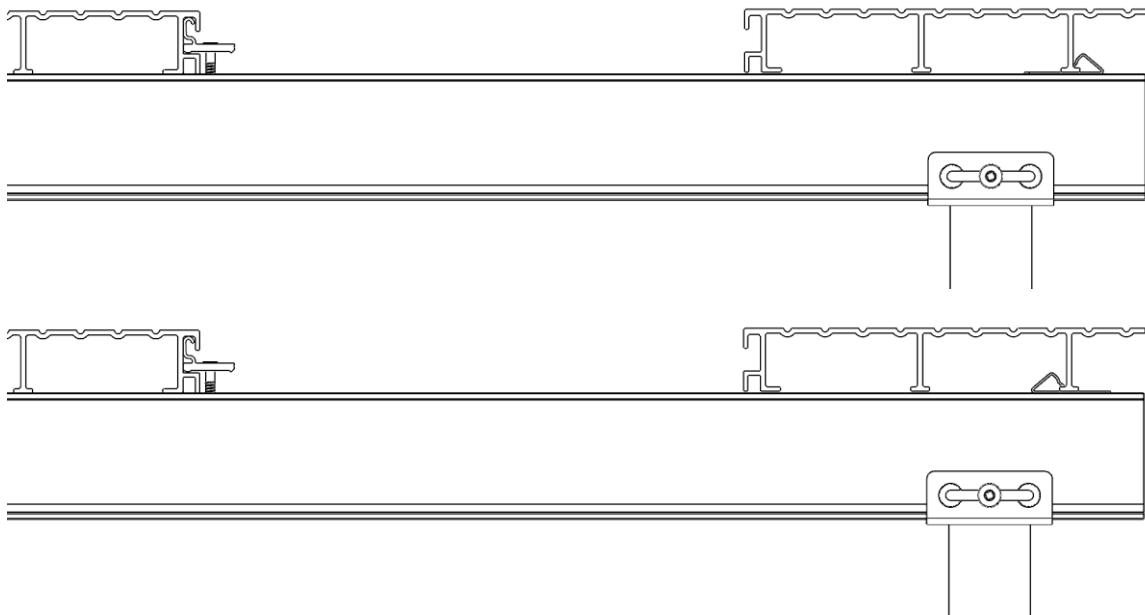
- 9) Slide the second row of decking boards into place.
- 10) Repeat 5 rows of decking without fastening.
- 11) Optionally, you can use G-Clamps to lock the last row of deck boards tightly against previous rows, ensuring all gaps are consistent. **Fig H.**

(H)



- 12) Fasten down the deck boards with black 30mm self-drill screws, through the AluClip, taking care not to scratch the top edges of the boards with the drill bit.
- 13) Repeat steps 10-12) until the third last board.
1. OR; If the last board needs to be cut down to length and an E termination is not being used;
  - i) Cut the board down to required width
  - ii) Identify where last leg of the board will be
  - iii) Modify the Starter/End Clips as shown. **Fig I.**

(I)



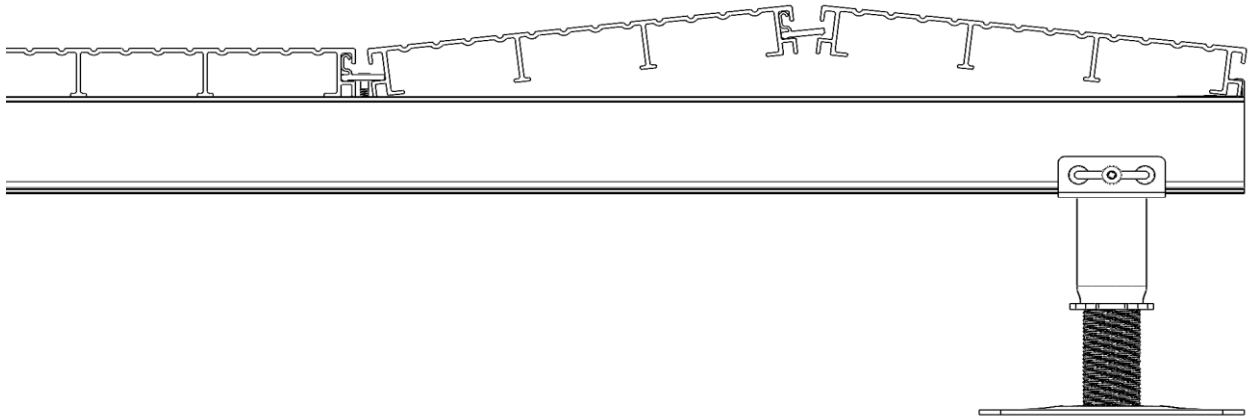
- iv) Place cut boards
- v) Apply AluClips to inside edge of the cut board
- vi) Pivot the last boards into place
- vii) Fasten boards



14) To install last boards;

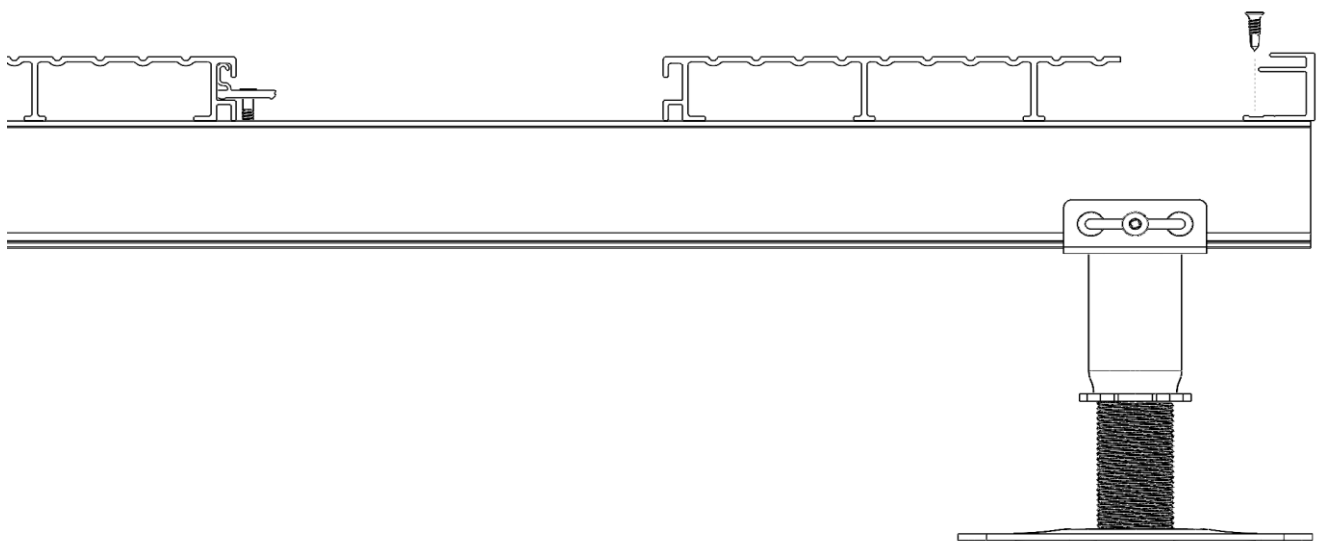
- a) If the last board happens to fit perfectly and does not require cutting down its length;
  - i) Leave out the last two rows of decking and install Starter/End Clips at joist ends.
  - ii) Place second last row of decking
  - iii) Apply AluClips into the second last board
  - iv) Push last row of decking into Starter/End Clips
  - v) Pivot both boards together. **Fig J.**

(J)



- vi) Fasten the boards as per step 12).
- b) OR; if the last board needs to be cut down to fit and an E-termination profile is to be used;
  - i) Cut down board to required width
  - ii) Identify correct location and fix E-termination profile into place using 13mm self-drill screws. **Fig K.**

(K)



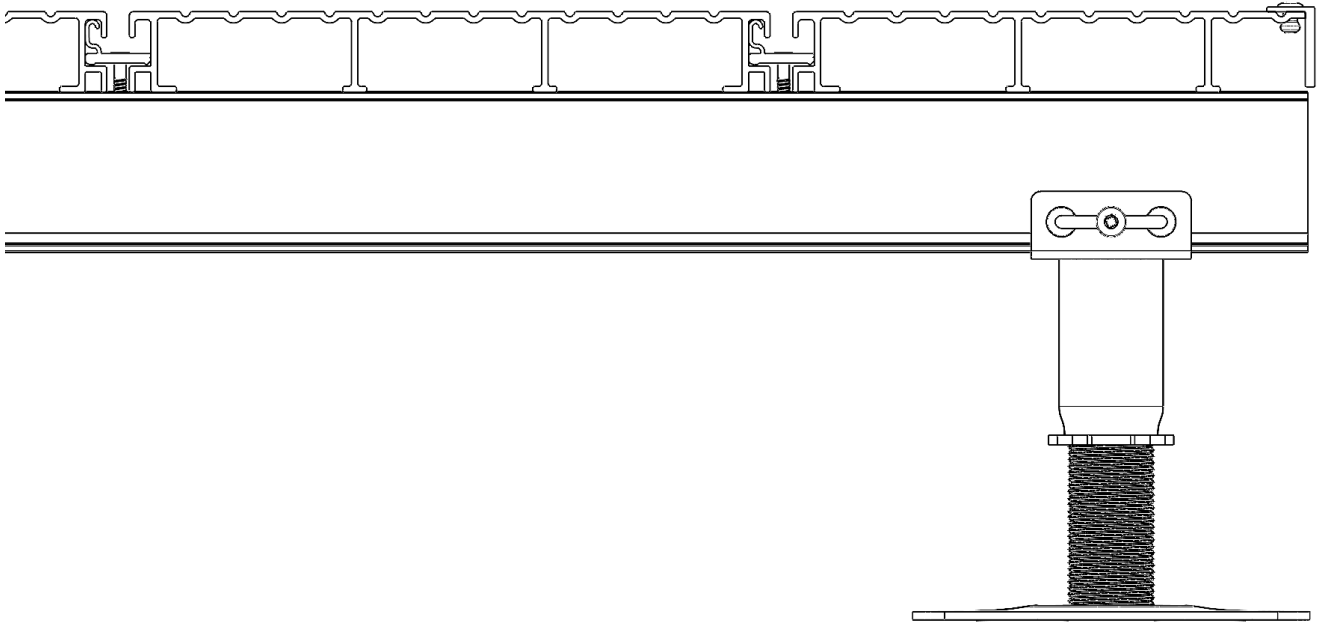
- iii) Slide the cut board into E-termination profile receiving channel
- iv) Apply AluClips to inside edge of the cut board
- v) Pivot the 2<sup>nd</sup> and 3<sup>rd</sup> last boards into place
- vi) Fasten the boards

- c) If the last board needs to be cut down to fit and a L-termination profile is to be used;

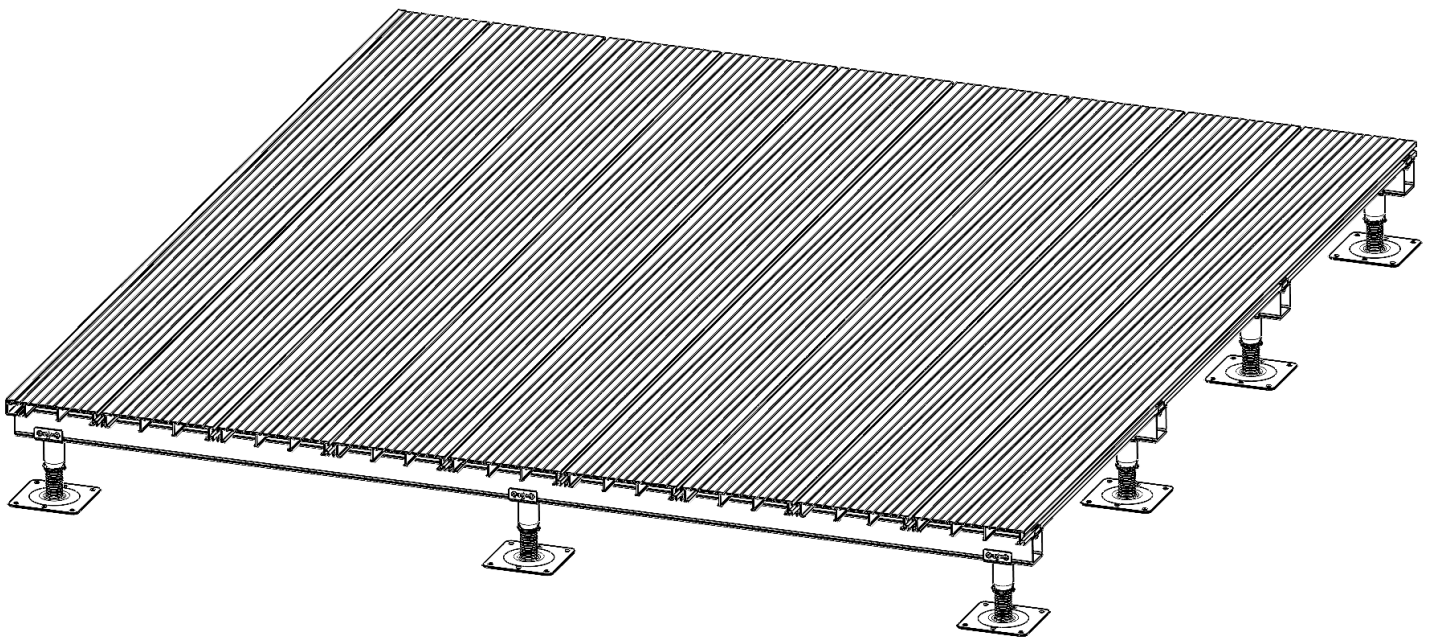


- i) Cut down board to required width
- ii) Identify correct location and insert L-termination profile from above, with longer face to cover cut board ends and 15mm-wide face on top.
- iii) Use PPC pop rivets to face-fix through the 15mm L profile face into the surface of the deck board. One rivet per board is sufficient. **Fig L.**

(L)



15) Your TerraSmart Aluminium Decking System is complete.



**LET'S TALK**

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