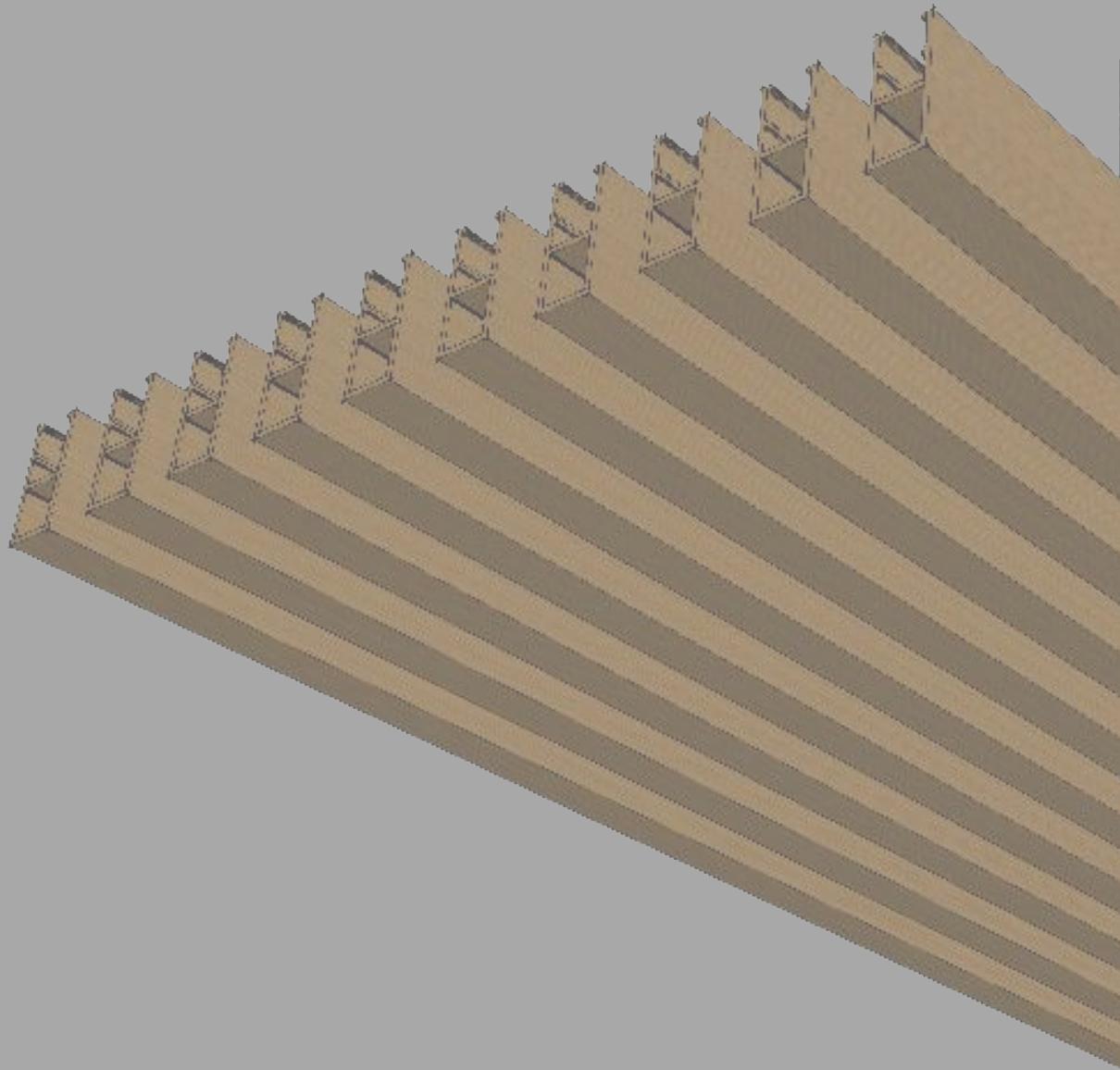


IMPORTANT : All INNOWOOD products must be installed in strict accordance with INNOWOOD'S current (at time of installation) "INSTALLATION MANUAL" and "CARE AND MAINTENANCE GUIDELINES" which can be downloaded from our website : www.innowood.com

Failure to comply with these documents may void warranty and result in an unsatisfactory outcome.



INNOCEIL

CONCEAL CLIP. SHIPLAP. SLATTED &
SUSPENDED CLICK ON FIXING
INSTALLATION MANUAL



BEFORE YOU COMMENCE

Please note that:

The Product is subject to natural variation* in finish as part of the manufacturing process. The purchaser or their installer/ builder is responsible for inspecting, prior to installation, the colour, finish and size of the Product, identifying whether the Product has any other defect or manufacturing fault, and for ensuring the Product meets surface appearance and product specification requirements. Subject to the terms of our warranty, INNOWOOD is not liable for claims made after the installation of the Product that relate to surface appearance and product specification.

*INNOWOOD product is made predominantly from timber hardwood waste, colour will vary up to +/-20% according to the hardwood species used in its manufacture.

It is the responsibility of the specifier or other party to ensure that the information in this manual is appropriate for the intended application and further design detailing may have to be made for specific applications that fall outside the scope of the manual.

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INNOCEIL FIXING- PROFILE

CONCEAL CLIP & SHIPLAP FIXING						
SECTION						
PRODUCT CODE	CL14025	CL14010	CL17012	CL20420	CL16728	CL27765
COVERAGE	140mm	120mm	170mm	197mm	148mm	250mm
SPAN CENTRES*	450mm	450mm	450mm	450mm	450mm	450mm

SLATTED					
SECTION					
PRODUCT CODE	CL06516	CL09028	CL10050	CL12530	CL15050
COVERAGE	65/16mm	90/28mm	100/50mm	125/30mm	150/50mm
SPAN CENTRES*	450mm	450mm	450mm	450mm	450mm

SUSPENDED CLICK ON		
SECTION		
PRODUCT CODE	CL02050	CL03070
COVERAGE	20mm	30mm
SPAN CENTRES*	450mm	450mm

Noted:

Guide only, span is dependent on region and wind load, please confirm with structural engineer prior to installation.

Installation Tips and Requirements

INNOWOOD products can be worked with ordinary woodworking tools such as:

Circular Saw	Cordless Drill
Crosscut Mitre Saw	Level & Chalk Line
Carpenters Square	Tape Measure

NOTE:

To ensure long-term performance, we recommend that a professional trade person carry out the installation. The installation MUST be carried out in accordance with these instructions including the use of all trims and accessories.

Site storage & Product Handling

- INNOWOOD boards should not be stored in the open or covered or wrapped with plastic sheet. INNOWOOD boards are a finished product, do not dump or drop when loading or unloading. Always handle with care.
- INNOWOOD boards should be stored under cover and protected from the elements (including direct sunlight and rain) until ready to install. Remove any plastic wrap including shrink wrap and store on a dry and flat surface supported at max 450mm centres.
- When removing INNOWOOD boards from the pack, do not slide boards against each other, lift the boards and set them down carefully.
- INNOWOOD boards should be carried on their edge for better support.
- When handling INNOWOOD boards take care to avoid scratches, nicks and other damage to the boards.

Thermal movement

Any wood based products will expand and contract with changes in temperature. The amount of expansion varies according to the amount of change in temperature. Although thermal movements are reversible, these movements due to temperature change may vary by up to 2mm per meter.

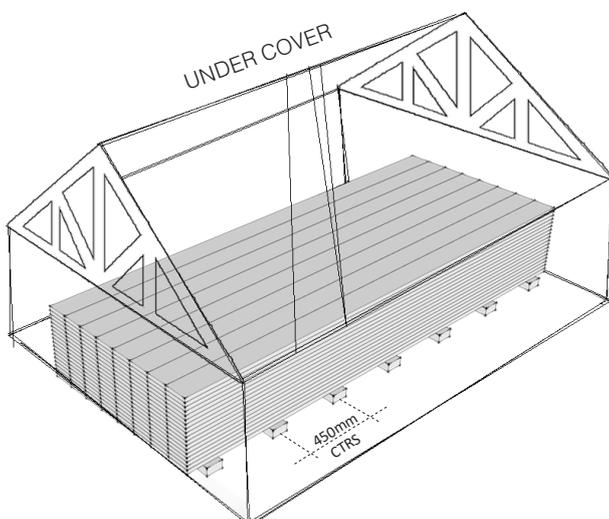
INNOWOOD boards that have been exposed to direct sun for several hours, prior to installation will have expanded more than boards left in the shade. It is important to maintain an average consistent temperature for all boards as they are being installed.

Avoid installing in full sun if ambient temperature is above 30°C. Ensure the boards are kept out of the sun until installed to limit the boards expansion prior to installation. INNOWOOD products can tolerate a temperature range from -20°C to +65°C.

If the product is to be used in an environment outside of this temperature range, please consult INNOWOOD.

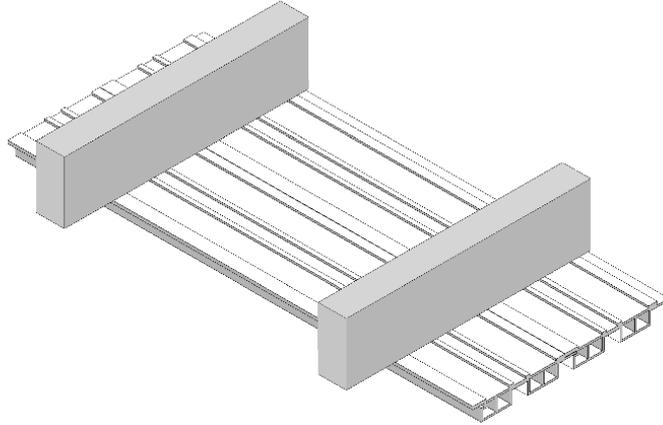
Please bear in mind that:

- Where INNOWOOD boards are to be screw fixed, clearance holes must be pre-drilled before fixing (both INNOWOOD boards and accessories).
- The clearance hole to be drilled must be slightly greater than the outside screw thread diameter.
- Screws must be minimum 15mm but maximum 25mm away from board edges (unless noted otherwise)
- INNOWOOD products must not be used for any structural purpose.
- The cut surface must be sealed with a layer of protective coating such as a water based deck sealer before installation.
- When exposed to direct sunlight, surface temperature may be significantly hotter than ambient temperature.

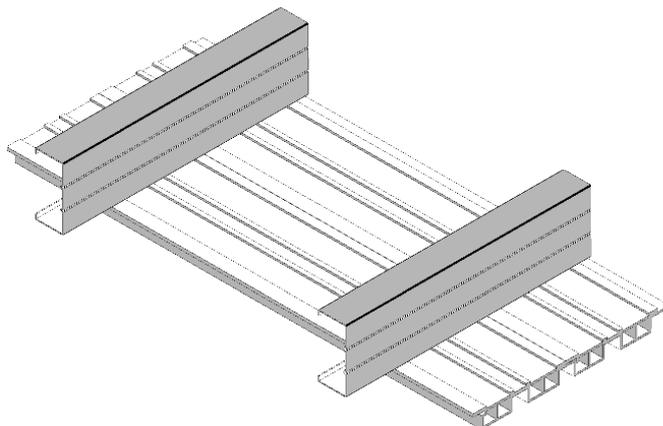


Framing

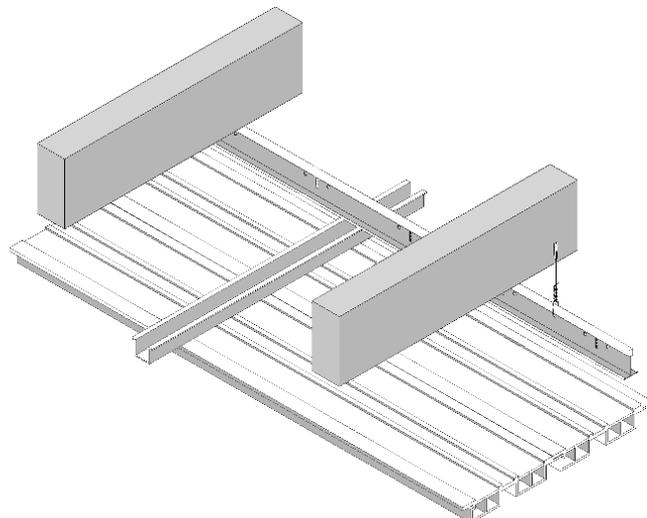
INNOCEIL systems utilise various common framing formats however, this manual cannot address all possible solutions, further design detailing may have to be made for specific applications that fall outside the scope of the manual.



A. SCREW FIXED DIRECTLY TO TIMBER/STEEL FLOOR/CEILING JOISTS



B. SCREW FIXED DIRECTLY TO LIPPED STEEL C-STUD



C. SCREW FIXED TO SUSPENDED CONCEALED METAL GRID UNDER FLOOR/CEILING JOISTS

Framing construction requirements

INNOWOOD ceiling may be fixed to seasoned timber joists or to a proprietary structural system.

Joists spacing for INNOWOOD ceiling is nominally set at 450mm centres when used as internal lining and 300mm centres max when used as soffit in urban and non-cyclonic wind load areas. For higher wind-load areas reducing batten spacing may be required. All boards must span across a minimum of 3 joists.

As with all ceiling products the adequacy of a proposed installation should always be checked by a qualified engineer.

Battens must have a face not less than 45mm for timber and 35mm for steel.

Where butt joints occur, double joists must be set.

Timber framing

The joints between posts, bearers and joists need to be able to transfer load efficiently through the structure, refer to AS1684 for design of these elements.

It is important to use adequately seasoned timber to minimise shrinkage and associated building movement, which may damage the soffit system.

Steel framing

Steel framing must comply with AS/NZS 4600: Cold-Formed Steel Structure or AS 3623: Domestic Metal Framing.

Where steel framing members are specified, use only corrosion resistant galvanized steel framing. Specific instructions for fixing to steel frames are included where appropriate.

Screws

Screws must comply with AS 3566 Self Drilling Screws for the Building and Construction Industries.

Screws must have a minimum Class 3 corrosion resistance, suitable for external applications in mild, moderate industrial and marine environments and Class 4 or stainless steel for severe environments.

Screws with class 1 or 2 corrosion resistance may be used for internal use depending on the individual application.



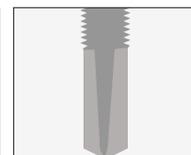
Wafer Head



Countersunk Head



Decking/ Type 17



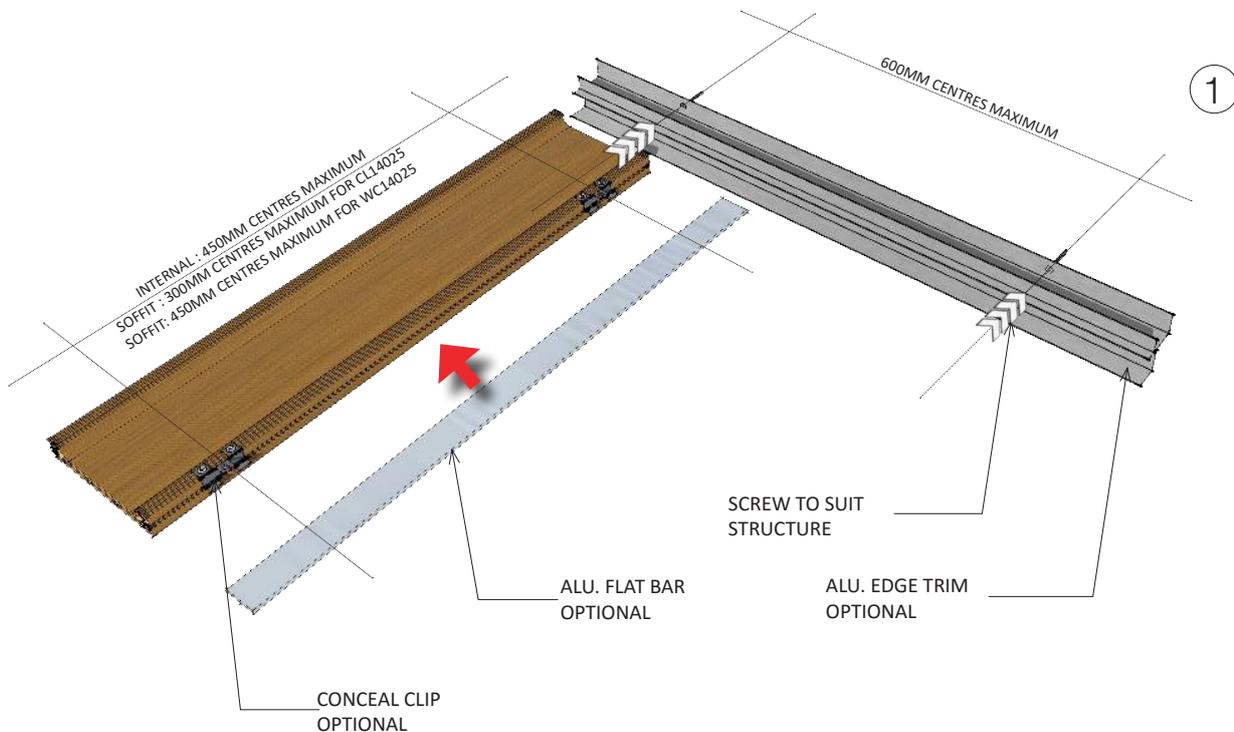
Self-drilling



Self-tapping

INSTALLATION (Please note that the following instruction is also applicable for WC14025 solid profile.)

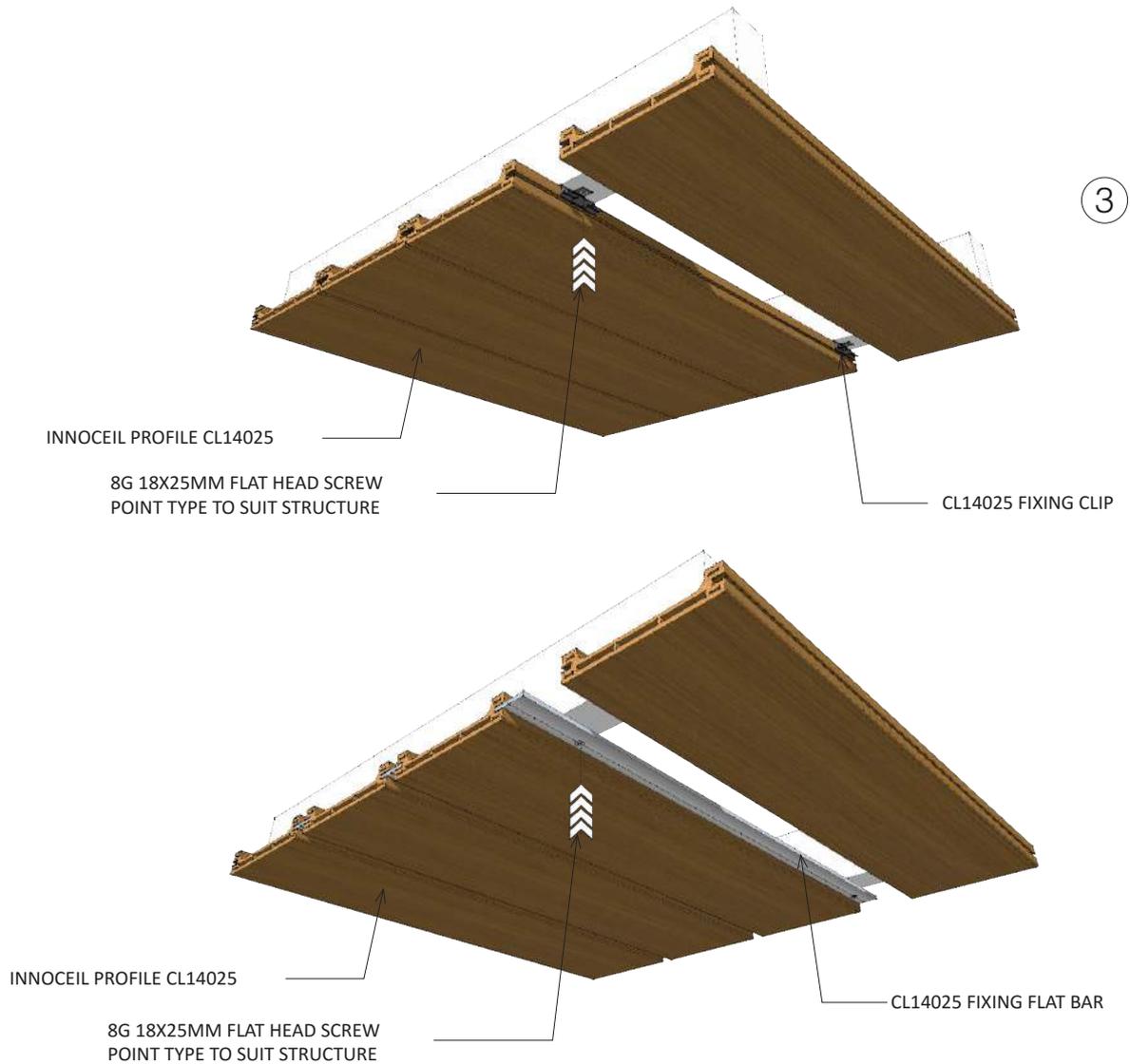
CONCEAL CLIP FIXING



1. Use a string, spirit or laser level to establish the starting point of the ceiling. Screw fix aluminium starter using v-groove as reference, ensure the screw head is flushed with starter surface to allow ceiling board to fit in later.
2. If Concealed Clip option is used, then make sure that the clip is screwed to boards prior to putting the next joining board.
3. Joists span is set to no more than 450mm centres for internal application, 300mm centres for soffit using CL14025 and 450 centres for Soffit using WC14025. Paint the starter to match the colour of ceiling board if necessary. Face fixing through ceiling board is an alternative solution without using starter.
4. Position the first ceiling board into the groove of starter and temporarily hold it in place. Ensure the clip is properly clipped together with ceiling board and use flat head screw to fix the clip onto the back-structure.

NOTE

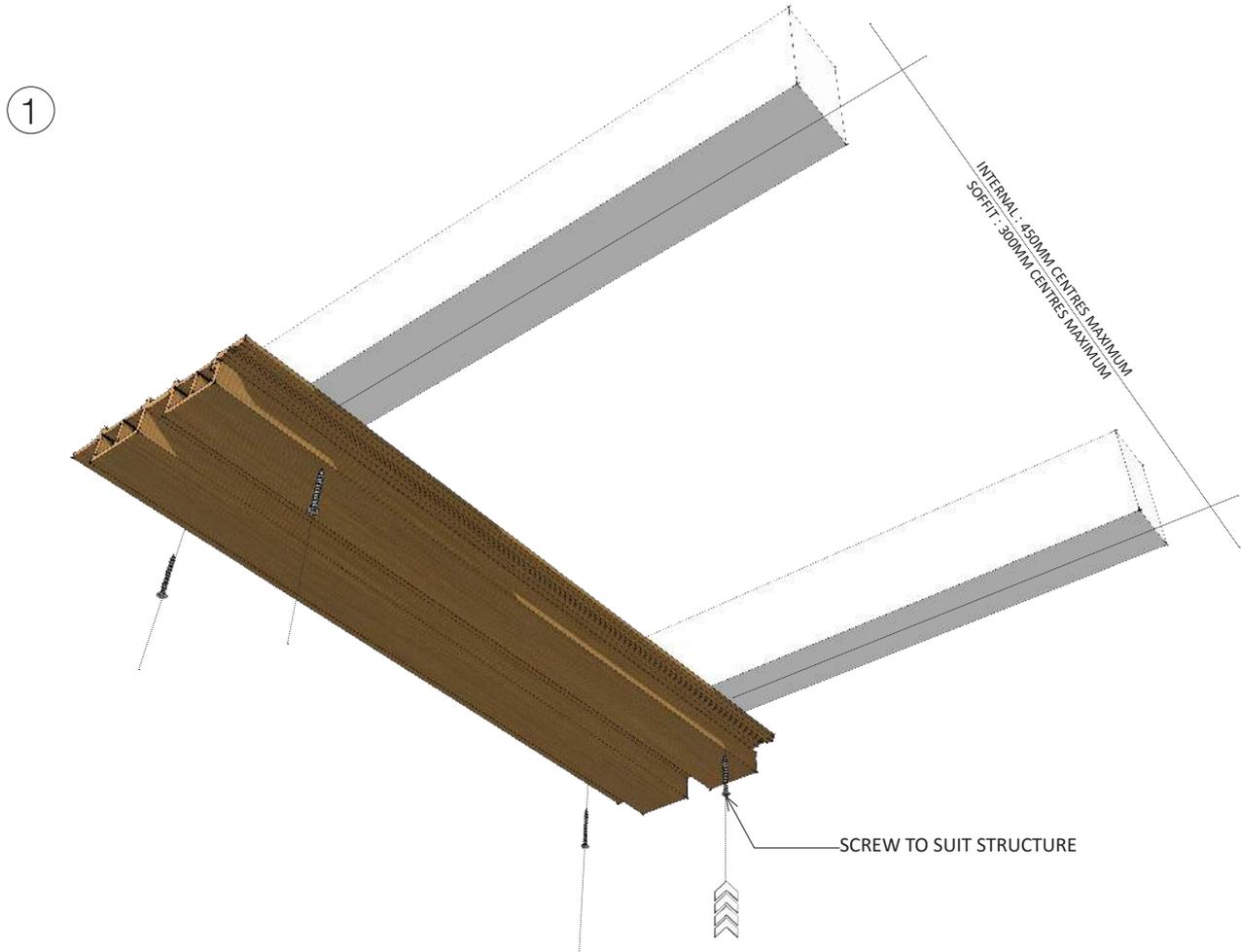
- Pre-drilling is essential.
- All screws are minimum 15mm but maximum 25mm away from board edges.



3. Position the second ceiling board into the clip fixed in step 2, ensure the ceiling board and clips are properly clipped together.
4. Repeat Step 2 and Step 3 until the ceiling is fully completed. Use the aluminium starter or appropriate cornice to finish off if necessary.

SHIPLAP FIXING

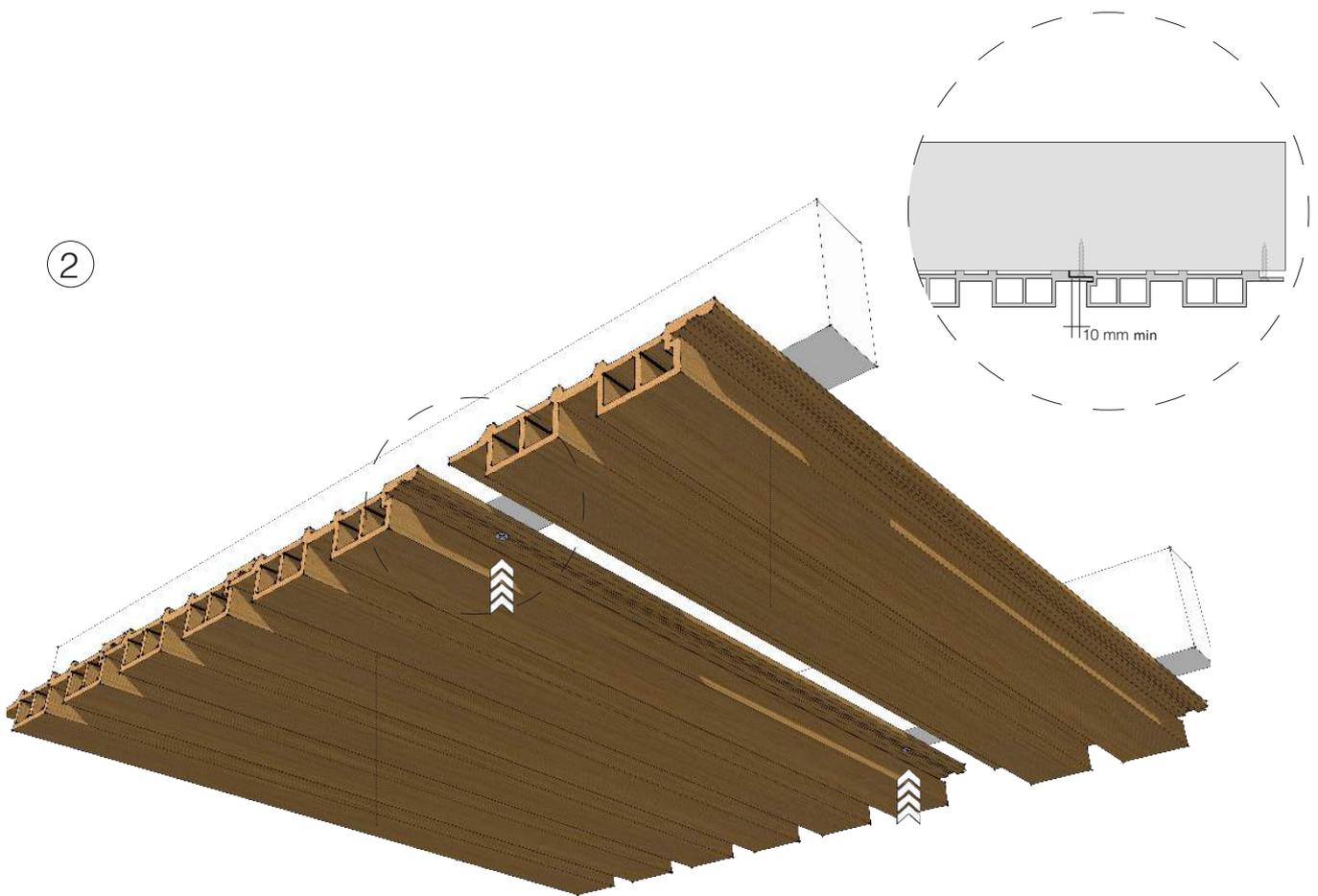
Please note that the following instruction is also applicable for CL14010/CL17012/CL16728/CL20420/CL27765.



1. Use a string, spirit or laser level to establish the starting point of the ceiling. Use wafer head screw to fix the first ceiling board through the edge both sides, be careful not to break the tongue of the starting board.
 - 1a. Joists span is set to no more than 450mm centres for internal application and 300mm centres for soffit.
 - 1b. Ensure the screw head is flushed with board surface to allow the adjacent board to slide in.

NOTE

- Pre-drilling is essential.
- All screws are minimum 15mm but maximum 25mm away from board edges.



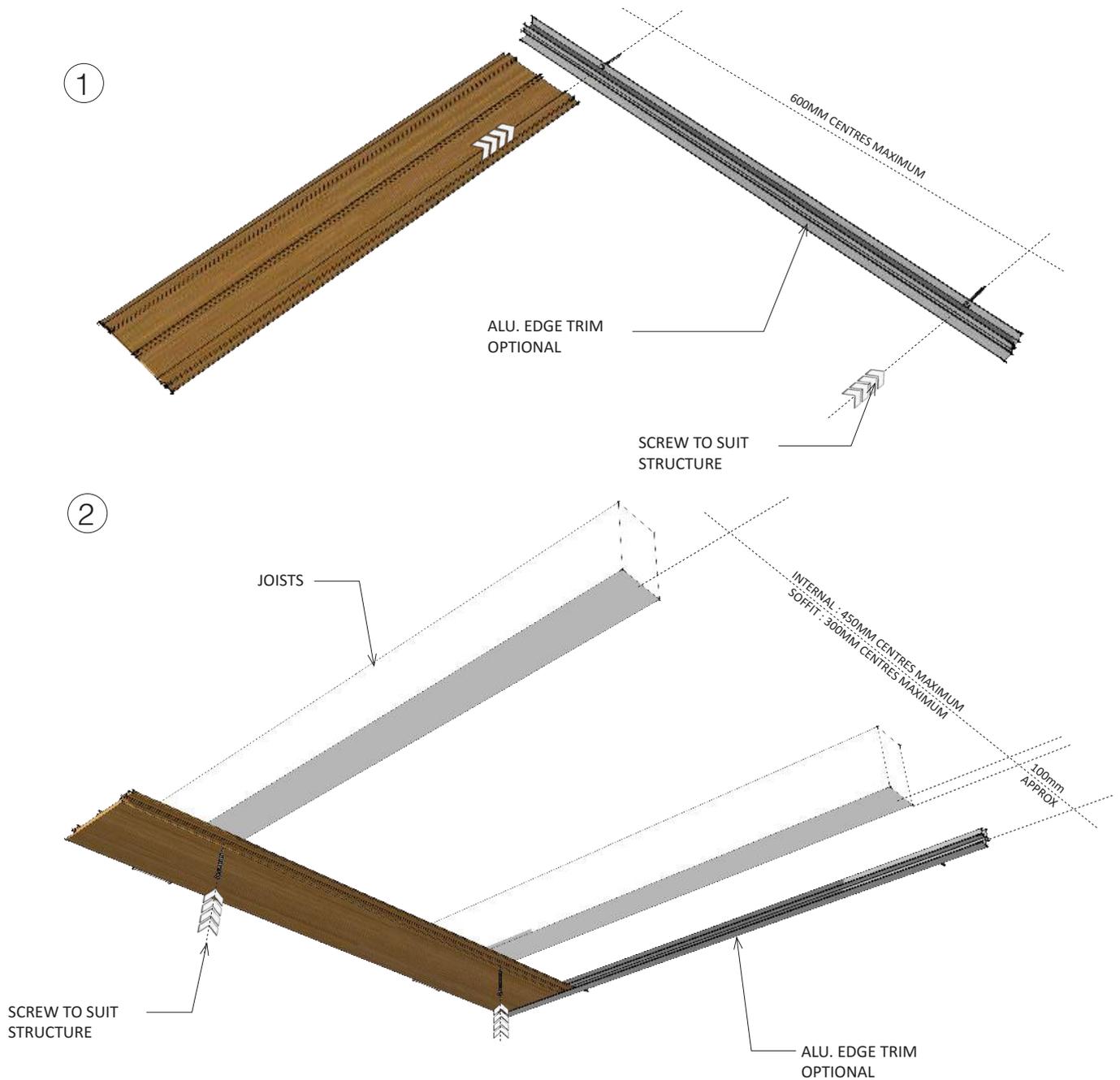
2. Position the second ceiling board into the groove of the first board and temporarily hold it in place.
 - 2a. Use wafer head screw to screw fix the second board onto the back-structure.
 - 2b. Repeat this step until the ceiling is fully installed. Use appropriate cornice to finish off if necessary.

NOTE

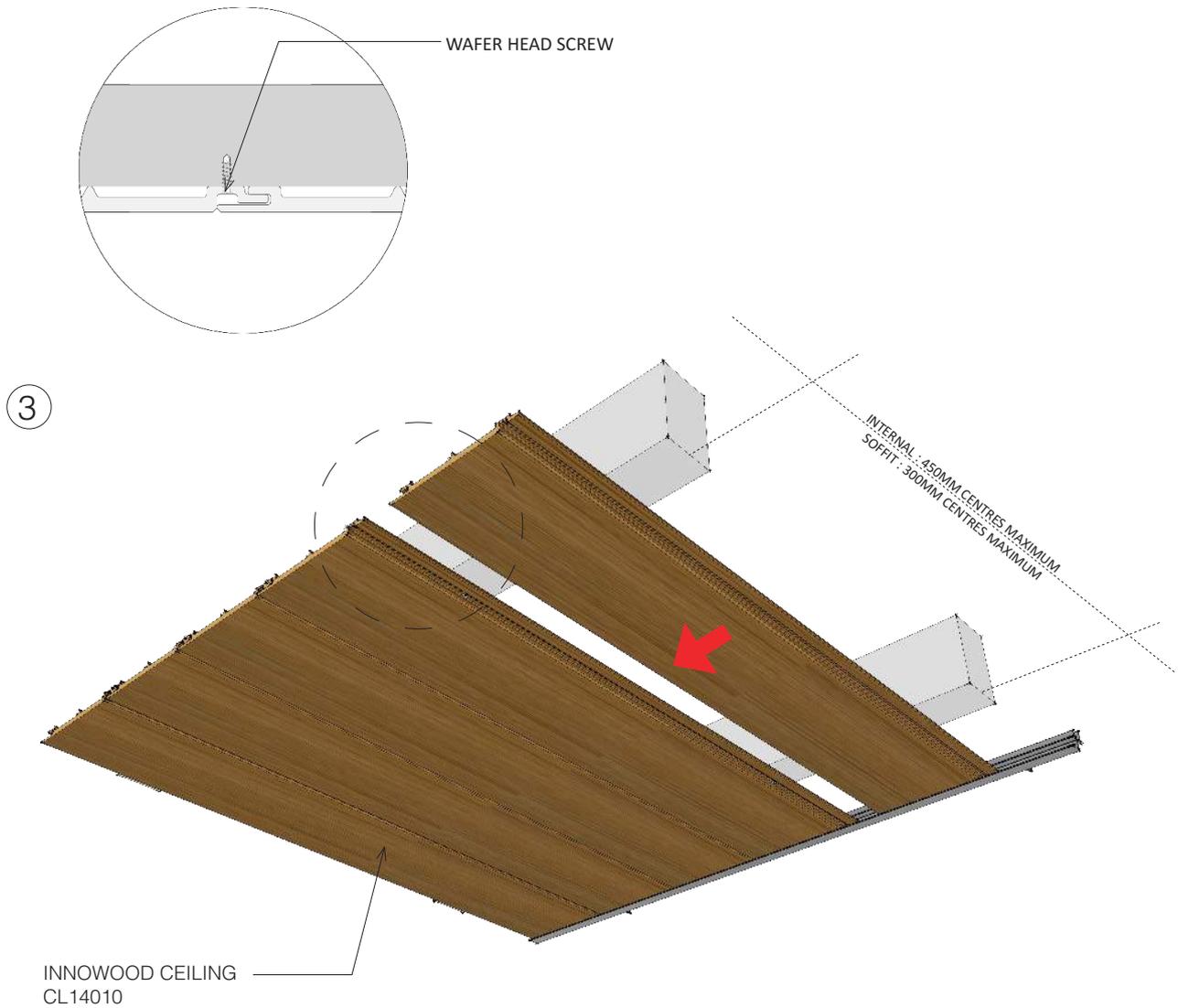
- Pre-drilling is essential.
- All screws are minimum 15mm but maximum 25mm away from board edges.

SHIPLAP FIXING

Please note that the following instruction is also applicable for CL14010/CL17012/CL16728/CL27765.



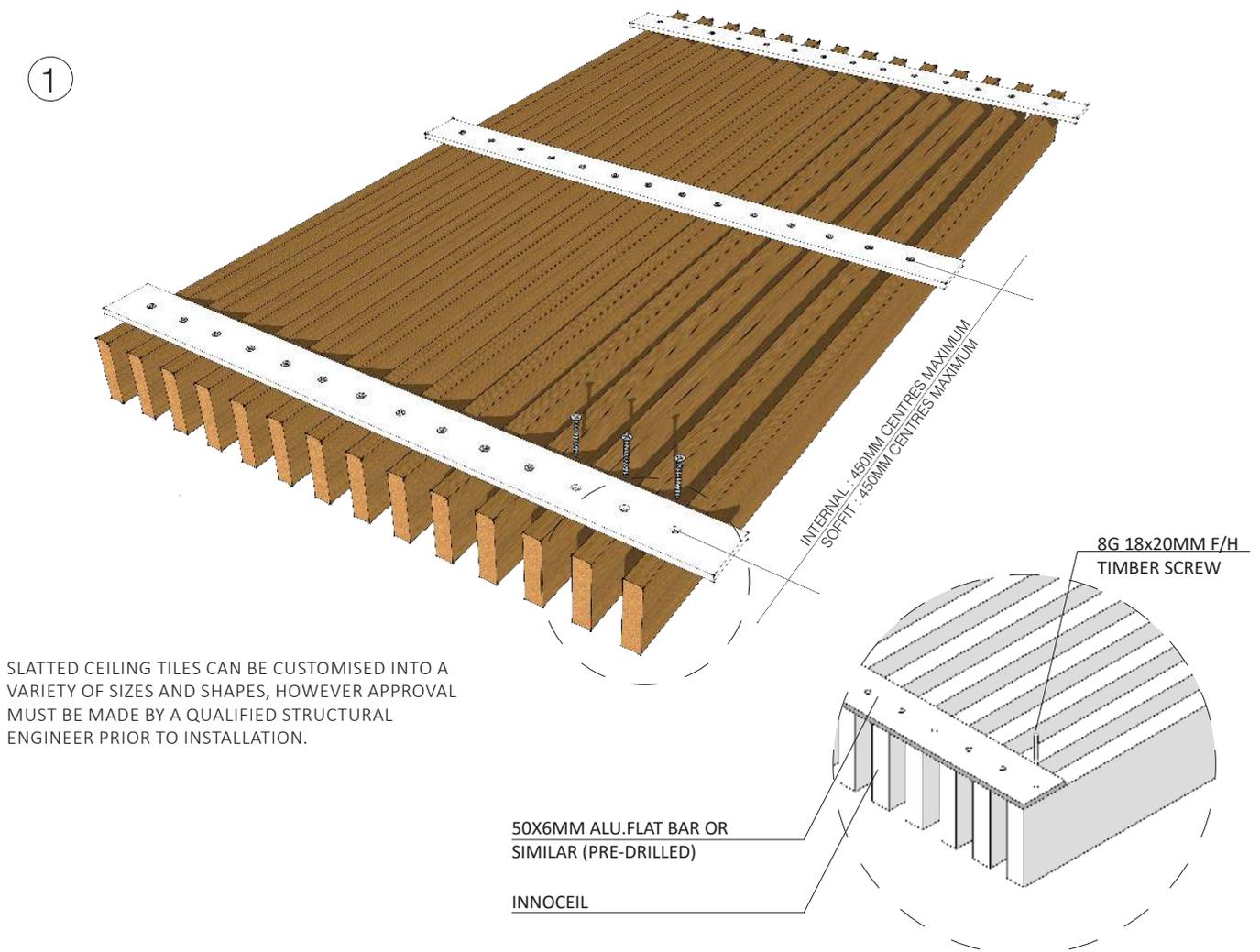
1. Use a string, spirit or laser level to establish the starting point of the ceiling. Use wafer head screw to fix the first ceiling board through the edge both sides, be careful not to break the tongue of the starting board.
2. Joists span is set to no more than 450mm centres for internal application and 300mm centres for soffit. Ensure the screw head is flushed with board surface to allow the adjacent board to slide in.



3. Position the second ceiling board into the groove of the first board and temporarily hold it in place. Use wafer head screw to screw fix the second board onto the back-structure.
- 3a. Repeat this step until the ceiling is fully installed. Use appropriate cornice to finish off if necessary.

SLATTED FIXING

Please note that the following instruction is also applicable for CL06516/CL09028/CL10050/CL12530/CL15050

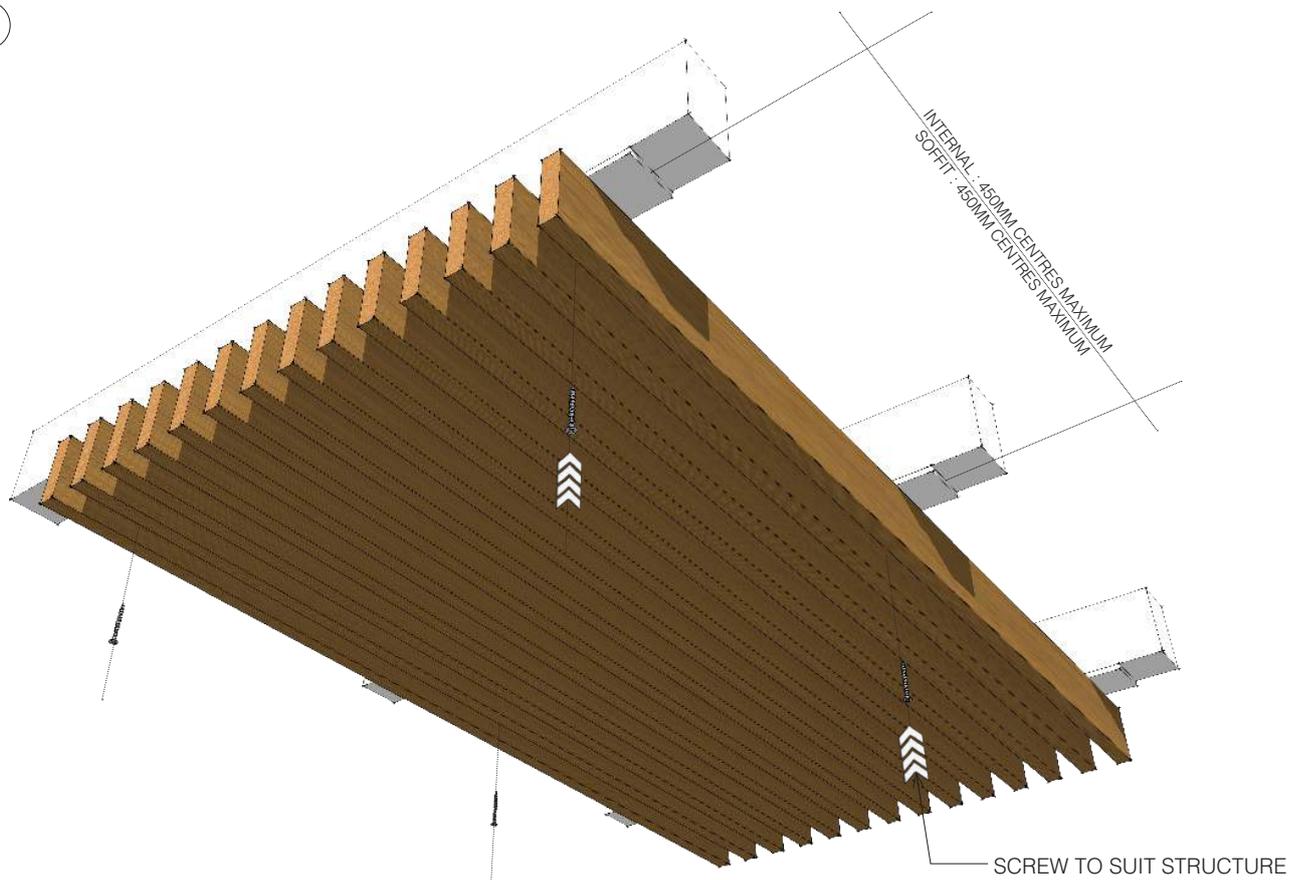


1. Use a proper tool to define the gap between each INNOCEIL batten.
Screw fix the battens with flat-bar (or similar structural support) from the back.

NOTE

- Pre-drilling is essential.
- All screws are minimum 15mm but maximum 25mm away from board edges.

②



2. Temporarily hold the prepared panel in place and screw fix flat-bar/structural support onto the back structure through the gap between battens. Ensure the fixing span is no more than 450mm for both internal and soffit application.

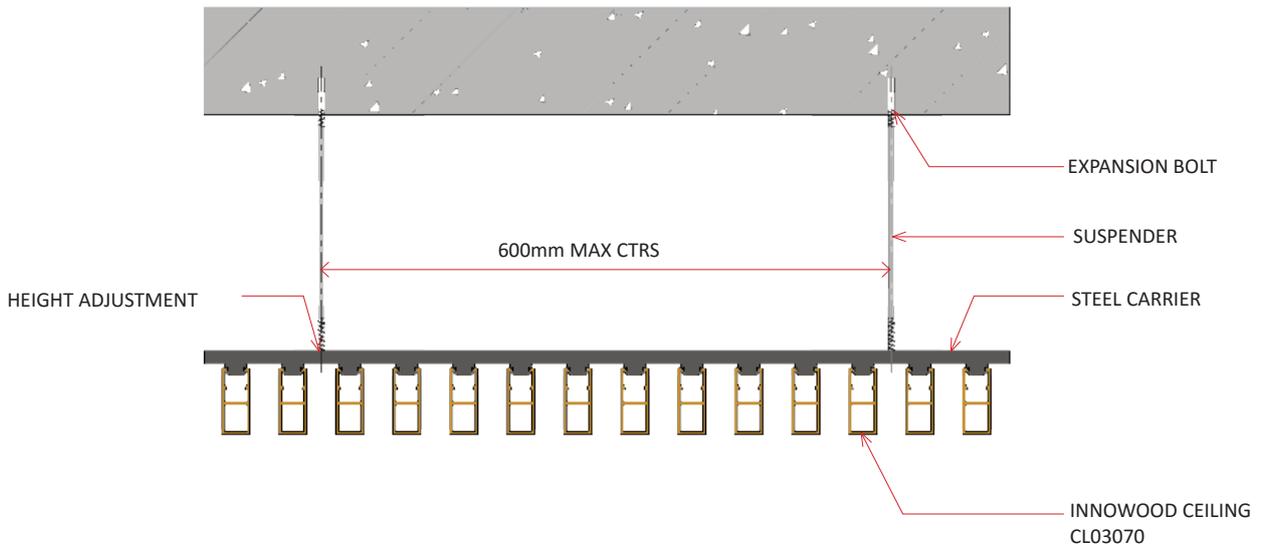
NOTE

- Pre-drilling is essential.
- All screws are minimum 15mm but maximum 25mm away from board edges.

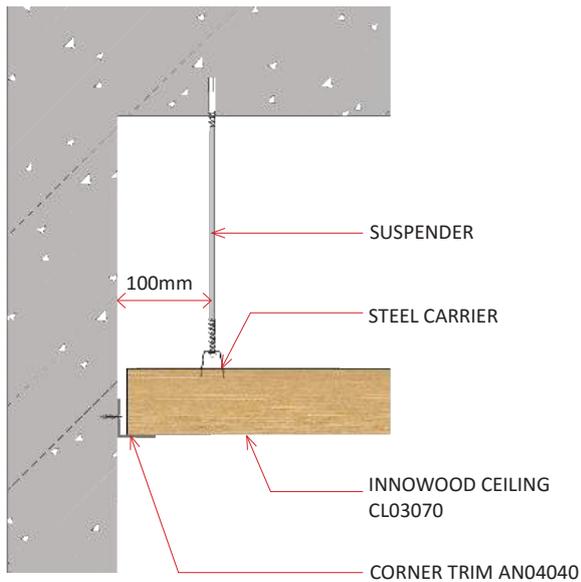
SUSPENDED CLICK ON FIXING

Please note that the following instruction is also applicable for CL02050/CL03070.

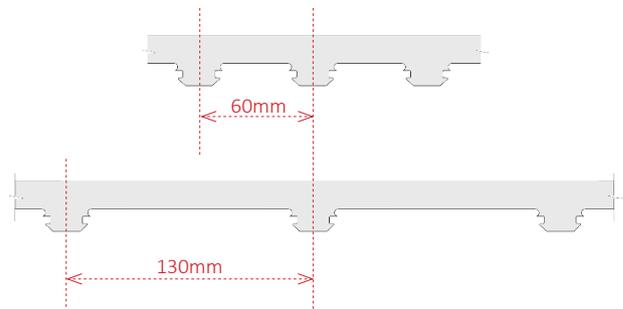
INSTALLATION PROCESS:



END FINISHES:



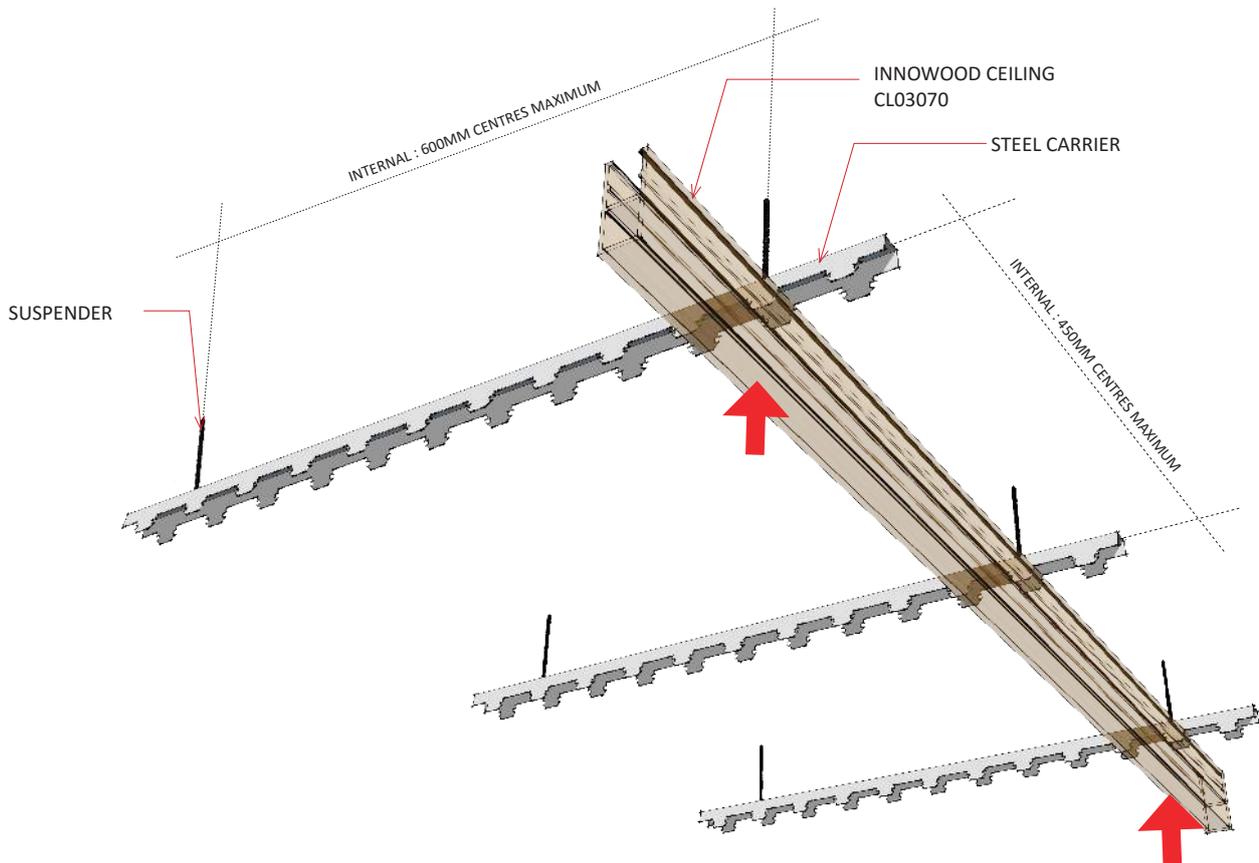
AVAILABLE STEEL CARRIER:



SUSPENDED CLICK ON FIXING

Please note that the following instruction is also applicable for CL02050/CL03070.

①

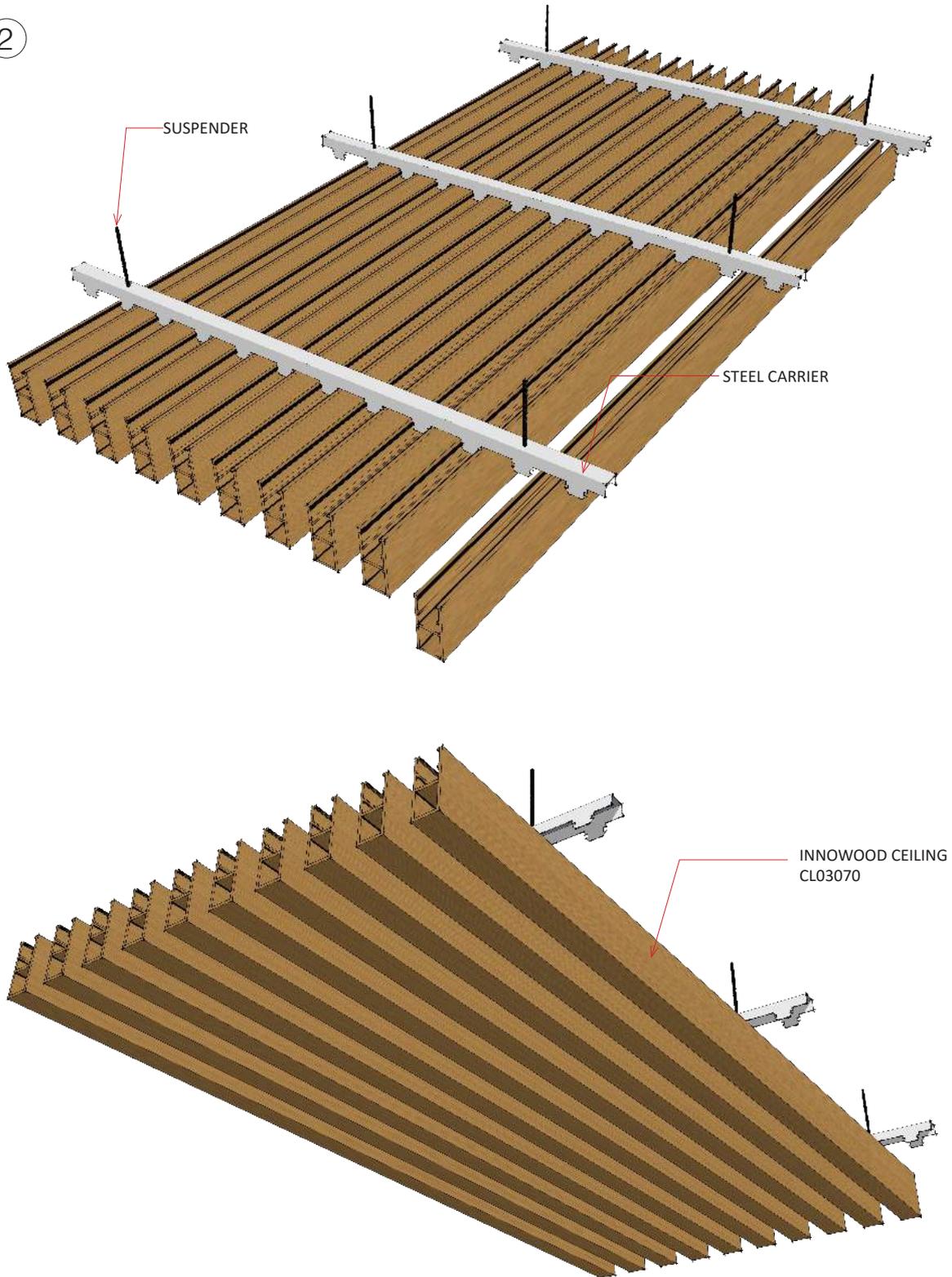


1. Set the height of the ceiling and install the corner trim if required.
2. Install the first row of steel carrier with a distance of 100mm away from the walls. The intervals between 2 rows of carrier are no more than 450mm.
3. Adjust the height of the steel carrier into the same level by adjusting the screws on the suspenders. The intervals between 2 suspenders are no more than 600mm.
4. More carriers or suspender sets will be required if there are cut outs or penetration for downlights, extractors or other electric ceiling products.

SUSPENDED CLICK ON FIXING

Please note that the following instruction is also applicable for CL02050/CL03070.

②

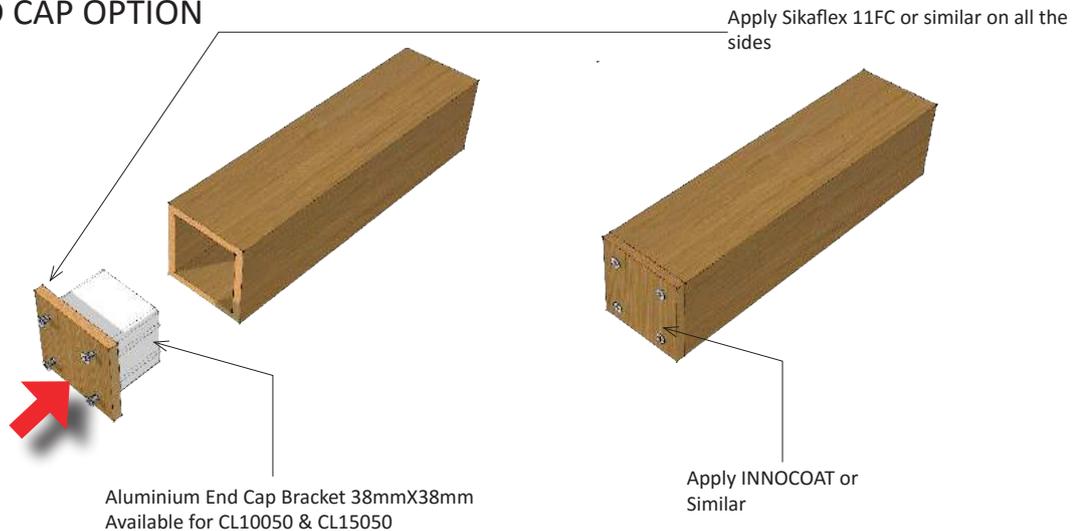


END CAPS & EDGE TRIM

Instruction for closing off hollow INNOWOOD sections

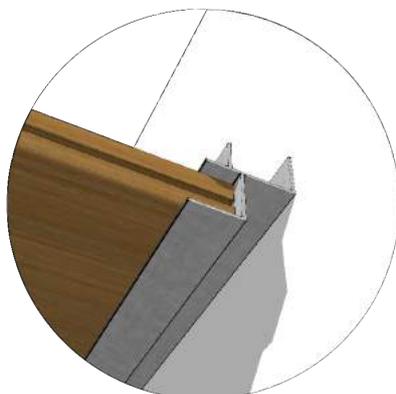
The following is the epoxy method used to create a closed ended section.

① END CAP OPTION

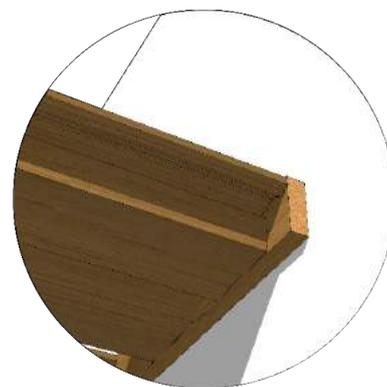


1. Ensure the end of the hollow profile is cleanly cut, dry and free from dust.
2. Screw fix the Endcap bracket 38mmX38mm box section on to the endcap cover piece as show in fig above.
3. Apply Sikaflex 11FC epoxy or similar to both mating surfaces, profile and cover piece.
4. Firmly press both surfaces together and wipe away any excess epoxy.
5. Continue to apply pressure until the cover piece is firmly in place.
6. If the cover piece requires slight shaping, carefully sand the square corners as required.
7. Ensure the 4 sides of the cover piece are clean, dry and free from dust.
8. Then carefully apply InnoCoat to the uncoated sides of the cover piece.
9. For other hollow profiles like CL09028 and CL12530, glue fix end cap option is available.

② EDGE TRIM OPTIONS



Option of Aluminium Edge Trim



Option of Timber Batten Trim



FOR MORE INFORMATION, PLEASE VISIT INNOWOOD AT
WWW.INNOWOOD.COM
OR CALL 1300 787 717