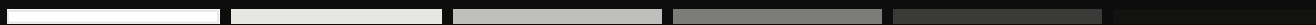


PuraComposite™

Technical Installation Guide

PRODUCT **PuraTech™**



FIXING SYSTEM

PuraFix™ screws

APPLICATION

Cladding

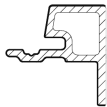
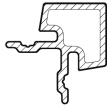
READ

In full before use

Cladding parts

01 / 05

The PuraTech™ cladding system is fixed with two PuraFix™ screw types and two profile trims. Use only the fixings and trims listed below; substituting fasteners voids the warranty.

PART	PURPOSE	PROFILE
PuraFix™ concealed screw M4×30 · SS304	Concealed fixing of trims and boards into timber battens, through the board groove.	
PuraFix™ coloured screw M5×60 · SS316	Face-fixing the last boards next to trims into timber battens; colour-matched head.	
PuraTech™ End Trim Profile	First and last board for vertical installations; first board for horizontal installations.	
PuraTech™ Corner Trim Profile	Outside corners for vertical installations.	

Before you begin

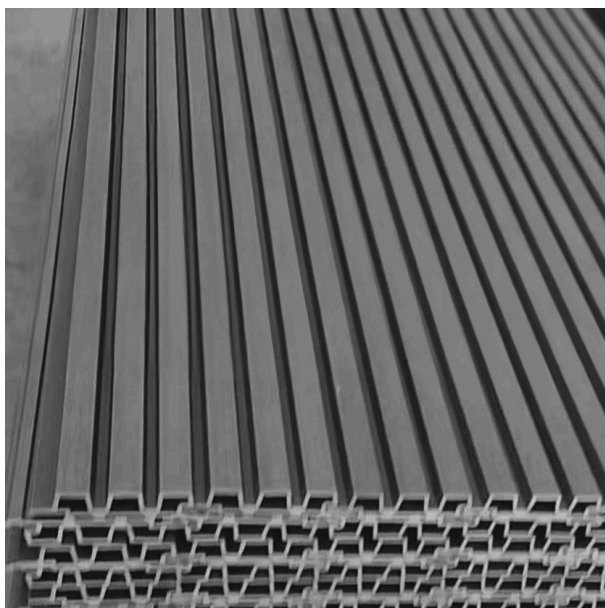
Composite wood is sensitive to creep. Store, handle and support the boards correctly, and assemble the right tools and batten framework before starting.

! IMPORTANT

Read this chapter and the next in full before installation. PuraTech™ boards must be stored flat and supported along their entire length — incorrect storage or an inadequate batten frame can cause permanent deformation that is not covered by the warranty.

— STORAGE & HANDLING

- **Store boards flat.** Support board pallets along their entire length; never store on edge or unsupported.
- **Keep the tarpaulin on.** Leave the pallet tarpaulin in place during work as protection.
- **Do not stack loads.** Avoid placing any load on top of board pallets.
- **Carry on edge.** Carry boards one by one, or two by two, on their edges.



BOARDS STORED FLAT AND FULLY SUPPORTED



RADIAL ARM SAW AND SR2 POWER SCREWDRIVER

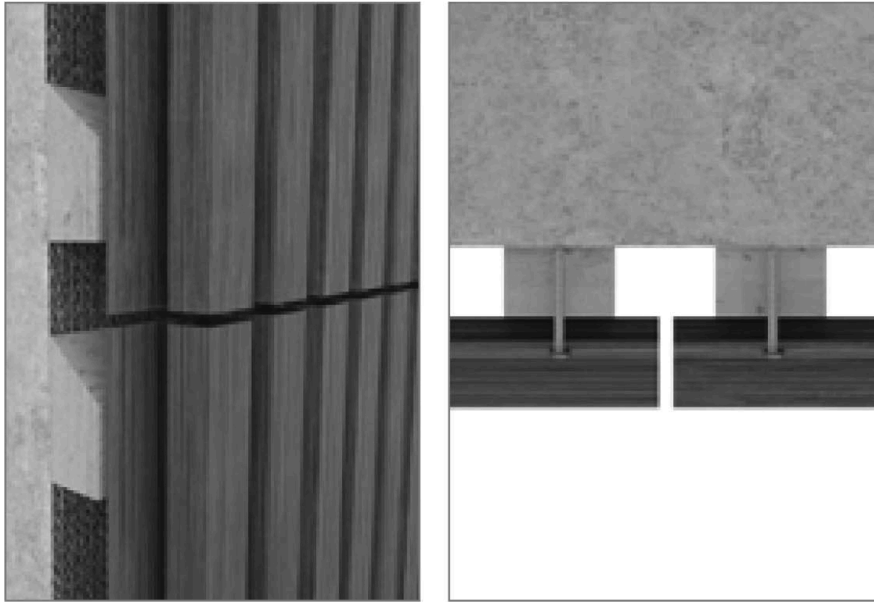
— TOOLS

- **Radial arm saw on table.** For calibrating and cutting boards to clean, square joints.
- **Power screwdriver with SR2 bit.** The SR2-type bit is supplied in the box of PuraFix™ screws.

— BATTENS

- **Horizontal installation.** Calibrated Class 2 battens, minimum section 27×40 mm.

- **Vertical installation.** Calibrated, fast-draining Class 2 battens (minimum section 27×40 mm) or Class 3.
- **Dual battens at junctions.** Fit dual battens at every board junction.
- **Bracket spacing.** Space brackets at 40–60 cm.



DUAL BATTENS AT BOARD JUNCTIONS, 40–60 CM SPACING

Preparation & site rules

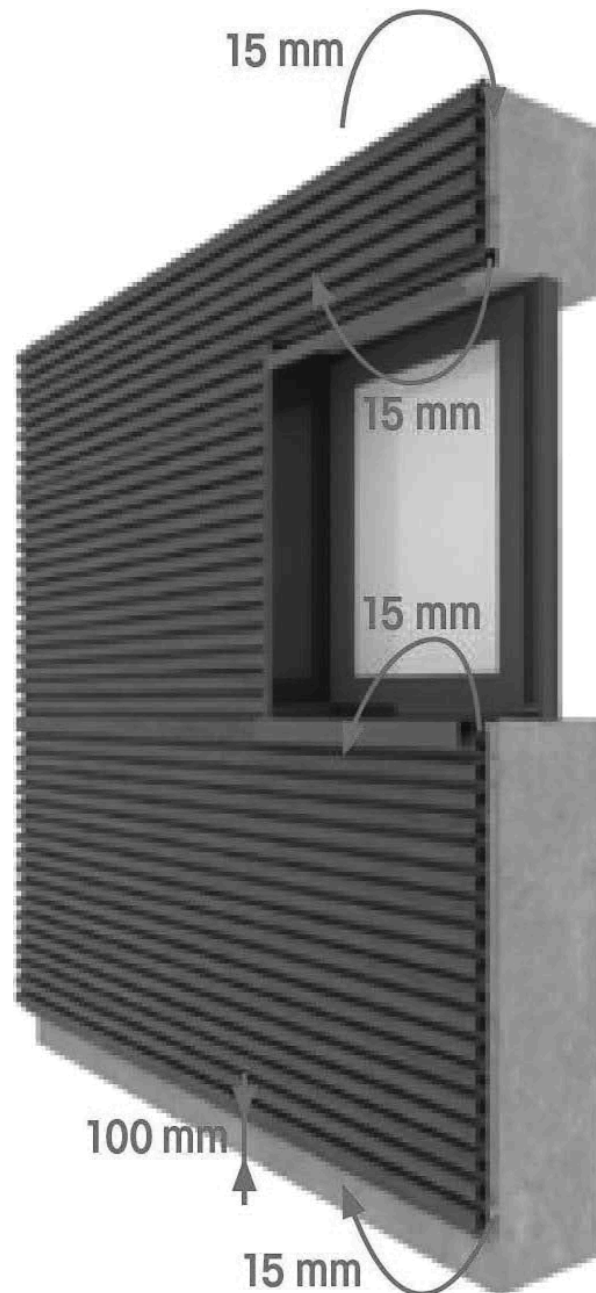
Calibrate every board, provide the required ventilation, fix correctly and leave the right expansion clearances. These rules apply throughout the installation.

— CUTTING

Each board must be calibrated before installation. Boards may carry an oversize of up to 10 mm, so cut them to the required dimension for clean joints.



CALIBRATE AND CUT EACH BOARD TO SIZE



GROUND CLEARANCE 100 MM; 15 MM HIGH/LOW VENTILATION

— VENTILATION

VENTILATION	
Ground clearance	100 mm
High & low ventilation (parapet, shutter piece & window head)	15 mm
Air space between wall and covering	min 20 mm

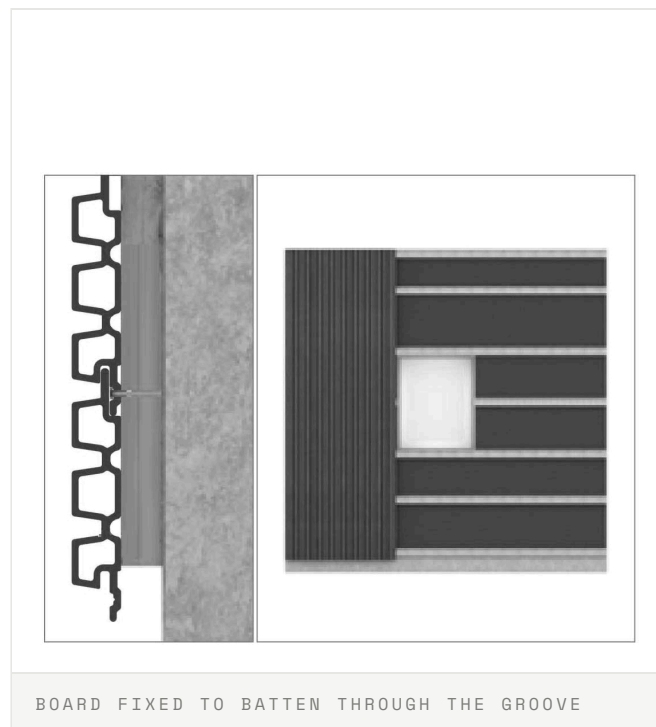
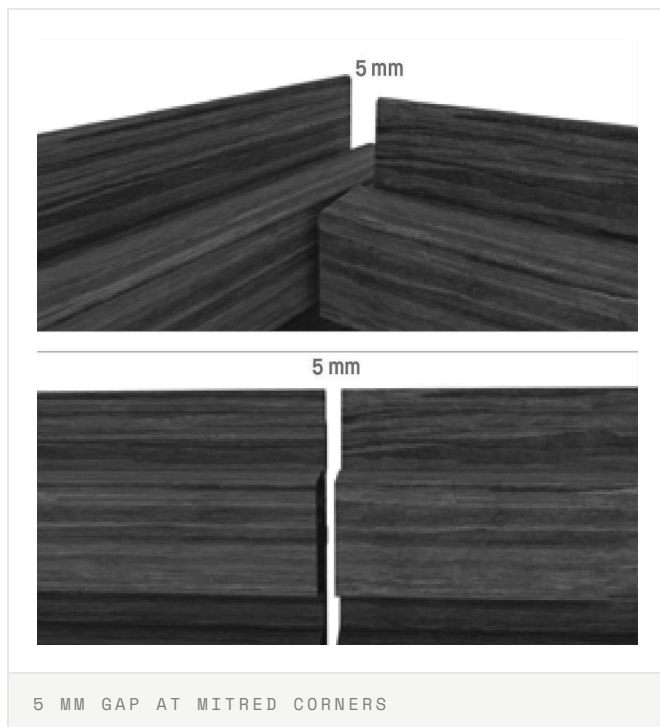
— FASTENING ON WOODEN SUPPORTS

For best results use PuraFix™ self-drilling screws:

PROPERTY	VALUE
Material	SS304, self-drilling tip
Size	4.0 × 30 mm
Threading	wood / aluminium
Cavity	SR2
Head diameter	8.0 mm
Body diameter	4.0 mm
Drilling diameter	3.0 mm

! IMPORTANT

The screw head must rest on the cladding board but exert no force on it — over-tightening can initiate cracking. Leave a 15 mm setback at the end of each board to prevent cracking.



— EXPANSION – CLEARANCE RULE

Maintain a clearance of 5 mm between each end of the boards and every obstacle encountered — carpentry, wall, angle, adjacent board and the like.

— INSTALLATION DIRECTION

- **Horizontal installation.** Position the groove at the bottom and the tongue at the top.
- **Vertical installation.** No specific direction.

— AGEING & UPKEEP

The polyethylene protective film from the co-extrusion process guarantees UV resistance for 20 years without apparent fading. Clean with water (high-pressure washer) as required, depending on dirt build-up and the facade's exposure.

Vertical installation

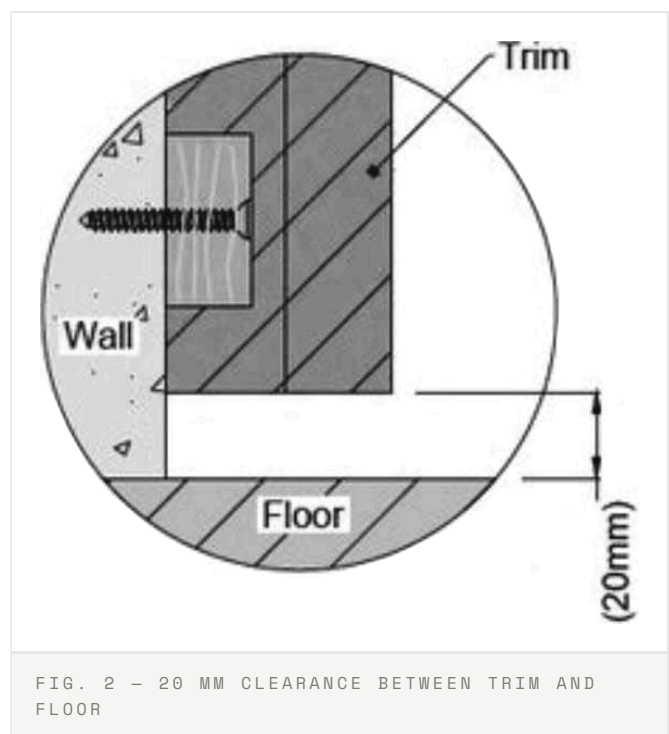
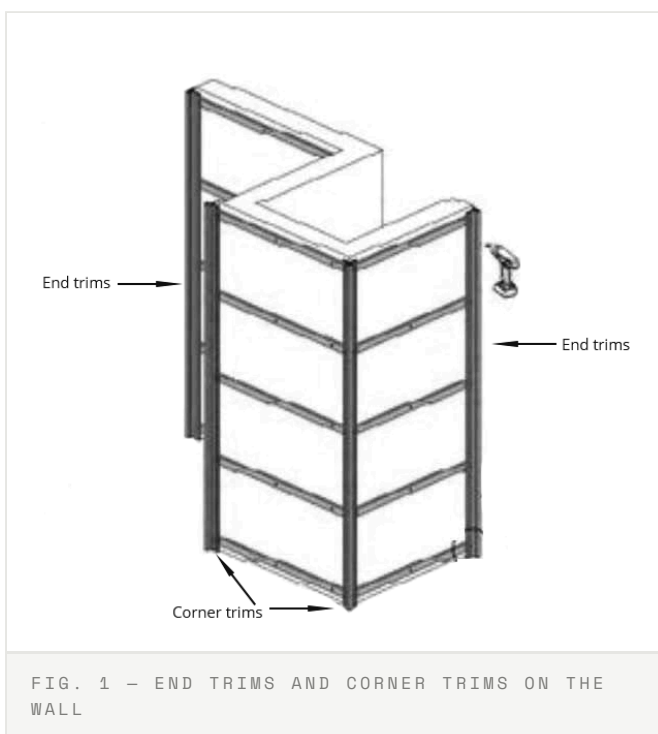
Fix the trims first, set the starting board according to the wall type, then work board by board to the final board at each corner.

1 • Trim installation

- 01 Securely attach the end trim to the batten at the outermost edge of the wall. Keep it straight and level, fasten it securely for a clean finish, then mark the position with pencil or chalk.
- 02 Pre-drill pilot holes 500–1000 mm apart (fig. 1) with a drill bit slightly smaller than the fixing screws, to stop the board splitting.
- 03 Place the end trim on the wall and drive the fixing screws through the pilot holes. Tighten securely but do not over-tighten, which can damage the board.
- 04 Affix the corner trims to the battens at the outside corners of the wall (fig. 1).

NOTE

A minimum gap of 20 mm (3/4") must be left between the bottom of the trims and the floor (fig. 2). Securely fastened, aligned trims are essential to the stability and appearance of the cladding system.



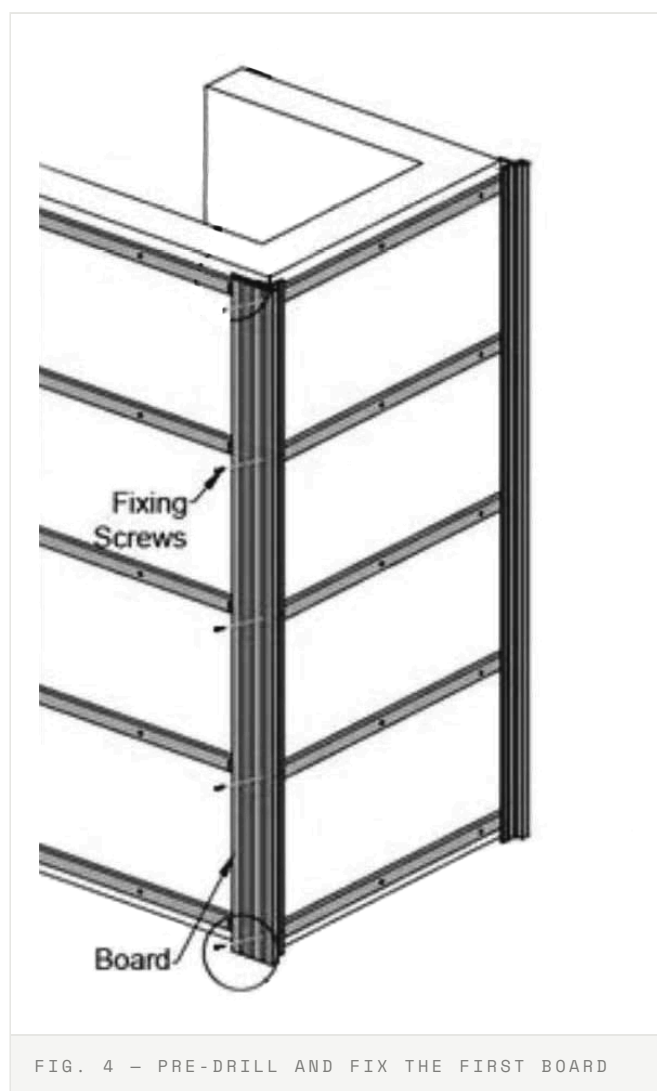
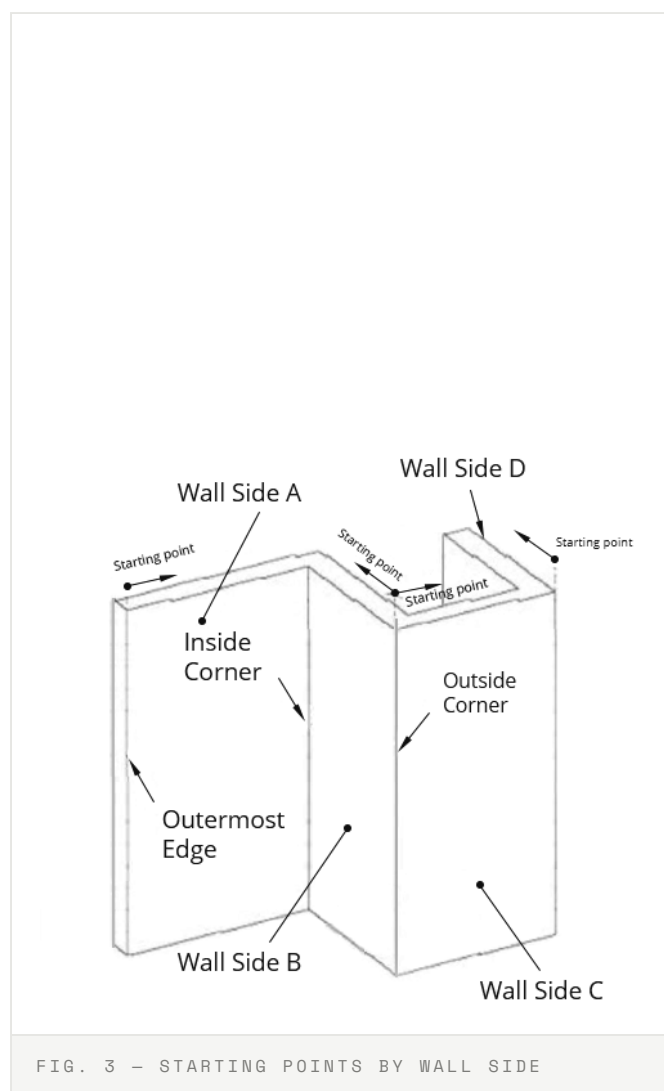
2 • Installing the first board

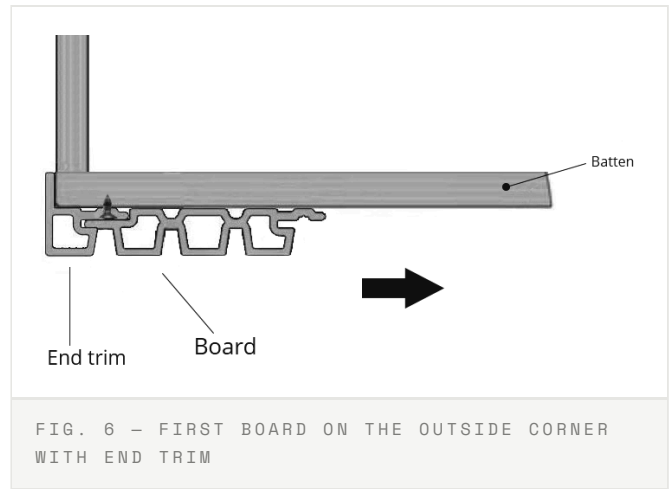
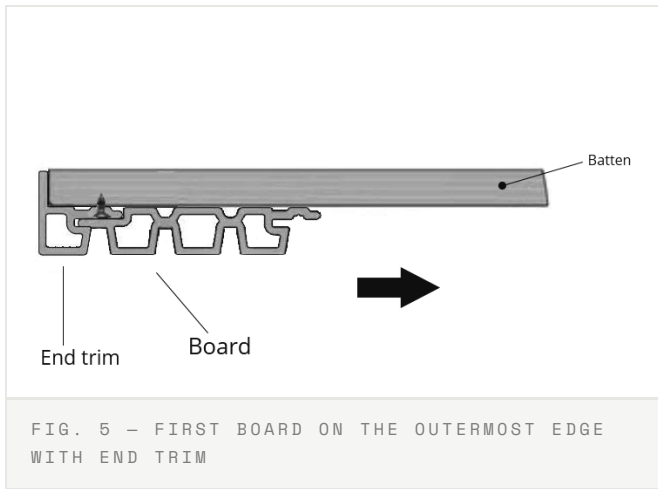
Set the starting point and direction by wall type (fig. 3):

- **Outermost edge to inside corner.** Start from the outermost edge.
- **Inside corner to outside corner.** Start from the outside corner.
- **Between two outside corners.** Start from either outside corner.
- **Outside corner to outermost edge.** Start from the outside corner.

01 Once the starting point and direction are set, pre-drill pilot holes with a bit slightly smaller than the fixing screws. Drill straight to avoid damaging the trim.

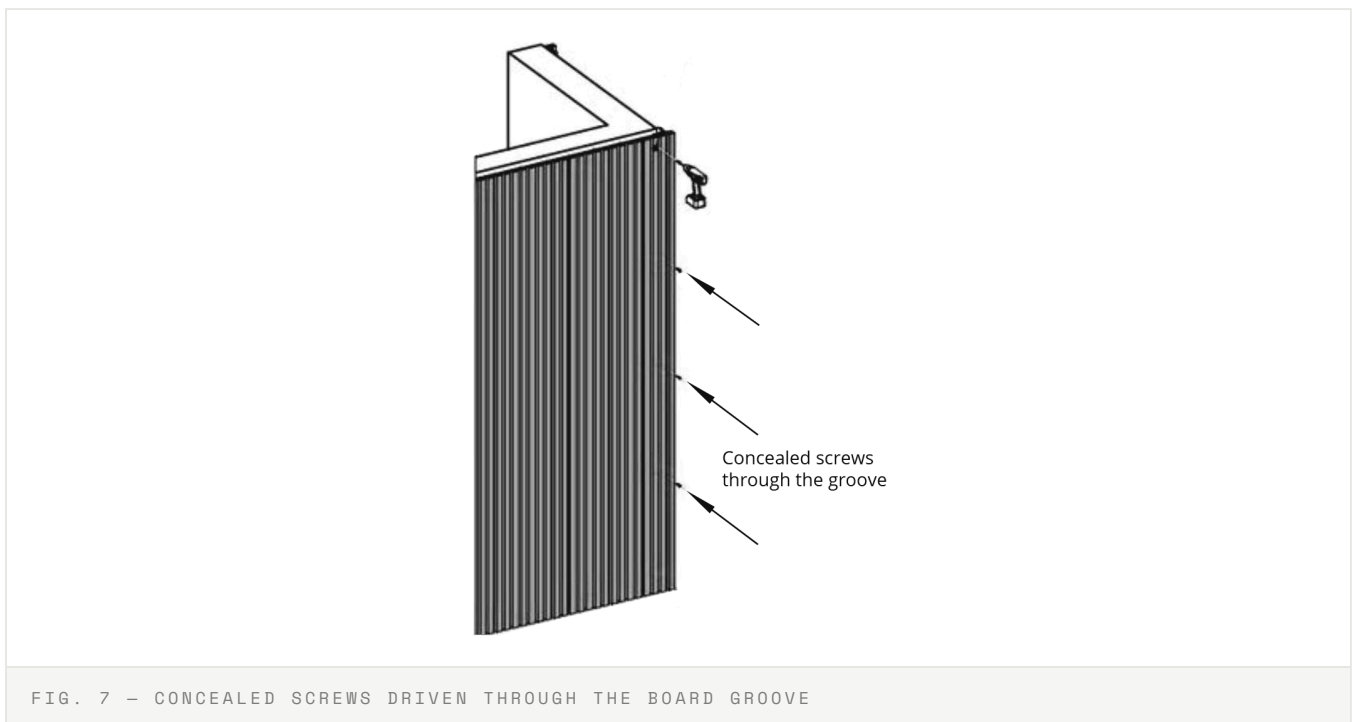
02 Position the tongue of the first board over the trim, then secure the board by screwing its grooved side onto the batten.





3 · Installing the cladding boards

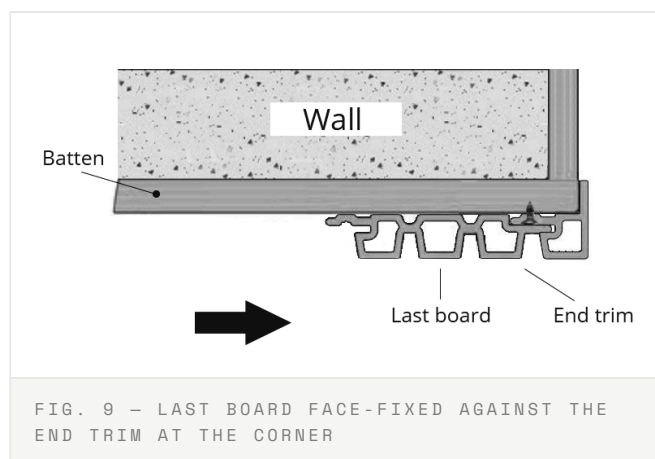
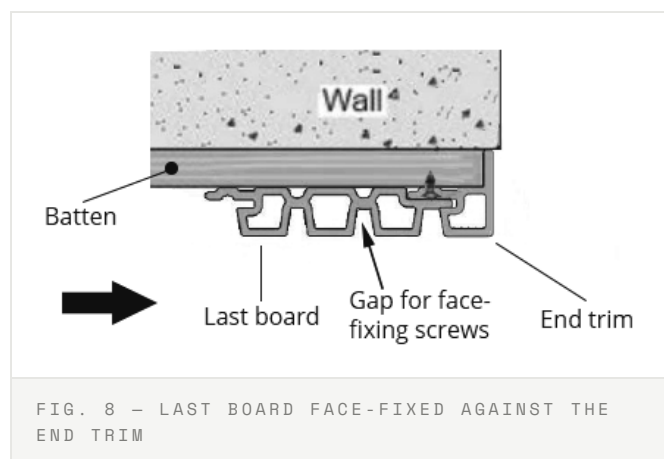
- 01 Position the board snugly against the batten and trim for a flush fit.
- 02 Pre-drill pilot holes with a bit slightly smaller than the fixing screws. Drill straight to avoid damaging the trim.
- 03 Place the board back against the batten and drive the concealed screws through the pilot holes into the batten. Fasten securely without over-tightening (fig. 7).
- 04 Check the alignment and that the trim is secure. Repeat until only space for one more board remains.



4 · Last board on outside corners

The last board is face-fixed rather than concealed, because the concealed system needs several boards to hold the screws.

- 01 If less than a full board width remains, mark and cut the last board precisely on its groove side with a power saw.
- 02 Position the cut board and fix it with colour-matching PuraFix™ screws in the gap between the board slats. Space the screws evenly to prevent warping.



5 • Last board on inside corners

No trim is needed at the inside corner.

- 01 At the last board toward the inside corner from the end trim, measure and record the distance between the adjacent batten and the board (fig. 10).
- 02 Leave a minimum gap between wall and board so a slat gap stays exposed for face-fixing: 57 mm for PuraTech™ 30, 80 mm for PuraTech™ 55.
- 03 Pre-drill holes at the marked positions with a bit slightly smaller than the face-fixing screws, to stop the board splitting.
- 04 Place the board and drive the face-fixing screws through the pilot holes. Tighten securely without over-tightening (fig. 11).
- 05 If less than a full board remains, cut the board at any point after the first slat gap (from the tongue side) so there is room to fit the screw (fig. 12).

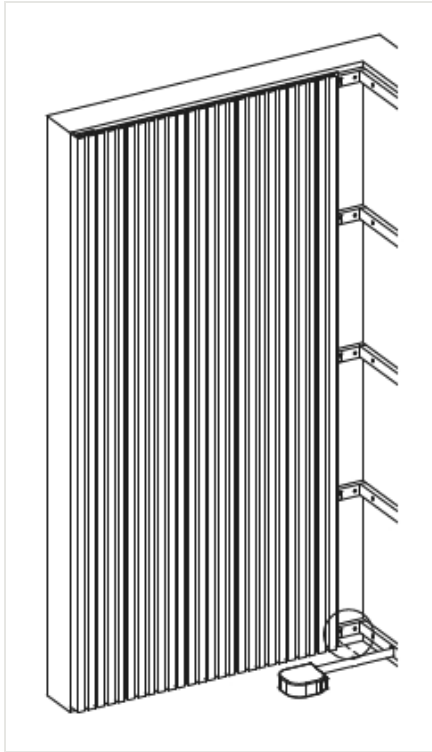


FIG. 10 - MEASURE BATTEN-TO-BOARD DISTANCE

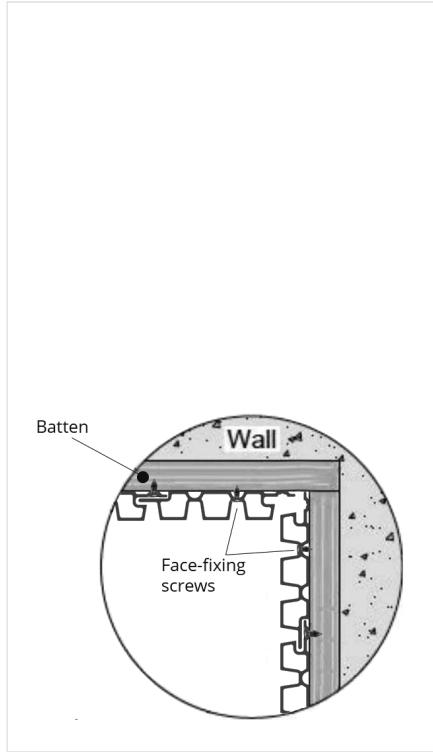


FIG. 11 - FACE-FIX THROUGH THE EXPOSED SLAT GAP

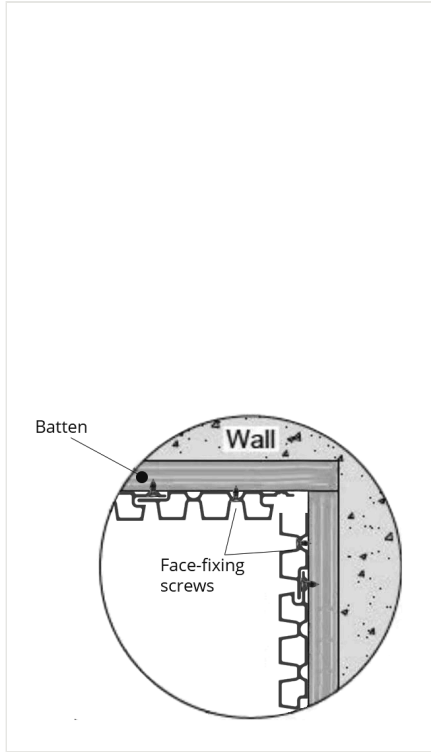


FIG. 12 - CUT AFTER THE FIRST SLAT GAP

Horizontal installation

Horizontal installation follows the vertical method, differing only in the first and last steps. For the shared steps, refer to the vertical-installation chapter.

BEFORE YOU START

Orientation matters: for horizontal boards the groove sits at the bottom and the tongue at the top (see Installation direction).

1 • Trim installation

- 01 Securely attach the end trim to the batten at the top of the wall. Keep it straight and level and fasten it snugly for a clean finish.
- 02 Affix the corner trims to the battens at the corners of the wall, with each screw 500–1000 mm apart.

NOTE

A minimum gap of 20 mm (3/4") must be left between the top of the end trim and the ceiling. Securely fastened, aligned trims are essential to the stability and appearance of the cladding system.

2 • Installing the first board

- 01 Position the tongue of the first board over the trim, then secure the board by screwing its grooved side onto the batten.

NOTE

Pre-drill the fixing holes in the first board before installation to allow for expansion and contraction.

3 • Installing the cladding boards

Follow the same process as for vertical installation (chapter 04).

4 • Installing the last board

- 01 For a perfect fit, cut the groove of the last board and face-fix it. If it does not fit, cut off the excess, leaving at least 57 mm for PuraTech™ 30 and 80 mm for PuraTech™ 55 so a slat gap stays exposed for screwing.
- 02 Position the cut board and fix it with colour-matching PuraFix™ screws in the gap between the slats. Space the screws evenly to prevent warping.

NOTE

A minimum gap of 20 mm (3/4") must be left between the top of the end trim and the ceiling.

PuraComposite™

SUSTAINABLE SOLUTIONS

For technical datasheets, warranty terms, BIM/CAD files and sample requests, contact PuraComposite or visit puracomposite.com.

sales@puracomposite.com

