

# SCREENING

PRODUCT GUIDE  
INSTALLATION  
TECHNICAL SPECIFICATIONS  
CARE & MAINTENANCE

## IMPORTANT NOTE – READ ALL SECTIONS BEFORE INSTALLATION

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## Important Notes

**Read all sections before installation.**

### Liability & Compliance

Before installing any COEN composite screening system, consult the National Construction Code (NCC) / Building Code of Australia (BCA) and your local council's specific regulations or restrictions, as these vary by state, region, and wind classification. The diagrams and instructions in this guide are for illustrative purposes only and are not a substitute for professional advice. All construction involving COEN products must comply with applicable local zoning and building codes.

The consumer accepts all risks and liability associated with the installation and use of this product.

### Safety Guidelines

As with any construction project, proper safety precautions are essential. COEN recommends the following safety gear when handling, cutting, and installing its products:

- Gloves
- Respiratory protection / dust mask
- Long sleeves and pants
- Safety glasses
- Ear protection (when cutting or drilling)

Use of additional protective equipment may be required depending on the work environment.

#### Installation Environment

Ensure your installation surface is clean, flat, smooth, and structurally sound. Always verify compliance with local building codes before beginning installation. If installation is delayed, store COEN products on a flat surface — never on uneven ground (see Storage, page 9).

### Planning Your Project

Careful planning will help you achieve the best results. Since most screening structures are considered permanent (anchored or attached to a dwelling), permits and inspections are typically required. To avoid issues:

Create a detailed site plan before starting construction

Review local building and zoning requirements

Factor in layout, drainage, and access

Tip: Before using a pressure washer on your screening, test it on a scrap piece to ensure it won't damage the product's finish.

### Heat & Fire Exposure

COEN products may be affected by high surface temperatures from external heat sources, including fire and reflected sunlight. A particular concern is Low-Emissivity (Low-E) glass, commonly used in energy-efficient windows, which reflects sunlight and can cause extreme heat buildup on nearby surfaces. This excessive heat — beyond typical environmental exposure — may result in melting or warping, sagging or discolouration, accelerated weathering, and increased expansion and contraction.

If you suspect Low-E glass may impact your COEN installation, contact the glass manufacturer to explore options for reducing or eliminating heat reflection.

### Construction Limitations

COEN screening battens must not be used as:

- Structural columns or support posts
- Beams or joist stringers
- Any other primary load-bearing component

All COEN products must be installed on a compliant substructure. COEN products are not suitable for installation over existing screening or cladding.

## Static Electricity

In dry or high-altitude areas, static electricity may occur more frequently. Contact with metal objects like railings or furniture can cause minor shocks. To reduce static:

- \* Apply anti-static spray to the screening surface
- \* Place anti-static mats at entrances

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This excessive heat — beyond typical environmental exposure — may result in:

- \* Melting or warping
- \* Sagging or discolouration
- \* Accelerated weathering
- \* Increased expansion and contraction

If you suspect Low-E glass may impact your COEN installation, please contact the glass manufacturer to explore options for reducing or eliminating heat reflection.

## Fastening Guidelines

To ensure a secure and clean installation of COEN products:

- \* Screws must be driven at a 90-degree angle into the screening surface.
- \* Toe-screwing is not permitted. If a straight angle isn't possible, install an additional joist to support proper screw placement.
- \* Each fastener must be on its own joist, and when two board ends meet, they must be supported by a sister batten, ensuring each end is independently supported.

## Chalk Lines:

Only use white chalk or guides like string lines or straight boards for marking.

Do not use coloured chalk — it can permanently stain COEN surfaces.

## Screw Type:

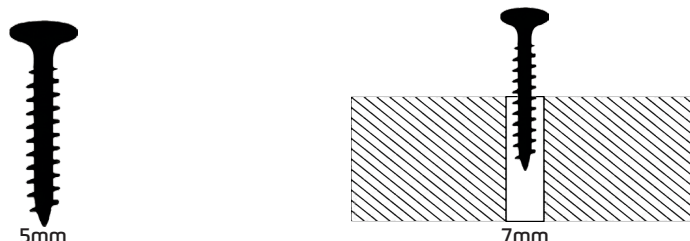
- \* Always use stainless steel screws for face-fastening.
- \* Composite-specific screws are strongly recommended for the best finish. Check with your local hardware supplier to ensure compatibility.
- \* If face-fastening results in bulging or “mushrooming”, gently tap the affected area with a rubber mallet to flatten it and achieve a clean appearance.

Using screws not designed for composite screening may result in damage. If you're unsure which fasteners to use, consult the product manufacturer for guidance.

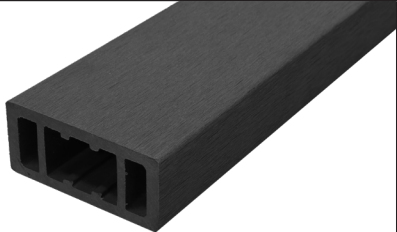
## Fixing

When face-fixing COEN Screening, it's recommended to drill a clearance hole in the batten slightly larger than the screw shank. When rear-fixing COEN Screening, it's recommended to drill a clearance hole slightly larger in the frame than the screw shank. This allows the material to expand and contract naturally with temperature changes, helping to prevent cracking or deformation. Hollow Battens without internal supports must be face fixed. Maximum distance from the end of the screening batten to the fixing is 20mm.

Refer to the diagram below for visual guidance on proper clearance hole technique.



## SCREENING PARTS

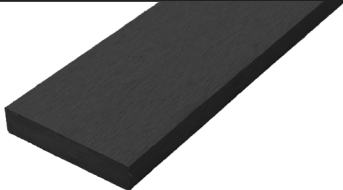
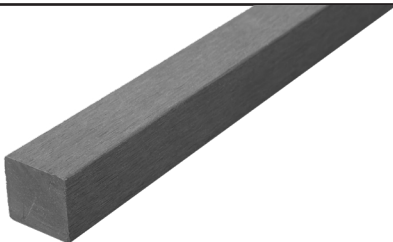
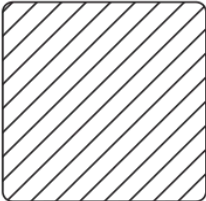
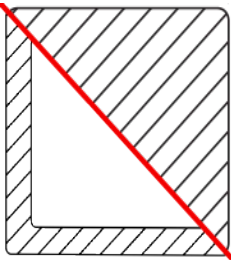
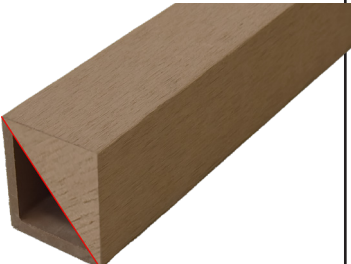
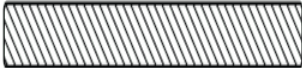
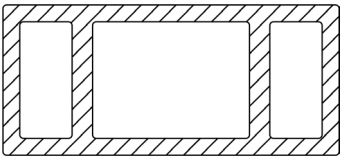
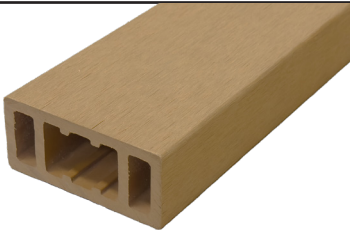
| PRODUCT          | PURPOSE                                                                      | IMAGE                                                                                |
|------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| SOLID SCREENING  | Solid Screening Batten used in high traffic areas, ballustrades and fencing. |   |
| HOLLOW SCREENING | Hollow Screening Batten used in low traffic areas and fencing.               |  |

## SCREENING SCREWS\*

| PURPOSE                                     | TIMBER FRAME                                                                        | METAL FRAME                                                                           |
|---------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Used when installing screening onto battens |  |  |

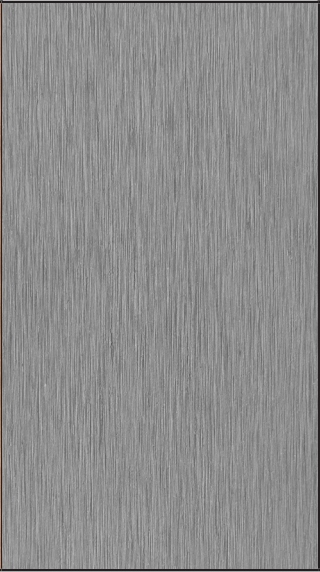
\*Note: All screws are based on our recommendation and if the installation requires something different than what is shown, a professional should be consulted before installing. The following installation guide will use the above screw sizes.

## SCREENING PROFILES

| PRODUCT                                     | PROFILE                                                                             | IMAGE                                                                                 |
|---------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 72x12 SOLID<br>4m<br>GEN 1 & 2              |    |    |
| 30x30 SOLID<br>3m or 4m<br>GEN 1            |    |    |
| 40x40 SOLID<br>1.8m, 3m, or 4m<br>GEN 1 & 2 |  |  |
| 50x50 HOLLOW / SOLID<br>4m<br>GEN 1         |  |  |
| 75 x 25 SOLID<br>4m<br>GEN 1                |  |  |
| 90 x 40 HOLLOW<br>4m<br>GEN 1 & GEN 2       |  |  |

Other profiles available upon request.

## SCREENING COLOURS

| SELECT SCREENING COLOURS*                                                          |                                                                                    |                                                                                     |                                                                                      |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| OAK                                                                                | JARRAH                                                                             | ASH GREY                                                                            | CHARCOAL                                                                             |
|  |  |  |  |

| GEN 2 SCREENING COLOURS*                                                            |                                                                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| BEACH                                                                               | MARINE TEAK                                                                          |
|  |  |

\*Colours are a reference only and may vary to actual product.

## Framing

Step 1: Determine the screening span — (the distance between each framing batten.)

Important: Ensure the frame is completely square before installing any battens.

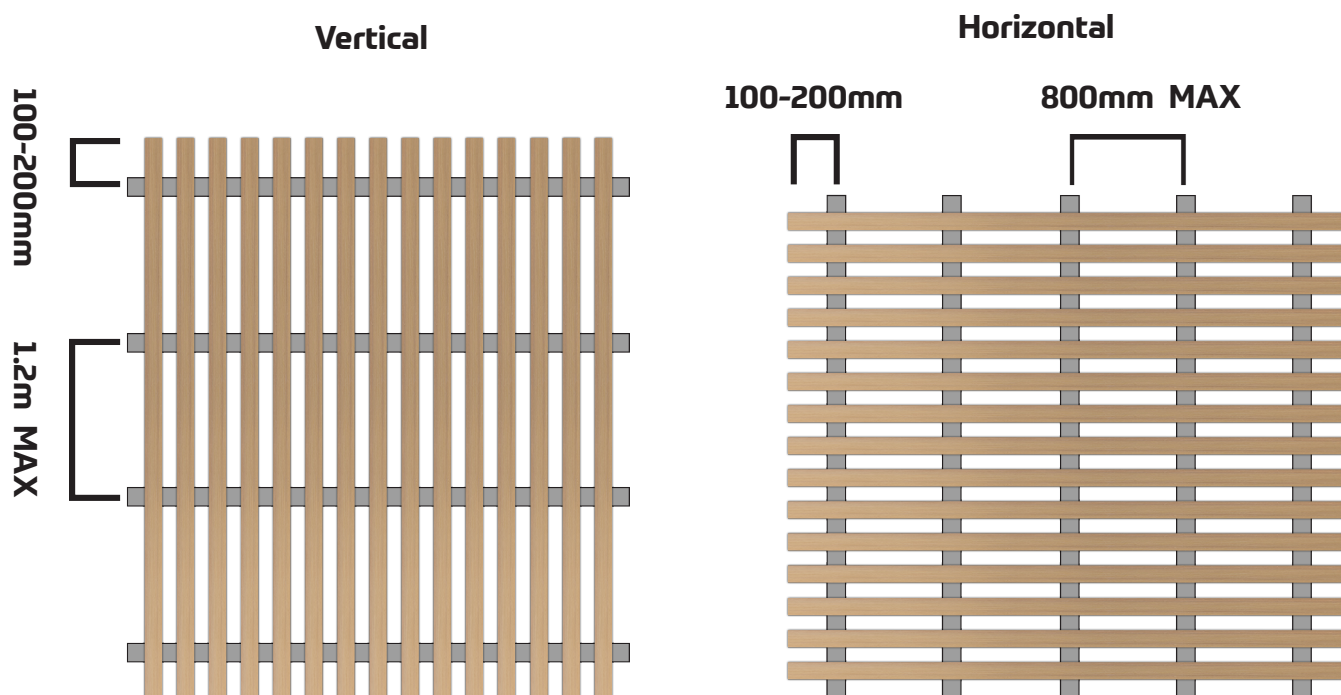
We recommend for the framing Metal / Aluminium framing or Pre-primed H3 Timber framing be used.

Each screening batten needs to be supported by a framing batten 100 - 200mm from the top and bottom fixing point and NO MORE than 800mm centres, for horizontal applications, and 1.2m for vertical applications.

Extra care is required in order to provide sufficient framing in and around obstacles such as butt joins, etc.

**Note:** Proper framing spacing is essential to prevent the battens from sagging. Refer to the chart below to find the correct spacing for your batten profile.

| Profile       | Dimensions          | Horizontal  | Vertical |
|---------------|---------------------|-------------|----------|
| Solid Batten  | 72x12, 30x30, 40x40 | 600 - 800mm | 1 - 1.2m |
| Hollow Batten | 50x50, 90x40        | 600 - 800mm | 1 - 1.2m |



## Expansion and Contraction Values

COEN screening battens will experience expansion and contraction with changes in temperature. Expansion and contraction are most significant where extreme temperature changes occur.

Fastening the screening battens according to the gapping requirements noted in the following table accommodates for this movement.

| INSTALLATION TEMPERATURE IN CELSIUS | LENGTH IN METERS |      |     |     |     |                                                       |     |
|-------------------------------------|------------------|------|-----|-----|-----|-------------------------------------------------------|-----|
|                                     | 1m               | 1.8m | 2m  | 3m  | 4m  | GAP<br>(mm)<br><br>To leave<br>between<br>the boards* |     |
|                                     | 10               | 1.6  | 2.9 | 3.2 | 4.8 |                                                       | 6.4 |
|                                     | 15               | 1.4  | 2.5 | 2.8 | 4.2 |                                                       | 5.6 |
|                                     | 20               | 1.2  | 2.2 | 2.4 | 3.6 |                                                       | 4.8 |
|                                     | 25               | 1.0  | 1.8 | 2.0 | 3.0 |                                                       | 4.0 |
|                                     | 30               | 0.8  | 1.4 | 1.6 | 2.4 |                                                       | 3.2 |
|                                     | 35               | 0.6  | 1.1 | 1.2 | 1.8 |                                                       | 2.4 |
|                                     | 40               | 0.4  | 0.7 | 0.8 | 1.2 |                                                       | 1.6 |
|                                     | 45               | 0.2  | 0.4 | 0.4 | 0.6 |                                                       | 0.8 |

### PLEASE NOTE:

\*The above shows the overall gap required. If the boards have a gap at each end, then halve the value shown

CALCULATION: Gapping = Coefficient of Linear Expansion (CLE, °C) x Length of the Board (m) x (Max. or Min. Temp. in your region - Installation Temp. °C)

The below image shows the direction in which the boards will expand and contract.

## SCREENING INSTALLATION

### Installation Procedure

#### Framing

Determine the screening span — (the distance between each framing batten.)

Important: Ensure the frame is completely square before installing any battens.

Note: Proper framing spacing is essential to prevent screening battens from flexing or sagging. Refer to the chart on page 7 of this installation guide to find the correct spacing for your specific board profile.

#### Fixing Guidelines — Hollow Screening - Front Face Fixing

Recommended: Delta-seal Washer Head or similar stainless steel screws, sized appropriately for the screen depth. Select a screw 20-30mm longer than the depth of your screen to ensure secure fixing to batten. Do not countersink. Maximum distance from the end of the screening batten to the fixing is 20mm.

- Drill a pilot hole through the screen and frame at shank diameter.
- Drill a clearance hole 2mm wider than the screw thread diameter (allows for thermal expansion of the composite material). The hole should go through the front face and any internal webbing.
- Secure screws through the screen and onto the frame with low to medium torque.

#### Rear Fixing - 90mmx40mm Only

- Drill a pilot hole through the frame and into the rear face of the screen and both internal webs at shank diameter, taking care not to penetrate the front face.
- Drill a clearance hole in the frame 2mm wider than the screw thread diameter (no countersink needed, as the fixing is concealed).
- Drive screws through the frame into the rear of the screen with low to medium torque, using a screw length that won't break through the front face, it must penetrate both internal webs.

**Note: Do not overtighten on any hollow screening product.**

#### Fixing Guidelines — Solid Screening

Recommended Fixing Screw

All Solid Screening TX Countersunk Facade or similar stainless steel screws, sized appropriately for the screen depth. Select a screw 20-30mm longer than the depth of your screen to ensure secure fixing to batten. Maximum distance from the end of the screening batten to the fixing is 20mm.

#### Front Face Fixing

Select a screw 20-30mm longer than the depth of your screen to ensure secure fixing to frame.

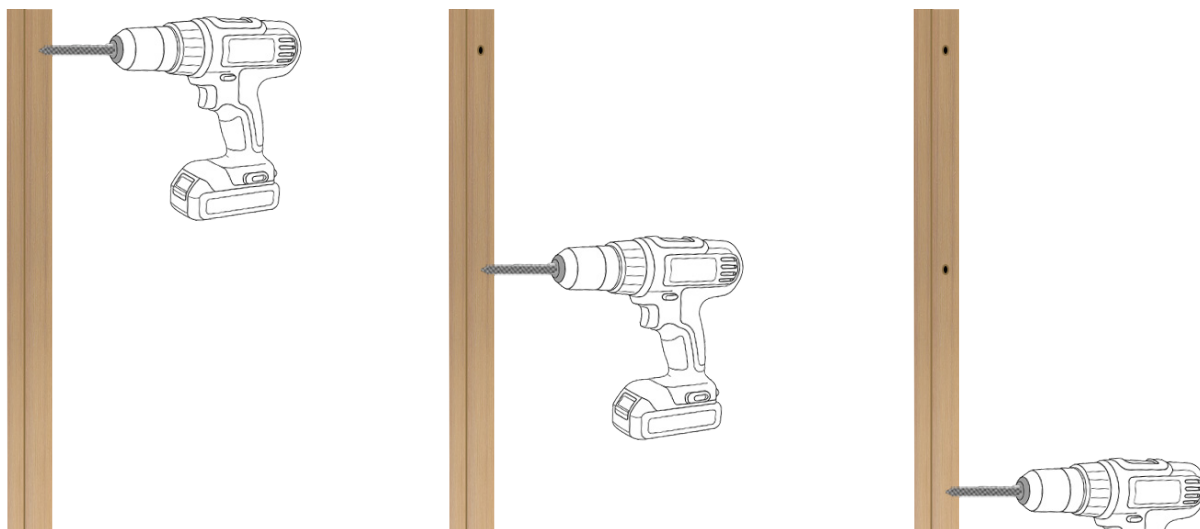
- Drill a pilot hole through the screen and frame ensuring you drill 20mm to 30mm into the frame.
- Drill a clearance through the screen only, 2mm wider than the screw thread diameter (allows for thermal expansion of the composite material).
- Secure screws through the screen and into the frame with low to medium torque.

#### Rear Fixing

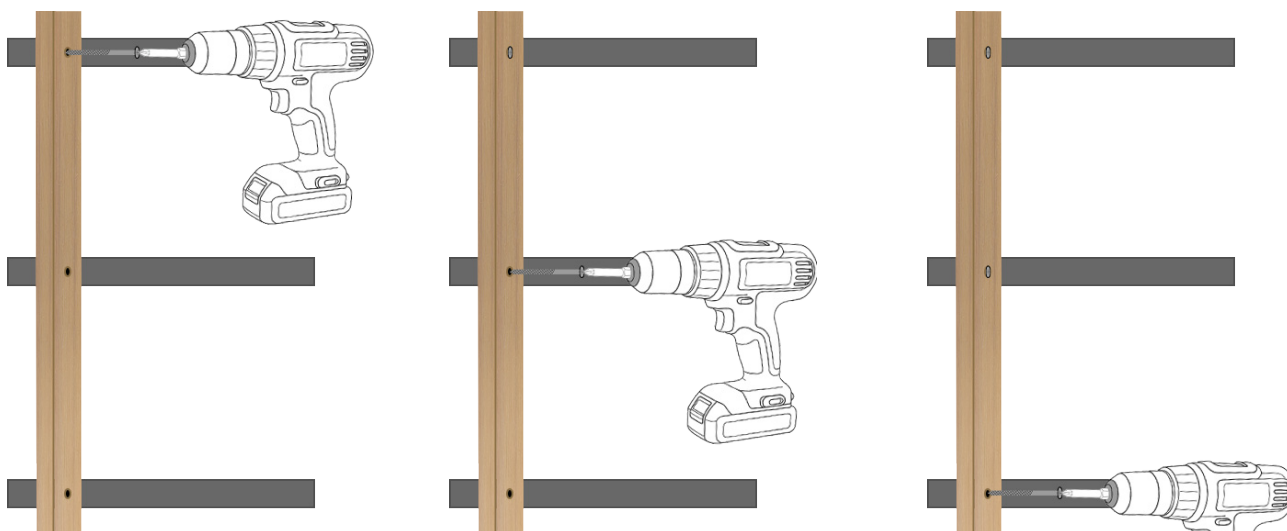
- Drill a pilot hole through the frame and into the batten to 3/4 of the batten's thickness.
- Drill a clearance hole in the frame 2mm wider than the screw thread diameter, (no countersink needed, as the fixing is concealed).
- Screw in through the frame and into the batten with low to medium torque.

## SCREENING INSTALLATION

Pre-drill your screening battens with a pilot hole, followed by a clearance hole. Spacing should follow the fixing spans specified for your product and frame. Refer to the temperature installation chart on page 8, as your installation temperature will affect where each fixing point should be positioned to allow for expansion and contraction.



Next, mount your batten to the frame, fixing with a stainless steel screw. Ensure all fixing points align with the correct spans for your product and framing.

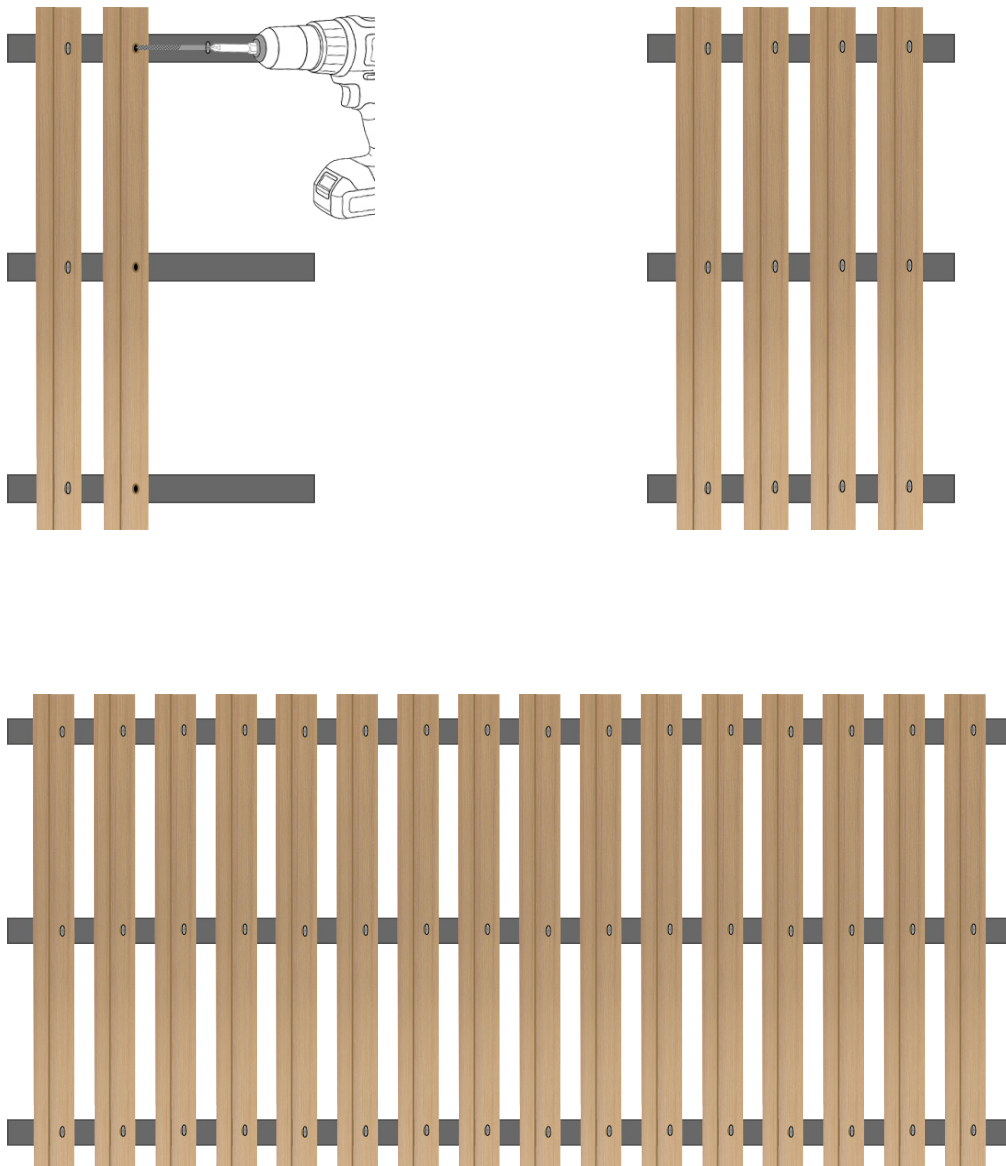


If rear fixing, the process is the same, but through the frame rather than the batten. The clearance hole is required in the frame, and a pilot hole is still required in the batten to ensure the product doesn't split when fixed.

When using solid battens, it's recommended to countersink the hole so the screw head sits flush with the product. Hollow battens require a washer head screw, **do not** overtighten, or the product will split.

## SCREENING INSTALLATION

Continue fixing the battens at your desired spacing, ensuring all screw points are aligned for a clean, consistent finish.



### Please Note:

Screws supplies upon request.

| TECHNICAL SPECIFICATIONS                    | Solid Screening (mm) | Hollow Screening (mm) |
|---------------------------------------------|----------------------|-----------------------|
| Dimensions                                  | Various*             | Various*              |
| Boards / Pack                               | Various              | Various               |
| Minimum ground clearance                    | 100                  | 100                   |
| Minimum clearance over concrete             | 30                   | 30                    |
| Framing centres - Vertical (max distance)   | 1 - 1.2m             | 1 - 1.2m              |
| Framing centres - Horizontal (max distance) | 600 - 800mm          | 600 - 800mm           |
| Minimum end-gap – butt join                 | 5                    | 5                     |
| Minimum gap – side by side                  | 2                    | 2                     |
| Minimum end gap to solid structure          | 5                    | 5                     |
| Max fixing distance from batten end         | 20mm                 | 20mm                  |
| Maximum overhang at end framing batten      | 100 - 200mm          | 100 - 200mm           |

\*Refer to page 6 for profiles

## STORAGE

Storage is simple. Store flat, in a dry area, under cover and out of the sun. Keep your COEN products wrapped in the packaging it arrives onto site. If you need to store your COEN products for a longer than expected period of time, or have a delay in your project, call us at COEN and we'll store your product for you at an agreed price & period of time.

# SCREENING

Following our easy-care tips will ensure that your Screening remains the envy of your friends and neighbours for years to come.

## NORMAL CARE

COEN composite wood products require periodic cleaning to keep them looking great. For dirt, dust and other residue, simply brush with a soft broom. If necessary, wash the Composite Wood down in the direction of the grain with a garden hose or a pressure washer, no more than 1,500 psi.

| PROBLEM                | SOLUTION                                                                                                                                                             |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dust and Dirt          | Wash with hot soapy water and soft scrubbing brush                                                                                                                   |
| Mildew                 | Use a deck washing product or hot soapy water. Never mix any other cleaners with the deck washing product. Vinegar can be used to kill the mould.                    |
| Chalk Stain            | Except white, other colours cannot be removed once on the surface, so avoid the use of chalk. Use hot soapy water with a stain-bleaching agent to wipe off.          |
| Ice or snow            | Use calcium chloride or rock salt to melt ice or snow and wash with hot soapy water.                                                                                 |
| Dirty spots or soiling | Apply a detergent with oxalic acid or phosphoric acid to spots and wipe clean after 10-15mins.                                                                       |
| Oil                    | Clean immediately with a household degreasing detergent and hot soapy water.                                                                                         |
| Berry or wine stain    | Scrub and dilute the stains with a mix of bleach and hot soapy water before rinsing with water.                                                                      |
| Ink Smudge             | An ink smudge is unlikely to be removed. Scrub and dilute the stains with a mix of bleach and hot soapy water before rinsing with water. This may dilute the smudge. |

Note: Please note that some cleaners can lighten the colour of your composite wood, so always test any cleaner on a small portion before cleaning the entire surface.

## ADDITIONAL TIPS

- Clean wall paneling regularly in order to prevent dust accumulation.
- Remove marks or stains immediately or they may become more difficult to remove after a period of time.
- Never apply harsh solvents such as acetone, gasoline, benzene, carbon tetrachloride or paint thinner.
- Never mix two or more cleaning agents when cleaning your composite wood products.
- Keep the area around your composite wood product clean and well ventilated.
- If you have any further queries, please call us at COEN – 1800 105 031 or email [info@coen.com.au](mailto:info@coen.com.au)