Horizontal Installation

Composite Panel Siding



THE ILLUSTRATED HORIZONTAL SYSTEM

Horizontal tongue-and-groove panels on vertical metal furring, with aluminum starter clips, inside-corner alignment and SC03 start, corner and end trims.

Read the preparation and movement notes before cutting or fastening.

INSTALLATION SEQUENCE

Preparation and components	2	5 Inside corner	7
1 Vertical metal furring	3	6 Final panel at the top	8
2 Starter clips and base support	4	7 SC03 start, corner and end trims	9
3 First panel and concealed fixing	5	8 Final inspection	10
4 Interlock and fasten each course	6		

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Prepare the installation

Tools, supports and trim references used in this guide.

BEFORE YOU START

- Confirm the wall assembly, flashings and required drainage and ventilation paths.
- Confirm substrate anchors, face-fixing hole details and board-end and butt-joint clearances before cutting or fastening.

TOOLS



Marking pencil



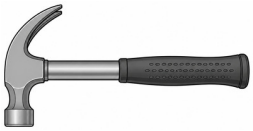
Measuring tape



Hammer drill



Drill / driver



Hammer



Level



Circular saw

Also use suitable bits and blade, cutting protection and access equipment.

COMPONENTS & TRIM PROFILES



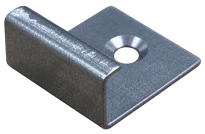
Metal furring

Vertical supports



Siding screw

M4 x 25 shown



Starting clip

Aluminum base support



SC03

Start / corner / end trim

Use stainless steel fasteners suited to the substrate and each fixing detail. Confirm type and length for the project.

SC03 identifies the illustrated trim. Consult the current NeoLine trims data sheet for ordering codes.

Step 1: Install the Metal Furring System

Substrate Preparation:

Before installing the composite panel siding, install the metal furring system to create a level, rigid, and secure mounting surface.

1. Furring Orientation:

For horizontal panel siding, install the metal furring VERTICALLY across the wall structure.

2. Furring Spacing:

Space vertical furring channels 400-600 mm (16-24 in.) apart, measured strictly from centre to centre (C/C).

3. Screw Spacing:

Secure the furring to the wall substrate with screw spacing of 600-800 mm (24-32 in.) along each furring member.

4. Edge Screw Clearance:

Ensure the first screw on each furring channel is placed within < 50 mm (2 in.) from the furring edge.



1A Vertical channels; 600 mm (24 in.) spacing is illustrated.



1B Furring anchors and fixing positions.

Why Use Metal Furring?

We recommend using metal furring instead of wood strips. Metal furring provides a straighter and more consistent installation surface, making it easier to install the composite panel siding. Wood strips may warp or follow uneven wall surfaces, resulting in an inconsistent finish if the wall is not perfectly flat.

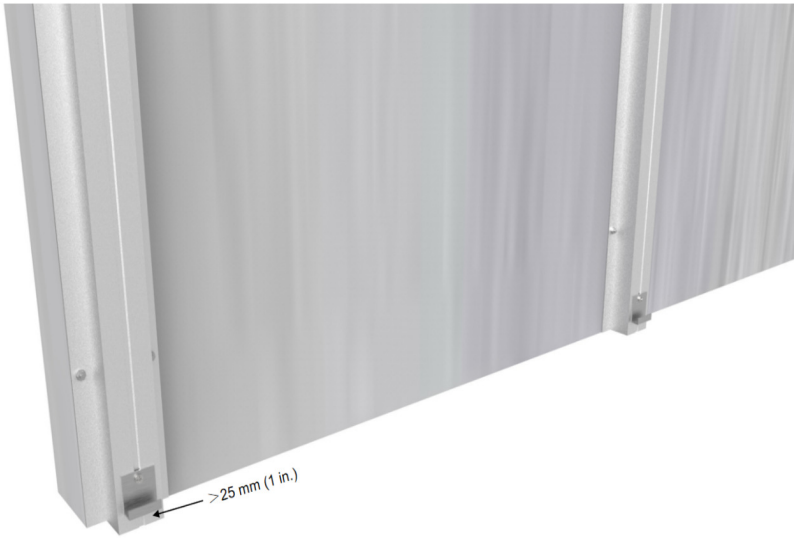
2 Install starter clips and base support

Set a level baseline before engaging the first horizontal panel.

2A POSITION AND FASTEN

Position an aluminum starting clip at the bottom of each vertical furring channel. Keep the clips at least 25 mm (1 in.) above the ground, as illustrated.

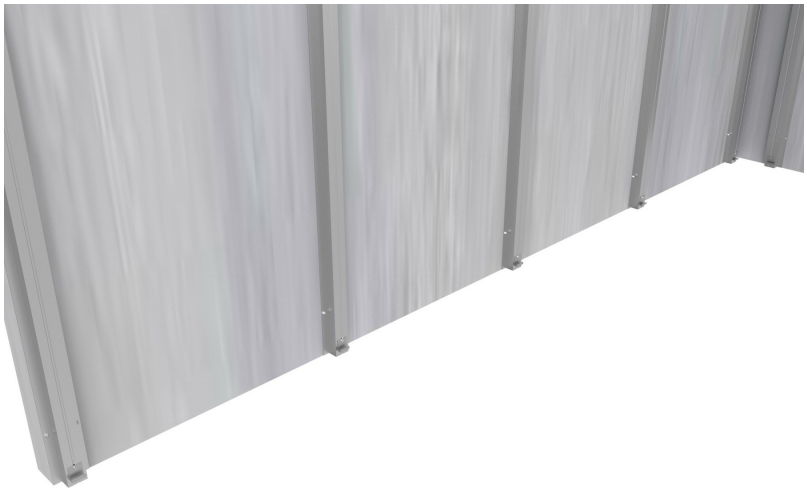
Fasten each clip through its mounting hole into the furring using stainless steel self-tapping screws.



2A Starting clip fixed to a vertical furring channel.

2B CHECK THE BASELINE

Align all starter clips along one continuous, level baseline. Check that the supporting faces sit in the same plane across the wall.



2B Continuous starter-clip baseline across the wall.

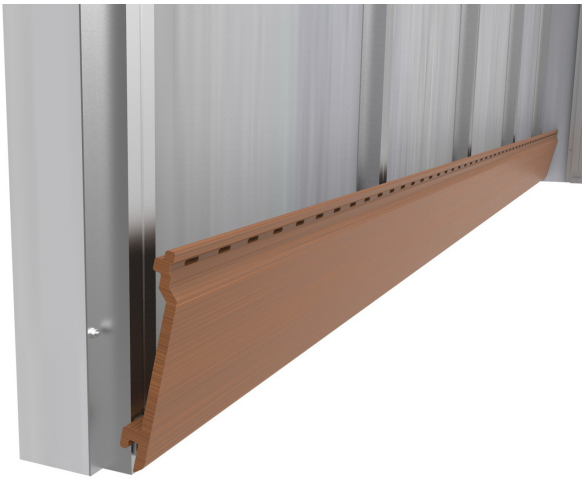
Check clip alignment before hanging the first panel. An uneven starting line will carry through the following courses.

3 Set the first panel and fasten the flange

Seat the bottom groove on the clips and fix through the upper mounting flange.

3A ENGAGE THE STARTER CLIPS

Lower the first panel so that its bottom groove hooks securely over the starting clips. Confirm that the panel is level and fully seated along the wall.



3A First panel engaged with the starting clips.

3B FASTEN THE UPPER FLANGE

Fasten the upper mounting flange to every vertical furring channel using M4 x 25 stainless steel self-tapping screws.

Drive each screw straight through the centre of a factory slot. Seat the head flat while allowing the panel to move.



3B Concealed fixing through the factory slots.

Avoid over-tightening. Keep the slotted flange free to accommodate the panel's thermal movement.

4 Interlock and fasten each course

Continue from the bottom of the wall toward the roofline.

Engage the next panel with the tongue-and-groove edge of the panel below. Check that the joint is fully seated and the course is level before fastening.

Fix the upper flange at every vertical furring channel, then repeat the same sequence for each successive course.



4A Horizontal panel courses interlocked and fixed progressively upward.

CHECK EACH COURSE

Maintain a consistent reveal and fully engaged joints. Keep screws centred in the factory slots and allow movement.

5 Form the inside corner

Align the horizontal courses across the adjoining walls.

Continue the panel courses around the inside corner, keeping matching courses at the same height on both wall faces.

Maintain the illustrated 3 mm (approximately 1/8 in.) clearance from the return wall.



5A Inside-corner alignment of horizontal panel courses.

INSIDE-CORNER CLEARANCE

The 3 mm detail applies to the inside corner shown. Confirm other movement and board-end clearances before cutting or fixing.

6 Fit the final panel at the top

Use the appropriate fixing method for a full-height or cut final panel.

6A CUT AND SUPPORT THE PANEL

Measure the remaining opening and cut the final panel to suit the confirmed movement clearance. Engage it with the panel below.

Use the cut-off edge as backing behind the cut top panel, as illustrated.



6A Cut-off edge positioned behind the final panel as support.

6B FACE-FIX THE CUT PANEL

Pre-drill the face-fixing locations to the confirmed hole detail. Fasten the cut panel through its face into the furring, as shown.



6B Face-fixing the cut final panel.

FULL-HEIGHT FINAL PANEL

When the final panel fits intact, fasten through its factory-slotted flange using the same method as the preceding courses.

7 Fit SC03 at starts, corners and ends

Use the matching composite trim to cover and finish the exposed panel edges.

7A START EDGE

Cover the starting edge with SC03. Pre-drill and face-fasten the trim to the panels at the illustrated locations.



7A SC03 at the starting edge.

7B OUTSIDE CORNER

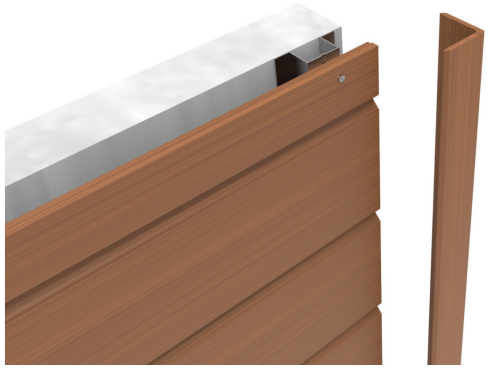
Fit SC03 over the outside corner to cover the meeting panel ends. Pre-drill and secure the trim as illustrated.



7B SC03 at the outside corner.

7C END EDGE

Cover the exposed closing edge with SC03. Secure the trim through its face into the panels, following the illustrated fixing detail.



7C SC03 aligned with the final edge.

8 Inspect the completed installation

Review joints, fixings, trims and movement clearances before handover.



8A Completed horizontal panel siding assembly with matching edge trims.

FINAL CHECK

- Panels are level, fully interlocked and secured at every vertical furring crossing.
- Starting clips support the first course; SC03 trims and all face fixings are secure.
- Slotted fixings allow movement. The illustrated inside-corner clearance and other confirmed clearances are maintained.
- Flashings, drainage outlets and ventilation paths remain clear. Remove offcuts and drilling debris.