

SHERA™ | FIRE DECK

Installation guide

Concealed Clip Lock decking system

Preparation | Installation steps | Tips and tricks | Maintenance and care

Contents

01

Preparation

Overview 3

Handling and storage 4

Tools and equipment 5

Structure and foundation 6

02

Installation steps

Perimeter boards 7

Filling screw holes 8

First inner board, starter Clip Lock 9

Subsequent boards, Clip Lock 10

Final board 11

Edge trim 12

Fixing the edge trim 13

03

Finishing and care

Tips and tricks 14

Maintenance and care 15

THE SYSTEM

Overview

Crafted with SHERA Gen 3 innovation, SHERA by FIREDECK unites natural elegance, trusted safety and sustainable performance. Designed to endure and inspire, it elevates every space into a statement of modern living.

STYLE
Natural aesthetic with True Colour Through
Scratch resistance
UV resistant surface

SAFETY
A1 fire-rated material
Slip resistance
Non-warping stability

SUSTAINABLE
Low carbon fibre cement (SHERA Gen 3)
Fibre from FSC
Easy installation system (Clip Lock)

Finishes: Anthracite, The Teak (two-tone) and Chestnut Brown.

Installation guide



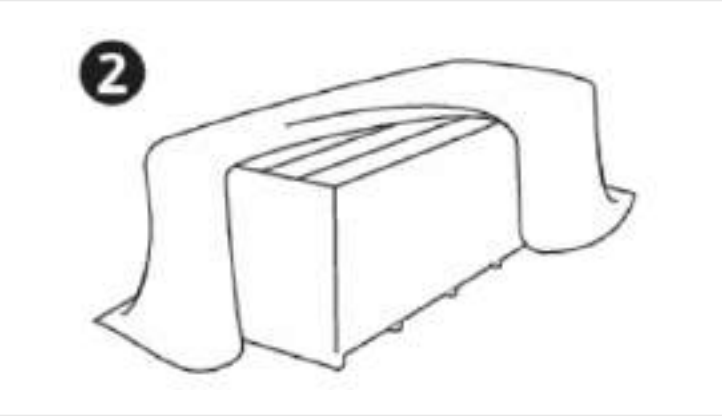
PREPARATION

Handling and storage



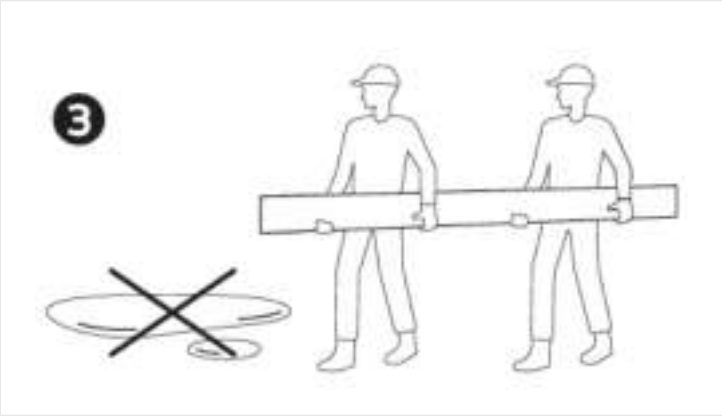
1 Stacking

SHERA by FIREDECK boards should be handled and stacked carefully to avoid damage to their edges and corners. The maximum stack height is 1,000 mm, with timber bearers supported at every 500 mm.



2 Storage

Stack boards on dry, level ground. Store under shade to prevent damage that could occur from prolonged exposure to a high humidity environment before installation.



3 Lifting and transfer

During transfer, handle boards 500 mm from both ends. Lift the board so that its sides are parallel to the floor. Avoid installing under wet conditions to reduce the chance of cracking.

PREPARATION

Tools and equipment

Measuring and levelling tools


Tape measure


Line


Chalk line


Spirit level

Safety equipment


Safety glasses


Dust mask


Safety boots

Cutting, drilling and fastening tools


Electric cutting tool


Electric drill


Construction adhesive (PU)


Start clip and screw


Clip Lock and screw


Screw FIX-W45

Finishing materials



SHERA by FIREDECK primer



Touch-up paint


SHERA by FIREDECK plugs

Structure



Galvanised steel box section
Minimum size 50.8 x 50.8 mm and minimum thickness 2.3 mm.

INSTALLATION STEPS

Structure and foundation preparation

Preparation can be carried out in two approaches, depending on the site conditions.

1 Concrete floor condition

If the existing concrete floor is structurally sound, free from cracks and has an appropriate slope for outward drainage, the steel framing system can be installed directly on the concrete surface. If the floor shows signs of cracking, repair is recommended before installation, or steel piles should be considered.



Sound concrete floor



Cracked floor: repair first



Steel pile on concrete

2 Soil or grass condition

When the site is soil or grass, steel piles can be used directly as the foundation. This method allows fast installation, generates minimal noise, causes no vibration and provides long-term structural durability. It is also more cost-efficient than conventional pile driving and cast-in-place footing construction.



Steel pile on soil



Steel pile on grass



Conventional footing

Note: *Consult a qualified professional.*

INSTALLATION STEPS

Starting installation: perimeter boards

45°
Mitre cut on the perimeter boards

20 mm
Overhang beyond the edge trim

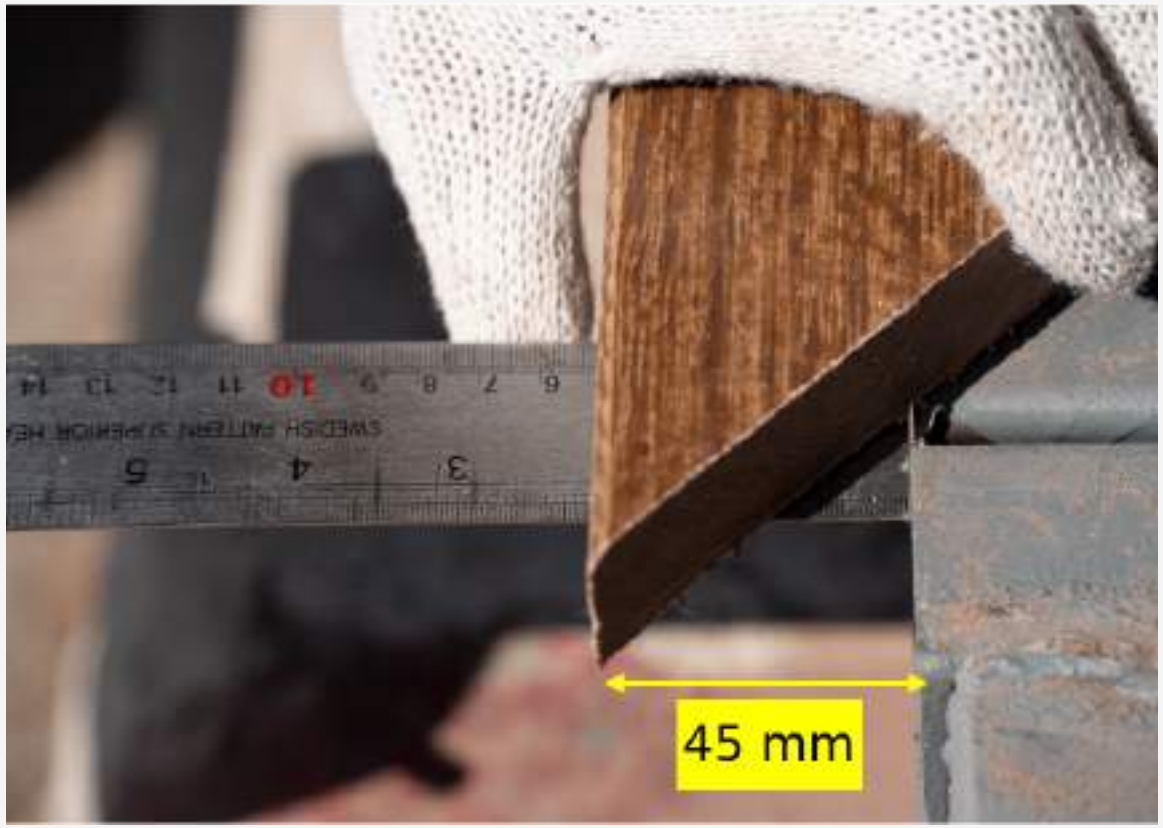
45 mm
Gap from the joist

Install the perimeter deck boards with a 45-degree mitre cut, allowing the boards to overhang the edge trim by 20 mm. Leave a 45 mm gap from the joist.









WHEN USING V-EDGE CUT FOR THE FIRST BOARD, PERIMETER ONLY

Installation of SHERA by FIREDECK decking



1 Prime the screw holes

After fastening the deck boards with screws at all required positions, use a brush dipped in SHERA by FIREDECK primer to coat each screw hole. This helps prevent moisture from penetrating into the board material.



2 Apply PU.25

Apply a small amount of SHERA by FIREDECK PU.25 into the screw hole to enhance the bonding performance of the plug.

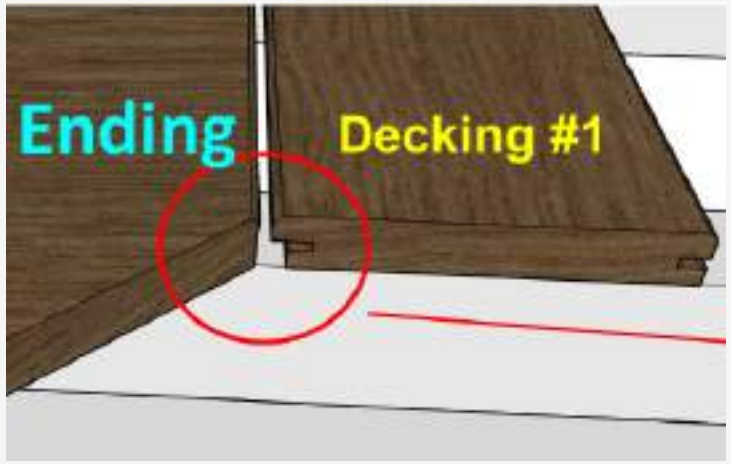


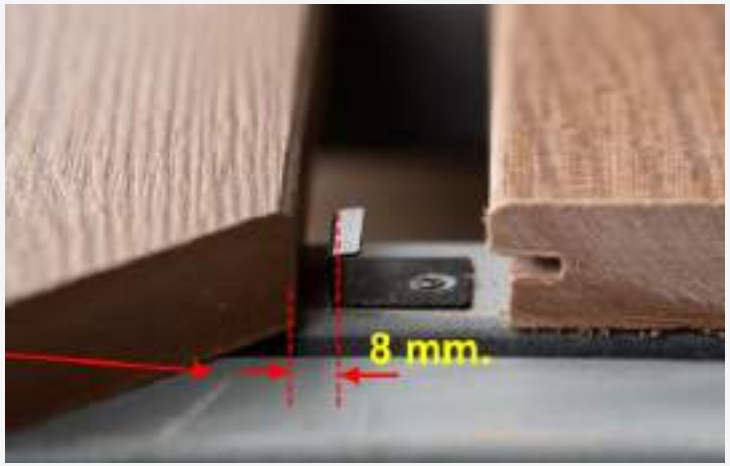
3 Insert the plug

Insert the SHERA by FIREDECK plug into the hole, making sure the grain direction of the plug aligns with the deck board. Gently tap with a rubber mallet until the plug is flush with the deck surface.

AFTER COMPLETING THE PERIMETER BOARDS

First inner board with the starter Clip Lock







1 Position the first board

Place the inner decking, which has Clip Lock grooves on the side, using an 8 mm spacer (shim) to maintain the correct edge gap before installing the starter clip.

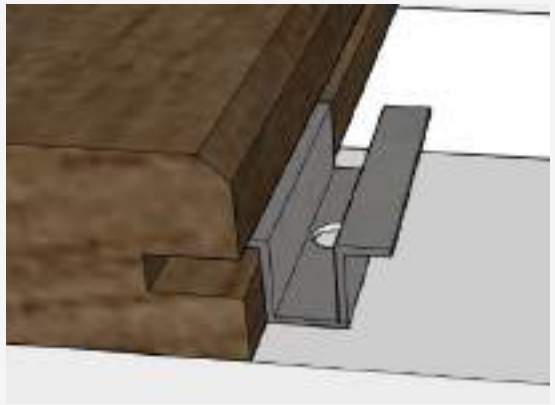
2 Fix the starter Clip Lock

Fasten the starter Clip Lock to every joist using the screws provided, then slide inner board #1 fully into all Clip Locks.

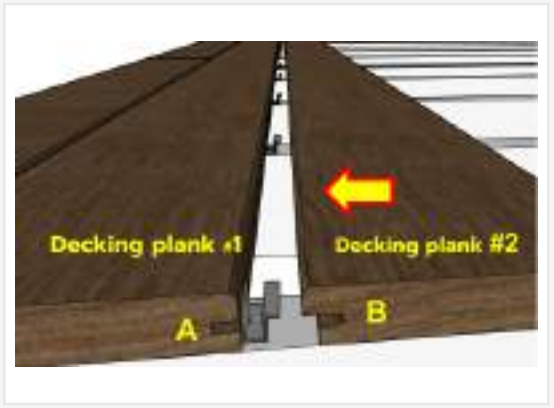


AFTER COMPLETING THE FIRST INNER BOARD (#1)

Installing subsequent boards with Clip Lock









1 Fix the Clip Locks

Install the Clip Locks along all joist lines using the screws provided. Fastening tension must be properly adjusted: not too tight and not too loose. Recommended method: fasten one Clip Lock first, insert a deck board to check the fit, then adjust the position or tension before installing the remaining Clip Locks.

2 Slide the next board

Slide the next inner decking plank (#2) fully into all Clip Locks. Repeat the same procedure for the remaining decking planks until the final plank is installed.

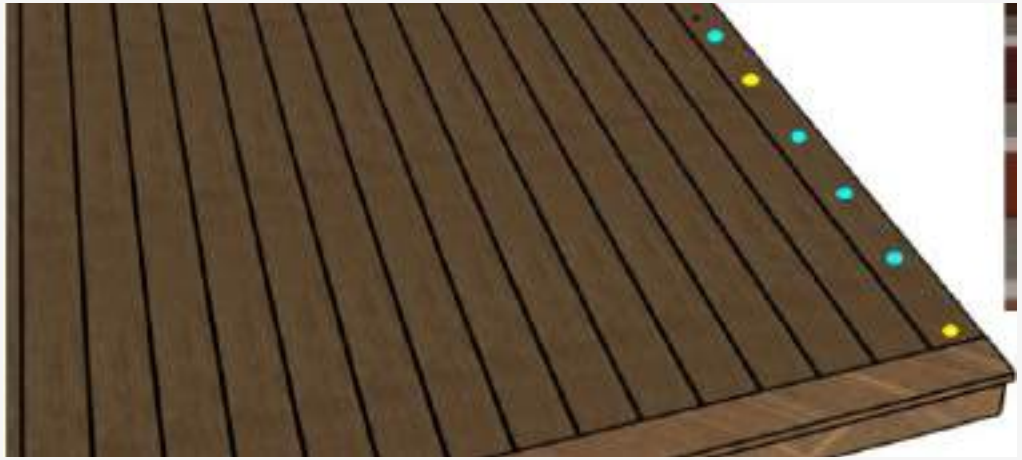


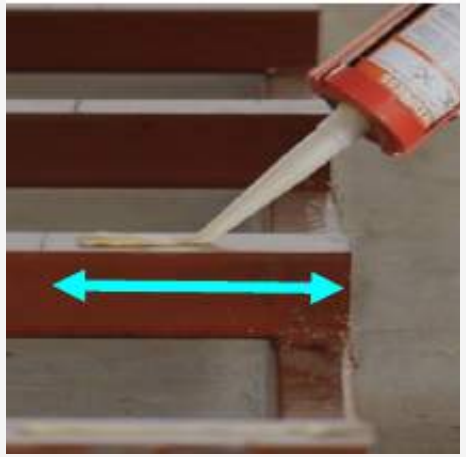
Note

Fasten screws only on the aligned side of the decking plank (A) and use the uneven side (B) as the closing side. Boards then butt up to each other.

INSTALLATION STEPS

Final decking board







1 Case

The final decking plank can be installed as follows. Case: the final decking plank is not adjacent to any wall.

2 Screw positions

Fasten the decking plank with screws at the front, middle and rear positions, as indicated by the yellow marks.

3 Adhesive positions

For the blue-marked positions, use construction adhesive (nail glue) instead. Apply it in a continuous strip about 10 mm wide, with a length equal to the width of the decking plank resting on the joist. If the SHERA by FIREDECK plug colour is not available, fill the screw heads with filler and touch up with matching paint.

INSTALLATION STEPS

Installation of the edge trim

The recommended installation method for side edge trim decking plank is as follows. Case: perimeter decking plank installed with a 45-degree mitre cut. The edge trim decking plank must be cut at a 45-degree angle to match the perimeter decking plank.







Edge trim is installed beneath the top perimeter decking plank for a clean finish.

INSTALLATION STEPS

Fixing the edge trim



1 Position the trim

Edge trim is installed beneath the top perimeter decking plank to achieve a neat and aesthetically pleasing installation.



2 Pre-drill and fix

Install onto the steel framing by pre-drilling with a No. 8 drill bit to a depth of approximately 5 to 6 mm from the decking plank surface, following the joist lines. Then secure using Fix-W45 screws on all four sides.



3 Insert the plug

Insert the SHERA by FIREDECK plug into the hole, making sure the grain direction of the plug aligns with the decking plank. Gently tap with a rubber mallet until the plug is flush with the deck surface.

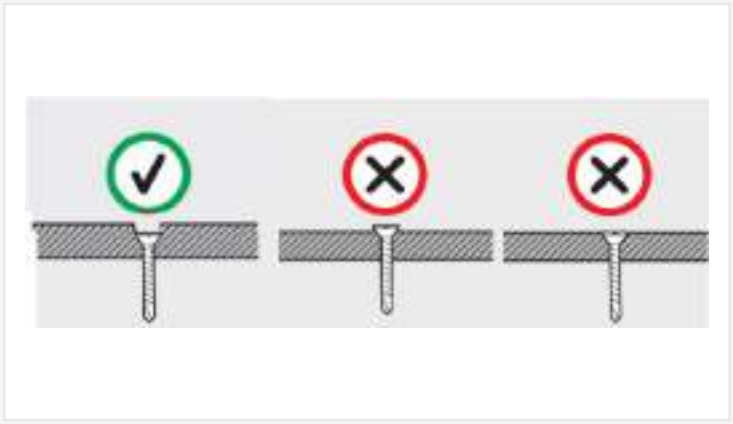
INSTALLATION STEPS

Tips and tricks



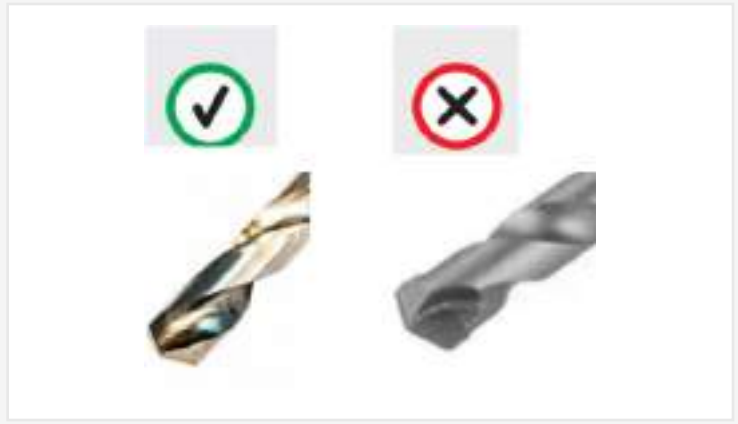
1 Drainage slope

The installation area should be designed with a slope away from the building to ensure proper drainage and prevent water accumulation.



2 Screw depth

Pre-drilling and screw fastening must allow the screw head to sit 5 to 6 mm below the deck surface, so the plug can be installed flush with the decking plank surface.



3 Drill bit

To achieve a clean, smooth screw hole, use a new, sharp carbide drill bit designed for metal drilling. Do not use masonry drill bits, as they may cause chipping or rough hole edges.

LOW MAINTENANCE

Maintenance and care

DO'S


Sweep regularly with a soft brush


Clean with water and mild detergent


Use furniture with rubber or plastic feet


Lift furniture instead of dragging


Clean oil or food stains immediately; do not leave them for a long time


Avoid water stagnation and ensure proper drainage

DON'TS


Do not use abrasive or sharp cleaning tools


Do not spray high-pressure water at close proximity


Do not use strong acid or alkaline chemicals


Do not use abrasive salt grit


Do not use furniture with metal feet


Do not apply oil, wax or polish