

DEKBOARD®

Trade Installation Guide

Designed to assist the trade professional with the installation of the DekBoard system

DEKBOARD

With DekBoard, you can create a clean, safe and secure outdoor living area for rest, play and getting together.

The DekBoard system is made from fully recyclable PVC, manufactured in the UK and allows you to extend your home seamlessly into a beautiful outdoor living space.

Ideal for garden and patio areas, DekBoard is made to look and feel like high-quality timber, without the need for the time consuming and costly maintenance that timber always needs.

Our stylish decking system will increase the usable area in and around your home, allowing you to enjoy the outdoors, and still feel safe, clean and in control of your own space.

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All instructions and suggestions in this document are given for guidance only and the installer should satisfy themselves that their planned deck will be safe given their individual circumstances and requirements.

Warranty available upon request. Please contact us for more details.

The DekBoard System



Robust



Slip Resistant



Low Maintenance



100% Recyclable



Long Life



Product Testing



Rot & Split Resistant



Splinter Free

TRADE INSTALLATION GUIDE

STORAGE

Prior to installation PVC DekBoard products should be stored out of direct sunlight on a clean level surface.

SUB-FRAME

The principles of building a timber subframe for a domestic deck are set out here, but they do not cover all the possibilities for construction or the different circumstances that might be encountered.

All timber used to build the subframe including posts should be at least C16 in quality (C24 is recommended) and treated appropriately for outdoor use.

Bearers should run with the line of most traffic and should have a nominal size of 6"x2". They are usually available in a standard size of 145mm x 45mm.

Use a minimum of 2 x 90mm external quality wood screws at each joint between subframe sections.

Posts and intermediate supports may be made from 95mm x 95mm timber or two 95mm x 47mm sections that are firmly screwed together. **NOTE:** Any timber post larger than 98mm x 98mm will not fit inside the DekBoard post.

Timber post ends and intermediate supports should be set onto a stable well drained surface.

It is recommended that the DekBoard subframe bracket is used for all post corners.

SPACING OF TIMBER BEARERS

Deck bearers should not exceed 400mm (16") centres, with a max 300mm (12") centres recommended in high foot traffic areas. Centres over 400mm will invalidate the Performance Guarantee.

The maximum unsupported span of a timber bearer (of the required specification) between two posts or intermediate supports is 2.22m. Noggins that tie two bearers together should be inserted every 1.11m max along the length of the span. Increasing the frequency of noggins creates greater rigidity and strength.

If the boards are to be set at a non-standard angle to the bearers (ie not 90°) the bearer centres must be adjusted in order to maintain the required fixing centres.

INSTALLING THE DECK BOARD

Fix the DekBoard using a clip and stainless steel screw at each bearer, ensuring all clips are correctly seated.

Where board ends meet install a second bearer so that each board end is fully supported and secured with its own clip.

Allow a 5mm gap between board ends for expansion and always overlap adjacent board end joints by a minimum of two bearers.

All installations to take place at ambient temperatures between 5 and 25°C.

VENTILATION

Many decks are low lying and due to their location can be prone to heat build-up. Adequate ventilation must be provided under the deck, especially where darker DekBoard colours are specified.

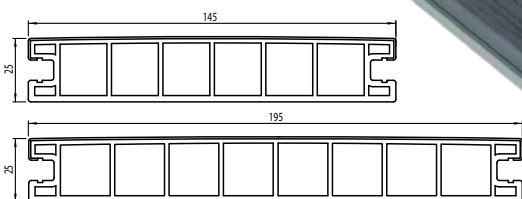
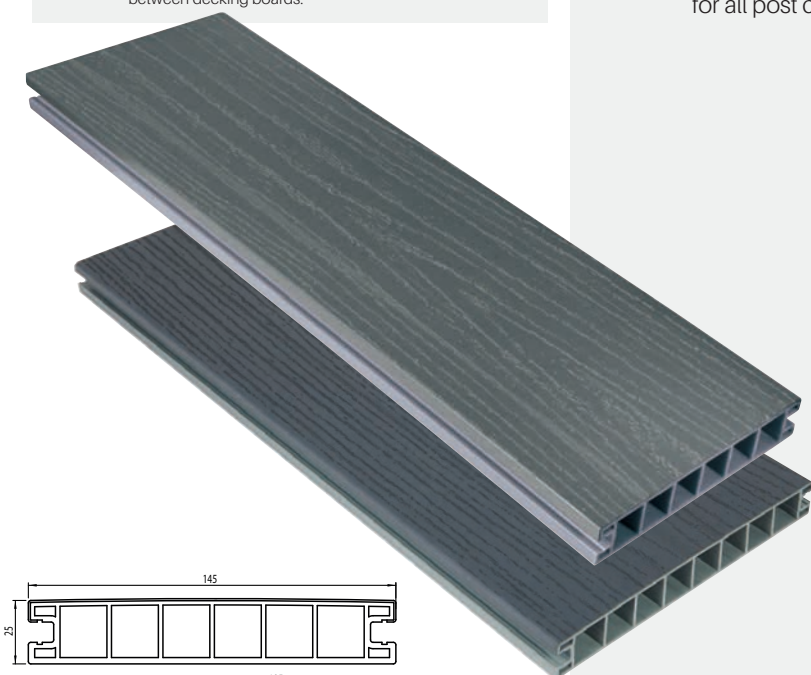
It is essential that a minimum 10mm continuous ventilation gap is provided underneath the base of the deck, providing thorough ventilation. Using recommended timbers, air gap and DekBoard will result in a minimum deck surface height of 185mm.

TIP Estimating DekBoard Quantity

A 145mm x 4.902m decking board covers approx. 0.74m²

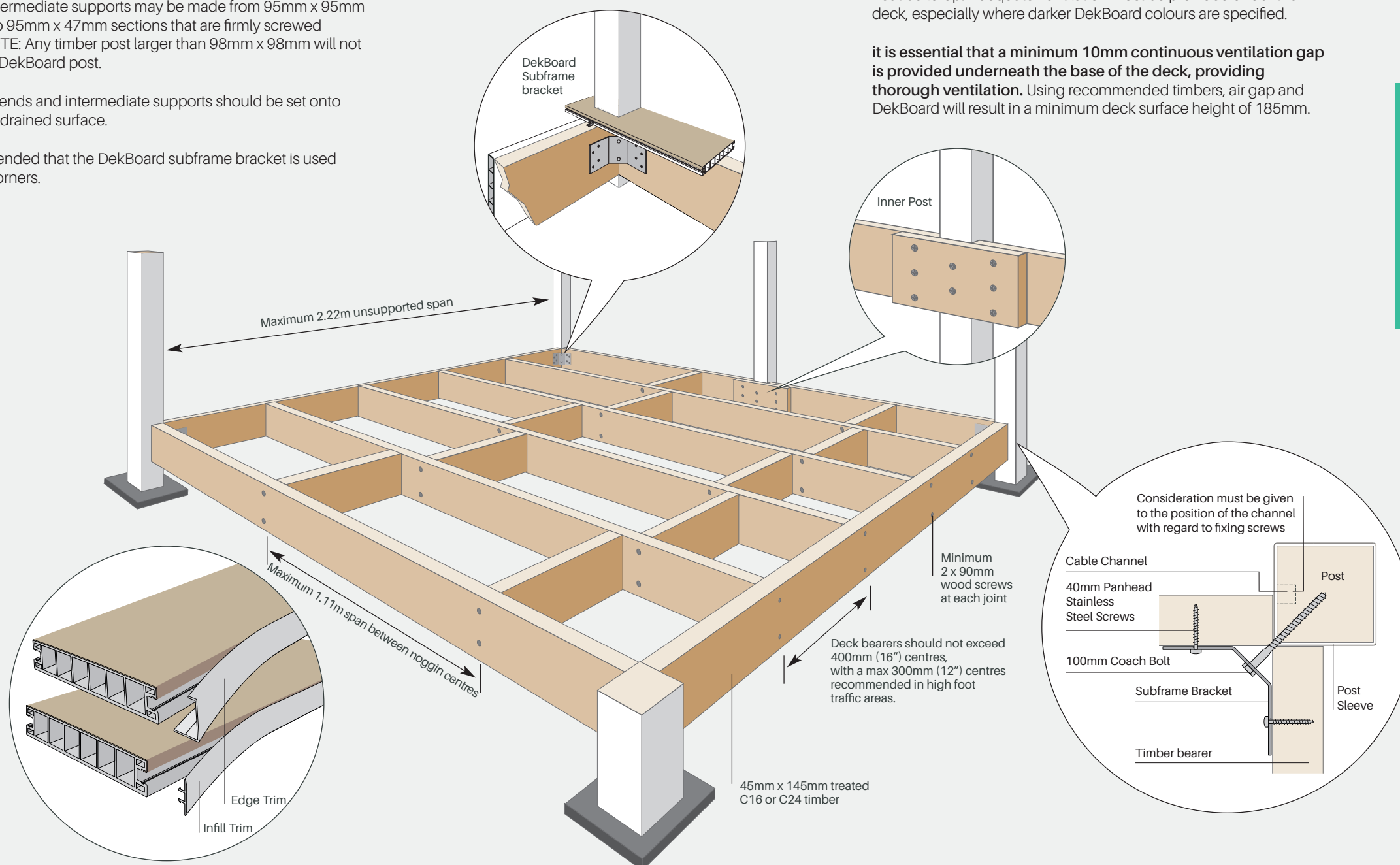
A 195mm x 4.902m decking board covers approx. 0.98m²

Note: The coverage calculation includes the 5mm gap between decking boards.



TIP Estimating Deck Clip Quantity

Fixing centres	No. of Clips
300mm	17
400mm	13



POST SLEEVE, BALUSTRADE KITS

The Rail Kits have a rail height of 1m and the balustrade is suitable for decks with a deck surface of up to 300mm above the ground.

A deck height of up to 300mm is considered a 'Permitted Development' where there is no requirement for Planning Permission.

Decks above 300mm require Planning Permission and the Rail Kits are not designed to suit this application.

If Planning Permission is required the rail height is specified depending on the height of the deck surface:

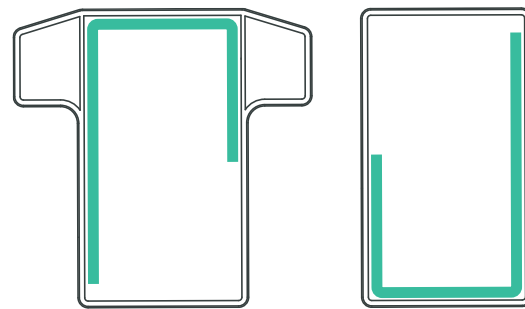
Code	Height of Deck	Min Height of Rail
Low Level	up to 600mm	900mm
Code	Height of Deck	Min Height of Rail
High Level	over 600mm	1100mm

1. Top and bottom rails should be cut to length - Distance between posts minus 18mm, allows for the thickness of two brackets and an expansion gap at each rail end. Gaps between the last picket and post should not exceed 100mm.

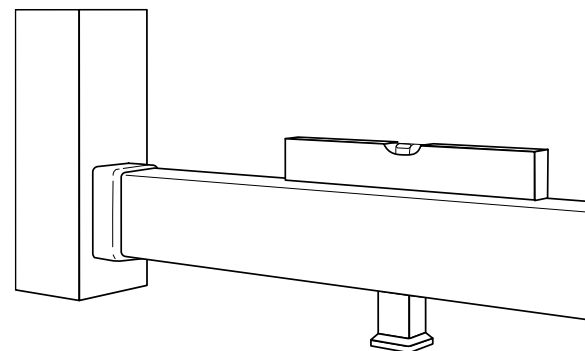
Note Rails should be cut to keep pickets symmetrical.

2. J Reinforcement is cut to the same length as the PVC Rail and inserted in the following orientation..

Note There are 2x 10mm diameter pre-dilled holes in the bottom rail to allow for drainage.

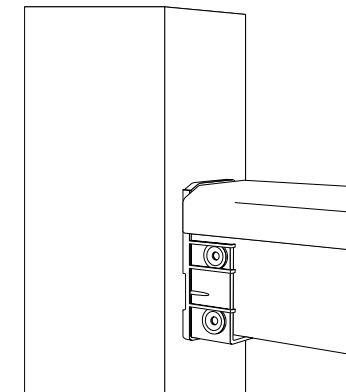


3. A foot block is secured to the underside of the bottom rail/ reinforcement at the mid-point using a 30mm screw.

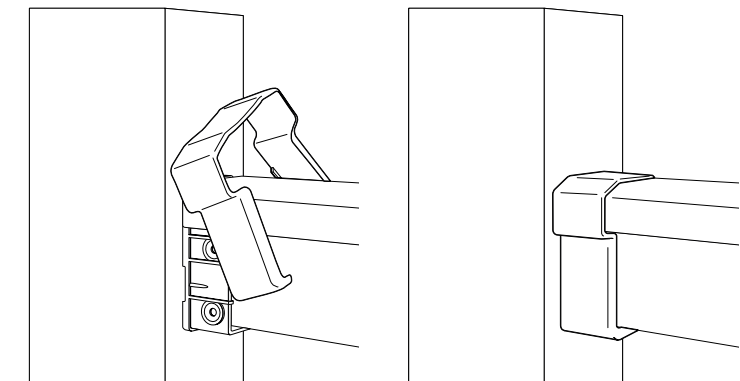


4. The height of the bottom rail bracket from the deck surface is obtained by placing the rail/foot block assembly into position with a bracket body on one end. When the bottom rail is level mark the position of the bracket onto the post or alternatively you may wish to use a jig to obtain the bracket positions. Brackets are secured using 4 x 30mm stainless steel countersunk wood screws.
6. Ensure that the rails/reinforcement are centrally positioned before securing the rail assembly to the brackets via the side holes in the bracket body with 3 x 4.8mm (no.10) x 19mm Self Tapping Screws. The reinforcement should be piloted with a 3.5mm drill.

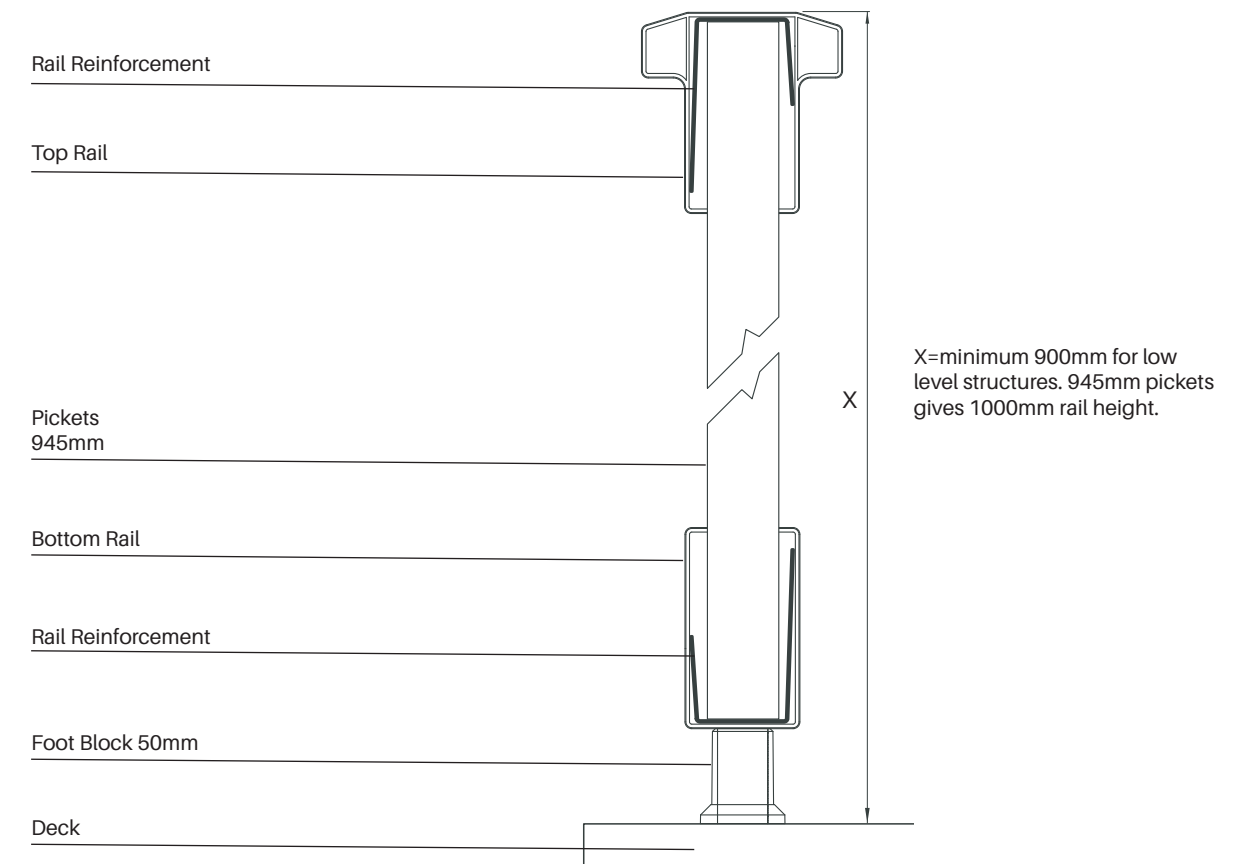
Note 3 of the 4 bracket holes align with the J reinforcement.



7. Brackets are finished by clipping on the bracket covers. (care should be taken to not over stress the bracket covers).



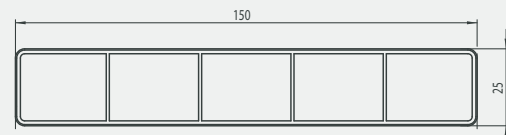
5. Assemble the top and bottom rails together with their pickets and drop the assembly into the bottom rail bracket bodies. Place a bracket body at each end of the top rail marking its position on the post. It should be possible to lean the rail and picket assembly aside to fit the bracket bodies. Secure using 4 x 30mm stainless steel countersunk wood screws.



FASCIA INSTALLATION

150mm x 25mm Fascia

The Fascia Board is used for facing off the edge of the deck sub frame in order to hide the timber bearers. The boards can be secretly fixed from behind the sub frame using 60mm woodscrew DWSCREW60 assuming that the timber substructure is at least 45mm deep.



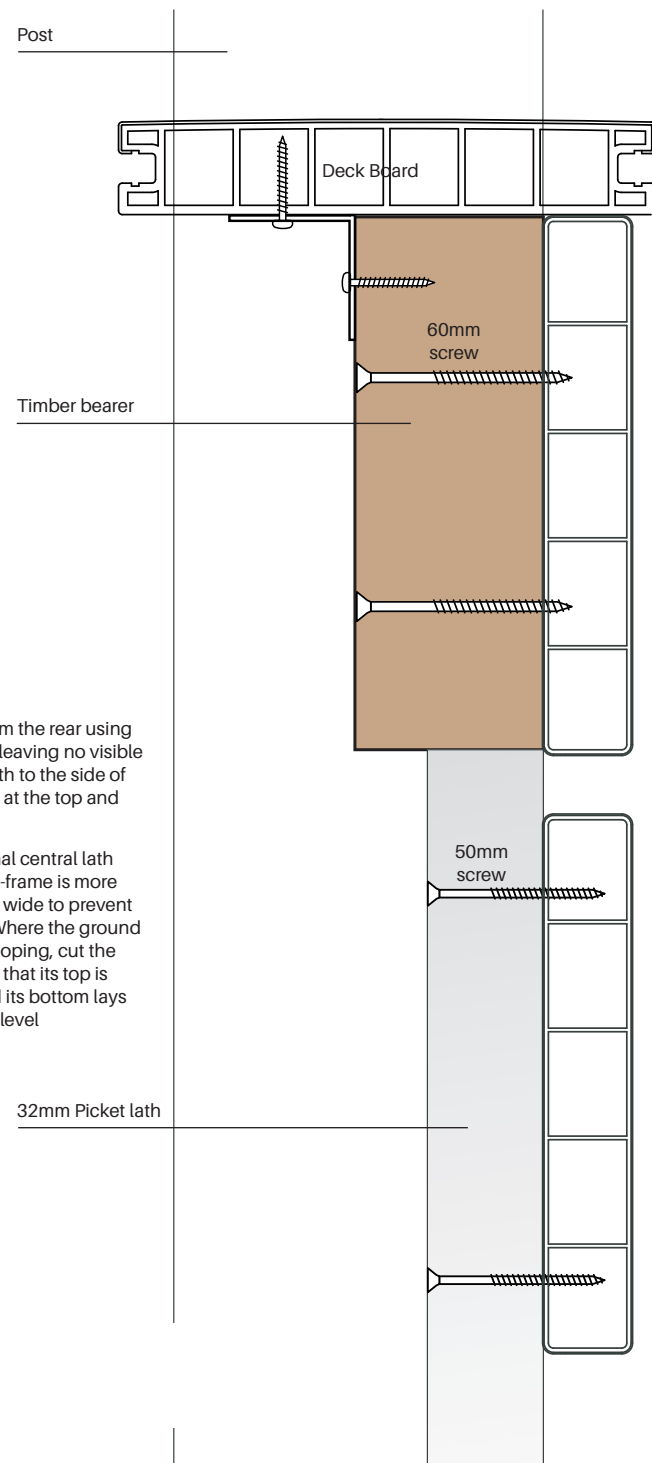
Note

Always leave a minimum ventilation gap of 10mm below the subframe. Single fascia installation requires the air gap to be at the lowest point of the fascia.

Horizontal Ranch Style Skirting

Deck Skirting

- Add a piece of 32mm picket to act as a lath to the inside of the post
- Screw through the rear of the lath into the rear side of the skirting board.



Fix skirting from the rear using a lath system, leaving no visible fixings. Fit a lath to the side of the post fixing at the top and bottom.

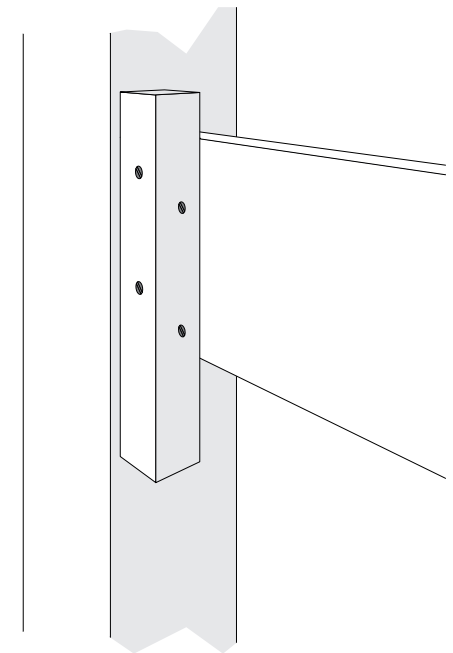
Fit an additional central lath where the sub-frame is more than 1200mm wide to prevent any bowing. Where the ground is uneven or sloping, cut the lowest skirt so that its top is horizontal and its bottom lays along ground level

SKIRTING / CLADDING INSTALLATION

Note

Ranch style horizontal skirting/ cladding to the install requires additional upright supports when the skirting width exceeds 1200mm.

Secure to the underside of the sub frame and ground.

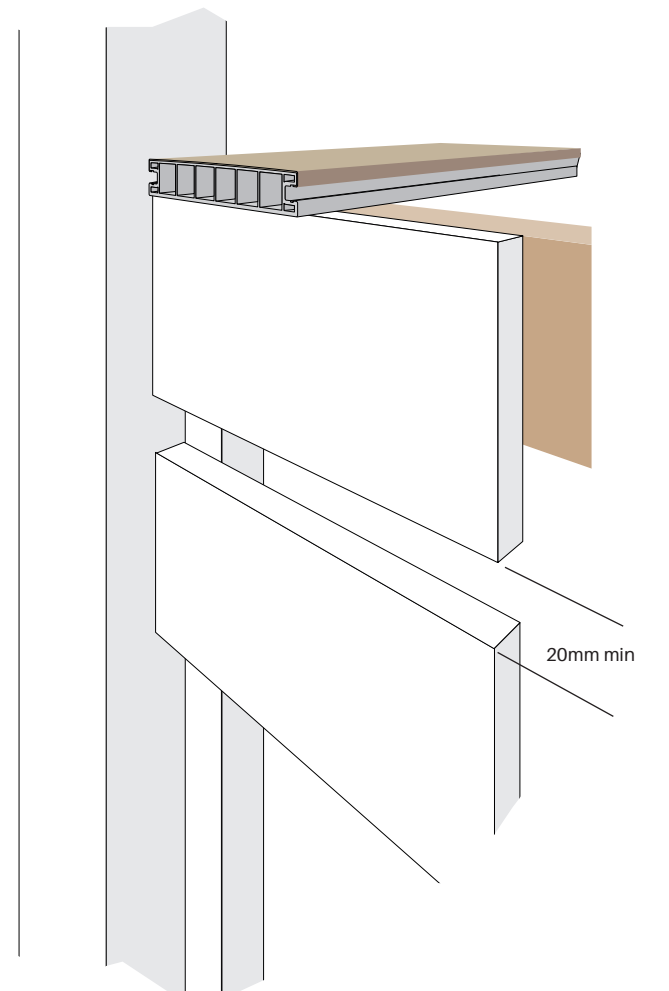
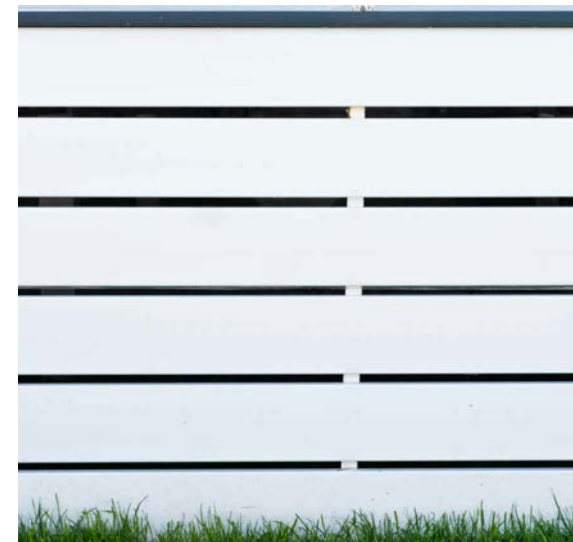


Note

View from inside, using picket.

Note

It is advisable that a minimum 20mm continuous ventilation gap is provided between skirting planks to provide adequate through ventilation.





LOADING

DekBoard has been tested for point loading, resulting in max load figures of 3.0kN at 400mm centres and 3.8kN at 300mm centres. Reference to 'BS EN 1991-1-1:2002 Actions on structures -Imposed loads for buildings' indicates a requirement of 2.0kN when used for balconies, light duty walkways and General residential use.

SLIP RESISTANCE

The decking surface provides for good slip resistance under wet or dry conditions due to the slight convex nature of the surface coupled with a raised tread pattern. The surface will shed water even when laid level.

When tested in-house to CEN/TS 15676 average figures were achieved of 56.8 in the dry and 48.8 in the wet. According to HSE guidelines, a Low Slip Potential classification is achieved with a value equal to or greater than 36.

FIRE RESISTANCE

DekBoard has been tested by BTTG to BS EN ISO 9239-1:2010 Reaction to fire tests for Floorings (under BSEN13501-1:2007+A1:20-09) and meets an overall classification of Class Bfl-s1.

POST SLEEVE, BALUSTRADES & GATES IN KITS

DekBoard supply Post Sleeve, Balustrade & Gates in kit form. Please also refer to our dedicated Post Sleeve, Balustrade & Gates kit installation instructions document.



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