Decking and balustrade system

MADE IN BRITAIN

DEKBOARD®

Trade Installation Guide

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

dekboard.co.uk

October 2022

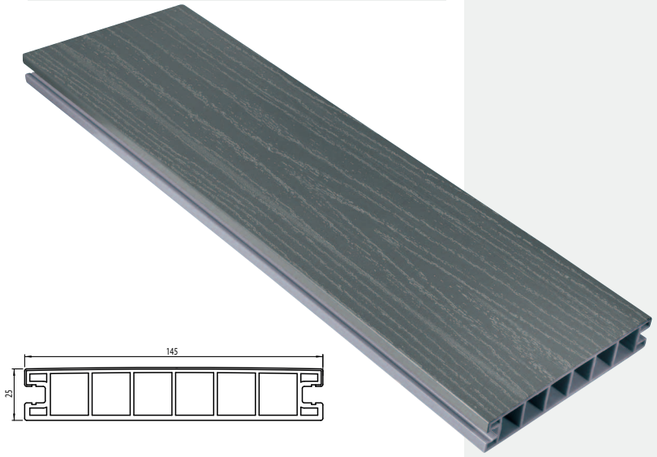
STORAGE

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

TIP

Estimating DekBoard Quantity

A 145mm x 4.902m decking board covers approx. 0.73m².



TIP

Estimating Deck Clip Quantity

Number of DekBoards x 17 (300mm centres)
x 13 (400mm centres)

TRADE INSTALLATION GUIDE

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 2.4m. Noggins that tie two bearers together should be inserted every 1.2m 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.

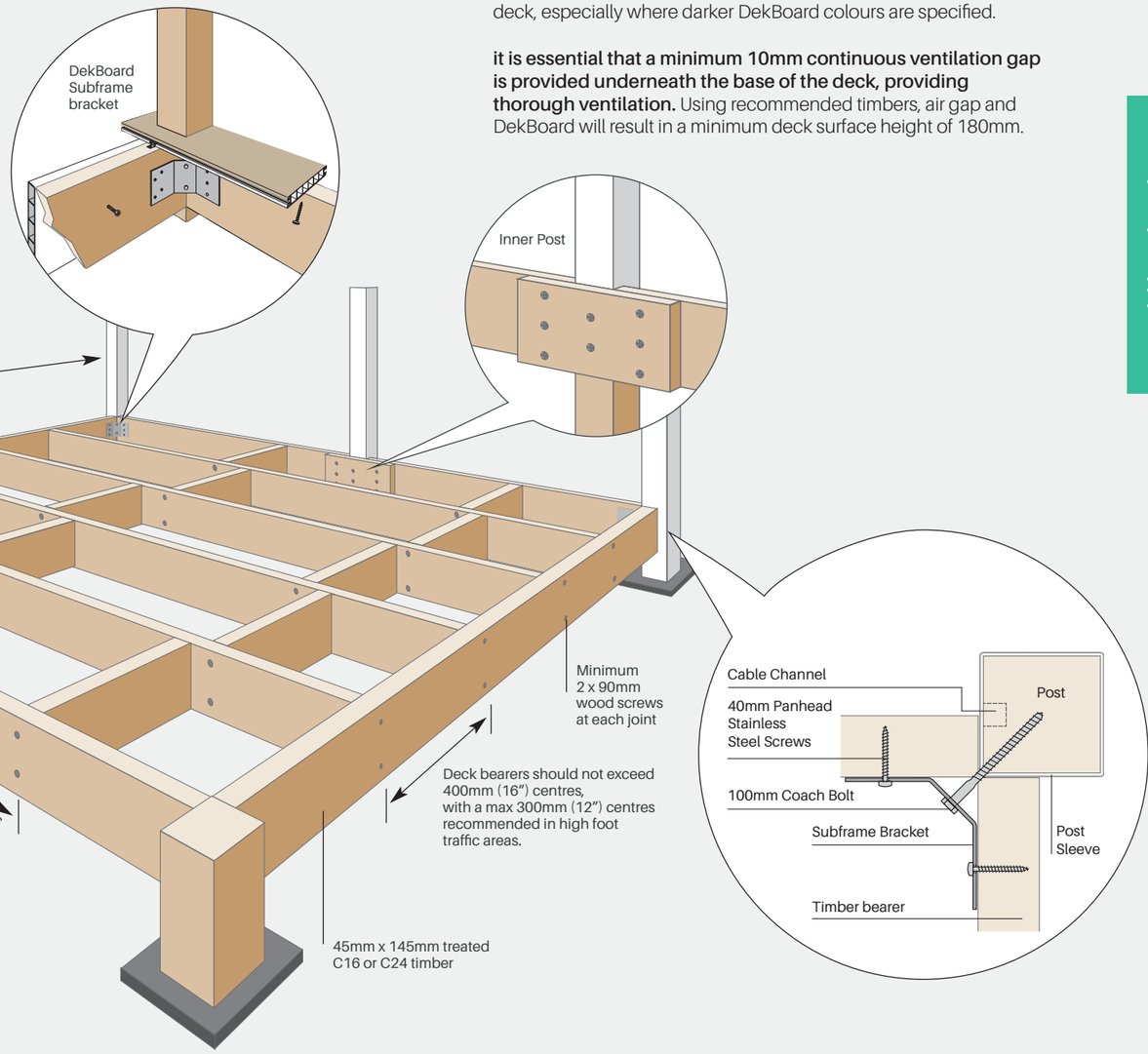
Allow a 5mm gap between board ends for expansion and always overlap adjacent board end joints by a minimum of two bearers.

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 180mm.



BALUSTRADE

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

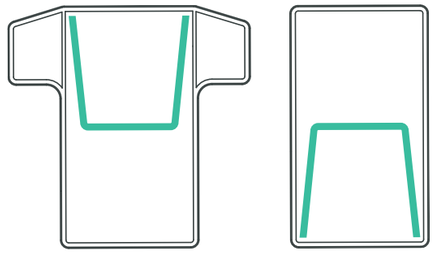
Code	Height of Deck	Min Height of Rail
Low Level	up to 600mm	900mm

Code	Height of Deck	Min Height of Rail
High Level	over 600mm	1100mm

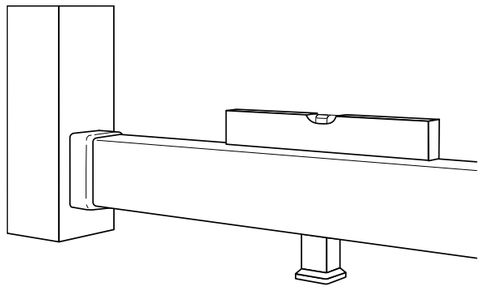
1. Top and bottom rails should be cut to length - Distance between posts minus 15mm, allows for the thickness of two brackets and an expansion gap at each rail end. Gaps between the last picket and post should not exceed 10mm.

Note Cuts should be made at both ends to keep the rail routing symmetrical.

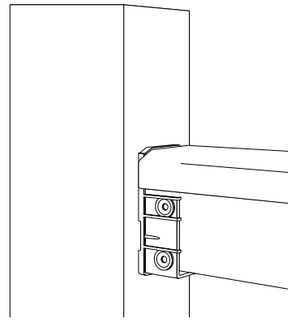
2. U Reinforcement is cut to the same length as the PVC Rail and inserted in the following orientation. Drill 2 x 10mm diameter holes in the base of the bottom rail to allow for drainage.



3. A foot block is secured to the underside of the bottom rail/ reinforcement at the mid-point using a 30mm stainless wood 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 of 30mm stainless steel countersunk wood screws.

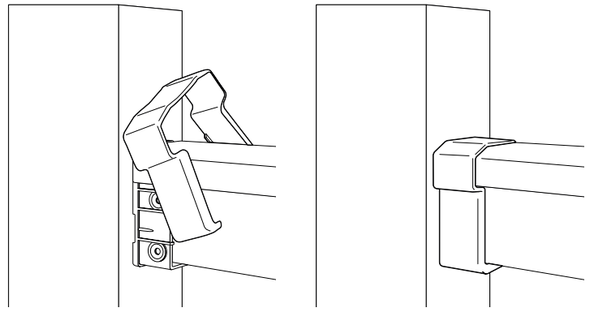


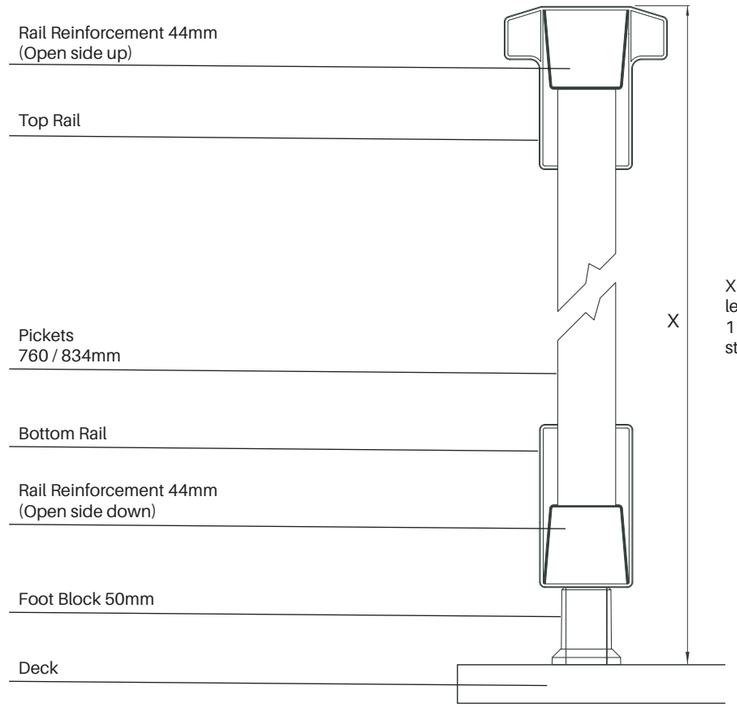
5. Assemble the top and bottom rails together with their pickets and drop the assembly into the bottom rail bracket bodies. Place a bracket body at each end of the top rail marking its position on the post. It should be possible to lean the rail and picket assembly aside to fit the bracket bodies. Secure using 4 of 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 2 of 4.8mm (no.10) x 19mm Self Tapping Screws. The reinforcement should be piloted with a 3.5mm drill.

Note Only 2 of the 4 bracket holes align with the U-reinforcement.

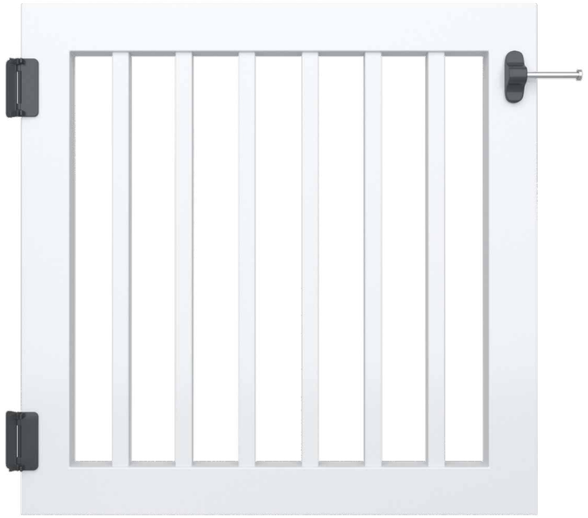
7. Brackets are finished by clipping on the bracket covers. (care should be taken to not over stress the bracket covers).





GATES

- Leave 40mm for latch and hinges. For example,our standard 960mm (W) gate fits a 1000mm gap between post
- Install gate top level with balustrade top
- Hinges are positioned inside rail brackets (gate latch & hinges sold separately)



Our standard gates are:

Rail Height	Dimensions
1000	960 (W) x 950(H)
1000	960 (W) x 950(H)
900	960 (W) x 850(H)
900	960 (W) x 850(H)

Gates are available in white & foils as per foil swatch and picket orientation can be diamond or square.

Made to Order with Minimum Order Quantities.
Fittings not included.

Please contact us to enquire about alternative sizes.

Standard

White (W)

Foiled

Golden Oak (GO)

Anthracite Grey (AG)

Rustic Oak (RO)*

Natural Oak (NO)*

Forest Green (FG) ◊

AnTeak (AT) ◊

Rosewood (RW) ◊

◊ Made to Order with Minimum Order Quantities

MAINTENANCE AND AFTERCARE

DEKBOARD®

It is vital that all decks are maintained correctly to ensure that they stay in optimum condition. We recommend the following things:

- Regularly wash all balustrade, hand rails and posts using warm water and mild detergent **ONLY**
- Use a stiff bristled brush to clean the deck boards, again using warm water and mild detergent **ONLY**
- You may also use a domestic jet wash to clean the deck boards **ONLY**

We recommend that you DO NOT do the following things:

- Scrub any of our products with abrasive papers, such as sandpaper etc
- Clean the deck boards or balustrades with any type of bleach or solvent
- Use of glass cleaner on any PVC-u components

Additional Tips:

- Any hot surface such as barbeques or similar should not be on or close to PVC-u decking construction.
- Please be aware that some rubber - backed mats can cause discolouration of deck boards over time
- Some brands of sun cream can permanently stain foiled balustrade finishes

Notes

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.

GATES & BALUSTRADES

DekBoard supply both Gate and Balustrades in kit form. Please see the dedicated Balustrade and Gate Kit – Installation Instructions.

10 YEAR Performance GUARANTEE

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