



# DEKBOARD®

Installation Handbook  
for Leisure Sector

The official installation guide for DekBoard's  
Authorised Installer Network

## Welcome to the DekBoard Authorised Installer Scheme

### We're delighted to have you on board!

The installer scheme becomes a partnership between DekBoard and the installer, where the installer agrees to work to these aligned techniques and values on their installations.

The techniques detailed in this booklet will help you to install decks which match the requirements of our national contracts and ensure that you meet our high standards of quality, service and aftersales.

### Health & Safety - Training Recommendations

All of our Authorised Installers are required to carry out regular health and safety awareness training, for example:

- Health and Safety at Work
- Manual Handling
- Driver Assessments
- Driving with a Trailer
- Abrasive Wheels
- First Aid
- Lone Working
- Working with Power Tools
- Safe Lifting

### Liability

- Minimum £10m Public Liability Insurance
- Suitable Employee Insurance
- PAT cert electrical equipment

### Toolbox

- First Aid Box
- Ear Defenders
- Man at Work Sign
- Chop Saw
- Skill Saw
- Jigsaw
- Cordless Drill
- SDS Drill
- Angle Grinder
- 6ft Level
- 4ft Level
- 3ft Level
- 16a Adaptor for Caravan
- 32a Adaptor for Caravan
- 240v 50m Extension Leads
- 240v 25m Extension Leads
- Breaker
- Turf Cutter (Optional)
- Shovels
- Squares
- Sliding Bevel
- Chalk Line
- String Line
- Hammer
- White Mallets
- Quick Clamps
- 25mm Hole Saw
- 13mm Socket
- 19mm Socket
- Large Axle Stands
- Medium Axle Stands
- Small Axle Stands

### Installation

Care should be taken when working in extreme windy and wet conditions. All Installations should take place at ambient temperatures between 5°C and 25°C.

Solvent adhesive or superglues must never come into contact /be used with foil surfaces. All products must be stored out of direct sunlight.

**Note:** Glass screens are known to intensify the effects of sunlight on plastic packaged items.

### DekBoard Non-stock Items

- C16 or C24 50x150mm nominal timbers for sub-frame
- C16 or C24 95 x 95mm nominal timbers for posts with 20 x 20mm notch out for cables if fitting lights
- Paving slabs
- Sand and cement
- Membrane
- Lights/cabling
- Steel L clips for securing starter boards
- T Star Washer Head Screws for steps

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**The DekBoard System**



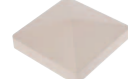
Deck Board  
145mm and 195mm wide boards



Post Sleeve



32mm square Picket



Post Cap



Post Skirt



Top Rail -  
Plain and Rounded



Bottom Rail -  
Plain and Rounded



150mm x 25mm Picket  
or Fascia Board for Skirting



Top Rail Bracket  
Straight



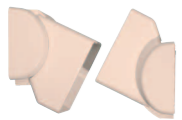
Bottom Rail Bracket  
Straight



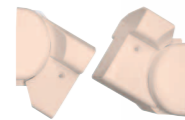
Top Rail Stair  
Bracket Kit 30°  
1 x up 1 x down



Bottom Rail Stair  
Bracket Kit 30°  
1 x up 1 x down



Universal Angle Top Rail  
& Bottom Rail Vertical (Kit) x 4 units



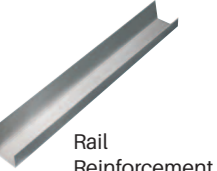
Universal Angle Top Rail & Bottom Rail Horizontal (Kit) x 4 units  
(Only Available in plain colours)



Welded Gate  
(hardware inc fixing screws sold separately)



Foot Block



Rail  
Reinforcement



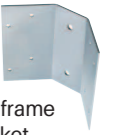
Ramp Post  
Mount



Latch



Hinges (set of 2)



Sub-frame  
Bracket



Infill Trim



D Trim



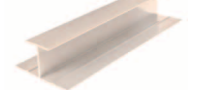
U-Channel (29mm  
x 29mm x 29mm)



Edge Trim



Fixed Angle (40mm  
x 40mm)



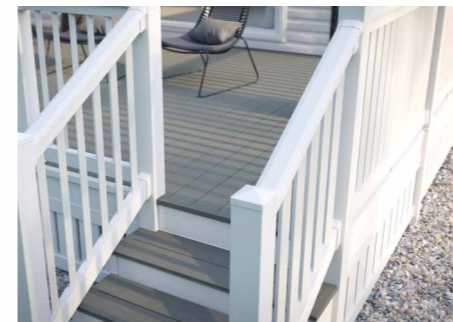
Joint Trim



Fixings  
(See page 16 for use)



Deck Clip L Bracket



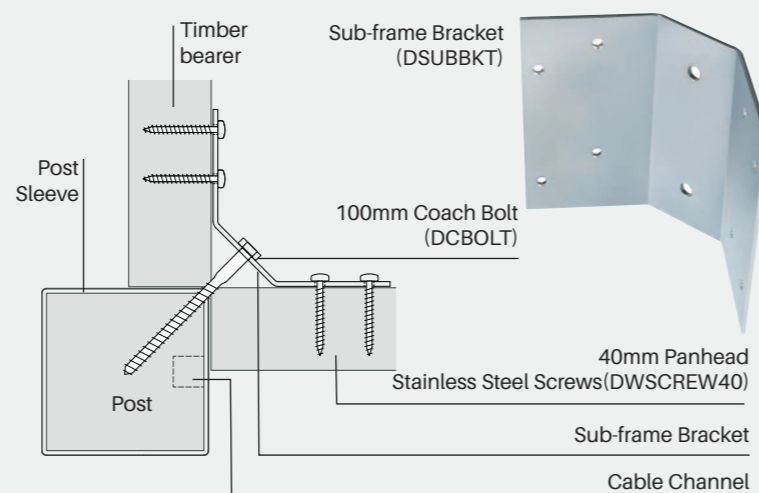
**note:** two step handrail options available;  
pickets and no pickets

## Building the Sub-frame

### Components

Build frames using at least C16 in quality (C24 recommended) timbers 50mm x 150mm nominal. Timbers max length 2220mm. Use DekBoard sub-frame bracket in each corner.

Posts should be 95x95mm at least C16 in quality (C24 recommended) timbers with 20 x 20mm notch out for cables if lights are being fitted.



### Dimensions of sub-frame and steps

All dims are edge to edge

Allow for 120mm gap around caravan from inner sub frame face to caravan/ lodge side

Max length or width 2220mm

Joist centres must not exceed 400mm

Use multiple sub-frames together with a post at each corner

When measuring the caravan side, ensure there is a gap of at least 700mm between back of last post and caravan door retaining clip

Steps are fitted at 30° gradient. 3 treads need a base of 843mm, 4 treads need a base of 1128mm.

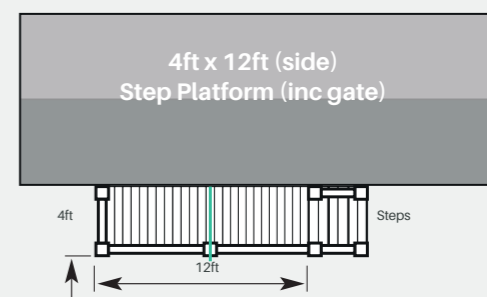
See detail on pages 8 & 9.

**TIP** Line up balcony corner in line with caravan / lodge corner, no over hang

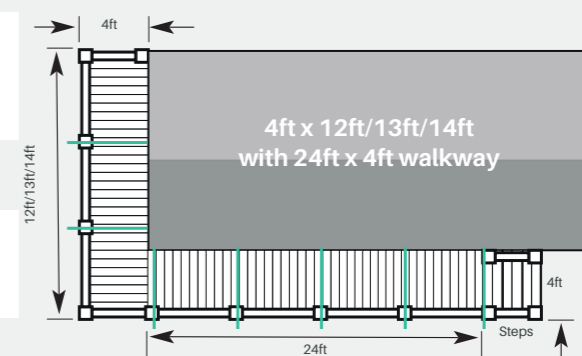
**TIP** Check alignment of Posts using a plumb-line

Typical installations may include side decks, front decks, ramps and full wrap around decks. The sizes and exact layout will vary depending on the park's own rules and requirements.

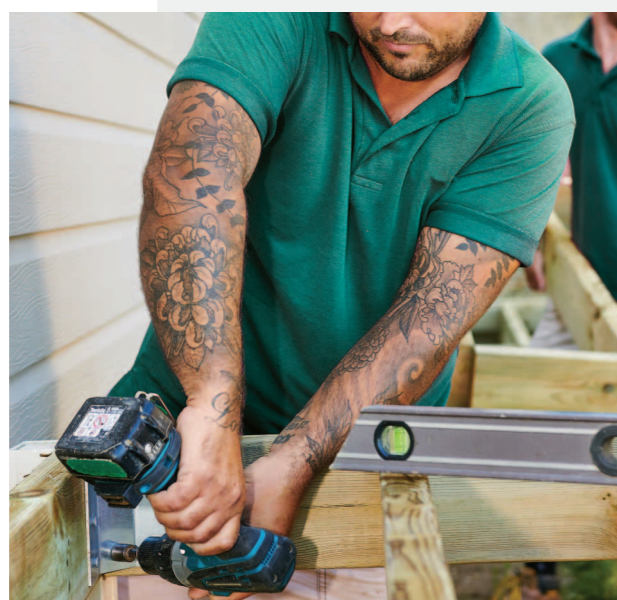
### Example of a side deck

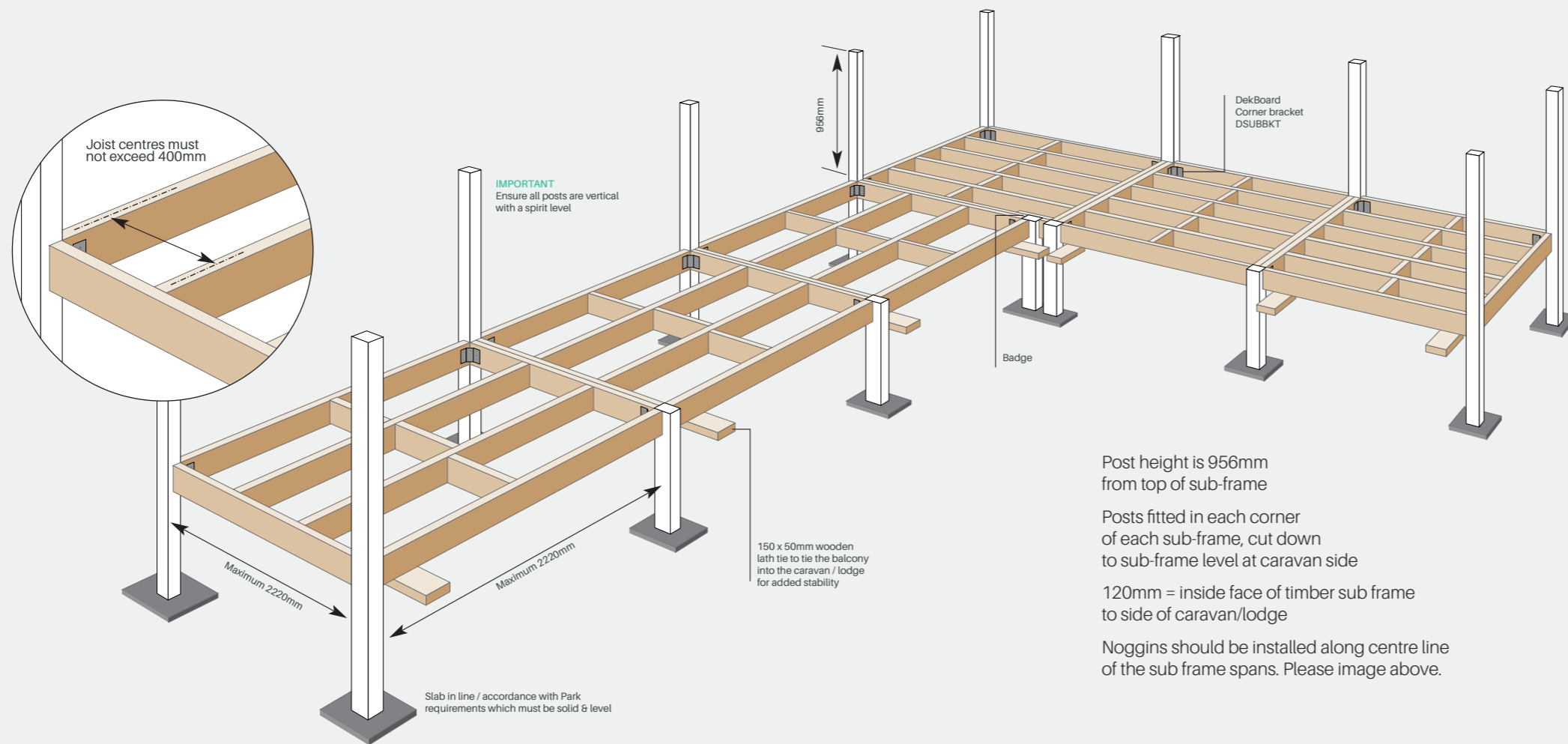


### Example of a wrap around deck



**TIP** Walkway end point, take consideration for door opening and latch, low level windows to avoid gate interference.





Post height is 956mm from top of sub-frame

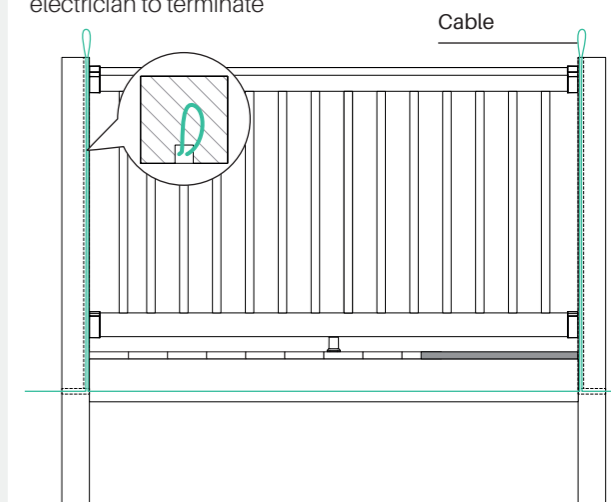
Posts fitted in each corner of each sub-frame, cut down to sub-frame level at caravan side

120mm = inside face of timber sub frame to side of caravan/lodge

Noggins should be installed along centre line of the sub frame spans. Please image above.

**Cabling for Lights**

If fitting lights, use a 95 x 95mm post with a 20mm x 20mm notch out of one side, run the cable in a loop up and down each post, ready for the electrician to terminate



**Steps**

Fit steps at nominal 30° gradient using the dimensions shown below.

Position gates 700mm from outside of corner post to door retaining clip

Allow a 40mm gap in addition to gate width for hardware

**Finding the sub-frame height**

Measure 35mm down from bottom of side door frame and take a string line along the side of the caravan and up to any other door frames. If other door frames are lower, take the lowest level and redraw a lower line maintaining 35mm to the lowest door frame.

Attach lath to each end and run string line along side of subframes to ensure completely in line (caravan maybe out of alignment).

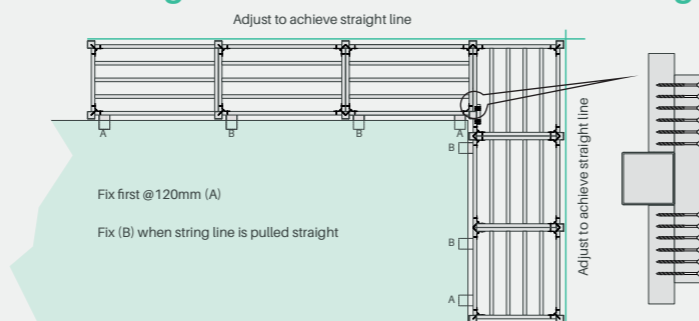
**Badging**

**Notching out along the bearer**

Use the BADGE system when notching out of side of frame for additional posts. Cut out the required space and reinforce from the rear with a piece of timber.

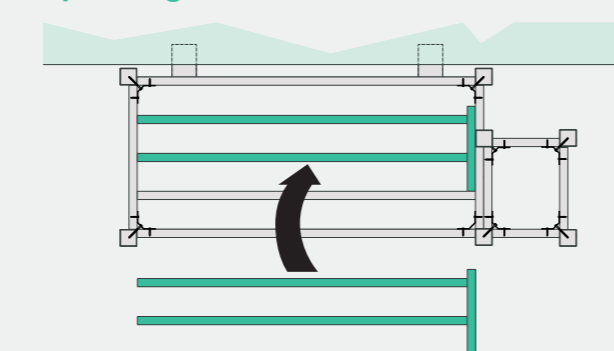
Steps badges are made externally and inserted into the frame.

**Positioning of ties**



Bearers run parallel with caravan wall and boards will be laid at 90° to caravan wall

**Steps Badge**

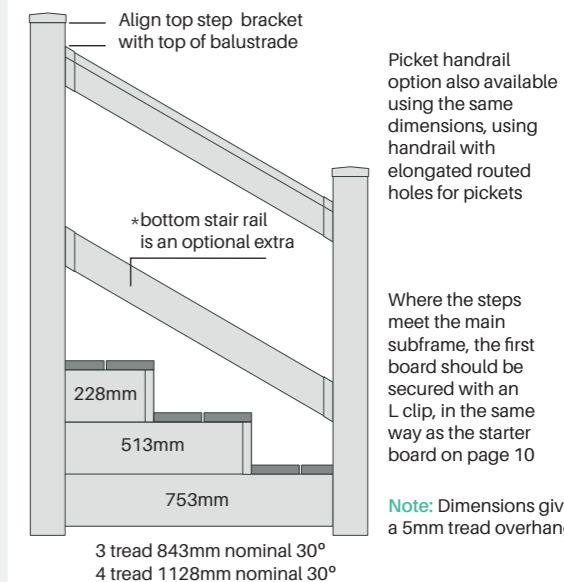
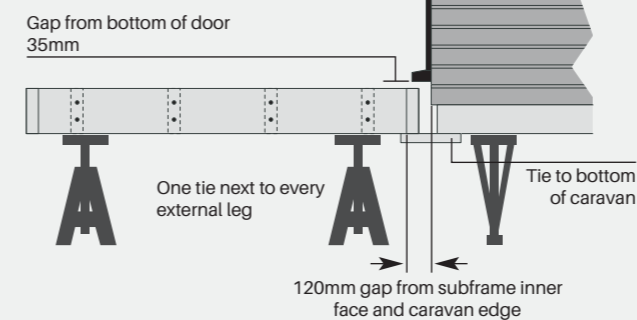


**Post Badge**

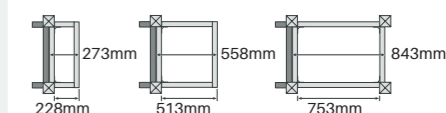
**Tying the deck to the underside of the caravan**

Use sub-frame offcuts 150 x 50mm nominal wooden lath to attach the sub-frame to the underside of the caravan leaving 120mm gap from subframe inner face and caravan side. Care to be taken not to block caravan / lodge ventilation paths.

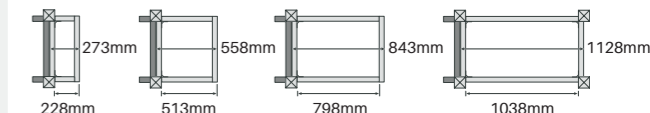
**TIP** Take care not to damage caravan/ lodge sub-frame / chassis



**3 Tread**



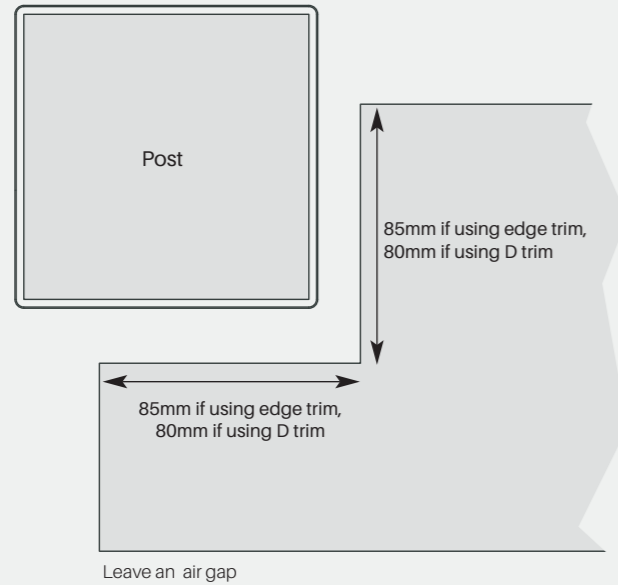
**4 Tread**



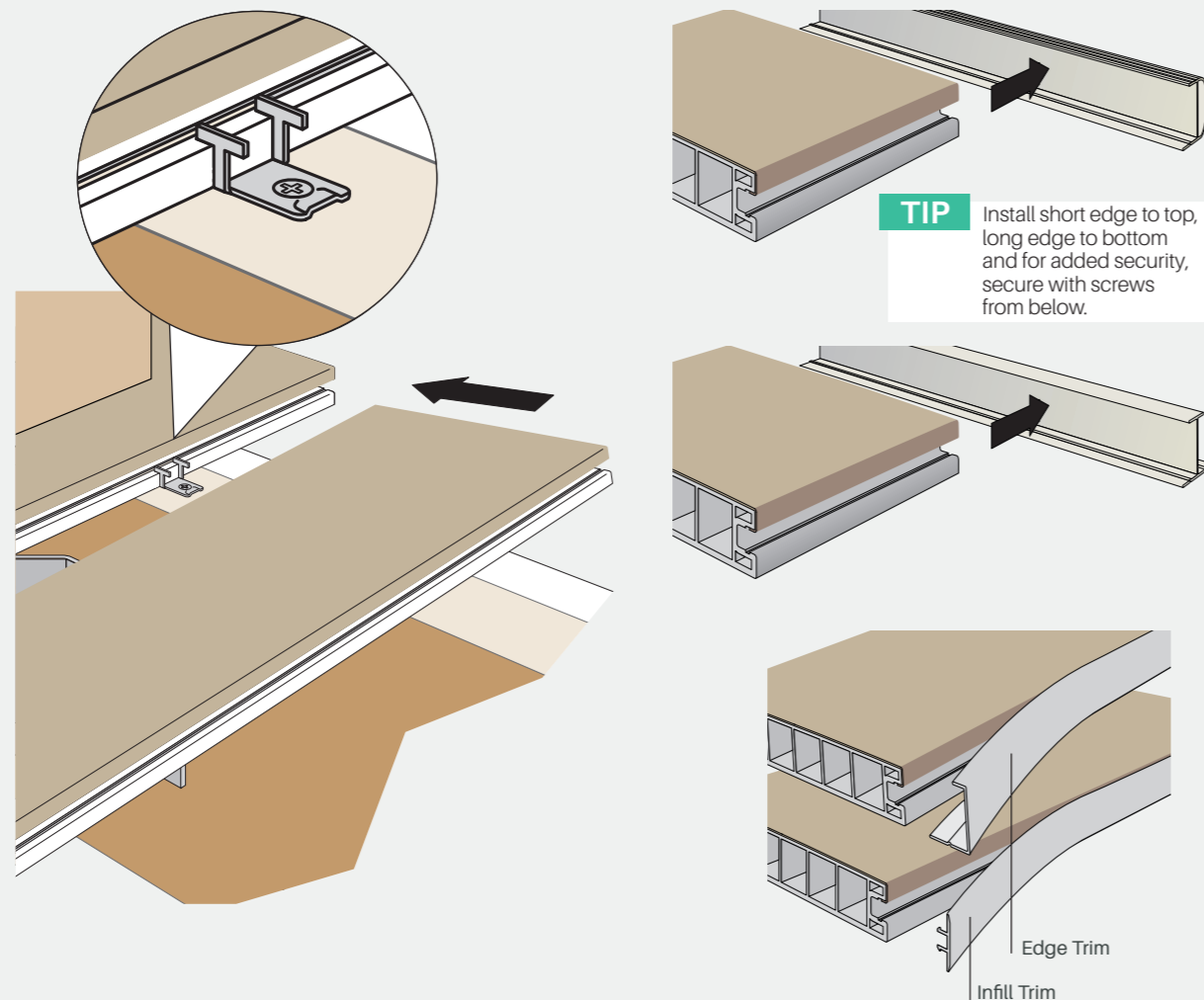
## Laying Decking Boards

### Cutting around Posts

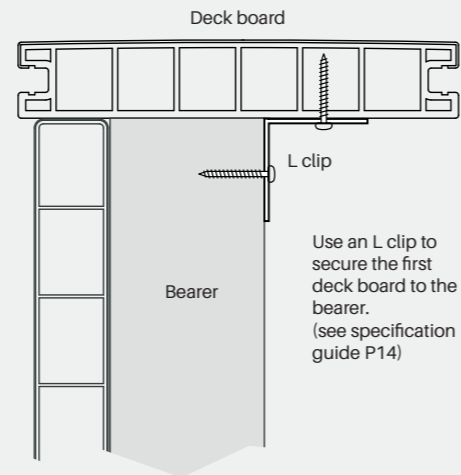
Lay boards at 90° to caravan wall



Fit trims to bearer closest to caravan wall first and slot boards in as you lay them, installing a clip at each bearer



### Starter Board



## Balustrade

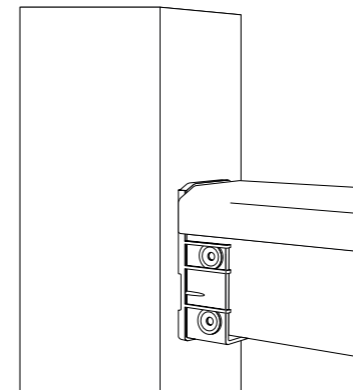
1. Top and bottom rails should be cut to length - Distance between posts minus 15mm, allows for the thickness of two brackets and an expansion gap at each rail end. Gaps between last picket and post should not exceed 100mm.

### Note

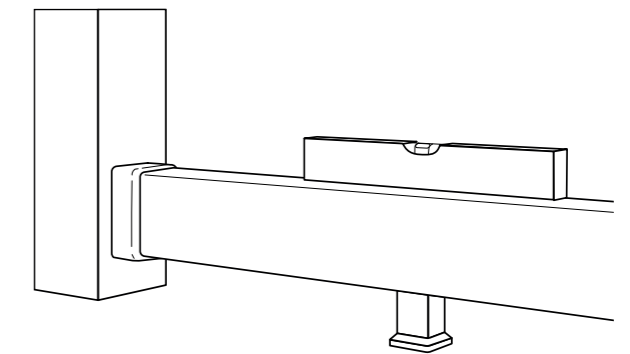
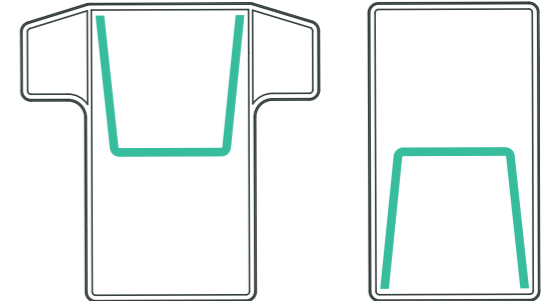
Cuts should be made at both ends to keep the rail routing symmetrical.

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 off 30mm stainless steel countersunk wood screws.



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.

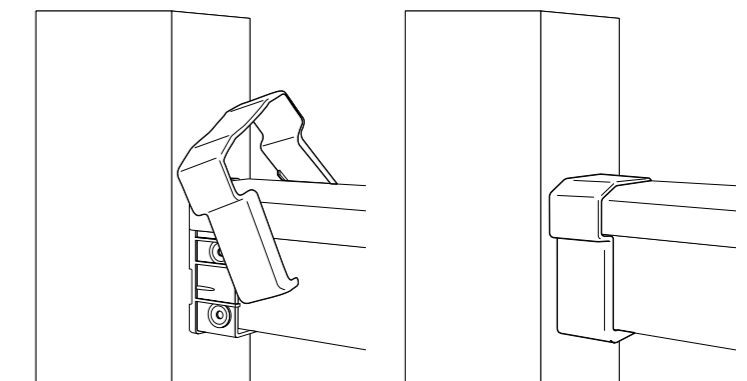


6. Ensure that the rails/reinforcement are centrally positioned before securing the rail assembly to the brackets via the side holes in the bracket body with 2 off 4.8mm (no10) x 19mm Self Tapping Screws. The reinforcement should be piloted with a 3.5mm drill.

### 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 not to over stress the covers).



## Welded Gates

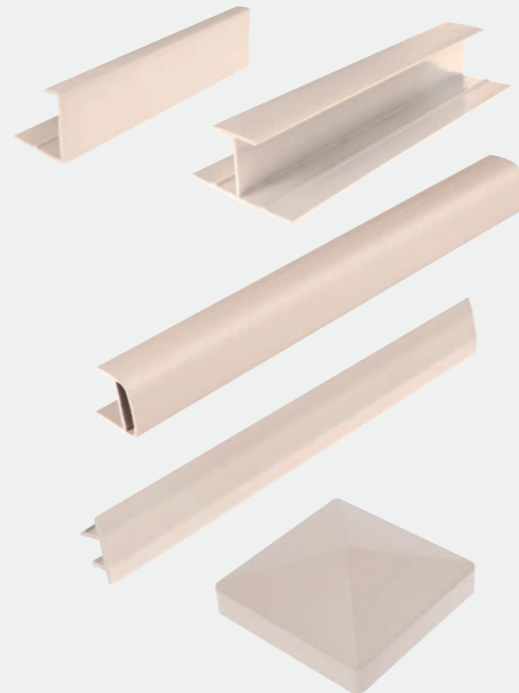
- Ensure there is a gap of at least 700mm between back of last post and caravan door retaining clip
- Gate should open on to railing, not caravan side
- Leave 40mm for latch and hinges. For example, a 1000mm gap will need a 960mm gate
- Install gate top level with balustrade top
- Hinges are positioned inside rail brackets (gate latch & hinges sold separately)

**TIP** You can order a master key set for gate latches, ask us for more information.



## Edging Trim

- Apply edge trim or D trim to outside of deck using mitred corners
- Fit Infill Trim to the deck area which meets the top of the steps.
- Screw steps down at each end and secure edge trim onto the open plank ends
- Use infill on step tread front face and D trim on step tread sides



## Post Caps

- Add post caps and / or lights to each post.

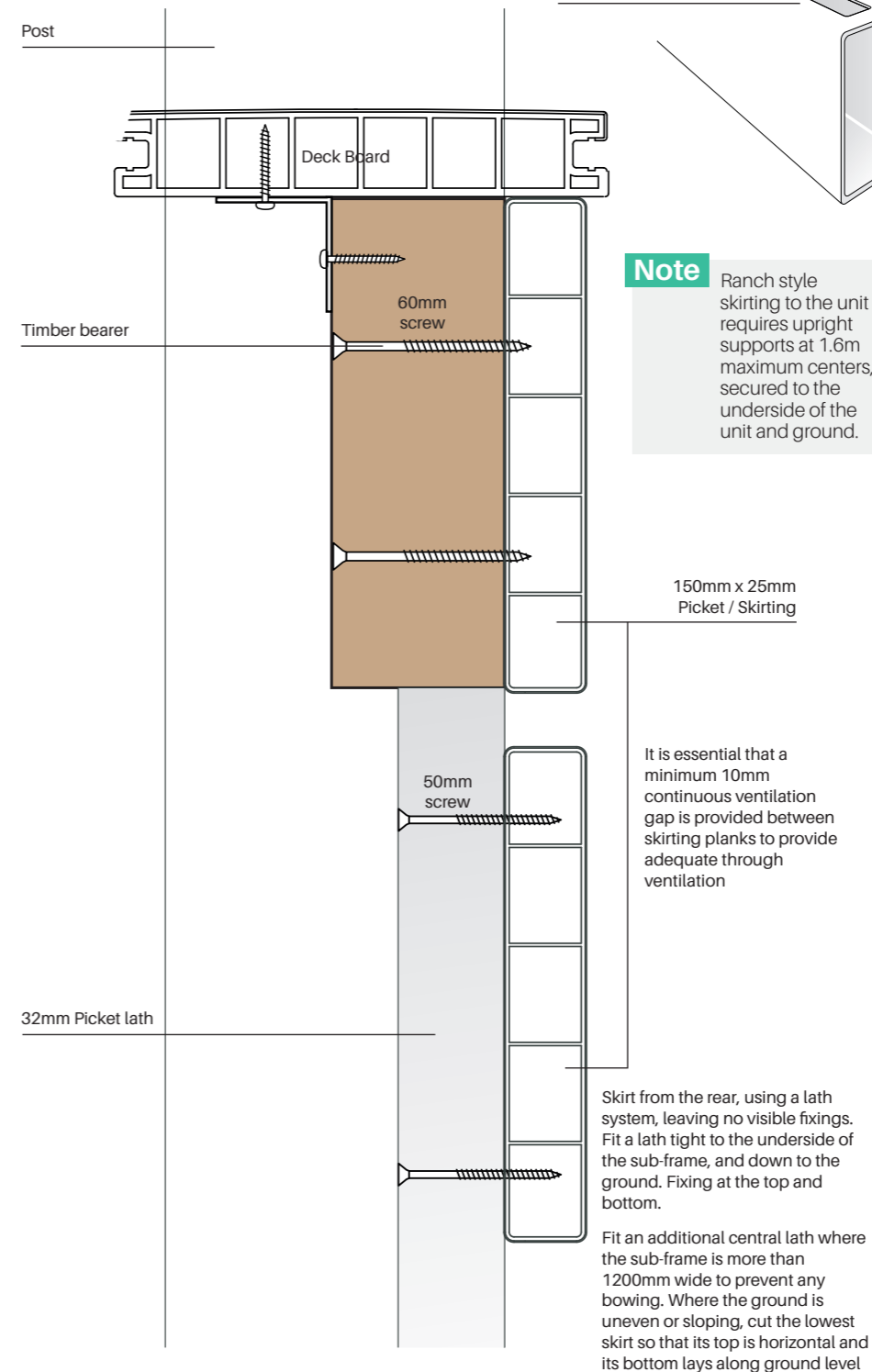


## Finishing

### Horizontal Ranch Style Skirting

#### Deck Skirting

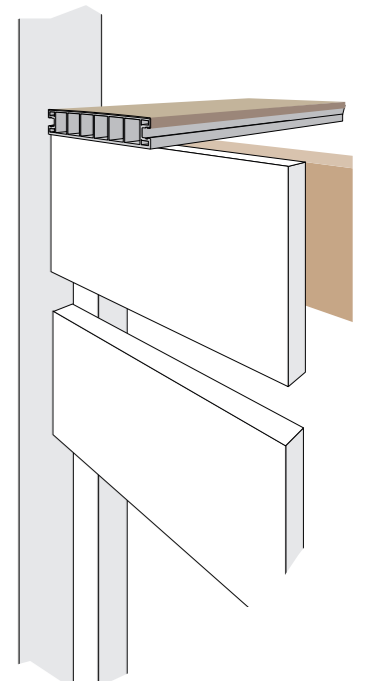
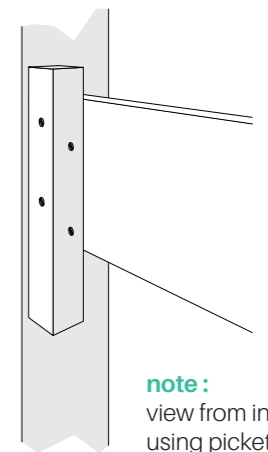
- Add a piece of 32mm picket to act as a lath to the inside of the post
- Screw through the rear of the lath into the inside side of the skirting board.



### Vertical Skirting

- Fix length of bottom rail routed for 150mm x 25mm picket to the underside of the unit and fix a second length to the ground
- Cut 150mm x 25mm picket to the required height (depth between unit and ground minus 130mm)
- Bottom rail requires a flexible material inserted to allow movement of and support picket insert
- Insert the 150mm picket between the top & bottom rail.

**note:** this option allows access under the decking & unit anywhere without the use of access panels / hatches



## Summary of DekBoard Aligned Techniques and Values

### General

- Observe site rules, ensure you have the correct permissions, tools, PPE, and vehicular access
- Use the entire DekBoard system

### Sub-frame & Steps

- Use at least C16 in quality (C24 recommended) timbers 150 x 50mm nominal
- Use max 2220mm sub-frames joined together
- Orientation of bearers should be perpendicular to caravan side
- Joist centres must not exceed 400mm
- Additional stair post cut out of sub-frame should be secured with a badge
- Locate sub-frames using axle stands to find correct height, height should be 35mm below lowest caravan door and should be 120mm away from caravan side
- Steps should be built to a nominal 30° gradient.
- Post height is 956mm from top of sub-frame and cut down to top of sub-frame on caravan side
- Mount all posts on a slab secured with sand and cement
- Ensure all posts are vertical with a spirit level.

### Attaching Sub-frame to the Caravan

- Attach deck to caravan underside using tie method on page 8. Add a timber tie next to every external leg and run a string line along the entire deck area to ensure the deck is perfectly straight as caravan may be out of alignment
- Take care not to obstruct caravan / lodge cladding ventilation paths

### Laying Deck Boards

- Fit deck boards at 90° angle to caravan side
- Position and secure edge trim or D trim to the side closest the caravan and slot boards into them
- For starter board, climb under and affix an L bracket to the bearer and the underside of the first board using 30mm screws
- Cut board around posts 85mm x 85mm if using Edge Trim, and 80mm x 80mm if using D Trim.

### Etiquette and Housekeeping

- Work neatly and safely
- Ensure all noise is kept to a minimum and consideration is given to nearby residents and park colleagues
- Represent DekBoard and the DekBoard family in a positive way
- Make good any damaged grass areas and sweep away any debris
- Take ALL offcuts and rubbish away with you and dispose of responsibly, recycling where possible.

### P 2 Rails, Balustrades & Brackets

- Use rail reinforcements for top and bottom rails
- Cut top and bottom rails as a pair ensuring the picket hole locations are aligned
- Ensure bottom rails are drained
- Leave a 5mm expansion gap at each rail end
- Use foot block, rail and spirit level to position bottom rail brackets
- Attach bottom brackets to post
- Slot in bottom rail and reinforcement
- Insert all pickets
- Slot top rail into position including top rail reinforcement
- Position, mark and fix top rail brackets to post
- Check pickets are vertical and centralise
- Screw through all bracket sides into reinforcement
- Add clip-on bracket covers clip on bracket shroud
- Repeat above for step brackets.

### Gates

- Position gates at least 700mm from outside of corner post to door retaining clip
- Allow a 40mm gap in addition to gate width for hardware
- Position hinges within the top and bottom rail positions.

### Trims and Finishing

- Finish the outside of the deck with either Edge Trim or D Trim
- Screw steps down at each end and glue edge trim onto the side open ends
- Fit D Trim to the deck area which meets the top of the steps
- Add post caps or lights
- Sweep and wipe down.

### P 11

### P 12

### P 13

## DekBoard Features



Low Maintenance



Slip Resistant



Robust



100% Recyclable



Long Life



Product Testing

## Maintenance and Aftercare

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

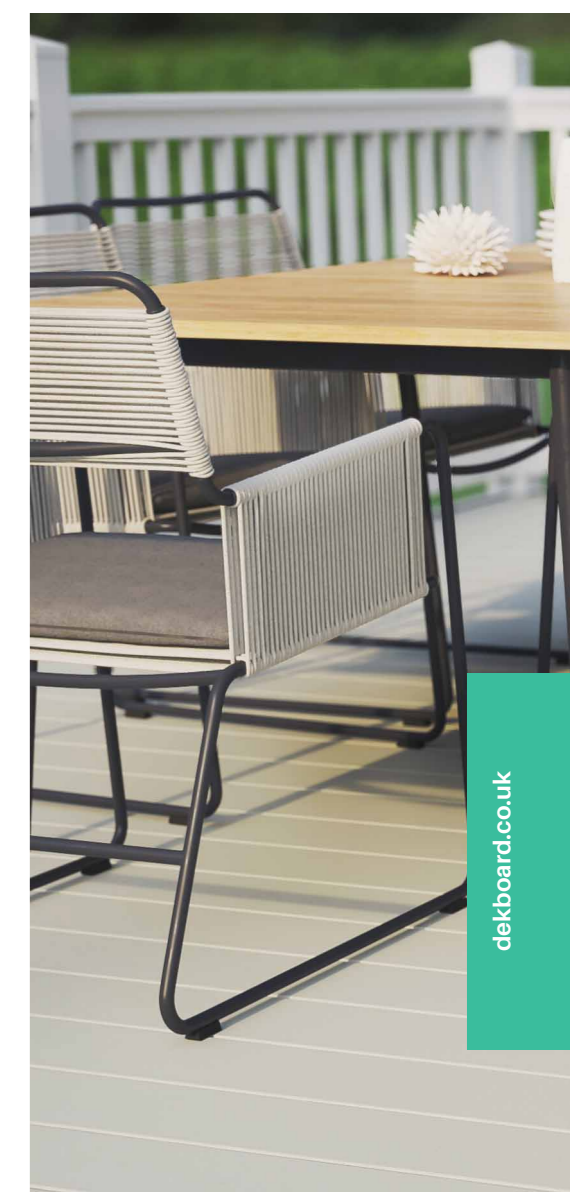
- Regularly wash all balustrade, hand rails and posts using warm water and mild detergent **ONLY**
- Use a stiff bristled brush to clean the deck boards, again using warm water and mild detergent **ONLY**
- You may also use a domestic jet wash to clean the deck boards **ONLY**

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



dekboard.co.uk





## Specifications and conversion tables

### Rail Picket Information

Standard Picket spacing Using Picket : 32mm x 32mm ( 1¼ " x 1¼ ")				
Rail length (m)	Picket orientation	Nominal Space between pickets (mm)	Picket Centre (mm)	Qty Pickets required
1.22	■	93	125.25	9
1.22	◆	97	139.95	8
1.828	■	92	124.25	14
1.828	◆	91	133.95	13
2.438	■	98	130.25	18
2.438	◆	95	137.95	17

Skirting Plank Picket spacing Using Picket : 150mm x 25mm ( 6 " x 1 ")				
Rail length (m)	Picket orientation	Nominal Space between pickets (mm)	Picket Centre (mm)	Qty Pickets required
4.876	■	34	184.5	26

All dimensions calculated to +/- tolerance



### Conversions

Conversions	
Feet	Metres
1	0.30
2	0.61
3	0.91
4	1.22
5	1.52
6	1.83
7	2.13
8	2.44
9	2.74
10	3.05
11	3.35
12	3.66
13	3.96
14	4.27
15	4.57
16	4.88
17	5.18
18	5.49
19	5.79
20	6.10
21	6.40
22	6.71
23	7.01
24	7.32
25	7.62
26	7.92
27	8.23
28	8.53
29	8.84
30	9.14
31	9.45
32	9.75
33	10.06
34	10.36
35	10.67
36	10.97
37	11.28
38	11.58
39	11.89
40	12.19
41	12.50
42	12.80
43	13.11
44	13.41
45	13.72
46	14.02
47	14.33
48	14.63
49	14.94
50	15.24

### DekBoard Quantity & Information

145 Plank		DekBoard PLUS Plank	
deck size @ 0.145mm	Number of boards	deck size @ 0.195mm	Number of boards
0.150	1	0.200	1
0.300	2	0.400	2
0.450	3	0.600	3
0.600	4	0.800	4
0.750	5	1.000	5
0.900	6	1.200	6
1.050	7	1.400	7
1.200	8	1.600	8
1.350	9	1.800	9
1.500	10	2.000	10
1.650	11	2.200	11
1.800	12	2.400	12
1.950	13	2.600	13
2.100	14	2.800	14
2.250	15	3.000	15
2.400	16	3.200	16
2.550	17	3.400	17
2.700	18	3.600	18
2.850	19	3.800	19
3.000	20	4.000	20
3.150	21	4.200	21
3.300	22	4.400	22
3.450	23	4.600	23
3.600	24	4.800	24
3.750	25	5.000	25
3.900	26	5.200	26
4.050	27	5.400	27
4.200	28	5.600	28
4.350	29	5.800	29
4.500	30	6.000	30
4.650	31	6.200	31
4.800	32	6.400	32
4.950	33	6.600	33
5.100	34	6.800	34
5.250	35	7.000	35
5.400	36	7.200	36
5.550	37	7.400	37
5.700	38	7.600	38
5.850	39	7.800	39
6.000	40	8.000	40
6.150	41	8.200	41
6.300	42	8.400	42
6.450	43	8.600	43
6.600	44	8.800	44
6.750	45	9.000	45
6.900	46	9.200	46
7.050	47	9.400	47
7.200	48	9.600	48
7.350	49	9.800	49
7.500	50	10.000	50

### Fixing Information

	Code	Unit	Application	Notes
 Coach Bolt (100mm)	DCBOLT	Box 50	Sub-Frame Bracket to Post	Stainless Steel 13mm head
 Wood Screw Countersunk (90mm)	DWSCREW90	Box 100	General sub-frame assembly	Yellow plated- no pilot hole required (60mm of thread)
 Wood Screw Countersunk (60mm)	DWSCREW60	Box 200	Fascia board to sub-frame	Yellow plated- no pilot hole required
 T Star Washer Head Screw (60mm)	Non stock item		Step Tread	Stainless steel
 Wood Screw Countersunk (50mm)	DWSCREW50	Box 200	Fascia board with lath	Yellow plated- no pilot hole required
 Wood Screw Pan Head (40mm)	DWSCREW40	Box 100	Sub-Frame Bracket to frame	Stainless steel
 Wood Screw Countersunk (30mm)	DWSCREW30	Box 1000	Deck Clips Fixed Position starter board Rail Brackets	Stainless Steel
 L Clip	Non stock item		L Clip	19 x 19mm Steel Angle Brace

## Test Results

### Slip Resistance Testing

DekBoard decking is an extruded PVC profile that has a timber effect pattern impressed into the tread surface.

The decking profile has an excellent level of slip resistance under either wet or dry conditions. This due to:

- the slightly convex nature of the tread surface which is able to shed water rapidly even when laid level
- the raised pattern on the tread surface which provides good contact between footwear and the deck.

DekBoard® has been tested for slip resistance at Ecodek, a sister company to DekBoard within the Epwin Group (Sept 2018).

The test regime was carried out to CEN/TS 15676. According to HSE guidelines, a Low Slip Potential classification is achieved with a value equal to or greater than 36.

DRY Horizontal	DRY Vertical	DRY 45°	Average All	WET Horizontal	WET Vertical	WET 45°	Average All
47.0	65.0	59.0		42.0	55.0	51.0	
47.0	65.0	58.0		43.0	54.0	51.0	
48.0	62.0	59.0		41.0	53.0	50.0	
47.0	64.0	60.0		42.0	54.0	51.0	
46.0	65.0	59.0		43.0	53.0	51.0	
48.0	63.0	58.0		43.0	54.0	50.0	
49.0	65.0	60.0		42.0	53.0	51.0	
47.0	64.0	61.0		43.0	53.0	50.0	
48.0	64.0	58.0		42.0	54.0	51.0	
47.0	63.0	58.0		42.0	53.0	51.0	
<b>47.4</b>	<b>64.0</b>	<b>59.0</b>	<b>56.8</b>	<b>42.3</b>	<b>53.6</b>	<b>50.7</b>	<b>48.8</b>

### Fire Performance

DekBoard has been tested for reaction to fire in accordance with BS EN 13501-1:2018 and achieved an overall classification of Class Bfl-s1.

#### BS EN 13501-1:2018

Under BS EN 13501-1:2018 the fire classification of construction products and building elements are considered in relation to their end use or application.

The Standard sets out the reaction to fire classification procedure for the majority of construction products, including products incorporated within building elements.

There are three main product categories:

- Construction products, excluding floorings and linear pipe thermal insulation products.
- Floorings.
- Linear pipe thermal insulation products.

DekBoard has been tested under the Floorings category to BS EN ISO 9239-1:2010\* Reaction to fire tests for Floorings and BS EN ISO 11925-2:2010 Single-flame source test.

This method is applicable to all types of flooring ranging from metal through to wood and synthetic materials. Results obtained by this method reflect the performance of the flooring, including any substrate if used.

\*ISO 9239-1:2010 specifies a method for assessing the wind-opposed burning behaviour and spread of flame of horizontally mounted floorings when exposed to a heat source.

### Load span technical information

All DekBoard® decking products have been load tested.

#### DekBoard® point loads tested at different spans.

Table 1 shows point loads against spans to ensure you can choose the correct bearer spacing to ensure you comply with 'BS EN 1991-1-1:2002 Actions on structures - Imposed loads for buildings'.

Table 1.	DekBoard		
SPAN (mm)	300	350	400
Max point load (kN)*	5.0	4.2	3.6

#### Point loads requirements for different flooring media (BS EN 1991-1-1:2002).

Table 2 below shows an extract from BS EN 1991 that demonstrates what point loads the flooring media should be able to support. These loads are mid-span live loads. Dead loads should be supported in a different manner whereby the load is spread over the support beams to ensure long term board deflection is prevented.

Table 2. BS EN 1991-1-1:2002 Actions on structures - Imposed loads for buildings	Point Load kN (mid-span)
Balconies	2.0
Walkways - Light duty	2.0
General residential	2.0
Offices for general use	2.7
Public, institutional and communal dining rooms and lounges, cafes and restaurants	3.0
Classrooms	3.0
Assembly areas with fixed seating	3.6
Walkways - General duty	3.6
Assembly areas without seating, concert halls and bars	3.6
Shopping areas - General	3.6
Stairs & landings in all buildings incl. hotels & institutional buildings subject to crowds	4.0
Corridors, hallways, aisles, in all buildings incl. hotels & institutional buildings subject to crowds or wheeled vehicles incl. trolleys	4.5
Walkways heavy duty (high density pedestrian traffic including escape routes)	4.5

It is important to ensure you design your substructure to comply with the uniformly distributed load (UDL) values (commonly expressed in kN/m<sup>2</sup>), which are also expressed in BS EN 1991.

\*Test conducted at 19°C



## Guarantee - 10 Year Performance

We are so confident about the quality of DekBoard that we guarantee its structural performance for 10 years. DekBoard is made in the UK under strict quality, environmental and health and safety management systems. All our decking boards are regularly checked for size, shape and the quality of the finish. They are also tested for fire resistance, slip resistance, wear resistance and load carrying capacity.

### About DekBoard

DekBoard are part of Specialist Building Products Ltd, owned by Epwin Group PLC. We have 40 years' manufacturing experience across 3 factories, and 20 years' experience in the manufacture of PVC and composite decking.

The manufacturing site of DekBoard is conveniently placed centrally in the UK, employs around 300 people and typically extrudes around 1 million linear metres of PVC building products each year across over 9,000 unique product codes. We live by the following values:

- Environment
- Circular Manufacturing
- Quality Management
- Customer Care

recovynyl



PARK HOLIDAYS



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