

## Installation Guide & Product Manual



### Scaffold-Based Decking System

A Patented System with a load capacity of  
 $1430\text{kg/m}^2$  ( $14.3\text{kg/m}^2$ ) (UDL)

The Strongest in the Industry.

# Buildeck Ltd

## Installation Guide & Product Manual

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## **1.0 Safety Checks**

### **Pre-Installation Component Checks.**

- 1.1 All components should have a thorough visual inspection by a Competent person prior to installation.
- Any signs of Fatigue, or Structural damage the component must be removed from service.
  - Any debris such as Glue, Cement or Brick Mortar should be removed prior to use.

### **Pre-Installation Site Checks. (Before installing the Decking System).**

- 1.2 Site must be visually checked prior to Installation and must be of sufficient strength to support the combined weight of the decking system, all loaded materials, and operatives.
- The Buildeck system is designed to be used internally on building structures.
  - Surface area the decking system is to be installed onto must be checked and be clear of any debris that can affect the levelling or integrity of the decking system.
  - Combined loaded weights (Operatives, Tools and Materials), should not exceed the maximum permissible weight at any time.

### **Post Installation Site Checks. (Before signing system over as fit for use).**

- 1.3 Site/System must be visually checked after Installation by a Competent Buildeck Trained and Certified person to ensure Decking System has been installed as per the Manufacturers Guidelines.
- All Buildeck components have been used in accordance with the manufacturer's guidelines.
  - Any issues found should be rectified prior to signing over the system fit for use, stating on the hand over document what UDL – in kN it can be loaded to.

### **Regular Interval Site Checks. (Throughout the usage period of System).**

- 1.4 Site/System must have a visual inspection daily prior to usage. This must be carried out and recorded by a Competent Buildeck Trained and Certified Installer. A thorough examination of the Buildeck System should be carried out every 7 days. All findings recorded, and all defects remedied.
- All defects and / or Damaged / Broken / Missing components rectified / replaced prior to allowing System to be used.
  - All damaged components must be retired from service immediately.

## System Loading.

2.0 The Buildeck System must only be loaded as per the manufacturers guidelines as outlined below.

- Buildeck System is Certified to 1430kg per m<sup>2</sup>. This can be a combination of any of the following. (Operatives, Tools and Materials).
- Surface area where decking system is to be installed must be designed and capable to carry the combined weight, (Operatives, Tools and Materials), that is to be place upon the decking system.
- Material Loads must be uniformly distributed across the decking system panels. (Figure 2.1)
- Standard scaffold Base Plates must be used below every standard supporting the decking system to assist in spreading the weight evenly and prevent damage to supporting surface area.
- Where heavier loads are anticipated the use of standard Scaffold Sole Boards is recommended, to assist in spreading the weight evenly and prevent damage to supporting surface area.
- It is recommended that Lap Panels should not be loaded on at any time.

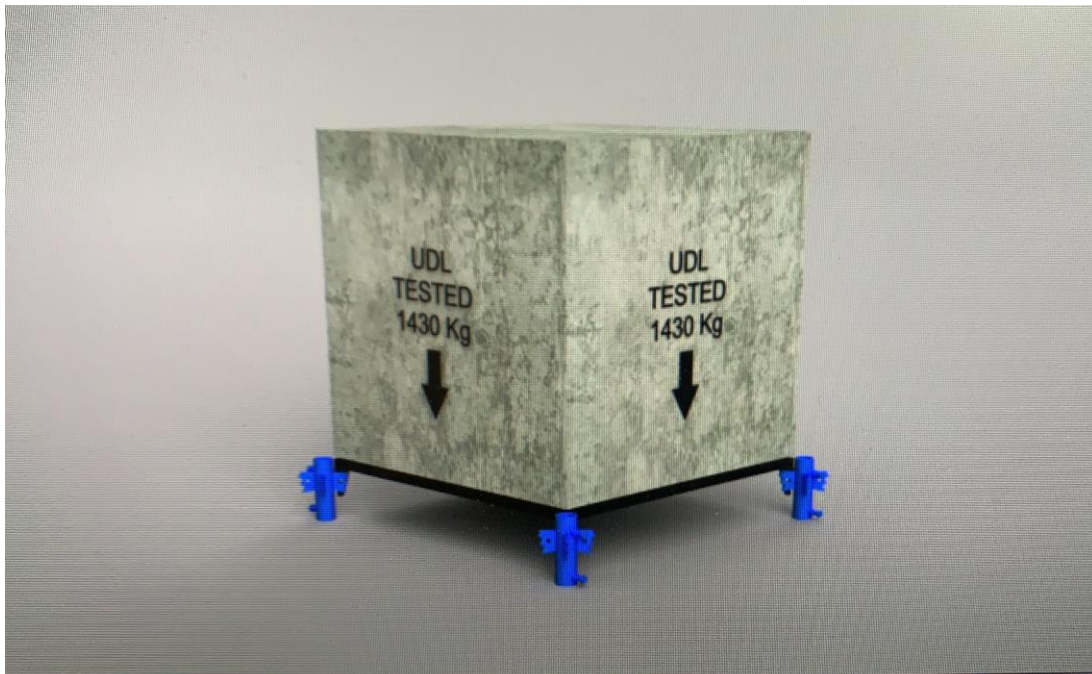


Figure: (2.1)

## Installation Overview & PPE Requirements.

3.0 The Buildeck System must be installed as per the Manufacturers Guidelines.

- Only Competent and Certified staff can install Decking System unsupervised. CSCS Card (Platform Decking System - Manufacturer Specific Endorsed).
- CSCS Red or Green Card holding apprentices should always be under immediate supervision, and only assist in loading out and assembly and removal of the system.
- All local Health and Safety Guidelines should be followed as per normal site management procedures, along with correct PPE being always worn, **High Viz Top, Gloves, Steel Toe Cap Boots, Hard Hat, and Eye Protection.**
- The Buildeck system is designed to be used internally on building structures.
- Surface area the decking system is to be installed onto must be checked and be clear of any debris that can affect the levelling or integrity of the decking system.
- Combined loaded weights (Operatives, Tools and Materials), should not exceed the maximum permissible weight at any time.
- It is recommended that Installers start in opposite corners of each room. As this will leave a smaller more efficient gap to be covered with Lap Panels.
- Lap Panels 1m x 1m should not be used on Gaps Larger than 800mm to the narrowest side.
- Lap Panels 1m x 430mm should not be used on Gaps larger than 300mm to the narrowest side.
- Gaps at the side of the Decking System must be no larger than site/main agents' requirements. This can differ from house builder to house builder. (Max Industry permitted gap is 100mm). It is the installers responsibility to check and adhere to local guidelines.



## Installation. (Continued)

- 4.0 Surface area the decking system is to be installed onto must be checked and be clear of any debris that can affect the levelling or integrity of the decking system. (Figure: 4.0.1) The Starter Bar which incorporates 4 base plates can be used to square up the Buildeck system when starting a Building Plot if required. (Figure: 4.0.2)



Figure: (4.0.1)



Figure: (4.0.2)

- 4.1 Standard lengths of ordinary Scaffold Tube cut at pre-determined lengths to give the required Decking System finished height as per installers requirements, with Buildeck Standard Collar's securely fitted on top can now be inserted into the Buildeck Starter Bar. (Figure: 4.1.1) The system is designed for them to stand up unassisted for the installer to insert the remaining two Standards to complete the correct number of Standards to support one Deck Panel. (Figure: 4.1.2) All Securing Bolts should now be tightened to the standard Scaffolding required Torque levels. (Figure: 4.1.3)



(Figure: 4.1.1)



(Figure: 4.1.2)



(Figure: 4.1.3)

- 4.2 The standard Buildeck Panel can now be placed on to the Collar's, (Figure: 4.2.1) ensuring all four feet of the panel are correctly inserted on the receiving ears on each Collar. (Figure: 4.2.2) Ensure holes on Panel Feet and Collar Ears line up. All remaining securing bolts can now be tightened to recommend torque settings. (Figure: 4.2.3)



(Figure: 4.2.1)



(Figure: 4.2.2)



(Figure: 4.2.3)

- 4.3 All Securing Bolts should now be tightened to the standard Scaffolding required Torque settings. (Figure: 4.1.3) the next Standard Buildeck Panel can now be hung via two of its feet into the assembled and secured Buildeck Collar's. (Figure: 4.3.1). This can be left to hang securely on these two feet whilst the installer inserts the next Standards which must always be stood on to a normal Scaffold Base Plate, and additionally Sole Boards beneath if required. (Figure: 4.3.3)



(Figure: 4.3.1)



(Figure: 4.3.2)



(Figure: 4.3.3)

- 4.4 This process can be repeated until the room is filled from wall to wall, (Figure:4.4.1) ensuring all Standards are level as you go. (Figure: 4.4.2) If required a Gap must be left for a Lap Panel to take up an unusual size this should also be noted and followed at this time. Once the first row is completed two Standard Scaffold braces must be installed following the manufacturer's guidelines. (Figure: 4.4.3)



(Figure: 4.4.1)



(Figure: 4.4.2)



(Figure: 4.4.3)

- 4.5 The next row of Standard Buildeck Panels can now be installed on the facing edge of the installed first row. Again, the next Standard Buildeck Panel can now be hung via two of its feet into the assembled and secured Buildeck Collar's. (Figure: 4.5.1) This can be left to hang securely on these two feet (Figure: 4.5.2) whilst the installer inserts the next Standards which must always be stood on to a normal Scaffold Base Plate, and additionally Sole Boards beneath if required. (Figure: 4.5.3)



(Figure: 4.5.1)



(Figure: 4.5.2)



(Figure: 4.5.3)



4.6 The next Standard Buildeck Panel can now be installed into the internal corner which has now been created. (Figure: 4.6.1) This can be left to hang securely on these three feet (Figure: 4.6.2) whilst the installer inserts the next Standards which must always be stood on to a normal Scaffold Base Plate, and additionally Sole Boards beneath if required. (Figure: 4.6.3) The steps shown in the manual can now be repeated until the room is filled with the Decking System as per the Engineers Drawings. Once final safety checks have been completed and the proper handover procedure has been followed the Buildeck Decking System is now ready to be worked from by required tradesmen.



(Figure: 4.6.1)



(Figure: 4.6.2)



(Figure: 4.6.3)

4.7 Where the installer comes to the situation that the Buildeck System does not fit the room leaving only acceptable gaps around the edge, Buildeck Lap Panels can be installed to take up any odd size/shape gaps. (Figure: 4.7.1) It is recommended that Installers start in opposite corners of each room as per manufacturers guidelines. As this will leave a smaller more efficient gap to be covered with Lap Panels. 1m x 1m Lap panels should not be used on Gaps Larger than 800mm to the narrowest side, 1m x 430mm Lap Panels should not be used on Gaps larger than 300mm to the narrowest side, and 1m x 250mm Lap Panels should only be used long ways to bridge gaps no smaller than 800mm for example in a doorway situation to bring the gap to brick/blockwork to an acceptable size. Gaps at the side of the Decking System must be no larger than site/main agents' requirements. This can differ from house builder to house builder. (Max Industry permitted gap is 100mm). It is the installers responsibility to check and adhere to local guidelines.



(Figure: 4.7.1)

4.8 Lap panels can be installed from beneath, by lifting the Lap Panel up through the existing gap and placing it evenly across the gap with the same amount of overlap on either side, onto the already installed Buildeck Panels. (Figure: 4.8.1). Lap Panels are easily identified by being the colour yellow, as shown in (Figure: 4.8.2). Lap Panels should be secured in place by using approved Cam Straps in the appropriate manner. (Figure: 4.8.3).



(Figure: 4.8.1)



(Figure: 4.8.2)



(Figure: 4.8.3)

## Toe Board & Handrail Installation.

5.0 Toe Board (Figure: 5.1.1) & Handrail (Figure: 5.1.2) installation can be installed where required onto the Standard Buildeck System using Standard Scaffold Boards, Tubes and Clips, thus being fully compliant to BS EN 13374.



(Figure: 5.1.1)



(Figure: 5.1.2)

## Ladder Hatch Installation.

6.0 On plots where a safe Access/Egress to and from the 1<sup>st</sup> Floor is required, the Buildeck ladder Hatch can be installed. This is to be installed from beneath like all Buildeck products onto either Standard Buildeck Collar's or where a non-standard height is to be achieved Adjustable Height Buildeck Stairwell Collar's, the Variable Height Collar's must be checked using a standard Load Bearing Scaffold Clip. (Figure: 6.1.1). The Ladder Hatch can be installed at the edge or in the middle of the Buildeck Scaffold System as shown in (Figure: 6.1.2).



(Figure: 6.1.1)



(Figure: 6.1.2)

## Safety Wire & Safety Tag Installation.

7.0 Certain sites may require the installation of the Buildeck safety Wire and Safety Tag. This is installed through the matching hole in the Buildeck Collar and the Foot on the Buildeck panel. (Figure: 7.1.1) The Buildeck Safety Tag can then be inserted at each end of the wire, these have individual Security Codes printed on them and can be added to any Handover documents, this will also assist with the Regular Interval Checks to see if the Decking System has been tampered with. (Figure: 7.1.2)



(Figure: 7.1.1)



(Figure: 7.1.2)

## Back Propping Installation.

- 8.0 The Buildeck System can be used for Back Propping of floors. The Scaffold Structure supporting the Buildeck System must be installed as per an Engineers Drawings and Manufacturers Guidelines. This can be installed this way when the ground floor Decking is installed, therefore removing the need to remove the existing decking, and enabling it to be conveniently converted to Back Propping. Requiring minimal additional gear and labour. Typical Back propping is shown in. (Figure: 8.1.1), using adjustable Jack Heads, but this can also be installed using Standard Scaffold Tube and fittings. Always ensure Back Propping as installed on both sides of remaining Decking to ensure even loading.



(Figure:8.1.1)

## Raising the Installation.

- 9.0 Raising the installation can be easily achieved by inserting Pre-Cut Scaffold Tube Standards into the Already assembled Buldeck Collar's, to achieve the required finished working height. This must be installed as per the Manufacturers Guidelines. This way of assembling the system can be used for a raised individual working platform, (Figure: 9.1.1) or to Raise the entire system in a room or building. (Figure: 9.1.2)



(Figure: 9.1.1)



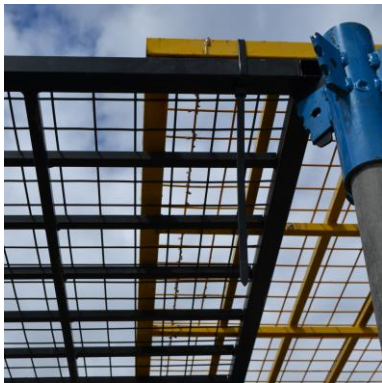
(Figure:9.1.2)

## Post Installation Checklist.

- 9.1
1. Ensure all installed Buldeck product is free from damage and in a good condition.
  2. Ensure all Collars is situated correctly on the Standard leg and bolts tightened.
  3. Check all Standard legs are vertical with level.
  4. Ensure all Panel feet are located correctly in Collars and both component holes line up.
  5. Ensure Coded tags are in place and recorded on hand over sheet if required.
  6. Ensure Edge Bars are installed if any perimeter gap is greater than 100mm.

## Removal Procedure.

10.0 The removal of a Standard Buildeck System can be achieved by choosing a start point, which if there were any Lap Panels these would be removed first, by removing the approved Cam Straps, (Figure: 10.1.1) then removing the Lap Panels from on top of the Standard Decking Panels. (Figure:10.1.2) Leaving just the Standard Buildeck Panels, Collar's, and Scaffold Tube Standards to be removed. (Figure: 10.1.3)



(Figure: 10.1.1)



(Figure: 10.1.2)



(Figure:10.1.3)

## Removal Procedure. (Continued)

Select the nearest standard Scaffold Tube and removed this by sliding it towards the centre of the panel it is holding up. (Figure: 10.1.4). The panel will hang now on the remaining three legs. (Figure: 10.1.4). The next Standard Panel can be lifted out from the remaining three Collar's. (Figure: 10.1 5). This procedure can be repeated for all Panels installed into an internal corner of Decking.



(Figure: 10.1.4)



(Figure: 10.1.4)



(Figure: 10.1 5)

10.2 For removal of Standard Decking Panels that are not installed into an Internal corner of the system you can now remove the next Scaffold Tube Standard Leg, by sliding the leg inwards towards the middle of the Panel and sliding it out from the Panel foot. (Figure: 10.2.1). This can be repeated for the next leg leaving the Panel hanging on two feet of the installed system. (Figure: 10.2.2). The remaining hanging Panel can now be removed by lifting it out from the Collar's. (Figure: 10.2.3). These processes can be repeated until the entire system is removed. It is always advantageous if you can start the Removal procedure by a doorway for the easy removal of the product to the next Building Plot. Taking care to inspect the Components for damage/wear and repair or replace as required. All components should be stacked and stored as per the manufacturer's guidelines.



(Figure: 10.2.1)

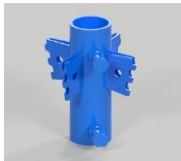

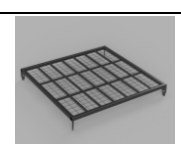
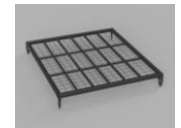




(Figure: 10.2.2)



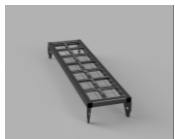

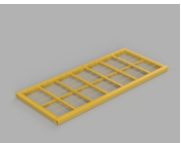



(Figure: 10.2.3)

# BUILDECK








<b>BUILDECK</b>		System Component List		<a href="http://www.buildeck.co.uk">www.buildeck.co.uk</a>			
Components	Image	Item No..	Information	Weight Kgs	Dimensions L/W/H	Pack Quantity & Description.	Pack Weight Kgs
Standard Collar		BD1	The Standard Buildeck Collar is used to support all Panel sizes. This is designed to be fitted on top of a Standard Scaffold Tube and is fitted with a centre pin to stop the Collar being able to slide down the Scaffold Tube. It does not require any further Scaffold fitting to be used.	1.65		20 x Collar's (delivered inside White fibre sack.)	33.00
Adjustable Collar		BD2	The Adjustable Buildeck Collar is used to support all Panel sizes. This is designed to be fitted over a Standard Scaffold Tube and has no centre pin allowing the Collar to slide up and down on the Scaffold Tube allowing the decking panels to be installed at varying heights. A scaffold load bearing fitting must be installed directly beneath the Collar to ensure no slipping is possible whilst under load.	1.50		20 x Collar's (delivered inside White fibre sack.)	30.00
1m x 1m Panel		BD3	The standard 1m x 1m Buildeck Panel is fitted on to the Buildeck Collar's. These are used to work from and store materials and tools on.	12.20		25 x Panels (delivered on a wooden pallet.)	305.00
1m x 900mm Panel		BD4	The standard 1m x 900mm Buildeck Panel is fitted on to the Buildeck Collar's. These are used to work from and store materials and tools on.	11.00		25 x Panels (delivered on a wooden pallet.)	275.00
1m x 750mm Panel		BD5	The standard 1m x 750mm Buildeck Panel is fitted on to the Buildeck Collar's. These are used to work from and store materials and tools on.	10.00		25 x Panels (delivered on a wooden pallet.)	250.00
1m x 430mm Panel		BD6	The standard 1m x 430mm Buildeck Panel is fitted on to the Buildeck Collar's. These are used to work from and store materials and tools on.	6.20		35 x Panels (delivered on a wooden pallet.)	217.00



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1m x 250mm Panel		BD7	The standard 1m x 250mm Buildeck Panel is fitted on to the Buildeck Collar's. These are used to work from and store materials and tools on.	4.50		50 x Panels (delivered on a wooden pallet.)	225.00
1m x 1m Lap Panel		BD8	The standard 1m x 1m Buildeck Lap Panel is fitted on to the top of the Standard Buildeck Panels. These are secured in place using industry approved Zip ties and are only used to work from and NOT to be used to store materials and tools on.	11.30		25 x Panels (delivered on a wooden pallet.)	282.50
1m x 430mm Lap Panel		BD9	The standard 1m x 430mm Buildeck Lap Panel is fitted on to the top of the Standard Buildeck Panels. These are secured in place using industry approved Zip ties and are only used to work from and NOT to be used to store materials and tools on.	5.20		50 x Panels (delivered on a wooden pallet.)	260.00
1m x 250mm Lap Panel		BD10	The standard 1m x 250mm Buildeck Lap Panel is fitted on to the top of the Standard Buildeck Panels. These are secured in place using industry approved Zip ties and are only used to work from and NOT to be used to store materials and tools on.	3.50		100 x Panels (delivered on a wooden pallet.)	350.00
1m x 900mm Ladder Hatch		BD11	The Standard 1m x 900mm Ladder Hatch Panel is fitted on to the Buildeck Collar's. These are used where safe access and egress is required up or down, to / from to the 1 <sup>st</sup> lift of the Buildeck structure. Or to the 1 <sup>st</sup> floor of the Plot in which it is installed.	16.10		20 x Panels (delivered on a wooden pallet.)	322.00
1m Edge Bar		BD12	The Standard 1m Edge Bar is used around the edge of the Buildeck Panels, when required to close the Gap between the Buildeck System and surrounding structures.	1.50		50 x Edge Bars (delivered inside White fibre sack.)	75.00
900mm Edge Bar		BD13	The Standard 900mm Edge Bar is used around the edge of the Buildeck Panels, when required to close the Gap between the Buildeck System and surrounding structures.	1.25		50 x Edge Bars (delivered inside White fibre sack.)	62.50

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750mm Edge Bar		BD14	The Standard 750mm Edge Bar is used around the edge of the BUILDECK Panels, when required to close the Gap between the BUILDECK System and surrounding structures.	1.00		50 x Edge Bars (delivered inside White fibre sack.)	50.00
430mm Edge Bar		BD15	The Standard 430mm Edge Bar is used around the edge of the BUILDECK Panels, when required to close the Gap between the BUILDECK System and surrounding structures.	0.65		50 x Edge Bars (delivered inside White fibre sack.)	32.50
250mm Edge Bar		BD16	The Standard 250mm Edge Bar is used around the edge of the BUILDECK Panels, when required to close the Gap between the BUILDECK System and surrounding structures.	0.50		25 x Edge Bars (delivered inside White fibre sack.)	12.50
Security Wire		BD17	The BUILDECK Security Wire can be installed through the round eye in the Collar's that lines up with the round eye in the Panel feet, therefore making it impossible to lift a panel out once installed. Can also be used with the BUILDECK Security Tag, to ensure no tampering has taken place.	2.00		100m Roll	2.00
Security Wire Copper Stop Ends		BD18	Compression Copper Stop end for making off Security Wires at customers preferred lengths.	0.06		20 x Delivered in Small Jiffy Bag.	0.06
Wire Rope Cutter & Crimp Tool		BD19	Handheld Wire rope cutter and crimp tool for cutting Security Wires to exact lengths and crimping Copper Stop ends onto cut wires.	1.00		1 x Delivered in Small Cardboard Box.	1.00
Security Tags (Coded)		BD20	The BUILDECK Security Tag, used to Identify if the system has been tampered with, when installed onto the end of the BUILDECK Security Wire.	TBC		100 x Delivered in Large Jiffy Bag.	TBC
Starter Bar		BD21	The Starter Bar is used to square up the BUILDECK system when starting in a Building Plot.	11.2		20 x Starter Bars (delivered on a wooden pallet.)	TBC