# **OUTDURE® QWICKBUILD®**



### **Installation Guide For Low Height Decks**



### Important:

Please read before starting for efficient and correct installation.

### **Engineering:**

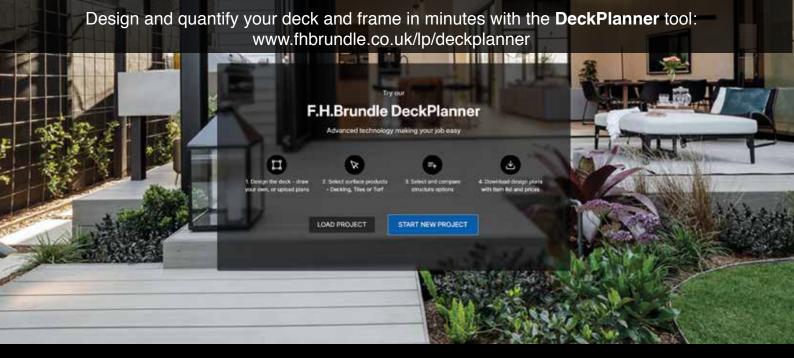
The information in this guide is for standard residential loadings. Commercial use installations may require different connection details, joists and beam spans.

#### Note:

It is the responsibility of the installer and specifier to ensure correct spans and connection details.

#### What's In This Guide?

- F.H.Brundle DeckPlanner (design, price and planner overview)
- QwickBuild advantages and overview
- Joist and beam common connections
- QwickBuild installation steps



Design Configure Review

Simply enter your project information online to get started on your deck design

Compare surface layouts and frame + support options, all calculated to deck height, and substrate

Refine your deck design, review your pricing and select your preferred option

Download Confirm your order details to receive your itemised material list, custom plans, and installation guides

The easy-to-use online tool simplifies the process, removing any guesswork. It's ideal for everyone, from professional contractors to homeowners. No training required or software to download.

Easily compare the material quantities required, surface options include tiles for deck areas, timber decking, and most composite board brands. Substructure options include Outdure's QwickBuild® aluminium framing system or traditional subframes.



### Design

Simply enter your project information and get started on your deck design, or have our team do it for you.



#### Configure

Compare surface layouts and frame + support options, all calculated to deck height and substrate.



#### Review

Refine your deck design, review your pricing and, select your preferred option.



#### Download

Confirm your order details to receive your customised project information pack.

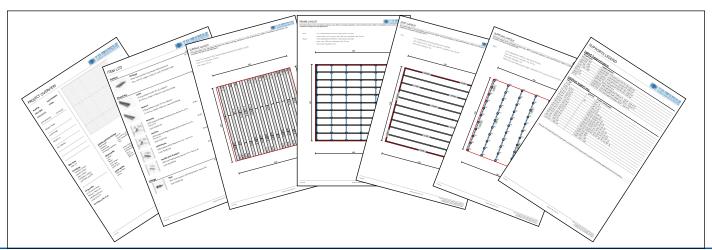
## Your customised project information pack includes:

Shopping list: Itemised list and prices of all materials required

Design: Easy-to-follow layout for your chosen deck surface
Engineering: Structure layouts for joists, beams, and supports

Installation guide: Step-by-step overview Product information: Step-by-step overview

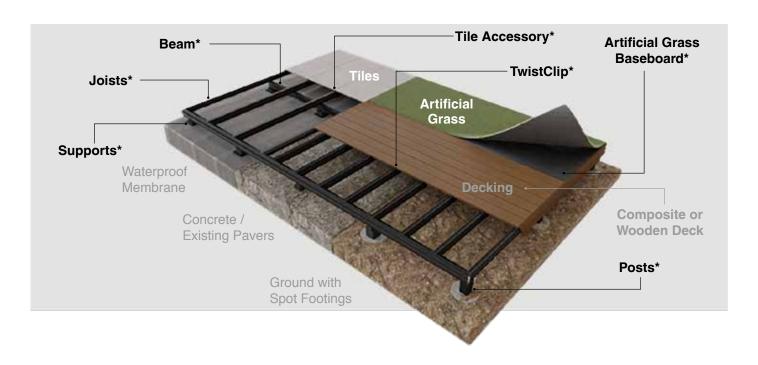
QR CODE HERE?



## **ADVANTAGES & OVERVIEWS**



### **One System For All Surfaces**



Modular

Easy to install components, configurable to suit all decks

Supports timber decking, aluminium decking, composite decking, tiles, and artificial grass

All Heights

A range of joist-beam profiles for ultra-low to elevated decks

Build your deck over concrete, pavers, waterproof membrane, and natural ground

Ideal for all specifications from simple residential to complex commercial decks

Optimised

Leading design and quantification tech for framing, supports, and chosen deck surface

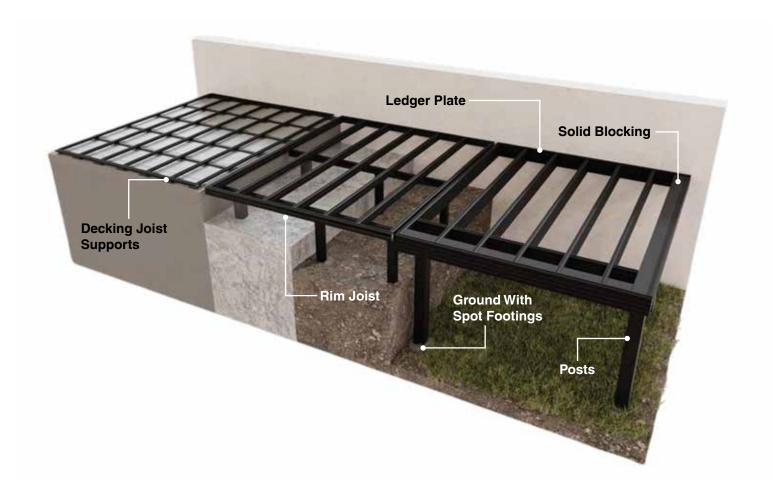
Components are engineered for simplified integration of handrailing & balustrade

F.H.BRUNDLE

**Balustrading** 

# STRUCTURE, SUBSTRATES & HEIGHTS





General deck structure heights (top of substrate to the top of joist)

Low Height: Under 300mm

Profiles: A100, A110 & A120

Mid Height: 301 - 1200mm

Profiles: A120, A130 & A140

Elevated: 1200mm

Profiles: A130, A140 & A150



Low Height: Under 300mm Code: 92A1002058 Code: 92A1102058 Code: 92A1202058



Mid Height: 160 - 250mm Code: 92A1202058 Code: 92A1302058 Code: 92A1402058



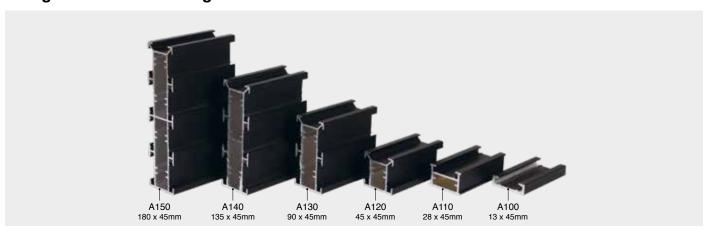
Elevated: From 250mm Code: 92A1302058 Code: 92A1402058 Code: 92A1502058

Add approximately 23mm (1 inch) for the deck surface (check exact dimensions with supplier). Composite, tiles and artificial grass + baseboards can be used for all deck heights. Hardwood for structures over 100mm (4 inches) high.

## **JOIST BEAM PROFILES**



### 5.8m Lengths For All Deck Heights



The profiles have greater spans than traditional framing, resulting in fewer footings required for raised decks. QwickBuild is an engineered solution: up to 5.0kPa UDL, 4.5kN PL with long-span, high-load capacity and minimises site preparation (digging, levelling, etc). It is a fast, cost-effective way to upgrade alfresco spaces by covering up old pavers or concrete pads with minimal site preparation. Made from Aluminium 6063-T6, Powder Coated Black.

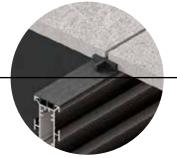
Joist Span for Tile and Decking - Residential /// 2kPa UDL, 1.8kN PL /// Domestic Decks Light occupancy (2 to 3 people per square meter), Point loadings less than 180kg

	Joist Profile / Span		Beam Profile / Span								Max Joist Cantilever	
	Profile	Span	13 x 45	28 x 45	45 x 45	90 x 45	135 x 45	2 / 135 x 45	180 x 45	2 / 180 x 45	Non Anchored	Anchored
A100	13 x 45	400	400	900	N/A	N/A	N/A	N/A	N/A	N/A	50	50
A110	28 x 45	900	400	900	1200	N/A	N/A	N/A	N/A	N/A	50	50
A120	45 x 45	1200	400	900	1200	2200	3500	4400	4250	5750	100	275
A130	90 x 45	2250	N/A	N/A	950	1800	2800	3500	3600	4650	100	520
A140	135 x 45	3050	N/A	N/A	N/A	1200	1850	2400	2350	3150	100	810
A150	180 x 45	3850	N/A	N/A	N/A	N/A	1650	2200	2100	2900	100	1055

For more information and to see commercial span details, visit www.fhbrundle.co.uk

### **One System For All Surfaces**





### Channel edge of joist up for:

- Decking boards with a side groove to fit TwistClips
- · Tiles stabilised with QwickBuild® tile accessories
- · Artificial grass on QwickBuild® aluminium baseboards
- Exterior tiles fixed with QwickBuild® tile accessories
- · QwickGrates and Anti-Slip strips with snap mount integration



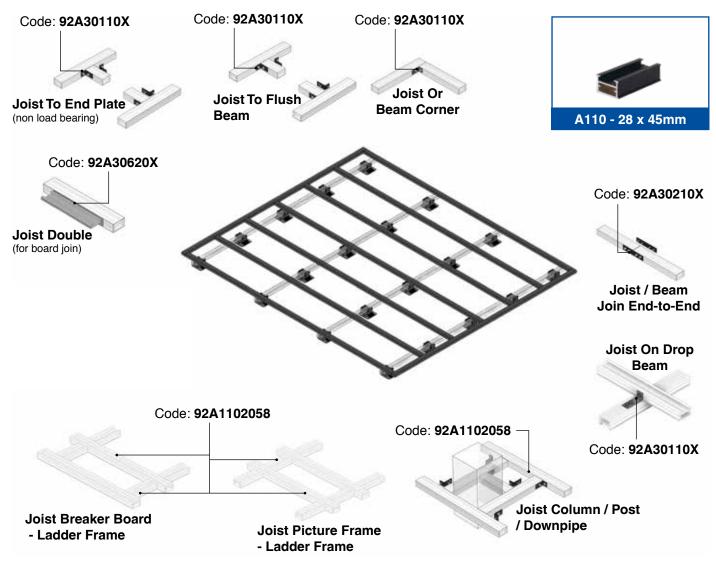


#### Flat edge of joist up for:

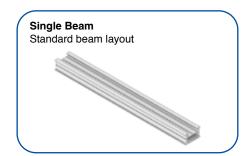
- · Top fixing composite decking, aluminium decking with fixing screws
- · Outdure system is compatible with all brands of deck boards

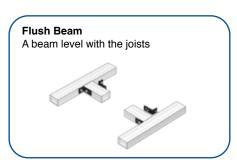
# **A110 COMMON QUICKBUILD CONNECTIONS**





#### **Beam Structure Types**

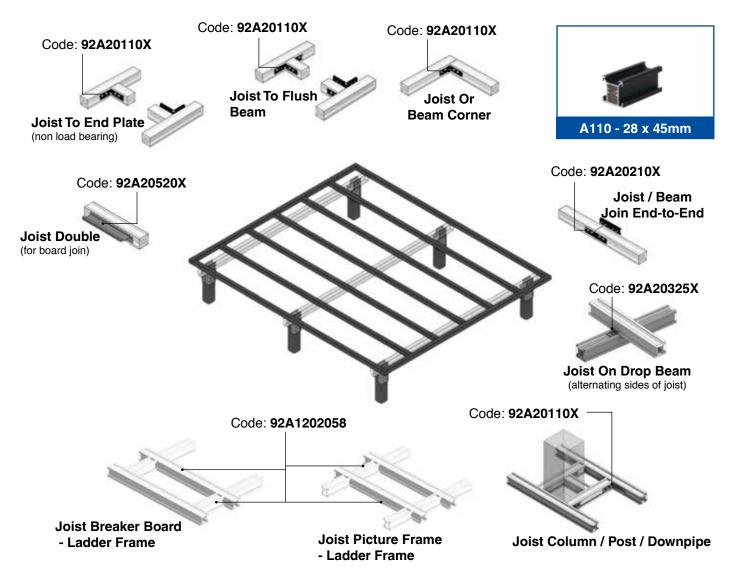




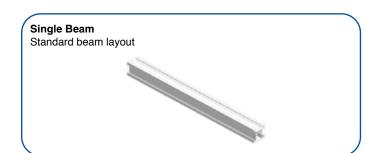


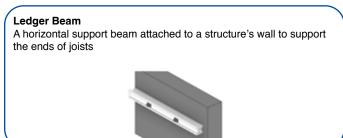
# **A120 COMMON QUICKBUILD CONNECTIONS**

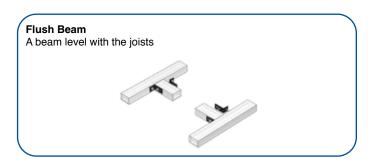




### **Beam Structure Types**









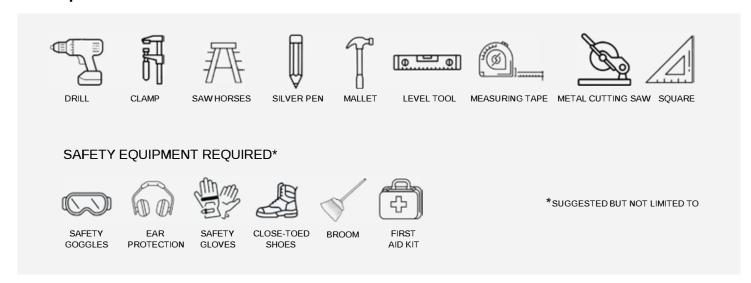
## **QWICKBUILD INSTALLATION PROCEDURE**



### **Low Deck Heights**

Based on the project information you have provided, DeckPlanner generates a customised plan for your specific site. Please also refer to these steps for installing a generis QwuickBuild® project.

### **Tools Required**



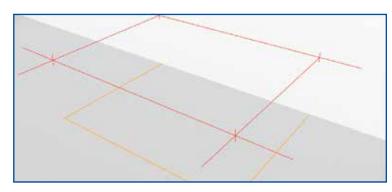
### **Preparation & Pre-Start Checks**

- · Ensure the site is clean, level, and free from debris
- Confirm the subfloor or ground is structurally sound and suitable for the framing system.
- Read all installation information
- Review structure design layout

# **STEP-BY-STEP INSTALLATION OVERVIEW**



Step 1 - Set out



Step 2 - Decking joist supports



Step 3 - Beams



Step 4 - Joists

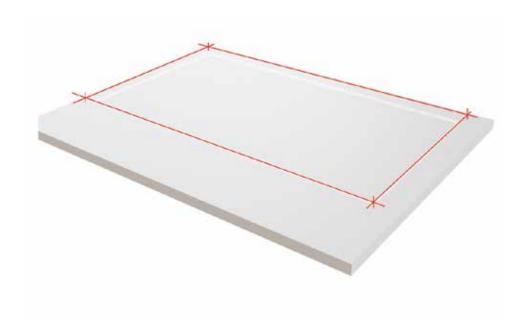


Step 5 - Bracing / Blocking



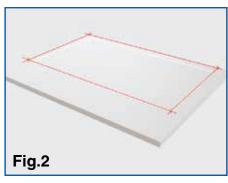
# STEP 1 - SET OUT



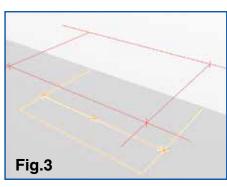




1. Use a chalk/string line or laser line to mark the outer edges of the structure on the ground or subfloor. Ensure all corners are set as 90 degree angles.



2. Mark according to the provided deck plan, the centre of the desired footing locations.

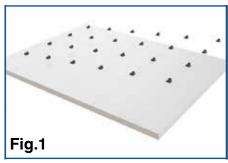


3. Double check all measurements to ensure accuracy.

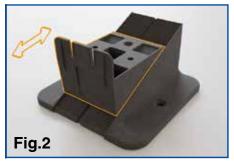
# **STEP 2 - DECKING FRAME SUPPORTS**







1. Place your selected decking joist supports on the subfloor following the supplied DeckPlanner layout. Ensure not to exceed maximum spans.



2. Adjust the height of the decking joist supports using a laser or spirit level to reach the required height for framing.

### **Range Of Decking Joist Supports**

**Deck Support Packer** Stackable - 5 maximum



**Deck Support Extender** A maximum of 8 can be stacked underneath adjustable deck support code: 92A0510X



### **Adjustable Deck Support**



**Deck Support Slope Corrector** Correction of up to 7%



Adjustable Deck Support

Code: 92A91510X can be stacked underneath this deck support (maximum of 8)



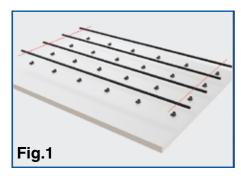
**Deck Support Protection Pad** Acoustic



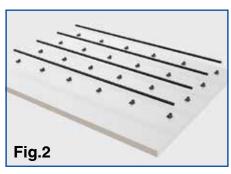
## **STEP 3 - BEAMS**







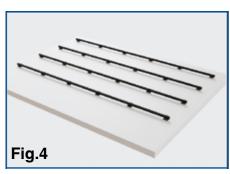
1. Mark and cut beams to desired length using an aluminium cutting saw.



2. Place beams on to decking joist supports ensuring positioning of beams are in the correct location.



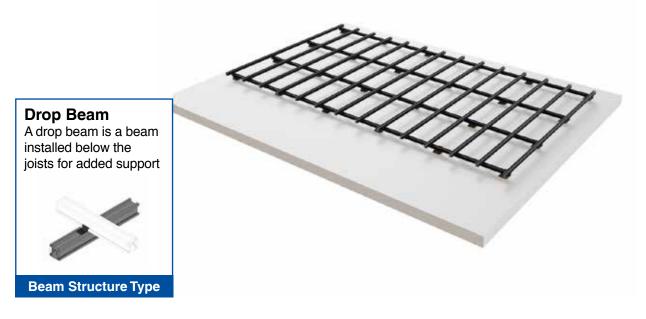
3. Use screws to connect decking joist supports to the QwickBuild® frame.



4. Repeat fig.3 for all decking joist supports to ensure they are all connected to the QwickBuild® frame.

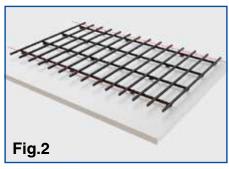
## **STEP 4A - JOISTS FOR DROP BEAM**



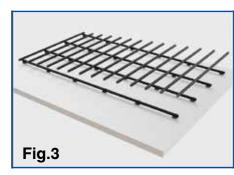




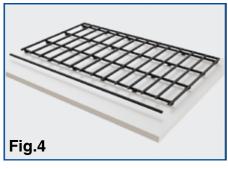
1. Use a tape measure and silver pen to mark along the drop beam joist positions, making sure to follow the correct joist centres for your surface selection.



2. Follow the DeckPlanner 'Cut Joists' file to the correct length, using an aluminium cutting saw. Repeat this for all joists required, making sure to confirm that all on site measurements and surface manufacture specs are the same as the deck plans.



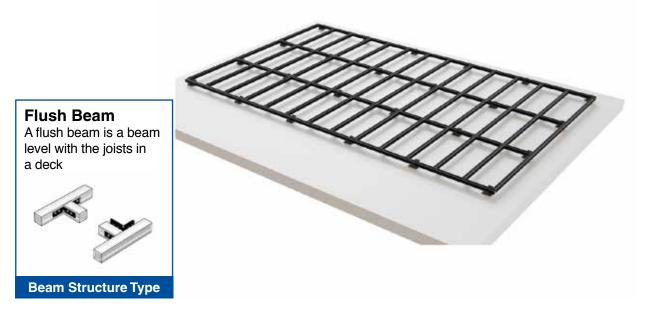
3. Place joists onto beams, using joist anchor brackets to fix the joists to the beams at alternating sides. Refer to frame components and common connections for specific detail requirements as per QwickBuild® profile.

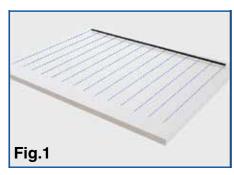


4. Finally cut and install the boundary joist to the joists using joiner brackets. Refer to frame components and common connections for specific detail requirements as per QwickBuild® profile.

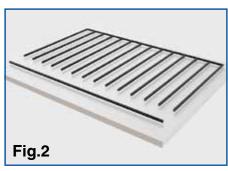
## STEP 4B - JOISTS FOR FLUSH BEAM



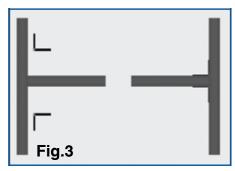




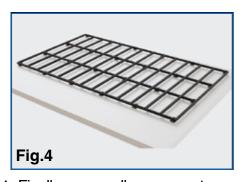
1. Use a tape measure and silver pen to mark along the drop beam joist positions, making sure to follow the correct joist centres for your surface selection.



2. Follow the DeckPlanner 'Cut Joists' file to the correct length, using an aluminium cutting saw. Repeat this for all joists required, making sure to confirm that all on site measurements and surface manufacture specs are the same as the deck plans.



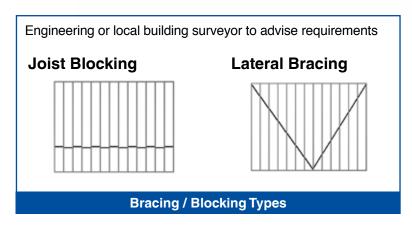
3. Slide joiner brackets in/on flush beam spacing according to previous markings. Refer to frame components and common connectionsor specific detail requirements as per QwickBuild® profile.

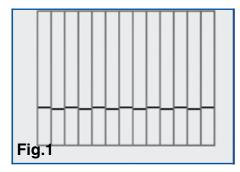


4. Finally ensure all components are fully secure as per connection requirements.

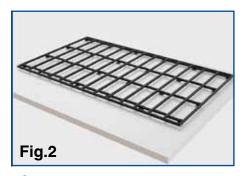
## **STEP 5 - BRACING / BLOCKING**



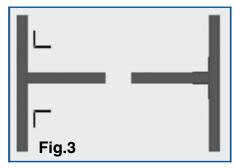




1. Mark out position / location according to requirements set by local building surveyor or licensed engineer. Typically this is over the beam alternating either side of centre.



2. Cut blocking to fit between joists.



3. Install brackets into cut profiles and decking structure.

Whilst every effort has been made to ensure the accuracy of the information supplied. F.H. Brundle cannot be held responsible for any errors or omissions. This product must only be employed for its original intended use. Any other use is wrong and potentially dangerous. Installation must be carried out in full compliance with current regulations. F.H. Brundle cannot be held liable for any damages resulting from wrongful, erroneous or negligent use.

