

# Composite Joists

*A simple and elegant solution for decking over existing concrete or tiled surfaces. Placed on a level base, our battens provide a reliable alternative to traditional substructures when required.*

## How to Use:

Brite Composite decking works with minimal clearance and can be fitted onto concrete using our high quality battens. Mainly used to lay decks on top of concrete and excellent alternative to traditional timber decking as it is water absorbent and does not rot nor warp.

BriteDeck® battens can be laid with either side vertical (57mm or 32mm) depending on your preference. Use a maximum spacing of 450mm for residential.

- **57mm:** If 57mm is horizontal, use a Dynabolt to affix the battens to concrete. On a 2.9m batten length 3 bolts will be adequate. For 2.2m battens, 2 bolts will be adequate.

- **32mm:** If 32mm is horizontal, a 90-degree right angle bracket should be fitted to both the batten and into the concrete.

## Specification:

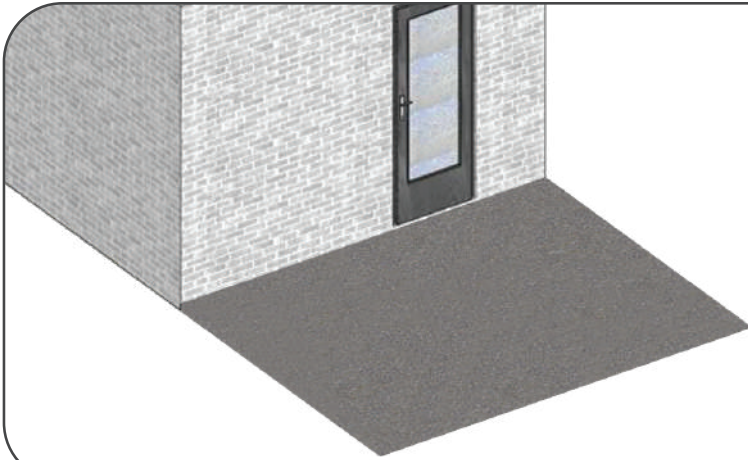
Dimension (W x H)	57mm X 32mm
Length	2.2m, 2.9m and custom order up to 5.8m
Weight	5.2m
colours Available	Black
Qty Required per SQM	3m per 1SQM
Joist Span - Commercial	350mm
Joist Span - Residential	450mm
Material Composition	55% wood fiber + 35% HDPE + 10% additives

## Full Material Breakdown:

Component	Wood Flour / Rice Husks	HDPE / PE Coupling Agent	Pigment	Lubricant	Reinforcing Filler	Additives ( Antioxidants, Fungicides, UV Absorbers, etc.)
CAS	Plant Fibre Mixture	9002-88-4 9006-26-2	1345-25-1 51274-00-1 1333-8-6-4	557-05-1	14807-96-6	6683-19-8 1843-05-6
Percentage %	55%	35%	4%	2%	3.5%	0.5 - 0.75%

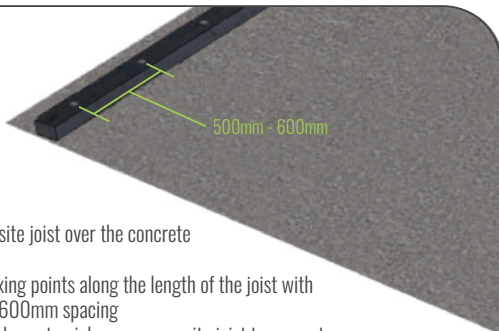


# Composite Joist Installation



## Getting Started

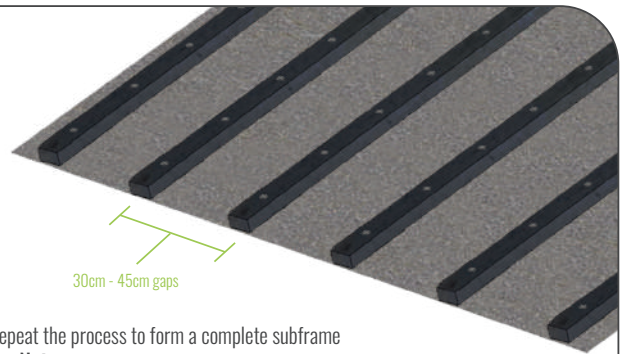
- Prepare the concrete surface with minimum thickness of  $\pm 60\text{mm}$  to avoid cracks during installation
- Measure the area to be covered and prepare cutting the composite joist into size
- We recommend 10mm slope for the water to overflow



- Lay your first composite joist over the concrete

### Notes:

- Mark the fixing points along the length of the joist with 500mm to 600mm spacing
  - Pre-drill and countersink your composite joist to prevent from cracking when screwing to the concrete
- Secure your first composite joist on the concrete using hammer drill, Dynabolt and raw plugs

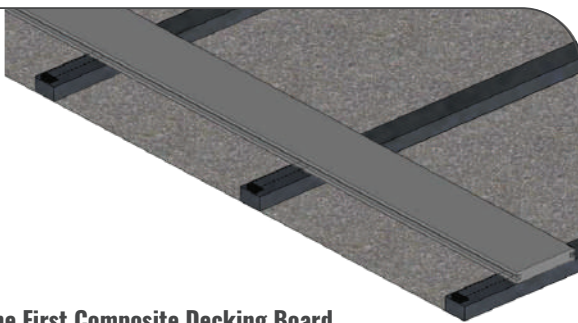


- Repeat the process to form a complete subframe

### Notes:

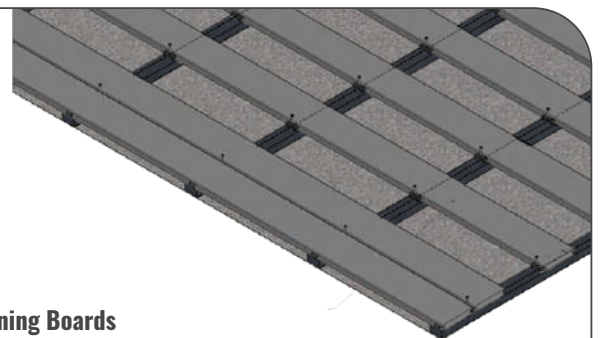
- We recommend to lay each composite joist with 30 to 45cm gaps or spacing to support and prevent the composite decking from bending

## Installing Composite Decking Boards



### Laying the First Composite Decking Board

- Install starter clips and secure first board



### Remaining Boards

- Continue to secure deck via concealed clips and screws
- Battens can be sawn or drilled like timber - no special tools required

