Quality Aluminium Decking direct from the manufacturer.

BUILDDECK

A leading manufacturer of Class A Fire-rated Aluminium Decking.

Aluminium Decking

Installation Guides

Concrete Roofng and Balconies
Steel Frame Balconies

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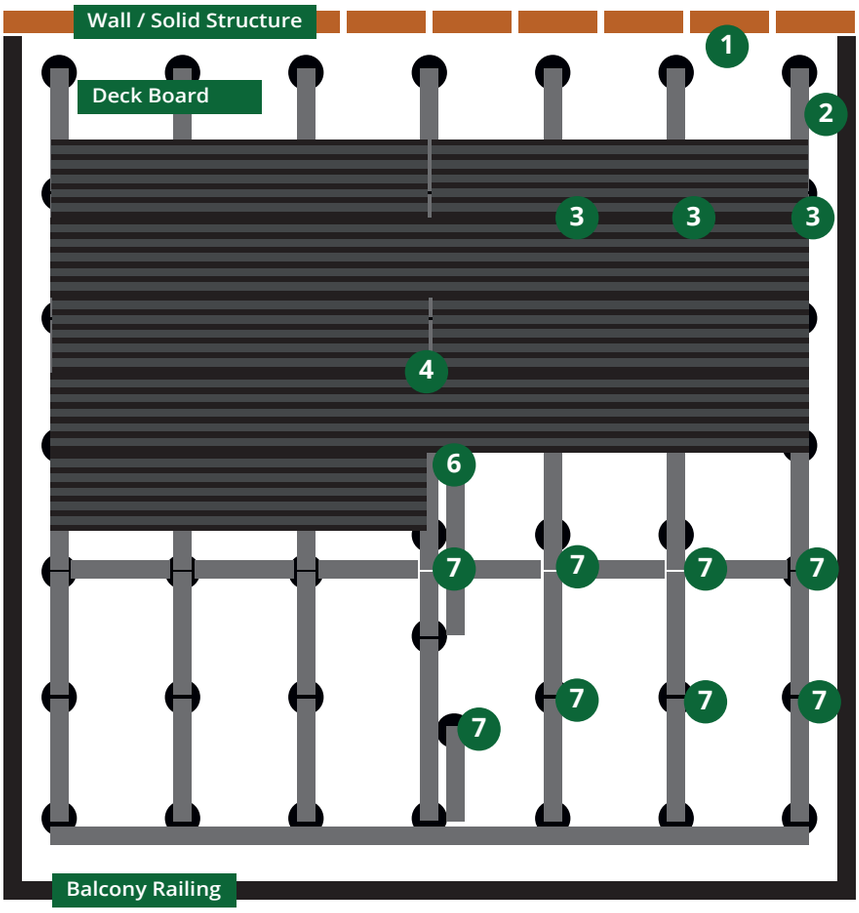
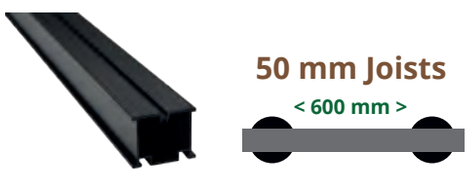
Aluminium Decking Installation Guide
Concrete Roofing / Balconies



Pedestals must be set at a maximum distance depending on the size of the joist.



1. A gap of 5 mm should be left between the decking and any walls or existing structures.
2. Any overhang must be at a maximum of 30 mm.
3. Screws must be fixed on each joist at maximum 600 mm centre to centre.
4. For water drainage, the height of the decking must fall 12.5 mm for every 1000 mm length. Always pitch down the length of the boards away from any buildings or structures
5. A gap of 2 mm must be left between abutted board.
6. Abutted boards must be supported by double joists
7. All main joists within the subframe must be set at a maximum of 600 mm apart, centre to centre.

Prepare the groundwork prior to commencing the fit. Building regulations and BuildDeck recommend the finished decking surface has a drainage gradient of 1 in 80 (1.25%) to allow for water to “run off” freely.

Lay your Joists 600mm centre to centre, running the opposite way to the intended direction of the Deck Boards. Make sure to leave a 5mm gap between any walls / fencing / immovable objects such as fixed planters, to allow for possible expansion. Ensure cross ventilation is allowed around and under the decking.

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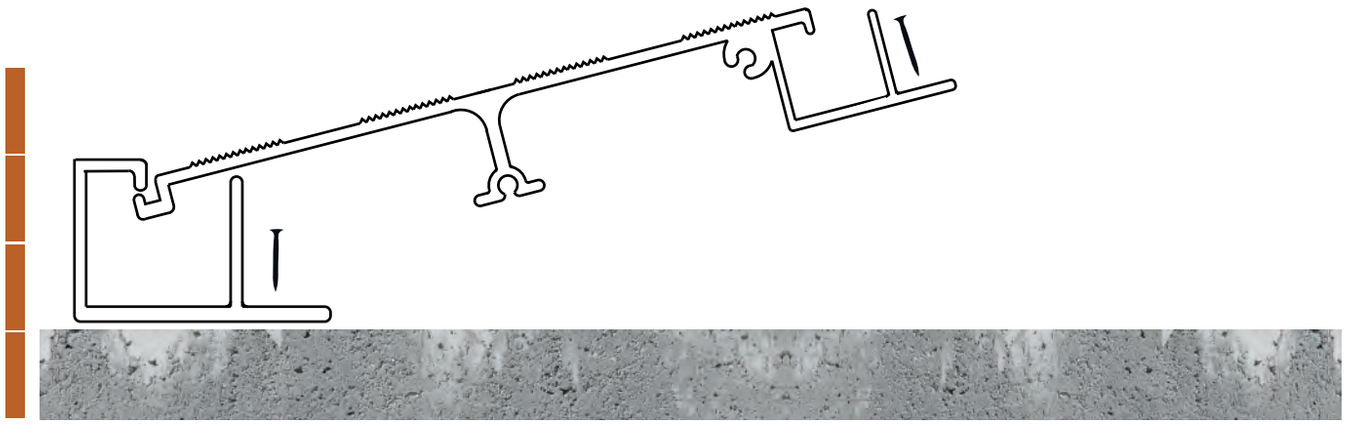
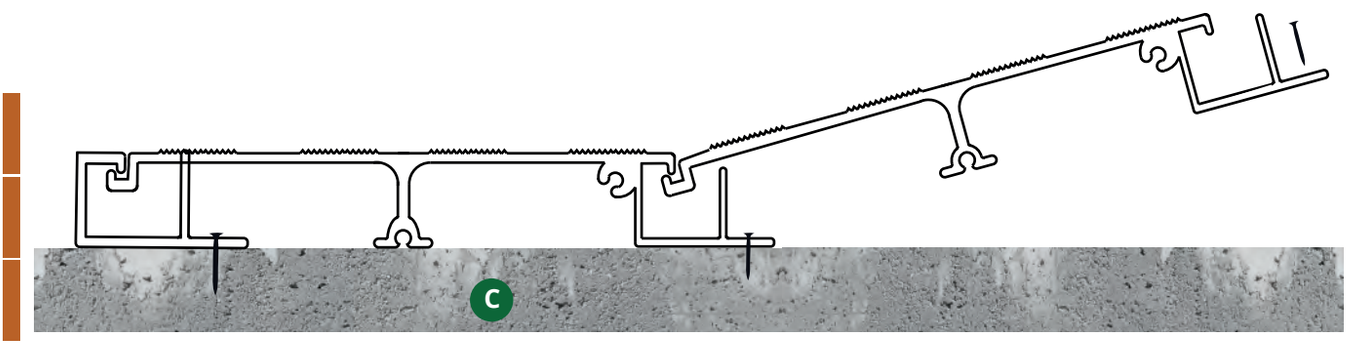
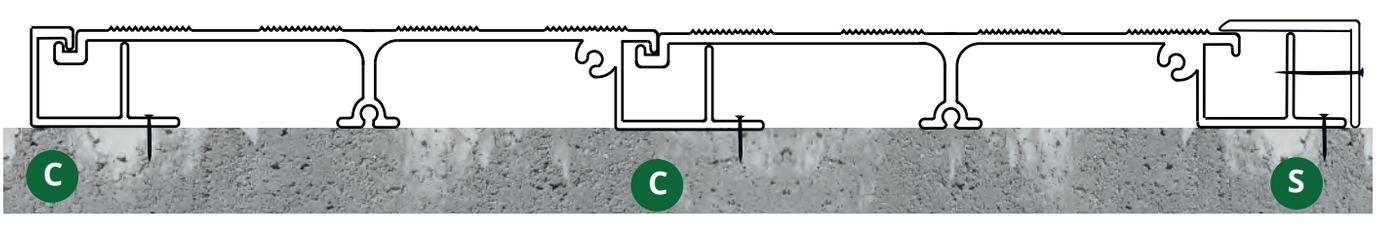
Aluminium Decking board installation instructions.



1 Affix Screws **(S)** for the required board length, one per 600 mm joist



2 Screw the deck board, one per 600 mm joist



3 Fully tighten the first row of screws (C) then put the second row in.

4 Upon reaching rhe final board, push down into the ore-fixed starter trim **(S)** using a rubber mallet if required.

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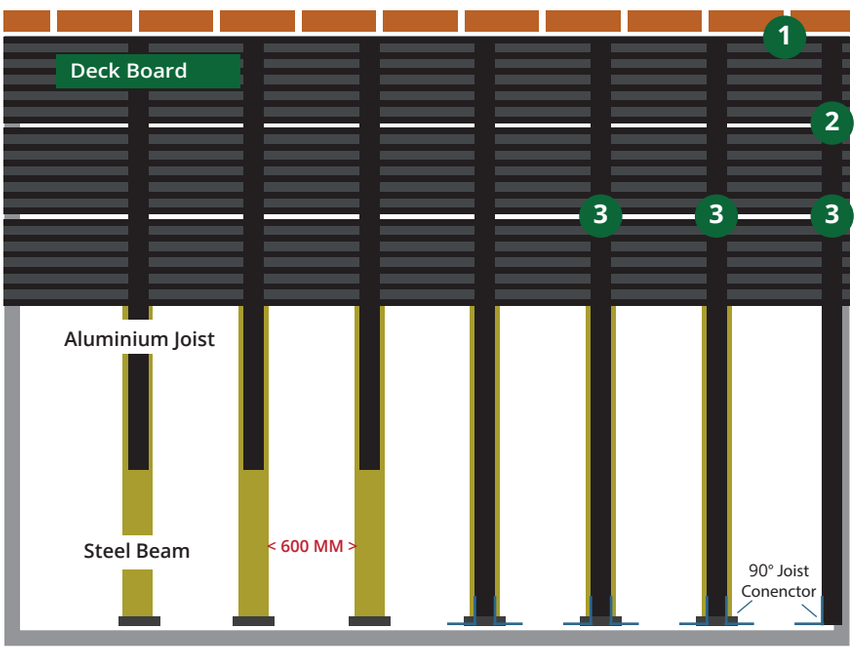
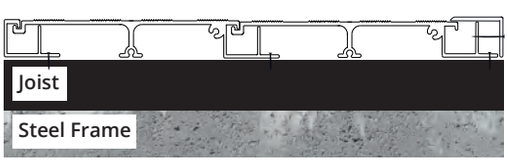
Aluminium Decking Installation Guide
Concrete Roofing / Balconies

Wall / Solid Structure



1. Screw the joists directly to the steel frame

2. Fix the decking to the joists using screws.



1. A gap of 5 mm should be left between the decking and any walls or existing structures.
2. Any overhang must be at a maximum of 30 mm.
3. Screws must be fixed on each joist at maximum 600 mm centre to centre.
4. A gap of 2 mm must be left between abutted board.
5. The Joist must be fitted before applying the decking

Aluminium Decking board installation instructions - Option 1.

Installing on a Steel Balcony | Fix Joists directly to frame | Install Decking as per page one

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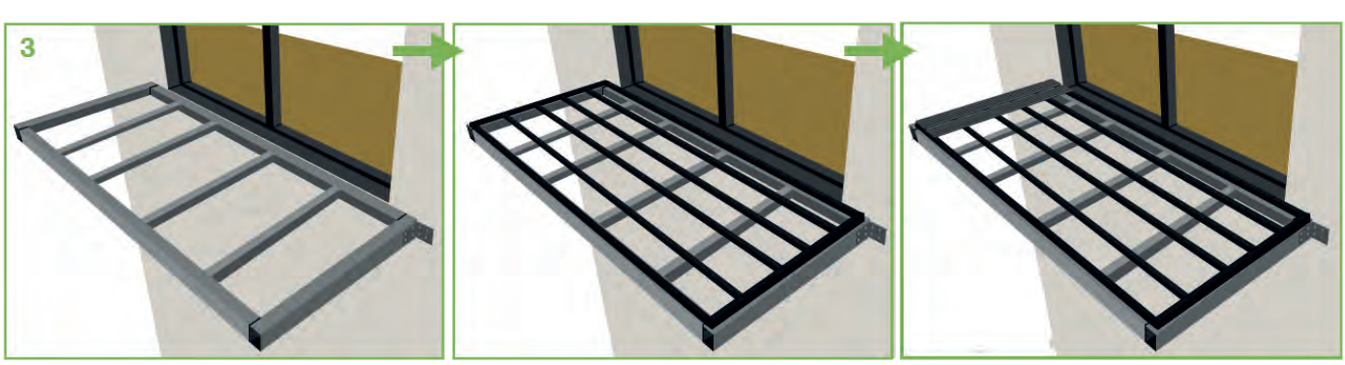
Insatllation - Option 2.

Installing on a Steel Balcony

Fix Joists to the middle of the steel frame to reduce the support span to less than 600mm

Install Decking as per page one

Installation instructions - Option 3.



Installing on a Steel Balcony

Fix Joists across the balcony steel frame

Install Decking as per page one

Once you have the lauminium joists are fixed in place, please follow the decking installation guidelines on page one to complete.

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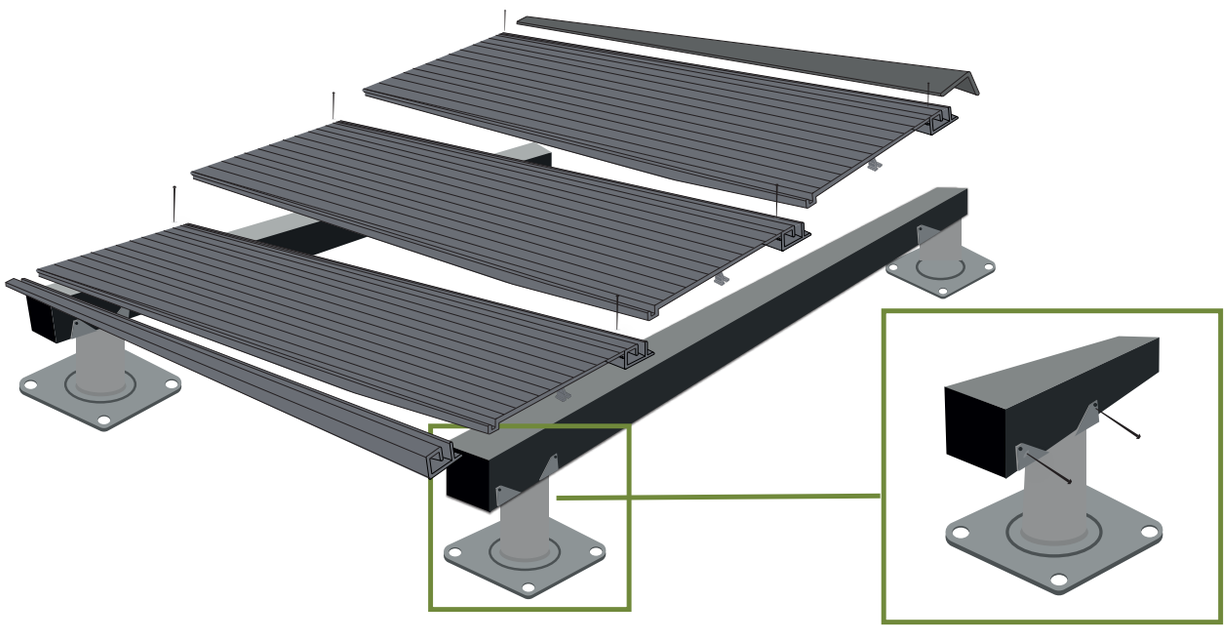
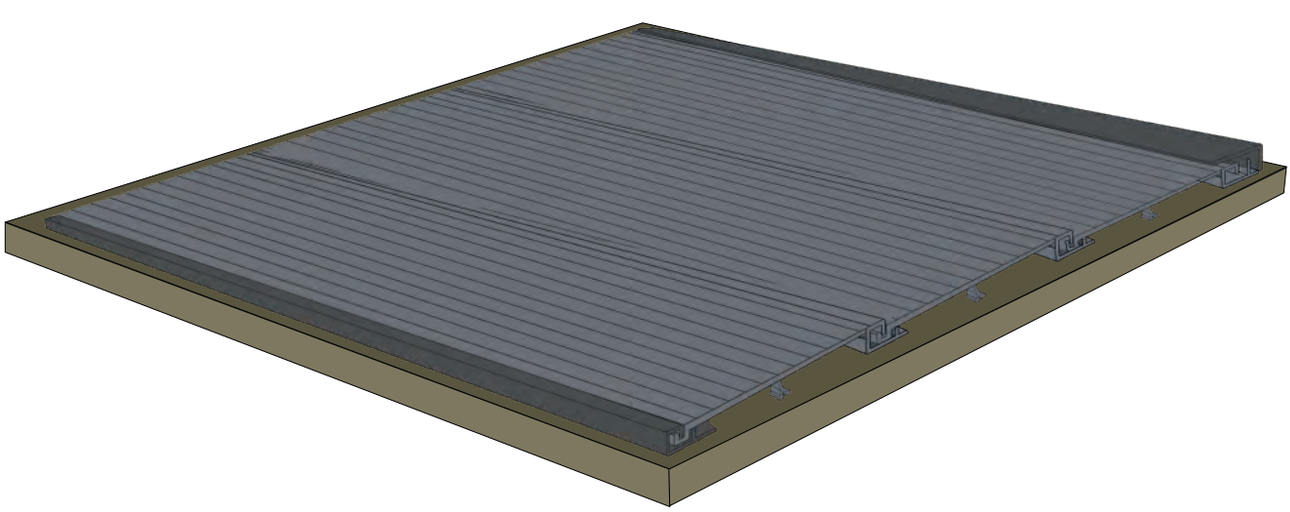
Aluminium Decking Installation Guide
Concrete Roofing / Balconies

Screw Fix System



Fitted to a metal rame - balcony



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Description Specifications

Reaction to fire	Powder Coated: EN 13501-1: Class A2 Non-combustible
Pendulum Slip test	DRY 105 / WET84 (Low Slip Potential)
Material Grade	T6-6063 Aluminium
Board Dimension	155 x 21 x 3600 mm (Coverage: 125 mm in width)
Joist Span	600 mm
Finish	Powder Coated
Colour	RAL 7016 (Also available in standard RAL colour)
Allowable load (Uniformly distributed)	> 4.0kN/m²
Allowable load (Concentrated)	>2.0 kN/m²

Reaction to fire:
Powder Coated
EN 13501-1: Class A2
Non-combustible

Material:
T5-6063 Aluminium

Profiles:
22 x 48 mm
36 x 48 mm
72 x 48 mm

Length:
3600 mm

Support Spans:
22 x 48 mm: 400 mm
38 x 48 mm: 600 mm
72 x 48 mm: 800 mm

Reaction to fire:
Powder Coated:
EN 13501-1: Class A2
Non-combustible

Material:
Galvaized Steel

Base Size:
Diameter: 82mm

Height Range:
25mm - 600mm

Max working Pedestal Load:
2 kN force on center

Disclaimer

This guide is intended for installation on domestic properties. As Commercial decks require more robust design, materials and construction to deal with heavier loads, they are not covered by the guidance in this brochure ehich is fo general use. Since each installation varies, the installation method used and/or the actual installation are the sole responsibility of the installer. We recommend that all designs be reviewed by a licensed architect or engineer before installation. Please ensure your plan and/or design meets building regulations and permission before you begin installation and please use qualified personnel such as GQA accredited to prevent injuries,accidents and get the best performance from BuildDeck products.

Drainage and Ventilation

When designing and building decking, always plan to achieve a structure that will enable water to freely drain away via ground preparation, sub structure and the deck itself. If the water does not run off freely from the support structure or the water collects on the surface of the deck for a long period, the boards may start cupping and structural damage may occur. To achieve rain water "run off", decking should be laid on a slight gradient of at least 1 in 80 (1.25%) in the direction of the long side of the boards in the grooves direction. Good drainage and ventilation around and under the deck is required to ensure the best longevity of the products.

Safety Instructions

When handling and processing BuildDeck products always wear gloves, eye protection and work in a well ventilated area. Always wash your hands after handling BuildDeck products, especially before eating or drinking. Wear eye protection when pressure washing or scrubbing the decking. Keep children and animals away from the work area until the job has been completed and the tools have been stored in a safe place. When cutting, planing or sanding our products, be aware that the creation of dust and noise will occur. We recommend that all operatives carrying out these tasks wear suitable P.P.E including gloves, eye protection, dust masks and ear defenders. Please note, slip test pass results apply to the groove surface of the boards only.

Weathering and Storage

We will always endeavour to pick all products from the same batch. However, when orders are added to or amended at a later date the boards will likely be from a different batch therefore colour variation is likely. Please ensure you order the correct amount of boards on the initial order. Where possible, BuildDeck products should be stored indoors and away from any direct sunlight to avoid any natural colour weathering prior to installation. Should indoor storage not be possible, the boards should be kept covered in a shaded, free draining area that is supported off of the ground by level bearers, which are to be set at 400mm apart, centre to centre.

Maintenance

Regularly use a brush and hot, soapy water to wash BuildDeck products. For water stains or any marks caused by birds,berries,leaves, orother natural causes, please use a soft cleaning detergent to wash off. If you're using a power washer to clean your product, please keep a distance of at least 30 cm from the boards. Please do not use solvent based materials on BuildDeck products. Do not stain, oil or paint any BuildDeck WPC without guidance.

Minor Damage

Ours, as with any composite product that is designed for outdoor use, will be subject to natural scratches and other acts of nature will inevitably occur.

Colour Expectancy

BuildDeck 's composite products will fade due to sun bleaching over time. As our Aluminium Decking is a man made partially recycled product, colour variations and dimension tolerance are to be expected. Our warranty does not cover colour fade, discolouration tolerance or water marks, or stains on

If you require any further assistance or have any questions regarding the installation of BuildDeck composite decking products, please call us on 01438 362 547 or email us at info@builddeck.co.uk.

Clip Screw
(3.0 x 25 mm)

Screw bit
(T15)

Straight Joist connector (Horizontal)

Straight Joist connector (Horizontal)

90° Joist Connector (adjustable)

Connector Screw
(3.9 x 13mm)