

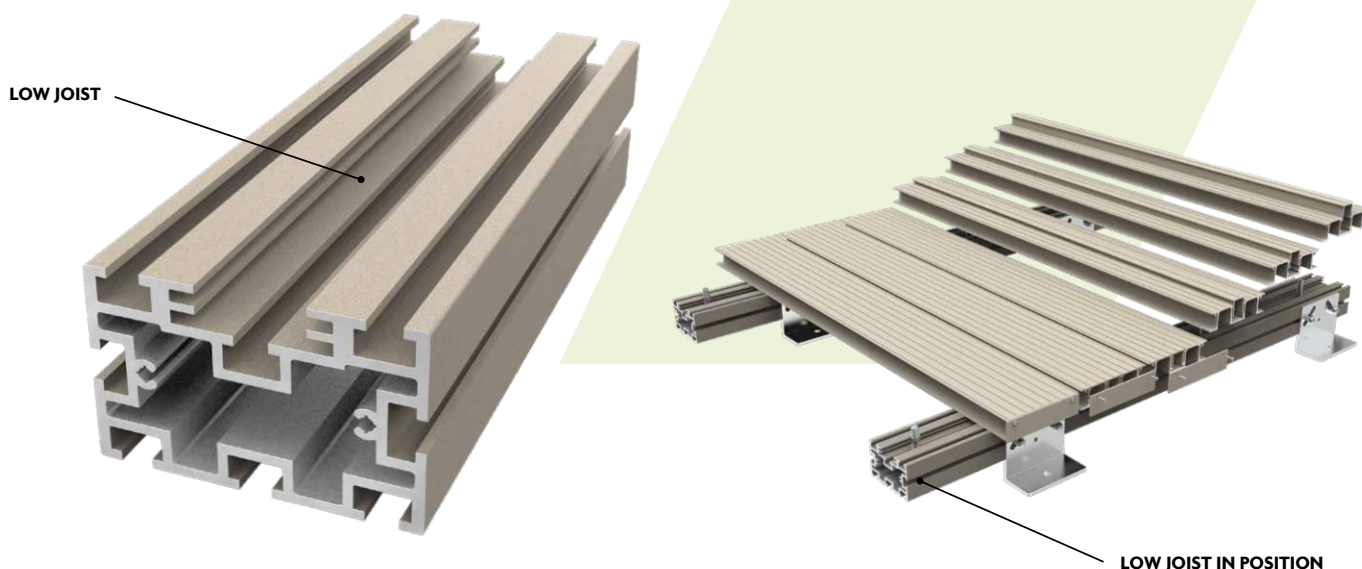
# AliDeck LOW JOIST



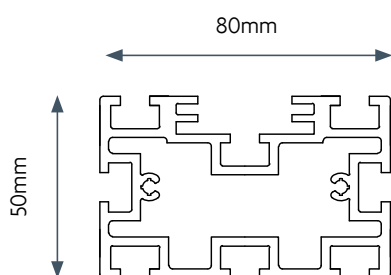
## Specification Datasheet

The **AliDeck Low Joist** is our most popular support bearer, specifically designed for installations that require long spans but limited build-up. With a 50mm profile height, the Low Joist provides excellent strength in a streamlined package, allowing a maximum recommended span of 1200mm.

The Low Joist can also be installed on its side, which has been proved in load testing to allow a maximum span of up to 1500mm in that orientation.



### Dimensions



### Benefits include:

- Increased span capabilities against timber or composite
- Increased spans by over 200%
- Available mill finish
- All aluminium
- Quick and easy to install
- Low maintenance
- Recyclable
- Stable in all weather conditions

**The Low Joist is 3.110 Kg per metre**

All AliDeck Joists have been independently tested for fire performance to BS EN 13823, BS EN 13501, and BS EN ISO 1716; for slip-resistance to BS 7976 Part 2; for wear-resistance to SATRA TM391; for loading performance to BS 6180; for deflection performance to BS 8118, BS 6399, and BS 1991.

# Product Specification

- Fire resistant: A2-s1, d0 and A2fl-s1, A1 when mill finished
- Coating thickness - 60-80 microns
- Impact test - with an energy of 2.5Km to ensure that the coating adheres to the substrate to EN ISO 6272 / ASTM D2794
- Bend test - on 5mm mandrel to ensure adhesion after bending to EN ISO 1519
- Machu Test (accelerated corrosion test) - in a solution made up of sodium chloride acetic acid and hydrogen peroxide at 37 degrees C Duration 48 hours
- Qualicoat 2.4.1. - cross hatch cuts are made at 2mm spacings with one being at 90 degrees to the other cut, tape is the applied left for 2 minutes and removed to check for adhesion of paint (EN ISO 2409 2013)
- Qualicoat 2.18 - sawing and drilling test to ensure no flaking after cutting (using sharp tools)
- Acid salt spray test - ISO 9227
- EN ISO 3231 - Resistance to humid atmospheres containing Sulphur Dioxide
- EN ISO 11341 - Accelerated weathering test
- EN ISO 20810 - Natural weathering test (Florida Test) (Carried out on Powder Type)
- EN ISO 12206-1 - Resistance to mortar (Carried out on powder type)
- EN ISO 6270 - 2 - Constant climate condensation water test.
- Choice of colours - Available in a wide range of RAL colours.

## Protective Finish

The Joists are finished using the seven-stage pre-treatment Qualicoat Standard. Qualicoat is a quality label organisation committed to maintaining and promoting the quality of coating on aluminium and its alloys for architectural applications.

## Decking Joist Spans

All of our spanning criteria has been based on the standards of EN 1991-1-1:2002 "Actions on Structures".

### Low Joist span capabilities:

The Low Joist can span a maximum of 1200mm when laid flat, or up to 1500mm on it's side between pedestals with an L/360 allowable deflection, based on a 1.4kN loading.

## Construction

All AliDeck Joists are constructed from 100% aluminium (6063 T6 grade), up to 67% of which has been recycled to make these products eco-friendly.

## Maintenance

Due to the fact that all AliDeck products are Aluminium and finished using the 7 stage Qualicoat system when powder coated, little or no maintenance is required.

## Colour Options

AliDeck Boards and Joists are available in **10 standard colours**. Please refer to our Standard Colour Range datasheet for colour options (available at [www.alideck.co.uk/decking/boards/alideck-colours/](http://www.alideck.co.uk/decking/boards/alideck-colours/)).

Non-standard colours are available on request as special orders, but may affect cost and lead-time. The Boards and Joists can be supplied non-coated/mill finish to achieve A1 fire rating.



## Warranty

The Low Joist is supplied with a **30 year warranty** against splitting, cracking, warping, splintering, rotting, twisting and material or manufacturing defects. It has a minimum **60 year life expectancy**.



**INCREASED SPAN CAPABILITIES AGAINST TIMBER OR COMPOSITE OPTIONS BY OVER 300%**



**ALL ALUMINIUM**



**QUICK AND EASY TO INSTALL**



**COLOUR MATCHED TO THE DECK BOARDS**



**LOW MAINTENANCE**



**RECYCLABLE**



**STABLE IN ALL WEATHER CONDITIONS**

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Victory Park  
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Aluminium Decking