AliDeck

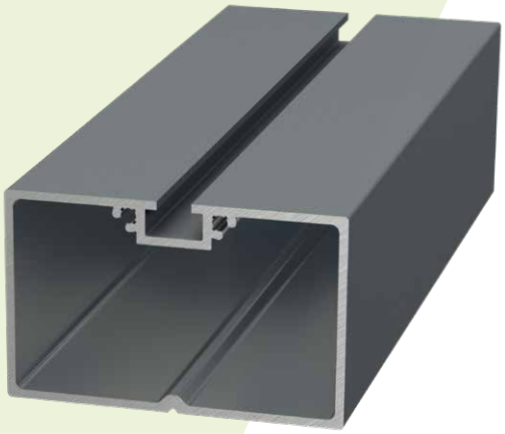
ECO 50 JOIST

MADE IN BRITAIN

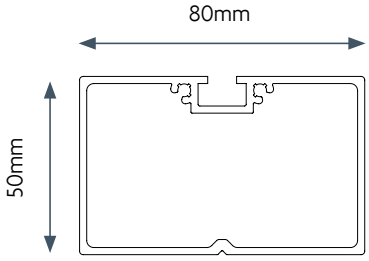
Specification Datasheet

The **AliDeck Eco 50 Joist** is an integral part of the AliDeck System! This extrusion is designed to act as a support and a joist for the junior and big span balcony board specifically on concrete, steel balconies and terrace areas that require adjustable heights. This joist is designed to work in conjunction with the AliDeck adjustable pedestals and the rest of the AliDeck deck board range.

A2-s1, d0 FIRE RATED



Dimensions



Benefits include:

- Increased span capabilities against timber or composite
- Also available in mill finish (A1)
- Fire Rated: A2-s1, d0 (powder test only)
- All aluminium
- Quick and easy to install
- Low maintenance
- Recyclable
- Stable in all weather conditions

The Eco 50 Joist is 1.576 Kg per metre

SUPPORTING BRACKETS:

Standard Pedestal Brackets
Adjustable Pedestal Brackets
Jumbo Adjustable Pedestals
Wind-up Pedestals
Low Connection

All AliDeck Joists have been independently tested for Fire performance for flooring, walls, and ceilings to BS EN 13501 (BS EN 13823, and BS EN ISO 1716). Also tested for Slip-resistance to BS 7976 Part 2; Wear-resistance to SATRA TM391. Loading performance to BS 6180; Deflection performance to BS 8118, BS 6399, and BS 1991.

ALIDECK™
Aluminium Decking

Product Specification

- Fire resistant: A2-s1, d0 and A1 when mill finished
- Coating thickness - 60-80 microns
- Impact test - with an energy of 2.5kN 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

AliDeck 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 1991-1-1-1:2002 "Actions on Structures".

Eco 50 Joist span capabilities:
The ECO 50 Joist can span up to 1000mm between pedestals with an L/360 allowable deflection, based on a 1.4kN loading.

Construction

AliDeck joists are constructed completely from 100% aluminium (6063 T6 grade), up to 67% of which has been recycled to make these joists eco-friendly and much better for the environment.

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/**).

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

Warranty

The Eco 50 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 200%

ALL ALUMINIUM

QUICK AND EASY TO INSTALL

COLOUR MATCHED TO THE DECK BOARDS

LOW MAINTENANCE

RECYCLABLE

STABLE IN ALL WEATHER CONDITIONS

Europa & Jenner House
Victory Park
1-2 Trident Close
Medway City Estate
Rochester ME2 4ER

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