

# ALIRAIL SYSTEM

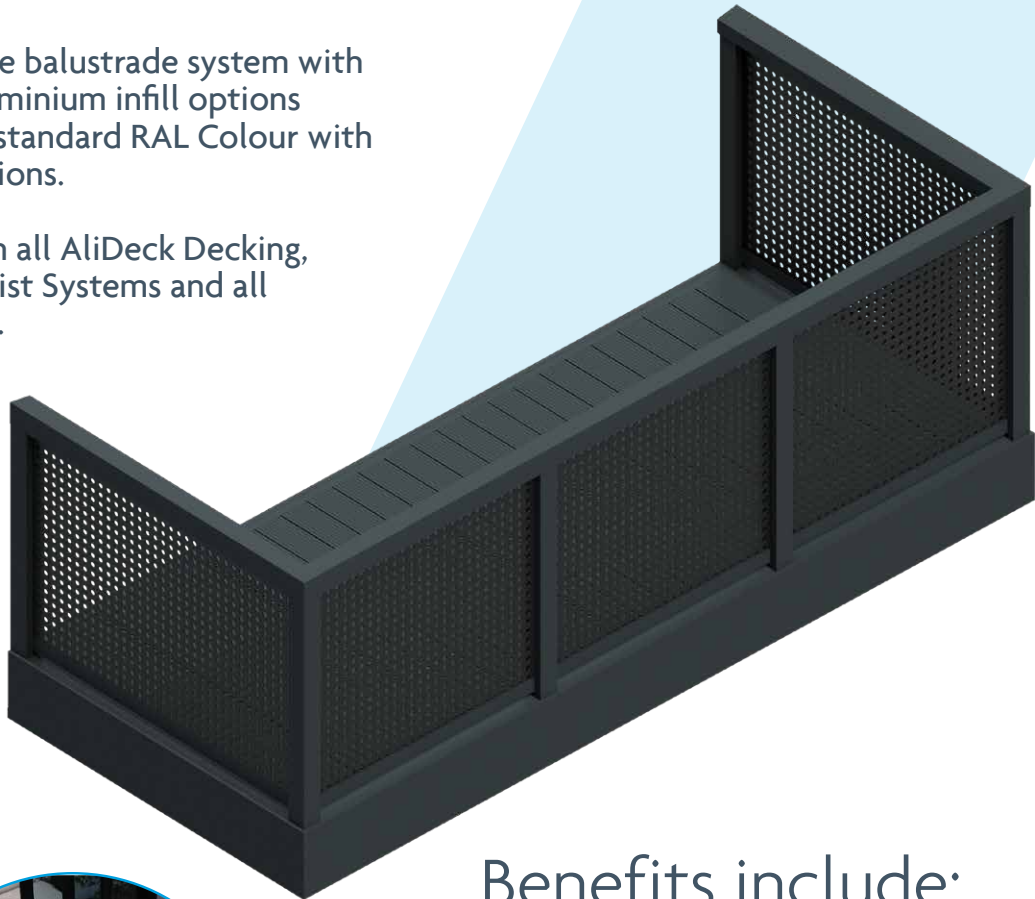
with Aluminium Infills

Specification  
Datasheet

AliRail Aluminium Balustrade System with Aluminium Infill Panels.

A comprehensive balustrade system with configurable aluminium infill options available in any standard RAL Colour with LED lighting options.

Compatible with all AliDeck Decking, Drainage, and Joist Systems and all AliClad Systems.



A2-s1, d0  
FIRE  
RATED



## Benefits include:

- Manufactured from Structural grade 6063 T6 aluminium
- Warranty 30 Years
- Life Expectancy 60 years.
- Loading Capabilities: 1.5 kN/m
- Post dimensions 80mm x 80mm
- LED Lighting options into the handrail.
- Infill options include: a range of punched and laser cut folded aluminium powder coated infill solutions, bespoke own designs also available.
- Fire Rating to A2-s1, d0 when coated

All AliRail products have been independently tested for fire performance to BS EN 13823, BS EN 13501, and BS EN ISO 1716; for loading performance to BS 6180; for deflection performance to BS 8118, BS 6399, and BS 1991; for wind performance to BS 1991.

# Product Specification

- Fire resistant: A2-s1, d0 when coated
- 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 37degrees 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 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 colour - shown opposite. Other colours are available on request.

## Protective Finish

The planks are coloured using the Qualicoat powder coating finish. Qualicoat is a quality label organisation committed to maintaining and promoting the quality of coating on aluminium and its alloys for architectural applications.

## Installation

The AliRail system is designed for easy installation. Full installation guides are available on [www.alideck.co.uk](http://www.alideck.co.uk).

## Construction

AliRail is constructed completely from 100% aluminium (6063 T6 grade), up to 30% of which has been recycled to make this system eco-friendly and much better for the environment.

## Maintenance

Due to the fact that AliRail is aluminium and finished using the 5 stage Qualicoat system, little or no maintenance is required. General grime can be removed simply with a damp, lint free cloth or mop with warm soapy water.

## Colour Options

AliRail is available in our full range of standard colours. Please refer to our Standard Colour Range datasheet for colour options (available at [www.alideck.co.uk/downloads](http://www.alideck.co.uk/downloads)).

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



## Warranty

AliRail 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.



ALL  
ALUMINIUM



HEAT  
RESISTANT



DURABLE  
TEXTURED FINISH



LOW  
MAINTENANCE



RECYCLABLE



STABLE IN ALL  
WEATHER  
CONDITIONS



A2-s1, d0  
FIRE RATED

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**ALIRAIL**  
Modular Balustrade Systems