



COBALT[®] HYBRID

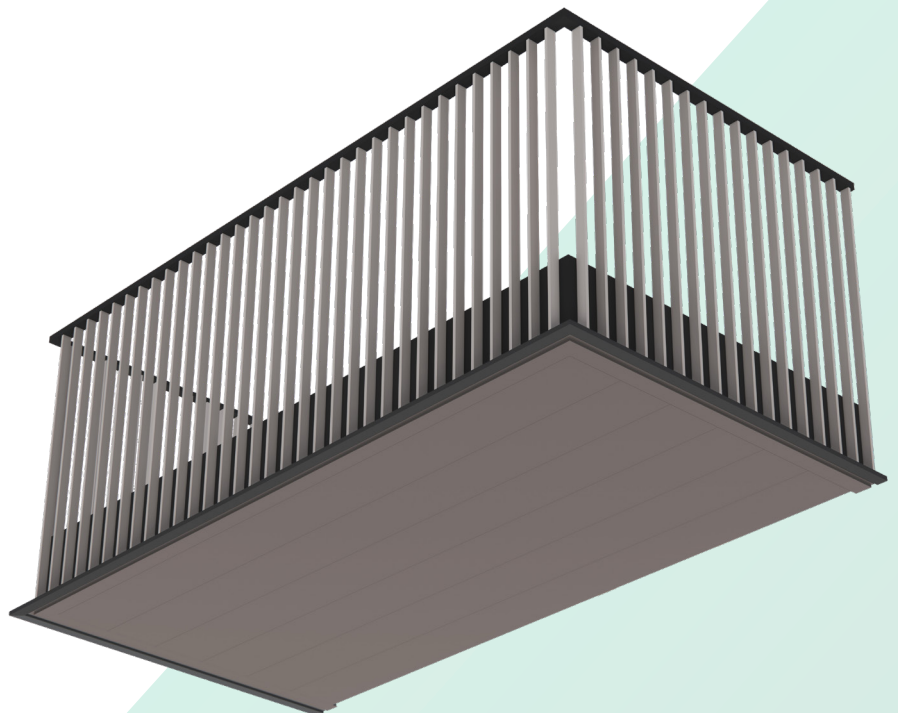
BALCONY SYSTEM

Compliance and Features

A balcony system, tested to provide clear evidence that it meets the essential requirements in the form of **directives**, **regulations** and **harmonised standards**.

▶ Cobalt MF

- Internal Drainage and Filter
- Stone Tiles or Aluminium Decking
- No Exposed Fixings or Welding
- Multiple Colour Combinations - fascia, balustrade, handrail, soffits
- 5 Pending Patents
- Lightweight – 100kg per m²
- Simple and Fast to Install
- Fully Serviceable Parts





Manufactured in the UK



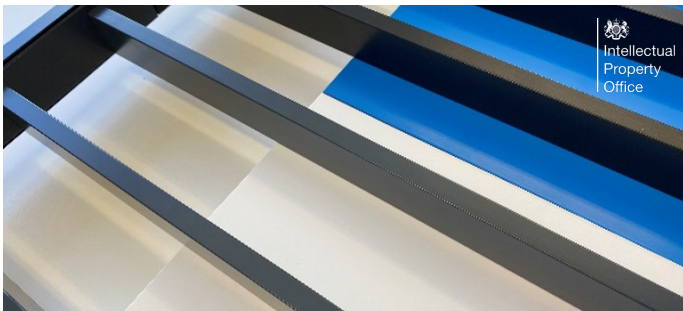
System Features

	Overview	Description
Aesthetics	System	Hybrid Balcony System, Lightweight, and Non-combustible
	Balustrades	5mm Extruded Facia, Serviceable Balustrade Panels from Balcony Floor
	Uprights	Balustrade Blades - 45mm x 15mm
	Handrail	Sloped Inwards - 15 Degrees
	Flooring	Fully Supported Stone Tiles or Aluminium Decking
	Soffits	Fire Barrier, Horizontal, Interlocking, No Seen Fixings
	Colour	Standard and Non-Standard RAL, Anodised
	Seen Welding	None
	Seen Fixings	None
	Country of Origins	United Kingdom
Materials	Material - Primary	Extruded Structural and Architectural Grade Aluminium
	Grade - Primary	6005 A, 6063 T6
	Material - Secondary	Mild Steel
	Grade - Secondary	S355
Weight and Geometry	Finished Balcony Weight	100kg per m2 (aluminium flooring) 150kg per m2 (stone flooring)
	Balustrade System	17.5 kg per l/m
	Shape	Rectangular, Curved, Triangular, Rhombus
	Chassis Height	>380mm - Including Upstand, Maximum 600mm
	Upstand	>50mm
	Width	No Limit
	Projection	<2500mm
	Cast in Anchor	>2000mm Centres
Warranties and Durations	Warranty	15 years
	Serviceability	30 years
	Design Life	60 Years

Our Types

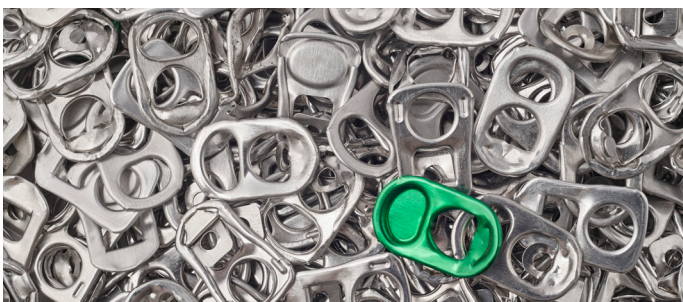


Suitable for **concrete and steel frame, unitised**, or **precast** methods of construction.



Intellectual Property Office

Contrasting Colours Possible



Sustainable Materials - Up to 70% Recycled Aluminium Content

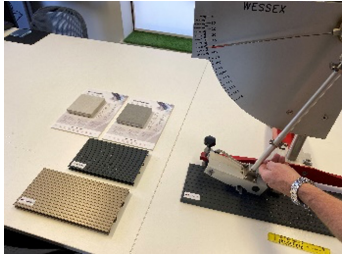


100kg m² - Requires Less Cast in Anchors

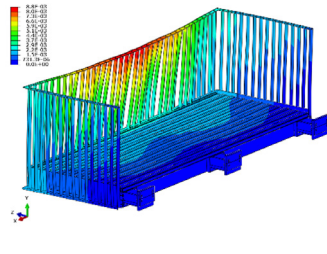


Compliance Testing

	Overview	Test Results	Compliance Test Code
Structural Performance	Deflection	<5mm Under Static 2 kN Load	BS 8579: 2020
	Minimum Vertical Frequency	>7.5Hz	BS 8579: 2020
	Vertical Uniformly Distributed Load (UDL)	Pass - 3.75kN/m ²	BS EN 1991-1-1 Category 5
	Uplift Vertical Uniformly Distributed Load (UDL)	Pass - 3.75kN/m ²	BS EN 1991-1-1 Category 5
	Vertical Point Load	Pass - 3.0kN	BS EN 1991-1-1 Category 5
	Horizontal Line Load - Balustrade	Pass - 2.25kN/m	BS 6180, BS 8579:2020
	Horizontal Point Load - Balustrade	Pass - 2.25kN/m	BS 6180, BS 8579:2020
	First Vertical Mode of Vibration	TBC	Hammer Test
Fire Safety	Fire Safety in Residential Buildings	A2 s1-d0	BS 9991: 2015
	Reaction to Fire	A2 s1-d0	BS EN 13501-1:2018, BS EN ISO 1182, BS EN 1716
	Single Burn Item Test - Aluminium Flooring	A2 s1-d0	BS EN 13823
Flooring	Pendulum Test Value (PTV) - Stone Flooring	80.8 (Wet)	BS EN 13036-4
	Pendulum Test Value (PTV) - Aluminium Flooring	49 (Wet)	BS EN 13036-4
	Wind Fatigue - Stone Flooring	3.75kPa	BRE Special Digest 346-7
	Furniture Leg Scratch - Stone Flooring	Pass - Excellent	EN ISO 16581
	Furniture Leg Scratch - Aluminium Flooring	Pass - Good	EN ISO 16581
Drainage	Drainage	>1:80 Fall	BS 8579: 2020
	Water Management	30mm Projection from Balcony	BS 8579: 2020
Coatings and Treatment	Polyester Powder Coating	60-90 microns	BS EN 12206-1:2004, Qualicoat Level 2 and 3
	Hot Dip or Spun Galvanising	>85 microns	BS EN ISO 1461:2009
Bimetallic and Corrosivity	Corrosivity of Metal Content and Assembly	30 Year Serviceable Life	BS EN ISO 9223:2012, BS EN ISO 9224:2012, BS EN ISO 12922-2:2017
Acoustics	Impact Sound Insulation Tests - Stone Flooring	Low	BS EN ISO 140-7: 1998
	Impact Sound Insulation Tests - Aluminium Flooring	Medium - Low	BS EN ISO 140-7: 1998
Thermal	TBC	TBC	BS EN ISO 13789
	TBC	TBC	BS EN 13501-1:2018



Slip Testing



Structural Performance



Acoustic Testing



Fire Safety

Environmental Testing

	Overview	Test Results	Compliance Test Code
Environmental Impact	EPD Verified (LCA Cradle to Gate with Modules)	Verified - Green Book Registered	EN 15804 A1 EPD
	Recycled Content	Recycled Aluminium	LCA ISO 14067: 2018
	Carbon Footprint Assessment	Carbon Neutral	ISO 14067: 2018



Carbon Neutral Product

