

PRODUCT SPECIFICATION

Product: Vision® Air with Balco lightweight slab

Project: Project Admiral, Poole

Design characteristics:

- Wintergarden glazing system free from corner support posts
- Maximum width per unit 5.4m per section
- Maximum height 2.8m
- Noise reduction ~17 dB
- Parapet infill to be either Laminated glass or other composite material
- Integrated Kerafx® Flexpress 100 intumescent strip

Manufacture characteristics:

- Production in accordance with EN755
- Welding in accordance with EN ISO 3834-2
- CE marking in accordance with EN 1090-1:2009+2011
- Quality assurance to ISO 9001 & ISO 14001

Extruded Aluminium profiles

- All profiles to be architectural alloy to grade AA 6060, 6063 (T6)
- Profiles to be produced by Hydal or ProfilGruppen in accordance with BS EN 573-2:1995

Rivets

- All rivets to be surface fixed large flange blind rivets, Alu AlMg3 Mandrel: Steel
- Rivets to be powder coated in accordance with approved design

Priming and polyester powder coating

- All aluminium is to be rinsed pre-treated in accordance with Alficoat 770-771
- All polyester powder coating to be as per Qualicoat class 1 standards
- Minimum thickness 60 µm as per ISO2360
- Dry adhesion according to ISO2409
- Gloss coating in accordance with ISO2813:

Category	Gloss range	Acceptable variation
1 (matt)	0 - 30	+/- 5 units
2 (satin)	31 - 70	+/- 7 units
3 (gloss)	71 - 100	+/- 10 units

- Bend tests to ISO1519
- Impact tests to ISO 6272-2 / ASTM S 2794

Folding glass windows

- Windows to have an inwardly action opening system
- Windows supported by an upper and lower integral suspension rail
- Windows to include a swan-neck support bracket
- Single integrated magnetic locking mechanism to primary window
- Glass to be 6-8mm toughened glass



PRODUCT SPECIFICATION

Handrail

- Dual handrail system fitted to external extrusion rail in accordance with Building Regulations Part-K
- Distance between handrails not to exceed 100mm
- Handrail:
 - Upper - BKS 5821
 - Lower - BKS 5820
 - Support - R700557
 - Fixings A4 Stainless

Parapet Glass

- Glass provided by Pilkington OEA
- 3mm float glass + 2xPVB interlayer + 3mm float glass
- Glass is framed with rubber gaskets in an aluminium frame
- All glass is beaded from the inside of the balcony

Ventilation

- Non-mechanical VentTec® ventilation system
- Fully integrated into the upper extrusion transom
- VentTec® ventilation system must work in conjunction with built in blinds

Fixings

- All fixings to be provided by Hilti or WÜRTH
- Fixings to be designed following concrete pull-test or crush-test
- Mechanical or chemical anchors acceptable

Accessories

All of the following accessories can be added to the Balco Vision Wintergarden:

- Integrated Roller blinds
- Balcony Carpets
- Bolt-on window boxes
- Photovoltaic integrated parapet glass
 - 135w/m² 6inch A2 Solar cells within glass section

Balco lightweight slab *(Steel framed, reinforced concrete balcony slab)*

- All steelwork to be Grade S355
- Fire rated to 30, 60 or 90 minutes
- All steelwork to be HDG to ISO1460 & PPC as required
- All connection bolts to be grade 8.8 or stronger
- Connection joints to be welded in accordance with EN ISO 3834-2
- Concrete to be class C35/46
- Surface exposure class top is XC4XF3
- Surface exposure class underside is XC3-XF1
- Dimensioning in accordance with relevant EuroCodes