

BalcoDeck® Compliance Document

[Compliance Statement for BalcoDeck®]

Order ID: [REDACTED]

Client: [REDACTED]

Project Address: [REDACTED]

Prepared By: **BALCONETTE**

Date: **13-1-26**

PURPOSE OF SUBMISSION

This document outlines the compliance of the installed BalcoDeck® – a freestanding decking system with integrated Aerofoil glass balustrading has been designed, supplied and installed in accordance with British and European standards, including BS8579:2020, EN 1991, BS6180:2011, and relevant UK Building Regulations (Approved Documents K and B) and is supported by calculation reports, test evidence referenced herein.

This compliance statement is intended for review by Building Control, Approved Inspectors, and project stakeholders.

SYSTEM DESCRIPTION

Decking System

- ☐ **System Type:** BalcoDeck® freestanding aluminium decking system.
- ☐ **Material:** Structural grade extruded Aluminium (EN AW-6063 T6).
- ☐ **Colour and Finish:** RAL 7016 Super durable polyester powder coatings (60–90-micron class 2) texture finish and Mill finish
- ☐ **Installation:** Raised support system with adjustable feet. Adjustable for falls in all directions.
- ☐ **Slip resistance:** Low Slip Potential. PTV >60 (dry) and PTV > 50 (wet).
- ☐ **Fixing method:** Self-standing system with no penetration to roof
- ☐ **Fire Safety:** Decking materials conform to non-combustible classification **A2,s1-d0** under BS EN 13501-1.
- ☐ **Access and maintenance:** Adequate provision made for safe access to all decking surfaces for cleaning and maintenance.

Glass Balustrading System

- ☐ **System type:** Aerofoil Glass Balustrade
- ☐ **Colour:** Royal Chrome Anodised finish and Mill finish
- ☐ **Material:** Structural grade extruded aluminium (EN AW-6063 T6) and Hot deep galvanized S275 steel.
- ☐ **Glass:** 10mm monolithic toughened clear glass
- ☐ **Fixing Method:** Post-mounted system fixed to primary decking structure and Handrails to be fixed to the walls/structure at both ends.
- ☐ **Height:** Minimum 1100 mm above finished floor level (FFL) for balconies (per BS 6180)
- ☐ **Fire Safety:** Glass Balustrading materials conform to non-combustible classification **A1** under BS EN 13501-1.

STRUCTURAL DESIGN COMPLIANCE

DECKING	OCCUPANCY CLASS/ES: Category A – Areas for domestic and residential activities: ▪ Rooms in residential buildings and houses. ▪ Bedrooms and wards in hospitals. ▪ Bedrooms in hotel and hostels kitchens and toilets.	Uniform distributed load [kN/m²] on Deck board	1.5 – 2.0 kN/m²
	[EN 1991-1:2002: Eurocode 1]	Concentrated load [kN] to act at any point on the decked board	2.0 – 3.0 kN
		Concentrated load [kN] to act at any point on the Joist	2.0 – 3.0 kN
	DEFLECTION: [BS 8579: 2020]	< 5mm under static 2kN Point Load on decked surface <i>[For occupant comfort, it is preferable that no accessible portion of the balcony pedestrian surface deflects more than 5 mm under a static 2 kN concentrated load.]</i>	
	SLIP RESISTANCE: [EN-16165:2021]	Slip Potential = Low	

BALUSTRADE	OCCUPANCY CLASS/ES: ▪ Domestic and residential activities – (i) & (ii) ▪ Offices and work areas not included elsewhere –(iii),(iv) & (v) ▪ Areas without obstacles for moving people and not susceptible to overcrowding – (viii) & (ix)	Service load on handrail:	0.74 kN/m – Uniformly distributed line load acting 1100mm above finished floor level.
	[BS 6180:2011]	Service load on infill:	1.0 kN/m² – Uniformly distributed load
		Point load on infill design:	0.50 kN – Applied to any part of the glass infill
	DEFLECTION: [BS 6180:2011]	< 25mm <i>[The total displacement of any point of a barrier from its original unloaded position under the action of service loads is limited to 25mm.]</i>	

DESIGN STANDARDS REFERENCED

- EN 1991-1:2002: Eurocode 1 - Eurocode 1. Actions on structures - General actions - Densities, self-weight, imposed loads for buildings.
- BS 8579: 2020 - Guide to the design of balconies and terraces
- BS EN 16165:2021 - Determination of slip resistance of pedestrian surfaces - Methods of evaluation
- BS 6180:2011 - Barriers in and about buildings. Code of practice
- EN 1991 Eurocode 1: Actions on structures.
- EN 1993 Eurocode 3: Design of steel structures.
- EN 1999 Eurocode 9: Design of aluminium structures.
- BS EN 1990:2002 + A1:2005 Eurocode: UK National annex for Eurocode
- BS EN 1991-1-4:2002 + A1:2010 'Actions on structures – wind actions'
- UK National Annex to EN 1991-1-4:2002 + A1:2010 - Guidance on the determination of natural wind actions
- Approved Document B – Building regulation - Fire safety.
- Approved Document K – Building regulation - Protection from falling, collision and impact.

WIND LOAD ASSESSMENT SUMMARY

A project-specific wind load assessment has been carried out in accordance with BS EN 1991-1-4:2005 + A1:2010, UK National Annex to BS EN 1991-1-4.

Assessment outcome		
Compliance Area	Outcome	Compliance Criteria & Outcome
Wind Uplift	Verified Compliant	Project-specific assessment: Where required, the installed BalcoDeck® system is assessed against the calculated wind actions applicable to the project site. The relevant wind assessment report forms part of the project compliance documentation.
Lateral Stability (Sliding)	Verified Compliant	The system is verified as stable against lateral sliding forces. Residual lateral forces are effectively resisted by a combination of the system's self-weight, friction, and adhesive restraint at the pedestals.

Wind Load Assessment Report: <https://www.balconette.co.uk/content/uploads/ff8f473d-f78e-455b-8337-b3999a264c56/wind-assessment-report---redacted-example.pdf>

DECK BOARD DEFLECTION AND SERVICEABILITY SUMMARY

Deflection testing of the BalcoDeck® aluminium decking boards has been undertaken under concentrated loading and deflections comply with the serviceability recommendations of BS 8579:2020.

Assessment outcome		
Compliance Area	Result	Compliance Criteria & Outcome
Deck Board Deflection	Verified Compliant	The decking was tested under a 2 kN concentrated load. Deflections comply with the serviceability recommendations for occupant comfort, verified to be < 5mm.

BalcoDeck®- Decking Board Deflection Test Report: <https://www.balconette.co.uk/nmd/420bc7da-39b6-47c9-bfd3-b3c600cc46bd/68398%20-%20board%20deflection%20report.pdf>

BALUSTRADE STRUCTURAL AND DEFLECTION ASSESSMENT SUMMARY

The serviceability performance of the balustrade system has been assessed in accordance with BS 6180:2011.

Assessment outcome		
Compliance Area	Result	Compliance Criteria & Outcome
Handrail Strength (Ultimate Limit State)	Pass	Ultimate bending resistance capacity of the handrail is sufficient to safely resist factored design loads.
Serviceability (Deflection)	Pass	Deflection under characteristic service load is < 25 mm. <i>Satisfies BS 6180:2011 serviceability limit.</i>
Post & Baseplate Resistance (Ultimate Limit State)	Pass	Post moment capacity exceeds the required moment from the combined imposed load and wind load actions. Base plate and fixings capable of resisting all design actions.
Wind Load Design (External Actions)	Pass	The system is designed for a project-specific wind pressure derived from BS EN 1991-1-4 and verified as adequate against wind uplift and lateral sliding.

Balustrade Compliance Document: <https://www.balconette.co.uk/content/uploads/a65a463f-f737-430a-9c10-6f54062f8a0b/balustrade-coc---redacted-sample.pdf>

FIRE PERFORMANCE SUMMARY

Fire performance of the BalcoDeck systems has been assessed in accordance with BS EN 13501-1.

Assessment Outcome		
System Component	Fire Classification	Significance
BalcoDeck® Decking System (Aluminium)	A2,s1-d0	Classification of limited combustibility, with negligible smoke production (s1) and no flaming droplets (d0)
Glass Balustrade System	A1	Classification of non-combustible material (highest rating).

Referenced Document links:

- Combined Fire Classification Evidence Pack:
<https://www.balconette.co.uk/content/uploads/02bb61ea-5f2d-40d1-a754-5706e288195c/combined-fire-classification-evidence-pack--balcodeck.pdf>
- Balustrade fire classification report: <https://www.balconette.co.uk/content/uploads/25e6613e-7c06-416e-a630-d6a89822534d/13501-classification-report-344b.pdf?ss360SearchTerm=13501>

SLIP RESISTANCE SUMMARY

The slip resistance of the BalcoDeck® decking surface is determined by the Super durable polyester powder coating finish applied (RAL 7016 Texture). The assessment results are taken from the Powder Coating Technical Data Sheet.

Test Condition	Measured PTV (BalcoDeck®)	Slip Potential Classification
Dry Surface	> 60	Low Slip Potential (PTV > 36)
Wet Surface	> 50	Low Slip Potential (PTV > 36)

Referenced Document link:

https://www.balconette.co.uk/content/uploads/217e202f-0550-4204-b11e-3ef7b7a8c449/emea_tds_interpon-d2525-texture-isr_v5_en.pdf

EXISTING ROOF / WATERPROOFING RECORD

The existing roof/substrate and visible waterproofing condition are inspected and recorded prior to installation. BalcoDeck® is a freestanding system and, where specified, does not penetrate the existing waterproofing. The existing roof structure and waterproofing remain the responsibility of the relevant building owner or appointed specialist.

Inspection / Record	Date	Status / Evidence	Links
Existing waterproofing inspected at Survey	DD/MM/YY	Completed / See photographic record	https://www.balconette.co.uk/nmd/7bc8c5af-adfa-44c5-8a63-abfb00fa2eac/53816-balcodeck1-survey/
Pre-installation photographs	DD/MM/YY	Provided	https://www.balconette.co.uk/nmd/7bc8c5af-adfa-44c5-8a63-abfb00fa2eac/53816-balcodeck1-preinstallation/
Drainage outlets identified	DD/MM/YY	Confirmed / See as-built drawings	None – free drainage on this site
Installation photographs	DD/MM/YY	Non penetration documented	https://www.balconette.co.uk/nmd/7bc8c5af-adfa-44c5-8a63-abfb00fa2eac/53816-balcodeck1-installation/
Existing defects recorded	DD/MM/YY	None identified / See inspection record	None (N/A)

OTHER SUPPORTING DOCUMENTS

The following documents form part of this submission and should be reviewed alongside this compliance statement. They are available via below QR codes and digital links.

Document Names	QR Code or Link
As-built Drawings (Decking and Balustrade Layout, Pedestal grid, post locations, and fixing details - if applicable)	https://www.balconette.co.uk/glass-balustrade/order-drawing/7bc8c5af-adfa-44c5-8a63-abfb00fa2eac
Operation & Maintenance Guidelines	https://www.balconette.co.uk/general/maintenance-and-operation-guidelines-for-glass-balustrades-screens-and-juliette-balconies
Balconette Product Warranty Information	https://www.balconette.co.uk/general/balconette-balustrades-10-year-guarantee-information-and-terms-and-conditions

USEFUL CONTACTS

For Technical assistance or further product information, including replacement components, please contact our sales department or customer service department.

OFFICE HOURS: Monday – Friday: 8:30 am to 17:30 pm

Customer services	customercare@balconette.co.uk	Tel: 01342 360714
Sales	sales@balconette.co.uk	

DECLARATION

We hereby confirm that the **BalcoDeck® freestanding decking system with integrated Aerofoil Infinity glass balustrade** has been designed, supplied, and installed in accordance with the standards and statutory requirements listed in this document.

NOTES FOR RECIPIENT (IMPORTANT)

This certificate is an important and valuable document which should be retained for future use. If you were the person ordering the work, but not the owner or user of the system, you should pass this certificate or a full copy of it including these notes, immediately to the owner or user of the system. Any design modification made to the system after installation by others will not be covered by this certificate.

