



PRODUCT GUIDE **Balustrading**



# Contents

Q-Deck® Balustrading Introduction	2
Why Choose Q-Deck® Plus?	
Strength Rated	2
Product Grading	2
Deckorators™ Balusters Introduction	2
<hr/>	
Posts and Newels	3
Spindles	4
Handrails/Baluster Rails	5
Windsor Lattice	5
<hr/>	
Readymade Feature Balustrades	6
Strength Rated Balustrade System Kit	6
<hr/>	
Deckorators™ Balusters	7
<hr/>	
Appendix 1: Technical Information	8-9
<hr/>	
Appendix 2: Warranty Information	11

# Balustrading



A wide range of high quality treated softwood decking balustrading components and accessories.

## Why Choose Q-Deck® Plus?

- Quality selected redwood raw material
- A wide range of products that suit tradesmen and the DIY enthusiast
- 15 year performance warranty on all products
- Entire product range FSC certified as standard
- Tanalith® E Extra treated with built-in water repellent
- Well known, established brand
- TDA DeckMark® accredited products
- TDA DeckMark® Plus performance rated products
- Dedicated free phone sales response line - 0800 849 6339
- Informative website - [www.qualitydecking.co.uk](http://www.qualitydecking.co.uk)

## Strength Rated

Q-Deck® Plus strength rated balustrading combines various components from the existing Q-Deck® range and a new simple timber to timber connector.

- Ideal for commercial applications
- Robust design creates a great looking balustrade
- Simplicity of the connectors ensure a quick and simple installation
- Handrail height of 1100mm

The systems are supplied as a kit of parts. The Grand post material must be used to create the newel posts. Specific installation instructions are included.



By buying Q-Deck® products you are supporting the growth of responsible forest management world wide.

FSC SUPPLIER  
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PRESSURE TREATED TIMBER  
WITH BUILT-IN WATER REPELLENT



DeckMark  
Quality Assured  
PRODUCT

DeckMark+  
Performance Rated  
PRODUCT

## Product Grading

### Premium Decking

In principle, free of all hit and miss. Knots will be sound and appropriate to the cross-section.

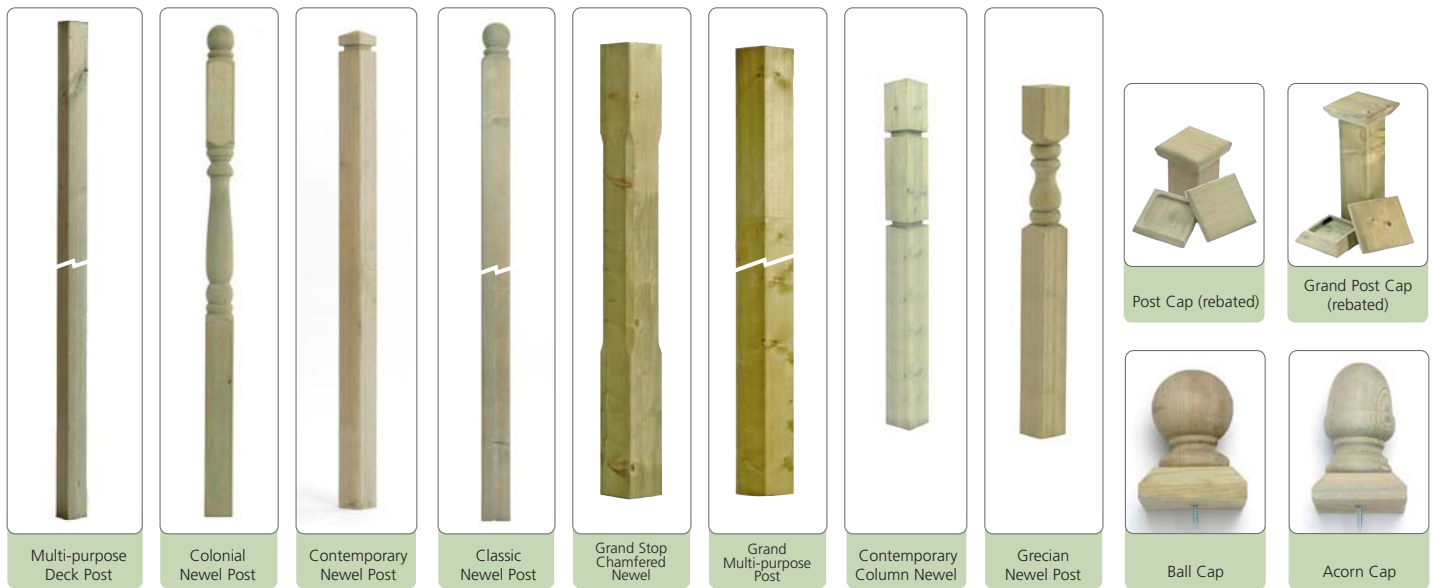
Typically sizes will be taken from material selected for sound knots, minimal shake and minimal distortion. This material is produced from a good fifth redwood or equivalent and can be re-cut from a thicker size. Smaller sizes will be taken from unsorted redwood which we re-saw from a thicker size. Where indicated, saw-falling whitewood may be used.

47 x 47mm and 90 x 90mm sections will be taken from material selected for minimal shake and distortion.



2 styles of powder coated aluminium balusters available in a black or bronze finish.

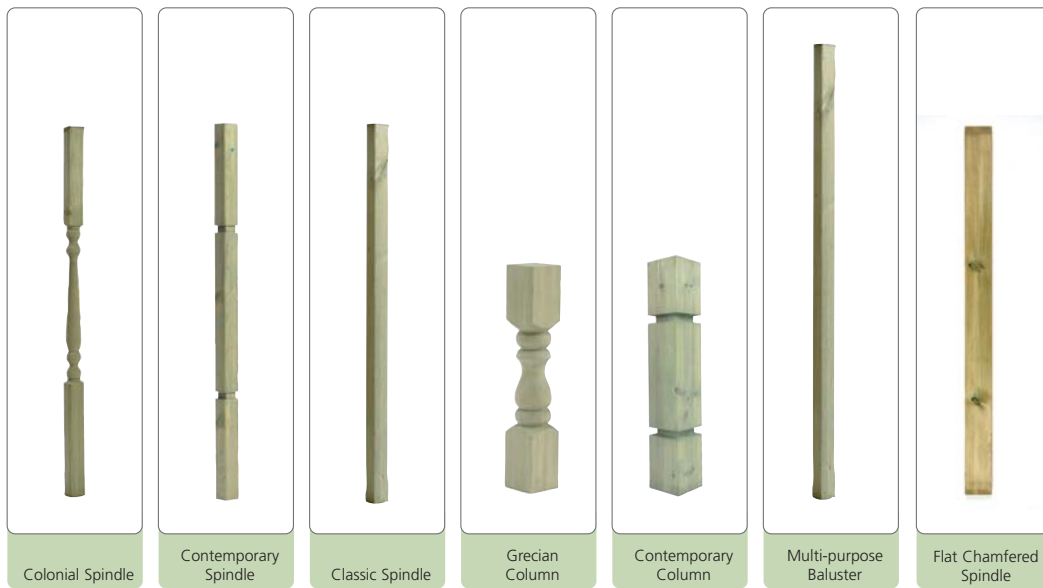
# Posts and Newels



SIZE AND DESCRIPTION (ALL NOMINAL SIZES)	TREATMENT SPECIFICATION	LENGTH	PIECES PER BUNDLE	PIECES PER PACK	PIECES PER BULK PACK
90 x 90mm Multi-purpose deck post (available strength graded)	UC4	1.8m, 2.4m, 3.0m	-	-	90
90 x 90mm Colonial newel post (including integral ball cap)	UC3	1.5m	-	78	156
90 x 90mm Contemporary newel post	UC4	1.5 m	-	78	156
90 x 90mm Contemporary newel post	UC4	3.0m	-	65	130
90 x 90mm Contemporary column newel post	UC3	0.75m	-	-	-
90 x 90mm Classic newel post (including integral ball cap)	UC3	1.5m	-	78	156
90 x 90mm Classic long post (including ball cap)	UC4	3.0 m	-	65	130
90 x 90mm Grecian newel post	UC3	0.75m	-	-	-
120 x 120mm Grand Stop Chamfered Newel	UC3	1.5m	-	-	-
120 x 120mm Grand Multi-purpose Post	UC3	3.0m	-	-	-
32 x 125 x 125mm Square Post caps (rebated)	UC3		-	-	-
50 x 175 x 175mm Grand Post caps (rebated)	UC3		-	-	-
100 x 100 x 170mm Ball cap & post (incl connector)	UC3		4	-	-
100 x 100 x 140mm Acorn cap & post (incl connector)	UC3		4	-	-

UC3 = Treated to Use Class 3 UC4 = Treated to Use Class 4

# Spindles



SIZE AND DESCRIPTION (ALL NOMINAL SIZES)	TREATMENT SPECIFICATION	LENGTH	PIECES PER BUNDLE	PIECES PER PACK	PIECES PER BULK PACK
47 x 47mm Colonial spindle	UC3	0.9m	-	-	588
47 x 47mm Contemporary spindle	UC3	0.9m	-	-	588
47 x 47mm Classic spindle	UC3	2.1-2.7m	-	-	700
90 x 90mm Grecian column	UC3	0.5m	-	-	-
90 x 90mm Contemporary column	UC3	0.5m	-	-	-
38 x 38mm Multi-purpose baluster	UC3	2.1 - 3.9m PTL	6	-	-
32 x 75mm Flat Chamfered Spindle	UC3	975mm	-	-	-

UC3 = Treated to Use Class 3 UC4 = Treated to Use Class 4

# Handrails/Baluster Rails



SIZE AND DESCRIPTION (ALL NOMINAL SIZES)	TREATMENT SPECIFICATION	LENGTH	PIECES PER BUNDLE	PIECES PER PACK	PIECES PER BULK PACK
50 x 75mm Hand and bottom rail	UC3	1.8m, 2.1m, 4.5m+	4	-	364
25 x 50mm Infill for 50 x 75mm Hand rail	UC3	1.8m or 2.1m	10	-	1200
*50 x 175mm Multi-purpose	UC3	-	-	-	-
*50 x 150mm Multi-purpose	UC3	3.0/4.8 <sup>#</sup> PTL	-	-	-
*50 x 100mm Multi-purpose	UC4	4.2 <sup>#</sup> PTL	-	-	200
*38 x 125mm Multi-purpose	UC3	3.0-5.4 PTL	135	-	270
32 x 100mm Multi-purpose	UC3	3.0-3.9 PTL	-	-	-

\* Available strength graded to C16

# Subject to availability

UC3 = Treated to Use Class 3 UC4 = Treated to Use Class 4

# Windsor Lattice



SIZE AND DESCRIPTION (ALL NOMINAL SIZES)	TREATMENT SPECIFICATION	LENGTH	PIECES PER BUNDLE	PIECES PER PACK	PIECES PER BULK PACK
1220 x 10mm Super Privacy Windsor Lattice 19mm diamond hole	UC3	2.44m	-	50	-
38 x 38mm Lattice Outer Framing Piece	UC3	2.7 to 4.2m	6	-	-

UC3 = Treated to Use Class 3

# Ready-made Feature Balustrades



Colonial Ready-Made Balustrade



Contemporary Ready-Made Balustrade



Classic Ready-Made Balustrade

SIZE AND DESCRIPTION (ALL NOMINAL SIZES)	TREATMENT SPECIFICATION	LENGTH	PIECES PER BUNDLE	PIECES PER PACK	PIECES PER BULK PACK
Colonial ready-made balustrade (height 985mm)	UC3	1.8m	-	10	-
Contemporary ready-made balustrade (height 985mm)	UC3	1.8m	-	10	-
Classic ready-made balustrade (height 985mm)	UC3	1.8m	-	10	-

UC3 = Treated to Use Class 3

# Strength Rated Balustrade System Kit



50 x 100mm Multi-purpose



38 x 125mm Multi-purpose



Flat Chamfered Spindle



System Fixing Kit

The systems are supplied as a kit of parts including the 50 x 100mm and 38 x 125mm Multi-purpose material, the new 32 x 100mm Flat Chamfered Spindle and the new timber to timber connecting kit. The Grand Post material must be used to create the newel posts for the system. These can be ordered separately. Specific installation instructions are included in the kit of parts.

SIZE AND DESCRIPTION (ALL NOMINAL SIZES)

KIT COMPRISES

Horizontal Kit - 1800mm Newel Post Centres

- 4x timber to timber connectors
- 10x 75mm, 40x 40mm & 40x 50mm Fastenmaster deck screws
- 1 driver bit
- 2x 1.8m lengths of 44 x 95mm **Q-Deck®** multi-purpose material, for baluster rails
- 1x 1.8m length of 33 x 120mm **Q-Deck®** multi-purpose material, for top handrail
- 27 x 69 x 975mm **Q-Deck® Plus** flat chamfered spindle (x10 for horizontal system)

Stair Kit - 1500mm Newel Post Centres

- 4x timber to timber connectors
- 10x 75mm, 40x 40mm & 40x 50mm Fastenmaster deck screws
- 1 driver bit
- 2x 1.8m lengths of 44 x 95mm **Q-Deck®** multi-purpose material, for baluster rails
- 1x 1.8m length of 33 x 120mm **Q-Deck®** multi-purpose material, for top handrail
- 27 x 69 x 975mm **Q-Deck® Plus** flat chamfered spindle (x8 for stair system)

# Balusters

ALUMINIUM POWDER COATED BALUSTERS



Baroque Baluster  
Black



Arc Baluster  
Bronze

SIZE AND DESCRIPTION (ALL NOMINAL SIZES)	LENGTH	PIECES PER PACK
Deckorators™ Baroque Baluster - Black	32" (approx 810mm)	5
Deckorators™ Arc Baluster - Bronze	32" (approx 810mm)	5

# Appendix 1

## Technical Information

### TREATMENT RELATED TOLERANCES FOR OUTDOOR WOOD PRODUCTS

When **Q-Deck® Plus** products are pressure pre-treated with TANALITH® E they swell beyond the finished size. This can be as much as 4% of the original size and depends on the moisture content (MC) before treatment and the direction of the grain. Therefore, products can end up slightly different sizes after treatment.

As these products dry back to their MC before treatment, they will shrink back to their original machined finished size. During long periods of dry summer weather the MC of the decking products can drop below their original MC before treatment. In this situation they can shrink up to as much as 2.5% of their original machined size and it is normal and acceptable to get a degree of surface checking.

In autumn/winter when the weather gets 'wetter' the moisture content of these products can rise back to similar levels before treatment and as a result the affects of surface checking often disappear as they close.

### HAZARD CLASSES

Timber used in an outside application, generally needs to be pressure pre-treated to meet pre-determined Use Classes (UC).

#### Use Class 3 (UC3)

External building, fencing and landscaping timbers used out of ground contact.

#### Use Class 4 (UC4)

External building, fencing and landscaping timbers used in ground contact.

We have treated all our outdoor wood products to a specific Use Class to match its likely end use application.

### STRENGTH RATED BALUSTRADE SYSTEM

**Q-Deck® Plus** strength rated balustrading system has been strength tested to BS6180 1999: 'Barriers in and about buildings, by FIRA (Furniture Industry Research Association) International Ltd to meet the requirements of BS6399 (1) 1996 'Loadings for Buildings'. There are two available systems, horizontal and stair (set 35° angle) both being suitable for 'contract use level' which encompasses commercial areas where people may congregate such as restaurants and bars. The horizontal system however, has also passed a higher strength test meaning it is also suitable for 'public access' use which encompasses public areas such as national parks.

### PERFORMANCE/STANDARDS SPECIFICATION

**Q-Deck® Plus** strength rated balustrade system are tested to the requirements set out in:

BS 6180: 1999: Barriers in and about buildings – Code of practice

BS 6399: Part 1: 1996: Loading for buildings - Code of practice for dead and imposed loads

BS 5268: Part 2: 2002: Structural use of timber – Code of practice for permissible stress design, materials and workmanship

### TEST RESULTS (LATERAL LOADING & RESULTS)

HORIZONTAL - Q-Deck Plus® strength rated balustrade system (Grand post material as newels at 1800mm centres)

### LOADINGS

	Public Access Level	DL x BS 5268: Part 2: 2002 Safety Factor	DL x Q-mark Safety Factor
Load per Meter	3.0kN/m	6.75kN/m	7.5kN/m
UDL Required	550kg	1237kg	1375kg
UDL Achieved	550kg	N/A	N/A
UDL to In-fill	1.5kN/m <sup>2</sup>	N/R	N/R
UDL <sup>2</sup> Required	1.82kN	N/R	N/R
UDL <sup>2</sup> Achieved	182kg	N/R	N/R
PL Balusters Required	0.75 KN	N/R	N/R
PL Balusters Achieved	75kg	N/R	N/R

# Appendix 1

## Technical Information

### RESULTS

TEST	TEST REQUIREMENT		RESULT
Handrail Stiffness	Design Load	Initial Loading	PASS
		Deflection	<20mm
Handrail Strength	BS 5268: Part 2: 2002 Safety Factor	Initial Loading	N/A
		After 15 minutes	N/A
Handrail Strength	Q-mark Safety Factor	Initial Loading	N/A
		After 15 minutes	N/A
Infill Strength	Design Load	Over all Balusters	PASS
Strength of Balusters	BS 5268: Part 2: 2002 Safety Factor	Min 5 Balusters	PASS
	Q-mark Safety Factor	All Balusters	PASS

RAKED/STAIR (35 DEGREES) - **Q-Deck® Plus** strength rated balustrade system (Grand post material as newels at 1500mm centres)

### LOADINGS

	Contract Level	DL x BS 5268: Part 2: 2002 Safety Factor	DL x Q-mark Safety Factor
Load per Meter	1.5/m	3.38kN/m	3.75kN/m
UDL Required	275kg	619kg	687.5kg
UDL Achieved	275kg	N/A	N/A
UDL to In-fill	1.5kN/m <sup>2</sup>	N/R	N/R
UDL <sup>2</sup> Required	1.82kN	N/R	N/R
UDL <sup>2</sup> Achieved	182kg	N/R	N/R
PL Balusters Required	0.75 KN	N/R	N/R
PL Balusters Achieved	75kg	N/R	N/R

TEST	TEST REQUIREMENT		RESULT
Handrail Stiffness	Design Load	Initial Loading	PASS
		Deflection	7mm
Handrail Strength	BS 5268: Part 2: 2002 Safety Factor	Initial Loading	N/A
		After 15 minutes	N/A
Handrail Strength	Q-mark Safety Factor	Initial Loading	N/A
		After 15 minutes	N/A
Infill Strength	Design Load	Over all Balusters	PASS
Strength of Balusters	BS 5268: Part 2: 2002 Safety Factor	Min 5 Balusters	PASS
	Q-mark Safety Factor	All Balusters	PASS

These systems are also DeckMark® Plus accredited.

DeckMark® Plus is a new initiative from the Timber Decking Association to meet requests from architects and commercial designers for formal performance guidance for the load bearing capabilities of structures like parapets i.e. balustrading.



DeckMark® Plus is an extension of the TDA's DeckMark® quality assurance scheme. Introduced in 2000, DeckMark® was designed to give reassurance to specifiers and consumers that timber deck components have been manufactured to established quality standards. DeckMark® Plus builds on this widely adopted scheme to combine a quality accredited product with a formal performance rating. For example DeckMark® Plus now enables architects and designers to specify balustrading systems that have been independently strength tested in line with BS 6399:Part 1 1996 to satisfy the combined rules of BS 6180: 1999 & BS 5268: Part 2: 2002. This process provides product performance ratings as guidance for certain end use applications.

# Appendix 2

## Warranty Information



### Q-DECK® 15 YEAR WARRANTY

Hoppings Softwood Products Plc hereby certify that when fixed appropriately in accordance with the relevant design guidance Q-Deck® timber decking products shall be deemed under warranty for 15 years from the date of supply.

### CONDITIONS OF WARRANTY

The component shall have been supplied by Hoppings or by an authorised Q-Deck® retailer. Proof of date and purchase must be produced to this effect.



Timber should always be treated in its final form. However, any timber exposed by cross-cutting, notching or boring after treatment must be liberally swabbed with two coats of Arch Ensele® brush-on end grain preservative, in accordance with the Arch Code of Practice for Tanalith® E pressure treated timber or the manufacturers instructions. Where possible cross-cut ends must not then be placed in the hazard zone of the design (ie. in ground contact).

The component shall have been fixed in accordance with appropriate guidance in force at the time. eg. the Timber Decking Manual published by the Timber Research and Development Association and the current Q-Deck® point of sale leaflet.

### EXCLUSIONS OF WARRANTY

- Q-Deck® products placed in fresh or salt water contact.
- Q-Deck® products supplied for installation outside UK mainland.
- Q-Deck® products removed from their original installation and re-used at a new location.
- Degrade caused by poor maintenance or by a material change in the installation environment.
- Failure due to Q-Deck® components being used for any purpose for which they were not designed.

### TRANSFERABILITY OF WARRANTY

The Q-Deck®/Q-Garden® 15 year warranty is fully transferable to new owners of the installed deck without notification.

### UNDERTAKING

The warranty is for the cost of re-supply, by Hoppings, of a component that is proven to have failed as a result of fungal decay or insect attack, FREE OF CHARGE. It does not cover the costs of removal or reinstatement of such components or consequential costs or loss due to failure of the component.

The term 'fungal decay' as used in the warranty refers to wood destroying fungi that feed on and degenerate the wood cell walls. It excludes staining and mould fungi associated with the weathering of wood.

The term 'failed' refers to damage caused by fungi to such an extent that the component is no longer fit for purpose.

### STATUTORY RIGHTS

This warranty is in addition to the purchaser's normal statutory rights.



### DECKORATORS® 10 YEAR WARRANTY

The Deckorators™ aluminium powder coated baluster products come with a 10 year limited lifetime warranty against corrosion, chipping, peeling or cracking of the powder coated finish.