



PRODUCT GUIDE **Balustrading**



**DecXorators™**



PRESSURE TREATED TIMBER  
WITH BUILT-IN WATER REPELLENT

ISSUE 5 JULY 2012



**MERCHANTS  
GUIDE**

# Contents

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

# 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
- Product range is available FSC®/PEFC certified on request.
- 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.

## 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.



Powder coated aluminium balusters available in a black finish.

# Posts and Newels



| SIZE AND DESCRIPTION (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 Stop Chamfered newel post                           | UC3                     | 1.5m             | -                 | 78              | 156                  |
| 90 x 90mm Contemporary newel post                             | UC4                     | 1.5m             | -                 | 78              | 156                  |
| 90 x 90mm Contemporary newel post                             | UC4                     | 3.0m             | -                 | 65              | 156                  |
| 90 x 90mm Classic newel post (including integral ball cap)    | UC3                     | 1.5m             | -                 | 65              | 156                  |
| 90 x 90mm Classic long post (including ball cap)              | UC4                     | 3.0 m            |                   |                 | 130                  |
| 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 (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 Stop Chamfered spindle                        | UC3                     | 0.9m       | -                 | -               | 588                  |
| 47 x 47mm Classic spindle                               | UC3                     | 0.9m       | -                 | -               | 588                  |
| 47 x 47mm Classic spindle (available to order only)     | UC3                     | 2.1-2.7m   | -                 | -               | 700                  |
| 90 x 90mm Grecian column (available to order only)      | UC3                     | 0.5m       | -                 | -               | -                    |
| 90 x 90mm Contemporary column (available to order only) | UC3                     | 0.5m       | -                 | -               | -                    |
| 38 x 38mm Multi-purpose baluster                        | UC3                     | 2.1 - 3.9m | 6                 | -               | -                    |
| 32 x 75mm Flat Chamfered Spindle                        | UC3                     | 0.970m     | -                 | -               | -                    |

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

## Balusters ALUMINIUM POWDER COATED BALUSTERS

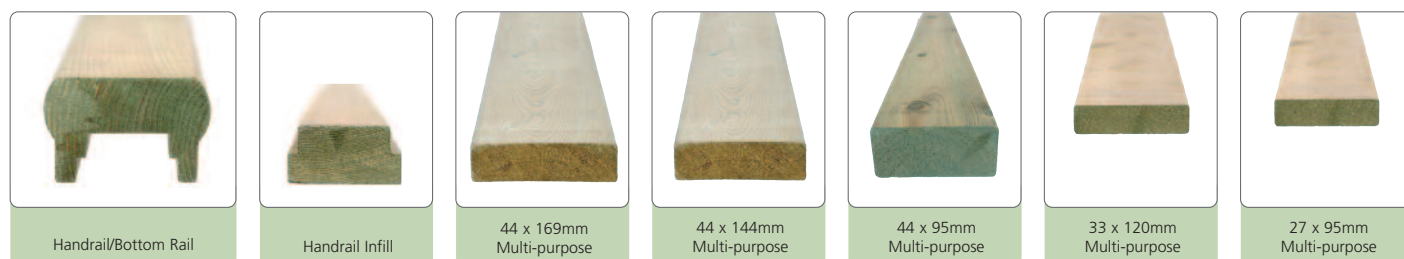


Baroque Baluster  
Black



| SIZE AND DESCRIPTION                  | LENGTH             | PIECES PER PACK |
|---------------------------------------|--------------------|-----------------|
| DecXorators™ Baroque Baluster - Black | 32" (approx 810mm) | 5               |

# Handrails/Baluster Rails



| SIZE AND DESCRIPTION (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 (available to order only) | UC4                     | -                 | -                 | -               | -                    |
| *50 x 150mm Multi-purpose                           | UC4                     | 4.8m PTL          | -                 | -               | -                    |
| *50 x 100mm Multi-purpose                           | UC4                     | 4.8m PTL          | -                 | -               | 200                  |
| *38 x 125mm Multi-purpose                           | UC3                     | 3.0-5.4m PTL      | 135               | -               | 270                  |
| 32 x 100mm Multi-purpose                            | UC3                     | 3.0-3.9m PTL      | -                 | -               | -                    |

\* Available strength graded to C16

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

# Windsor Lattice



| SIZE AND DESCRIPTION                                        | 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

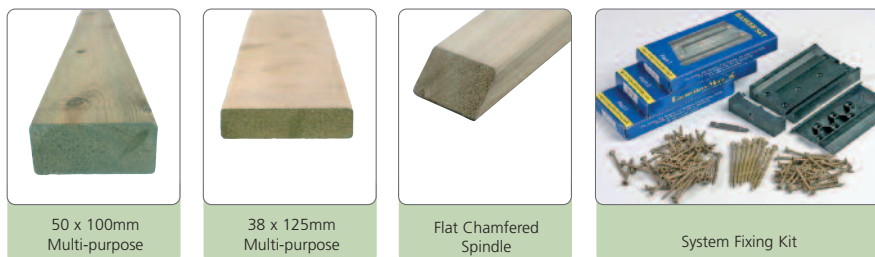
# Ready-made Feature Balustrades



| SIZE AND DESCRIPTION                                | 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              | -                    |
| Stop Chamfered ready-made balustrade (height 985mm) | UC3                     | 1.8m   | -                 | 10              | -                    |

UC3 = Treated to Use Class 3

# Strength Rated Balustrade System 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                       | KIT COMPRISES                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Horizontal Kit - 1800mm Newel Post Centres | <ul style="list-style-type: none"> <li>• 4x timber to timber connectors</li> <li>• 10x 75mm, 40x 40mm &amp; 40x 50mm Fastenmaster deck screws</li> <li>• 1 driver bit</li> <li>• 2x 1.8m lengths of 50 x 100mm <b>Q-Deck®</b> multi-purpose material, for baluster rails</li> <li>• 1x 1.8m length of 38 x 125mm <b>Q-Deck®</b> multi-purpose material, for top handrail</li> <li>• 32 x 75 x 970mm <b>Q-Deck® Plus</b> flat chamfered spindle (x10 for horizontal system)</li> </ul> |
| Stair Kit - 1500mm Newel Post Centres      | <ul style="list-style-type: none"> <li>• 4x timber to timber connectors</li> <li>• 10x 75mm, 40x 40mm &amp; 40x 50mm Fastenmaster deck screws</li> <li>• 1 driver bit</li> <li>• 2x 1.8m lengths of 50 x 100mm <b>Q-Deck®</b> multi-purpose material, for baluster rails</li> <li>• 1x 1.8m length of 38 x 125mm <b>Q-Deck®</b> multi-purpose material, for top handrail</li> <li>• 32 x 75 x 970mm <b>Q-Deck® Plus</b> flat chamfered spindle (x8 for stair system)</li> </ul>       |

# 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 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 moisture content before treatment, they will shrink back to their original machined finished size. During long periods of dry summer weather the moisture content of the decking products can drop below their original moisture content 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.

### USE 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.

The manufacturers 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® /Q-GRIP® TIMBER DECKING & Q-GARDEN® TIMBER COMPONENTS 15 YEAR WARRANTY

Hoppings Softwood Products Plc hereby certify that when fixed appropriately in accordance with the relevant design guidance **Q-Deck®/Q-Grip®** timber decking products and **Q-Garden®** timber 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®/Q-Grip®/Q-Garden®** retailer.

Proof of date and purchase of the timber and **Ensele®** end grain preservative or **Ronseal®** end grain preserver or **Hickson®** Decor End Grain Preservative must be produced to this effect.



Only **Q-Deck®** sub-frame timbers are deemed suitably fit for use with **Q-Deck®/Q-Grip®/Q-Garden®** components.

This warranty explicitly excludes the use of non **Q-Deck®** sub-frame components as Hoppings cannot control the specification or

quality of such products and these components could expose correctly preservative treated timber to a greater degree of risk of fungal decay/insect attack.

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 or **Ronseal®** end grain preserver or **Hickson®** Decor 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 and maintained 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®/Q-Grip®/Q-Garden®** point of sale leaflet and website.

#### EXCLUSIONS OF WARRANTY

- **Q-Deck®/Q-Grip®/Q-Garden®** products placed in fresh or salt water contact.
- **Q-Deck®/Q-Grip®/Q-Garden®** products supplied for installation outside UK mainland.
- **Q-Deck®/Q-Grip®/Q-Garden®** products removed from their original installation and re-used at a new location.
- Degrade caused by poor maintenance, such as allowing the accumulation of dirt and other organic matter to occur, or by a material change in the installation environment i.e. where a Use Class 3 component is 'in effect' being un-necessarily subjected to Use Class 4 conditions.
- Failure due to **Q-Deck®/Q-Grip®/Q-Garden®** components being used for any purpose for which they were not designed.

#### TRANSFERABILITY OF WARRANTY

The **Q-Deck®/Q-Grip®/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.

The warranties are wholesaler/manufacturer to consumer/buyer warranties.

However the initial raising of a complaint should be directed to the authorised retailer from where the goods were purchased. The complaint should be made in writing/e-mail and must include proof of purchase ie. a copy or scan of the original invoice.



### 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.