



Opal[®]

Mild steel balustrade & handrail system
Product Overview



Opal[®] - Mild steel balustrade and handrail system

The Opal[®] mild steel range offers the option to introduce colour into your project and is a cost effective, practical solution that is ideal for retail, commercial, residential, education and leisure applications.

Opal[®] is also available in an optional nylon coating finish that can be applied to prevent it from being classed as cold to touch.

If you would prefer an alternative handrail to the Opal[®] system, consider using our Onyx[®] stainless steel handrail or enhance it with our Natura[®] hardwood handrails to give a softer, warmer effect. For a more economic but effective option to our Natura[®] natural hardwood handrails, consider introducing our Naturex[®] wood grain effect finish.

Opal[®] can be infilled with toughened glass, horizontal mid rails, vertical bar, tensioned wire, or perforated panels.



Opal® > Product Credentials

- > Seamless finish for completely smooth bends
- > Hidden fixings for a crisp, clean look
- > Cost effective alternative to the Onyx® balustrade system
- > Continuous, flowing handrails and balustrade top rails with no finger traps

Standard baluster profile

50mm Ø

Standard handrail profile

42mm Ø

50mm Ø

Material type

Mild steel

Finishes

Polyester powder coated to any standard RAL colour

Nylon coated to most standard RAL colours

Special metallic colours - *Please contact Regal Balustrades Ltd to confirm your requirements*

Infill

Glass

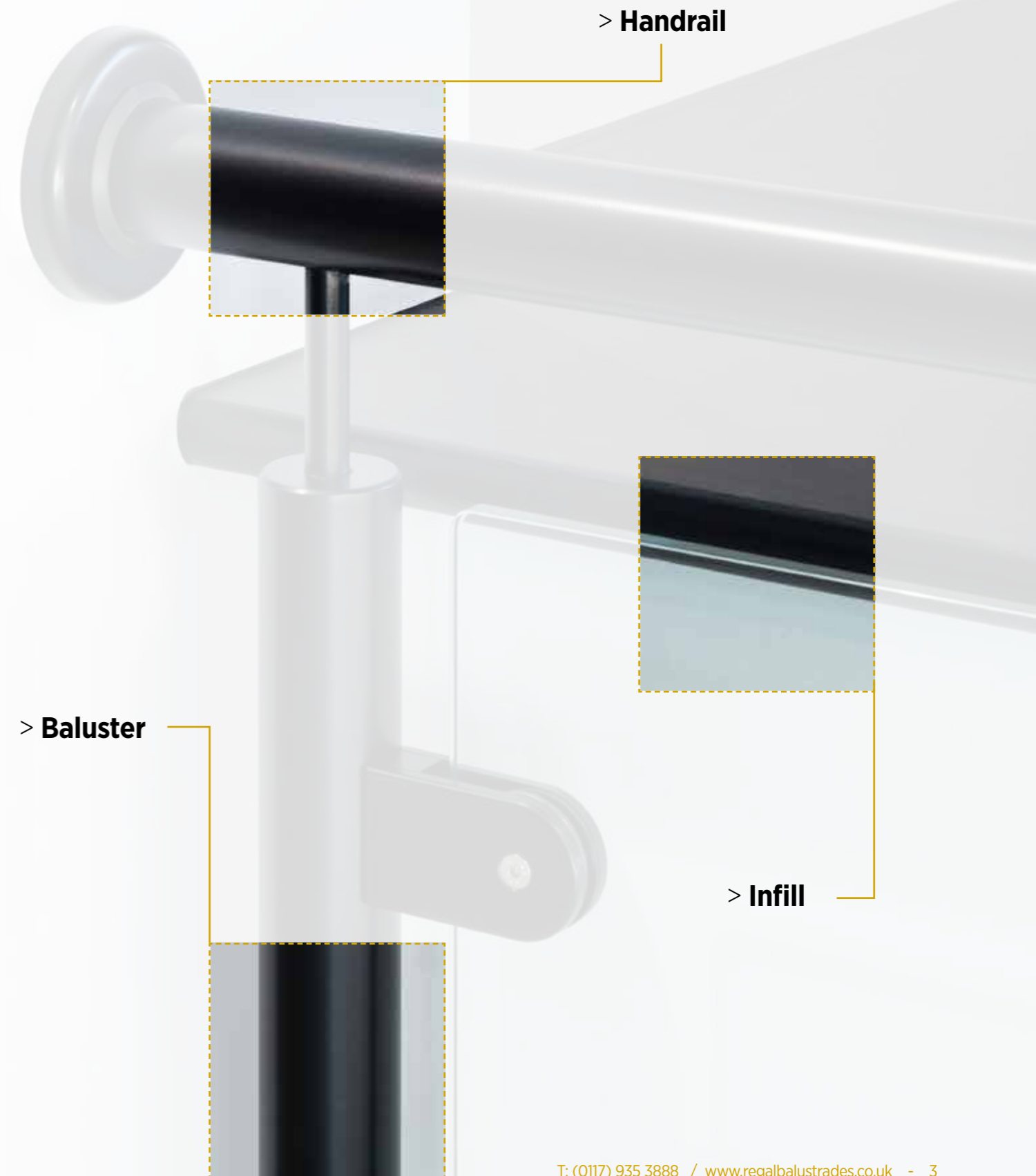
Vertical Bars

Horizontal Bars

Perforated Panels

Wire Infill

Opal® > Elements



> Handrail

> Baluster

> Infill

Case Study

> 01

| **University Dental
Hospital, Manchester**

Opal® handrail system

Application

Education

Manufacturer

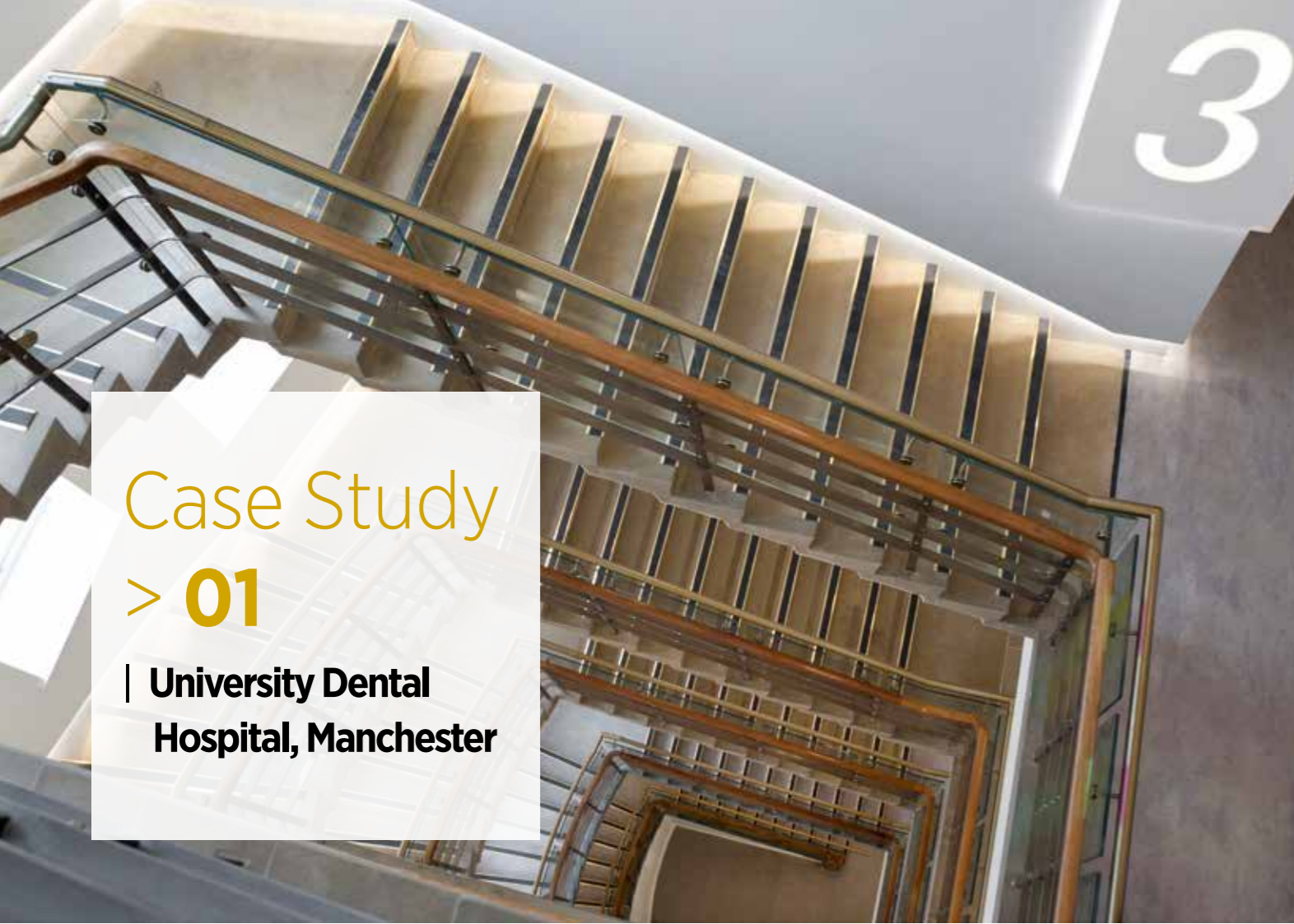
Regal Balustrades Ltd
Unit 7, Eagles Wood Business Park, Woodlands Lane, Bradley Stoke, Bristol, BS32 4EU
T: 0117 9353888 / E: sales@regalbalustrades.co.uk / W: www.regalbalustrades.co.uk

**Reference
Handrail**

Opal® tubular steel handrail system
50mm Ø steel

**Fixing Method
Design Criteria
Treatment**

Brackets fixed to existing balustrade
Mechanically assembled engineered system. Fully factory finished
Polyester powder coated to satin brass colour





Case Study

> 02

| Claremont Fan Court
School, Esher

Opal® balustrade system

Application	Education
Manufacturer	Regal Balustrades Ltd Unit 7, Eagles Wood Business Park, Woodlands Lane, Bradley Stoke, Bristol, BS32 4EU T: 0117 9353888 / E: sales@regalbalustrades.co.uk / W: www.regalbalustrades.co.uk
Reference	Opal® tubular steel balustrade system
Balusters	50mm Ø steel
Top rail	50mm Ø steel
Infill	No infill
Fixing Method	Balusters floor fixed with cover rose
Design Criteria	0.74kN loading p/m
Treatment	Mechanically assembled engineered system. Fully factory finished
Finish	Polyester powder coated to Interpon steel bronze colour

Case Study

> 03

| Lime Tree House,
Eastbourne

Opal® balustrade system

Application

Residential

Manufacturer

Regal Balustrades Ltd
Unit 7, Eagles Wood Business Park, Woodlands Lane, Bradley Stoke, Bristol, BS32 4EU
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Reference

Opal® tubular steel balustrade system

Balusters

50mm Ø steel

Top rail

50mm Ø steel

Infill

10mm clear toughened glass panels (toughened to BSEN 12150 Class 1) with radius corners and all edges polished as standard

Fixing Method

Balusters floor fixed and side fixed

Design Criteria

0.74kN loading p/m

Treatment

Mechanically assembled engineered system. Fully factory finished

Finish

Polyester powder coated to standard RAL colour



Case Study

> **04**

| **Gulfstream MRO,
Farnborough Airport**

Opal® balustrade system

Application	Commercial
Manufacturer	Regal Balustrades Ltd Unit 7, Eagles Wood Business Park, Woodlands Lane, Bradley Stoke, Bristol, BS32 4EU T: 0117 9353888 / E: sales@regalbalustrades.co.uk / W: www.regalbalustrades.co.uk
Reference	Opal® tubular steel balustrade system
Balusters	50mm Ø steel
Top rail	42mm Ø steel
Infill	4 No. 16mm Ø horizontal midrails
Fixing Method	Balusters floor fixed
Design Criteria	0.74kN loading p/m
Treatment	Mechanically assembled engineered system. Fully factory finished
Finish	Nylon coated

Case Study

> 05

| Forest Gate,
Crawley

Opal® balustrade system

Application

Commercial

Manufacturer

Regal Balustrades Ltd
Unit 7, Eagles Wood Business Park, Woodlands Lane, Bradley Stoke, Bristol, BS32 4EU
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Reference

Opal® tubular steel balustrade system

Balusters

50mm Ø steel

Top rail

50mm Ø steel

Infill

10mm clear toughened glass panels (toughened to BSEN 12150 Class 1) with radius corners and all edges polished as standard

Fixing Method

Balusters floor fixed and side fixed

Design Criteria

0.74kN loading p/m

Treatment

Mechanically assembled engineered system. Fully factory finished

Finish

Polyester powder coated to standard RAL colour





Case Study

> **06**

| **Dundonald School,
London**

Opal® handrail system

Application

Education

Manufacturer

Regal Balustrades Ltd
Unit 7, Eagles Wood Business Park, Woodlands Lane, Bradley Stoke, Bristol, BS32 4EU
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**Reference
Handrail**

Opal® tubular steel handrail system
50mm Ø steel

Fixing Method

Brackets fixed to wall with standard brackets / fixed to bespoke balustrade (balustrade by Regal Balustrades Ltd)

**Treatment
Finish**

Mechanically assembled engineered system. Fully factory finished
Polyester powder coated to standard RAL colour



> Bespoke colours

Finishes > Overview

There are various available options and permutations for finishes. Alternative handrails may be, Natura®, Naturex® or Oynx®, and the whole system can be lifted to a higher perceived value by incorporating additional LED lighting into the handrail.

Note: If you would like the baluster posts in other finishes, please refer to the Oynx® range

Handrail Finishes > Opal® - Polyester Powder Coated

- > Any RAL colour
- > Special metallic colours - Please contact Regal Balustrades Ltd to confirm your requirements

Handrail Finishes > Onyx® - Stainless Steel

- > Satin polished
- > Mirror polished

Handrail Finishes > Natura® - Hardwood

- > Standard hardwoods
- > Special hardwood - Please contact Regal Balustrades Ltd to confirm your requirements

Handrail Finishes > Alternative options

- > Naturex® woodgrain effect coating - Please contact Regal Balustrades Ltd to confirm your requirements
- > PVD (Physical Vapor Deposition)
- > The provision for incorporating associated LED lighting in handrail
- > Nylon coating
- > Electropolishing



> Infill designs.

> Image does not represent the Opal® glass fixing lug. The Opal® glass fixing detail is the standard 'D' type glass lug as viewed in case study 3 & 5.



regal

BALUSTRADES

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