

### NBS & Gradus Specification

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#### CHR160 Combination Rail

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#### NBS Specification

P20 UNFRAMED ISOLATED TRIMS/SKIRTINGS/SUNDRY ITEMS  
30 OTHER ITEMS / 170 OTHER ITEMS

**Manufacturer:** Gradus Wall Protection, Park Green, Macclesfield, Cheshire, SK11 7LZ.  
Tel: 01625 428922 - Website: [www.gradus.com](http://www.gradus.com) - Email: [sales@gradus.com](mailto:sales@gradus.com)

**Reference:** CHR160 Combination Rail

**Colour (select as required):** 001 Chalk (LRV: 87.51), 002 Gravel (LRV: 53.71), 003 Clay (LRV: 33.86), 004 Granite (LRV: 24.07), 005 Shale (LRV: 17.88), 006 Ivory (LRV: 81.98), 007 Wicker (LRV: 70.36), 008 Sand (LRV: 52.26), 009 Sienna (LRV: 26.67), 010 Bark (LRV: 16.61), 011 Pebble (LRV: 59.08), 013 Greige (LRV: 38.97), 014 Cinnamon (LRV: 42.30), 016 Glacier (LRV: 59.27), 018 Azure (LRV: 45.14), 020 Denim (LRV: 16.91), 021 Straw (LRV: 75.21), 024 Bamboo (LRV: 54.74), 028 Poppy (LRV: 16.31), 030 Iris (LRV: 18.61), 031 Alum (LRV: 71.91), 032 Flint (LRV: 43.70), 033 Slate (LRV: 7.03), 035 Hessian (LRV: 35.79), 040 Lychee (LRV: 44.83), 041 Terracotta (LRV: 27.04), 046 Indigo (LRV: 10.92), 044 Sage (LRV: 39.35), 045 Fern (LRV: 18.23), 048 Lagoon (LRV: 48.61), 042 Mulberry (LRV: 13.38), 043 Mimosa (LRV: 68.48)

**Fixing:** Mechanical (screw) fix – as per manufacturer's instructions

#### Gradus Detailed Specification

**Manufacturer:** Gradus Wall Protection, Park Green, Macclesfield, Cheshire, SK11 7LZ.  
Tel: 01625 428922 - Website: [www.gradus.com](http://www.gradus.com) - Email: [sales@gradus.com](mailto:sales@gradus.com)

**Reference:** CHR160 Combination Rail

**Cover:** PVC-u

**Retainer:** Aluminium

**Accessories:** PVC-u – CHR1602 Universal Corner, CHR1604L Left Return, CHR1604R Right Return, CHR1603 Mounting Bracket (002 Gravel).

**Height:** 160mm

**Depth:** 94mm

**Length:** 4.00m

**Colour (select as required):**

For colour options please see above

**Fixing:** Mechanical (screw) fix – as per manufacturer's instructions

#### Description

The Gradus CHR160 Combination Rail has a large surface area and is primarily designed to offer direct and indirect protection against impact from wheeled traffic. The profile also has comfortable grip and thumb groove to provide reassuring pedestrian support. Modular in design for easy installation and replacement in the event of damage, the CHR160 combination rail includes a PVC-u cover, aluminium retainer and PVC-u injection moulded accessories. Accessories include reveals to provide a tight, neat joint and contain an anti-microbial additive to inhibit the growth of bacteria. All PVC-u covers and accessories are non-reflective, through coloured and textured to conceal the effects of impact and abrasion.

The CHR160 Combination Rail can be selected in a contrasting colour to the wall finish to aid movement around a building for visually impaired people, in line with BS8300:2001+A1:2010 and The Building Regulations 2010 - Approved Document M guidelines. Light Reflectance Values (LRVs) are detailed above for all colours.

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