

GRADUS

Colour & Contrast

A design guide for the use of Gradus products
incorporating light reflectance values (LRVs)



Feb 2015

3
Third Edition

Introduction

This leaflet provides information about colour and contrast within the built environment and why it is important to provide a colour contrast between different surfaces for people with a visual impairment.

Details from research that has been undertaken into colour and contrast are included, in addition to recommendations from the latest legislation and guidelines, what light reflectance values (LRVs) are, why they are important and what the implications are for Gradus products.

Colour coded sheets for Gradus products are also available, detailing the LRV of each colour within the range.

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Colour & Contrast — Design Guidelines

Improving access to buildings for all users in line with the Equality Act 2010 is fundamental and specifiers are using as many tools as possible to ensure that buildings are designed or refurbished in order to create an inclusive environment.

Studies, including Project Rainbow (a research project carried out by Reading University in conjunction with the Royal National Institute of Blind People (RNIB), The Guide Dogs for the Blind Association (GDBA) and ICI Paints) identified the importance of colour and contrast in improving the built environment for visually impaired people.

Project Rainbow identified that colour and contrast can provide designers with a mechanism for highlighting critical surfaces and special features and can provide the basis for wayfinding for visually impaired people.

Project Rainbow states that:

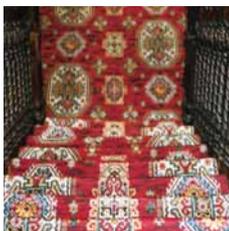
Critical Surfaces: identified as large areas of an interior that form the impression of shape, space and proximity when scanned by a visually impaired person, i.e. floors, walls, ceilings, stairs and doors. Project Rainbow continues to inform that 'navigating through a building is much easier if these areas are colour contrasted' and expands on specific details:

Patterns: 'In general, some critical surfaces may be covered in a subtle pattern or striped finish, but highly contrasting colours in irregular, busy or geometric patterns are very unhelpful and should be avoided. If a pattern is used on a critical surface it is the colour that occupies the largest proportion of the area which is the most important.'

Reflective Finishes: 'On critical surfaces, the use of highly reflective shiny surfaces can cause considerable confusion for visually impaired and fully sighted people. Such finishes should always be used with caution, and wherever possible, matt or mid sheen finishes are recommended. This will also allow for the full benefit of colour differentiation to be realised.'

Two Colours Used: 'On critical surfaces where two colours are to be used...the upper part of the wall should be sufficiently different from the ceiling colour and the lower wall should be sufficiently different from the colours used for the floor.'

Patterns: patterned carpet and no stair edgings - looks like a ramp



Reflective finishes: flooring should not be shiny - looks like puddles of water



Two colours: panelling same colour as floor - makes the room look bigger than it actually is



Colour & Contrast – Design Guidelines

Special Features: identified as areas that need to be highlighted to allow a building to be used effectively by visually impaired people, i.e. stair edgings, handrails and door opening furniture.

‘Special features are additional areas, smaller than critical features, that need to be highlighted to allow the building to be used more easily by visually impaired people. Such features include sanitary ware, handrails, door handles, finger plates, switches, socket outlets, and stair nosings etc, all of which should be contrasted against the background against which they will be seen. Smaller items such as these will need a greater colour difference from their surroundings in order to be identified.’

Trim: ‘Special attention is needed to those items used in an internal environment to improve the decorative appeal and overall finish of an interior. Such items, which include coving, skirting, architrave, dado rail etc, should be decorated in colours used on larger critical surfaces.’

Special features:
stair edgings -
different colour and
luminance to flooring
to define
step edges



Special features:
door opening
furniture contrasts
with the door



**Overall
environment:** good
contrast between
floor and wall and
handrail and wall.
Skirting same colour
as the wall



BS8300:2009+A1:2010 and The Building Regulations 2000: Approved Document M

British Standard BS8300:2009+A1:2010 states that light reflectance values (LRVs) are used to assess visual contrast using the method of measurement detailed in BS8493:2008. Approved Document M (ADM 2004) directly refers to colour and contrast in the definitions section, stating:

‘Contrast visually, when used to indicate the visual perception of one element of the building, or fitting within the building, against another means that the difference in light reflectance value between the two surfaces is greater than 30 points.’

ADM 2004 then refers to Colour, Contrast & Perception – Design Guidance for Internal Built Environments, Reading University (Project Rainbow).

Permission to reproduce extracts from BS8300:2009+A1:2010 is granted by BSI. British Standards can be obtained in PDF or hard copy formats from the BSI online shop: www.bsigroup.com/Shop or by contacting BSI Customer Services for hardcopies only: Tel: +44 (0)20 8996 9001, Email: cservices@bsigroup.com.

Source: Building Regulations - Access to and use of buildings - Approved Document M - 2004 Edition
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Light Reflectance Values (LRVs) explained

The 'Colour Contrast & Perception' document produced by Reading University uses light reflectance values (LRVs) to measure colour and contrast in products/surfaces and determines whether or not a suitable contrast has been achieved between surfaces.

The study concluded that visually impaired people may be unable to perceive some or all colours. However, many people with a visual impairment can perceive light and dark and, therefore, LRVs are a suitable method to measure contrast.

Reflectance is the proportion of light that a surface reflects compared to the amount of light that falls on the surface. An LRV is a value given to a surface to denote the amount of light reflected.

LRVs are marked on a scale of 1 to 100 depending on the percentage of light reflected. Dark, matt and/or textured surfaces absorb a large amount of light and, therefore, have low reflectance values. On the other hand, light, glossy and/or smooth surfaces reflect the majority of light that falls on them and have high reflectance values.

For example, a colour with an LRV of 60 (which means it reflects 60% of the light that falls on it) will reflect more light than that of a colour with an LRV of 30.

Light reflectance scale



In order to achieve a suitable contrast between different surfaces, Project Rainbow and ADM 2004 recommend that there is at least a 30 point (not 30%) difference in the LRVs of the two surfaces.

How to measure LRVs

The new British Standard [BS8493:2008](#), published in November 2008, specifies the method of test to determine the light reflectance value (LRV) of different surfaces of materials, including preparation of specimens in standardised conditions.

Previous to this standard being published, two widely used methods of measurement had been used - the CIE L value (fluorescent light) and the CIE Y value (natural daylight), causing confusion and potentially dangerous specifications. [This new standard has adopted the CIE Y value as the single consistent method of measurement for LRVs that is to be used across all industries.](#)

BS8493:2008 stipulates that a spectrophotometer (apparatus) is used to measure the LRV using CIE Tristimulus Y, Illuminant D65 (natural daylight) and the 10° colorimetric observer. Further to this, the standard details the number of measurements that need to be taken from each specimen, using a measurement grid (see figures 1 and figure 2 below).

The standard states that the results of the LRV measurements shall then be put into a test report.

[All relevant Gradus products have been measured using the CIE Y value and a test report is available upon request.](#)

Illustrations based on BS8493:2008

- Light Reflectance Value (LRV) of a surface - method of test

Figure 1: measurement grid for specimens that do not have a pattern or textured surface i.e. accessories

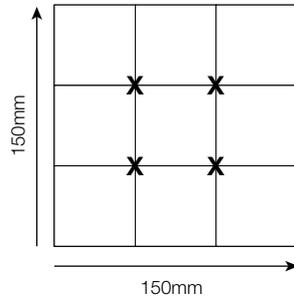
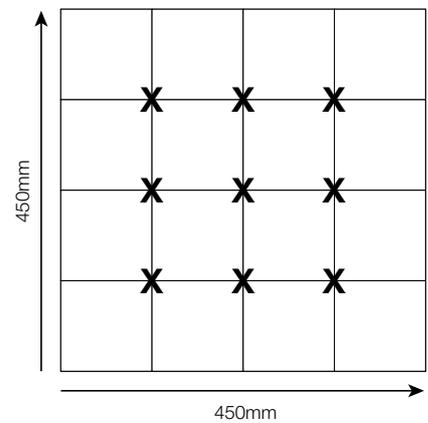


Figure 2: measurement grid for carpets and floorcoverings



LRVs should be considered when specifying:

Flooring Accessories



Stair Edgings

Wall Protection



Dualrail
Pushplates
Wallguards
Kickplates

Matting



Primary Barrier Matting
Secondary Barrier Carpet

Floorcoverings



Carpet

What the colour & contrast guidelines mean for Gradus flooring accessories:

Stair Edgings

Gradus is the market leader in contract flooring accessories and offers the widest choice of product solutions for stairs and floors. Gradus stair edgings help to reduce accidents on stairs by offering increased slip-resistance in both interior and exterior environments. The range of stair edging colours from Gradus allows specifiers and users to achieve colour contrast to the surrounding floorcovering, ensuring the provision of an inclusive environment for all building users.

BS8300:2009+A1:2010: 'Each step nosing should incorporate a permanently contrasting continuous material for the full width of the stair on both the tread and the riser to help blind and partially sighted people appreciate the extent of the stair and identify individual treads. The material should be 50mm to 65mm on the tread and 30mm to 55mm on the riser, and should contrast visually with the remainder of the tread and riser.'

ADM 2004: 'All nosings are made apparent by means of a permanently contrasting material 55mm wide on both the tread and the riser.'

Colour, Contrast & Perception (Project Rainbow): 'The nosing of every flight of stairs should be adequately colour or luminance contrasted with the remainder of the step and the floor coverings adjacent to the top and bottom of the flight.'



Stair Edging

Skirtings

Gradus skirtings can help define where the floor ends and the wall begins whilst providing a neat, attractive join between the wall and the floor. The wide choice of colours and materials available provides a solution for every environment from healthcare through to commercial office.

BS8300:2009+A1:2010: 'To avoid giving the wrong impression about the size of a room, skirtings should have the same LRV as the wall so that the junction between the skirting and the floor marks the extent of the room.'

Colour, Contrast & Perception (Project Rainbow): 'Skirting should be either decorated the same colour as the wall, the same colour as the floor or, if different to one or the other or both, must be decorated in a colour which highlights even further the junction.'

Best practise is considered to be to match the skirting to the wall or floor if height is 150mm or less. If the skirting is over 150mm in height it should match the wall to ensure that the room does not appear larger than it actually is.



Skirting

Tactile Warning Tile

Tread Alert is a rubber tile with raised ribs that act as a tactile warning surface for visually impaired people to meet the criteria for tactile surfaces stipulated in the DTLR publication 'Guidance on the use of tactile paving surfaces'

BS8300:2009+A1:2010: 'To give advance warning of a step, tactile paving with a corduroy hazard warning surface should be provided at the top and bottom of each flight. Where the approach to the stair is wider than the flight, the tactile surface should extend beyond the line of each edge of the flight.'

Colour, Contrast & Perception (Project Rainbow): 'Colour or luminance contrast of tactile warning floor coverings at the top and bottom of each flight (of stairs) will also assist in the identification of an imminent potential hazard.'



Tread Alert

What the colour & contrast guidelines mean for Gradus wall protection & matting:

Wall Protection

Gradus Wall Protection systems provide an essential barrier against damage caused to walls, corners and doors by both pedestrian and wheeled traffic. The comprehensive range of products is available in a wide choice of colours to provide suitable contrast with surrounding surface finishes, aiding access around a building for all uses.

BS8300:2009+A1:2010: 'A handrail should be finished so as to provide visual contrast with the surroundings against which it is seen.'
'Large, repeating patterns that incorporate bold, contrasting colours should not be used for the wall surfaces in parts of the building where visual acuity is critical.'

ADM 2004: 'All door opening furniture contrasts visually with the surface of the door.'

'A handrail should contrast visually with the background against which it is seen, without being highly reflective.'

Colour, Contrast & Perception (Project Rainbow): 'Finger plates and kick plates on doors should be sufficiently different in colour to the door.'

'Handrails should be adequately contrasted with the adjacent wall finish.'



InPro 940 handrail

Barrier Matting

Gradus barrier matting provides an effective barrier against dirt and moisture at entrances, access points and circulation areas in all contract environments. All Gradus matting efficiently removes and retains soil and moisture from pedestrian and wheeled traffic to give superior long term performance and reduce slip accidents.

BS8300:2009+A1:2010: 'The ingress of soil and surface moisture to buildings, or their transfer between adjacent internal areas, should be reduced to the lowest practicable level, e.g. through the use of appropriate entrance flooring systems, conforming to BS 7953.'

'Deep pile carpets and coir matting on the surface of the floor or within a mat well should not be used.'

ADM 2004: 'Floor surface materials within the lobby do not impede the movement of wheelchairs e.g. not coir matting, and changes in floor materials do not create a potential trip hazard.'

'The floor surface helps to remove rainwater from shoes and wheelchairs.'

'Where matwells are provided, the surface of the mat is level with the surface of the adjacent floor finish.'

BS7953:1999: 'The function of the entrance flooring system is to reduce the incidence of slip accidents by reducing the amount of soil and moisture tracked onto hard and resilient floors

... an entrance flooring system should have the following qualities:

- Removal and retention of soil
- Ease of cleaning and maintenance
- Retention of physical characteristics'



Primary barrier matting



Boulevard 6000 secondary barrier carpet

What the colour & contrast guidelines mean for Gradus carpets:

Carpet

Unrivalled in the healthcare and education sectors, Gradus offers an extensive range of premium quality broadloom and impervious backed carpets, specifically designed for these demanding markets, which are available in a broad spectrum of colourways. Gradus also offers a number of ranges with exceptional sustainability credentials.

More recently, a contemporary range of carpet design tiles have been introduced, providing designers with unlimited creativity and installation options, making them ideal for commercial, retail and hospitality environments.

There are a number of colour and contrast design guidelines to assist with specifying a suitable floorcovering in order to achieve an inclusive environment in line with Equality Act 2010:

BS8300:2009+A1:2010: 'Floor patterning that could be mistaken for steps, e.g. stripes, should not be used for floors in corridors.'

'Deep pile carpet should not be used on stair treads.'

'Differences in LRV should be used to assess the degree of visual contrast between surfaces such as floors, walls, doors and ceilings and between key fittings/fixtures and surrounding surfaces. The LRV of a wall should be 30 points different from that of the ceiling and of the floor.'

'Large, repeating patterns that incorporate bold contrasting colours or simulate steps should not be used for any floor surface.'

ADM 2004: 'In order to help people with visual impairment to appreciate the size of a space they have entered, or to find their way around, there should be a visual contrast between the wall and ceiling, and between the wall and floor. Such attention to surface finishes should be coupled with good natural light and artificial lighting design.'

'Floor surface finishes with patterns that could be mistaken for steps or changes in level are avoided.'

Colour, Contrast & Perception (Project Rainbow): 'In general, some critical surfaces may be covered in a subtle pattern or striped finish, but highly contrasting colours in irregular, busy or geometric patterns are very unhelpful and should be avoided. If a pattern is used on a critical surface it is the colour that occupies the largest proportion of the area which is the most important.'



Cityscene carpet tile



Stratus II carpet

Colour Coded LRV Sheets and Additional Information

A sheet has been produced for each of the flooring accessories, wall protection, matting and floorcoverings ranges offered by Gradus, depicting all colours within the range and the light reflectance value (LRV), using the Y value method of measurement, which corresponds to each colour.

Individual sheets are available from Gradus technical support on 01625 428922.

If you would like additional information or advice on LRVs, how they relate to Gradus products or a copy of a test report, contact Gradus technical support on 01625 428922.

How LRVs are measured

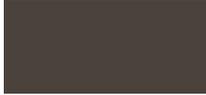
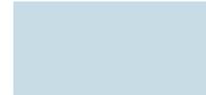
These values have been determined with reference to the CIE Tristimulus Y_{10}^9 Illuminant D65 and the 10° colorimetric observer, in accordance with BS8493:2008. The Y co-ordinate represents lightness and extends from 0 (black) to 100 (white) and has been used as a measure of light reflectance values (LRVs).

Please note: Due to the limitations of the printing process, colours within this leaflet should not be relied upon for colour matching.

An accurate colour match can only be achieved by requesting the relevant product sample(s) from Gradus Technical Support on 01625 428922.

LRVs for stair edgings – channel colours

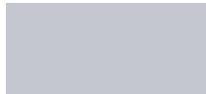
PVC-u hardnose - satin finish (XT profiles)

					
Black 4.99	Brown 7.15	Burgundy 5.89	Buttercup 62.62	Canvas 55.43	Clay 51.53
					
Dove 26.19	Glacier 42.73	Granite 11.69	Ink 5.40	Jade 55.54	Sky 55.38
					
Snowdrift 80.54	Wisp 56.62				

PVC-u hardnose - satin finish (traditional profiles)

					
Black 4.99	Brown 7.15	Burgundy 5.89	Buttercup 62.62	Bluebell 9.76	Canvas 55.43
					
Dove 26.19	Evergreen 6.63	Glacier 42.73	Granite 11.69	Ink 5.40	Linen 37.50
					
Midnight 6.77	Snowdrift 80.54				

PVC-u hardnose - metallic finish

			
Burnt Almond 9.92	Doubloon 22.01	Silver 48.29	Zinc 15.91

Remaining stair edgings channel colours continued on the next page

How LRVs are measured

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LRVs for stair edgings – channel colours continued

Flexible Pvc



Black
4.56



Brown
6.05



Dove
26.99



Granite
12.77



Snowdrift
83.77

Metal finish



Aluminium
67.66



Bronze
63.00



Chrome
49.79

How LRVs are measured

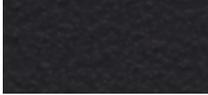
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LRVs for stair edgings – insert colours

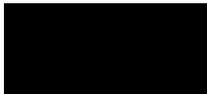
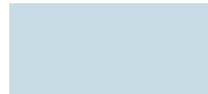
Xtra-grip and Xtra-grip Plus inserts

					
▲ Breeze / ■ Meltwater 51.13	▲ Carbon / ■ Raven 5.01	▲ Deepsea / ■ Navy 5.94	▲ Iceberg / ■ Diamond 81.58	▲ Oat / ■ Bone 50.66	▲ Pampas / ■ Vine 53.04

Metal finish

					KEY ▲ Xtra-grip ■ Xtra-grip Plus
▲ Pebble / ■ Cliff 27.61	▲ Rock / ■ Marl 10.91	▲ Truffle / ■ Conker 7.85	▲ Vapour / ■ Lunar 39.74	▲ Zest / ■ Sulphur 51.11	

Interior insert - standard finish (XT profiles)

					
Burgundy 5.70	Buttercup 55.54	Canvas 53.27	Clay 47.97	Coffee 6.05	Glacier 42.09
					
Ink 4.96	Jade 53.98	Jet 4.56	Lead 12.77	Snowdrift 83.77	Sky 52.63
					
Steel 26.99	Wisp 58.17				

Interior insert - standard finish (Traditional profiles)

					
Burgundy 5.70	Buttercup 55.54	Canvas 53.27	Cloud 28.57	Coffee 6.05	Evergreen 6.69
					
Glacier 42.09	Ink 4.96	Jet 4.56	Lead 12.77	Linen 38.59	Midnight 6.56
					
Ocean 8.00	Photoluminescent 57.59	Poppy 10.39	Snowdrift 83.77	Steel 26.99	

How LRVs are measured

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LRVs for stair edgings – insert colours

Interior insert - grained finish



Black
6.47



Brown
12.13



Dove
23.40



Granite
13.44

Standard exterior insert



Tornado
LRV: 4.49



Sandstorm
LRV: 50.77



Hurricane
LRV: 30.43



Blizzard
LRV: 83.25

Heavy duty exterior insert



Ash
24.77



Avalanche
73.00



Charcoal
4.07



Firestorm
43.96



White
58.38



Black
3.70



Yellow
44.92

How LRVs are measured

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LRVs for tread alert®



Black
5.39



Bluebell
8.58



Canvas
58.08



Dove
28.23



Glacier
43.10



Granite
12.60

How LRVs are measured

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LRV for safety track™



Black
4.58

How LRVs are measured

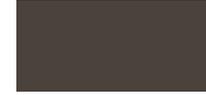
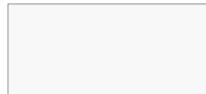
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LRVs for skirtings, capping strips & accessories

Standard

					
Almond 38.00	Azure 9.99	Black 4.62	Bluebell 11.28	Blueberry 22.97	Brown 7.04
					
Dove 26.50	Dune 49.67	Evergreen 6.53	Glacier 40.09	Granite 10.44	Hickory 16.10
					
Leaf 31.58	Mist 58.74	Salmon 50.61	Snowdrift 80.86	Stone 19.73	

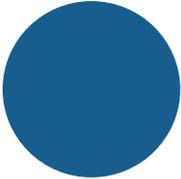
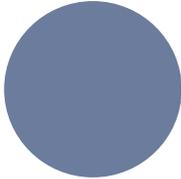
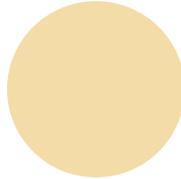
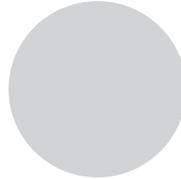
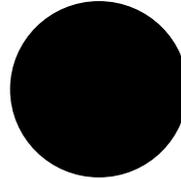
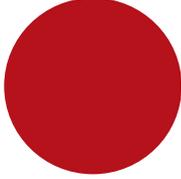
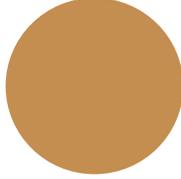
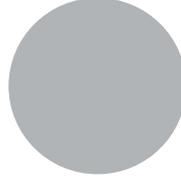
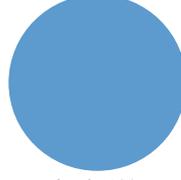
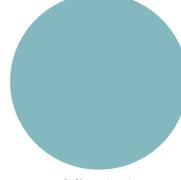
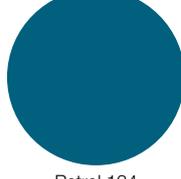
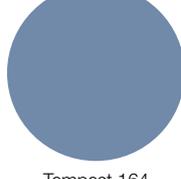
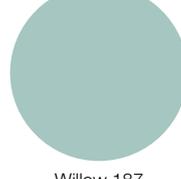
How LRVs are measured

These values have been determined with reference to the CIE Tristimulus Y_{10}^9 Illuminant D65 and the 10° colorimetric observer, in accordance with BS8493:2008. The Y co-ordinate represents lightness and extends from 0 (black) to 100 (white) and has been used as a measure of light reflectance values (LRVs).

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LRVs for InPro colours (including Sanparrel)

					
Admiral 165 10.36	Amethyst 171 17.06	Arctic 101 82.77	Beeswax 249 57.68	Birch 151 50.92	Black 152 5.08
					
Chamomile 232 71.61	Cherry 236 11.56	Cinnamon 235 22.09	Daybreak 115 46.17	Dolphin 106 34.45	Eggshell 111 66.92
					
Flax 113 53.18	Hessian 118 35.79	Lagoon 286 51.05	Lemon 216 70.12	Lupin 132 28.83	Mint 248 38.13
					
Muslin 103 73.39	Papaya 271 46.91	Peach 273 34.81	Petrol 134 12.80	Pewter 107 19.12	Rose 149 14.34
					
Russet 257 15.50	Seaspray 262 53.29	Sherwood 125 18.68	Tempest 164 24.84	Wheat 109 68.95	Willow 187 35.76

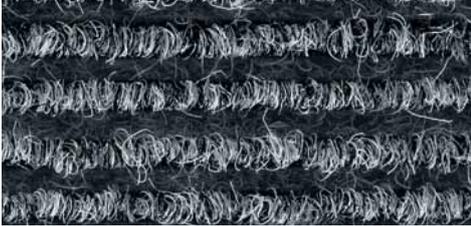
How LRVs are measured

These values have been determined with reference to the CIE Tristimulus Y_{10}^9 Illuminant D65 and the 10° colorimetric observer, in accordance with BS8493:2008. The Y co-ordinate represents lightness and extends from 0 (black) to 100 (white) and has been used as a measure of light reflectance values (LRVs).

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LRVs for Boulevard 1500



Calculus
9.03



Marinus
2.71



Tempestas
2.14



Terra
10.89

How LRVs are measured

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LRVs for Boulevard 5000HD



Corncrake
9.52



Cuckoo
5.63



Jackdaw
1.73



Kestrel
5.42



Moorhen
2.98



Redpoll
4.14



Shelduck
5.20



Swallow
2.08

How LRVs are measured

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LRVs for Boulevard 6000



Atlantic
1.90



Galaxy
2.56



Indigo
4.01



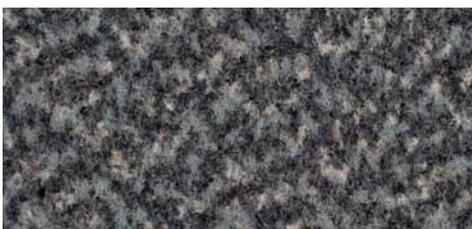
Nickel
3.70



Nightfall
1.48



Rosemary
4.45



Shadow
5.36



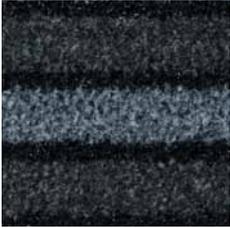
Walnut
2.86

How LRVs are measured

These values have been determined with reference to the CIE Tristimulus Y_{10}^9 Illuminant D65 and the 10° colorimetric observer, in accordance with BS8493:2008. The Y co-ordinate represents lightness and extends from 0 (black) to 100 (white) and has been used as a measure of light reflectance values (LRVs).

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Magpie
LRV 3.85



Raven
LRV 2.48

How LRVs are measured

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Sandstorm 25017
LRV 13.98



Cliff Shadow 25006
LRV 10.81



Nile Brown 25007
LRV 9.03



Blue Mountain 25008
LRV 9.70



Lunar Gray 25003
LRV 9.82



Red Sands 25015
LRV 8.80



Kalahari 25013
LRV 9.28



Seafarer 25012
LRV 10.67



Lost Horizon 25016
LRV 7.42



Gulf Stream 25009
LRV 10.50



Oregon Forest 25010
LRV 7.87



Aquarelle 25011
LRV 10.94

How LRVs are measured

These values have been determined with reference to the CIE Tristimulus Y_{10} Illuminant D65 and the 10° colorimetric observer, in accordance with BS8493:2008. The Y co-ordinate represents lightness and extends from 0 (black) to 100 (white) and has been used as a measure of light reflectance values (LRVs).

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Oatmeal 03807
LRV 16.72



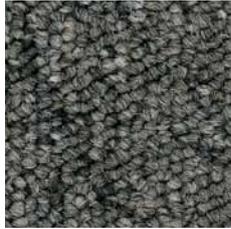
Barley 03816
LRV 15.94



Redwood 03820
LRV 8.34



Brindle 03811
LRV 13.46



Soft Sage 03825
LRV 14.34



Damson 03822
LRV 4.09



Jade 03824
LRV 12.27



Cosmos Blue 03804
LRV 10.49



Anthracite 03808
LRV 9.05



Mermaid 03812
LRV 8.67



Marine Blue 03823
LRV 7.46



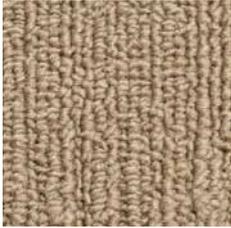
Jet 03827
LRV 2.26

How LRVs are measured

These values have been determined with reference to the CIE Tristimulus $Y_{10,9}$ Illuminant D65 and the 10° colorimetric observer, in accordance with BS8493:2008. The Y co-ordinate represents lightness and extends from 0 (black) to 100 (white) and has been used as a measure of light reflectance values (LRVs).

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Oakthorpe 06701
LRV 17.92



Lindum 06702
LRV 10.62



Ashby 06704
LRV 13.71



Ironstone 06707
LRV 10.02



Braemar 06703
LRV 5.24



Longville 06713
LRV 4.93



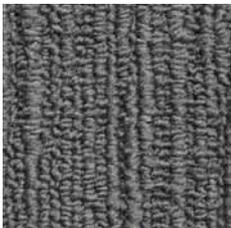
Milldale 06705
LRV 7.06



Thoresby 06706
LRV 4.10



Himley 06709
LRV 3.68



Brunswick 06708
LRV 8.12



Tonbridge 06711
LRV 4.98



Onyx 06714
LRV 2.18



Brecken 06710
LRV 7.06



Holbrook 06712
LRV 3.75

How LRVs are measured

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Caramel 06102
LRV 14.94



Willow 06104
LRV 12.02



Tin 06103
LRV 16.93



Raffia 06101
LRV 18.73



Ice 06105
LRV 11.73



Ocean 06108
LRV 6.26



Shale 06106
LRV 11.22



Granite 06109
LRV 10.83



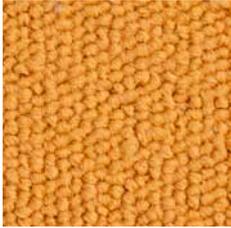
Basalt 06110
LRV 7.49

How LRVs are measured

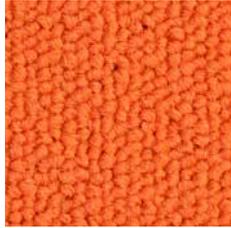
These values have been determined with reference to the CIE Tristimulus Y_{10} Illuminant D65 and the 10° colorimetric observer, in accordance with BS8493:2008. The Y co-ordinate represents lightness and extends from 0 (black) to 100 (white) and has been used as a measure of light reflectance values (LRVs).

Please note: Due to the limitations of the printing process, colours within this leaflet should not be relied upon for colour matching.

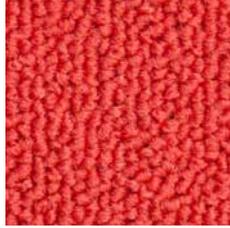
An accurate colour match can only be achieved by requesting the relevant product sample(s) from Gradus Technical Support on 01625 428922.



Gold
 Loop Pile 101 LRV 25.24
 Cut Pile 777 LRV 24.85



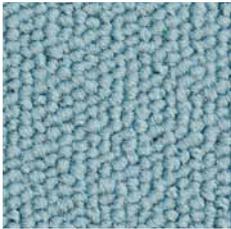
Orange
 Loop Pile 102 LRV 16.36
 Cut Pile 666 LRV 15.31



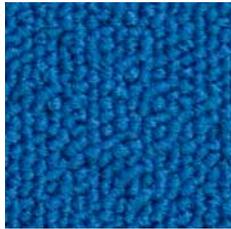
Red
 Loop Pile 103 LRV 7.75
 Cut Pile 555 LRV 7.38



Green
 Loop Pile 104 LRV 18.50
 Cut Pile 444 LRV 18.10



Sky
 Loop Pile 105 LRV 24.46
 Cut Pile 333 LRV 24.77



Blue
 Loop Pile 106 LRV 4.93
 Cut Pile 222 LRV 4.56



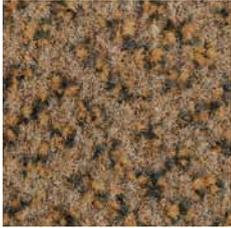
Grey
 Loop Pile 107 LRV 1.50
 Cut Pile 111 LRV 1.30

How LRVs are measured

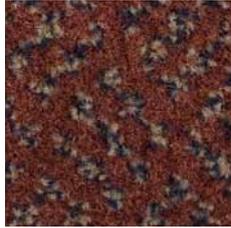
These values have been determined with reference to the CIE Tristimulus Y_{10} Illuminant D65 and the 10° colorimetric observer, in accordance with BS8493:2008. The Y co-ordinate represents lightness and extends from 0 (black) to 100 (white) and has been used as a measure of light reflectance values (LRVs).

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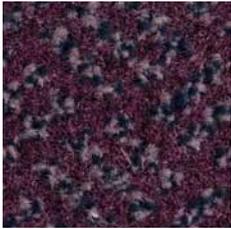
Old Stone 03015
LRV 11.11



Burnt Orange 03023
LRV 4.81



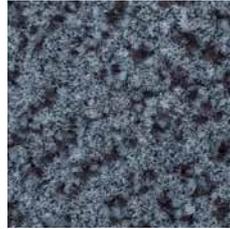
Forest Fern 03026
LRV 3.37



Mulled Wine 03024
LRV 3.73



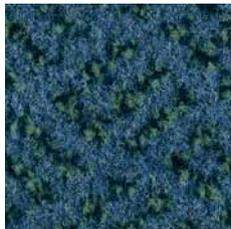
Cherry Red 03018
LRV 5.30



Iron Tonic 03029
LRV 9.42



Indigo Blue 03027
LRV 3.88



Fern Blue 03004
LRV 7.42



Carbon Haze 03030
LRV 5.87



Thunder Cloud 03008
LRV 3.93



Sea Breeze 03013
LRV 5.66



Black Pepper 03021
LRV 2.51

How LRVs are measured

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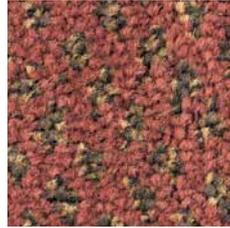
An accurate colour match can only be achieved by requesting the relevant product sample(s) from Gradus Technical Support on 01625 428922.



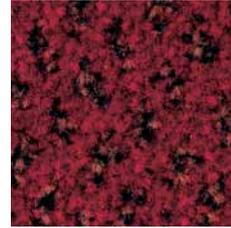
Cornfield 00225
LRV 17.44



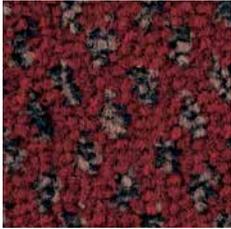
Beachwood 00245
LRV 11.76



Mexicana 00227
LRV 7.91



Rich Red 00220
LRV 4.45



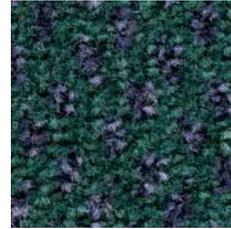
Ancient Ruby 00235
LRV 3.65



Cool Lime 00241
LRV 13.70



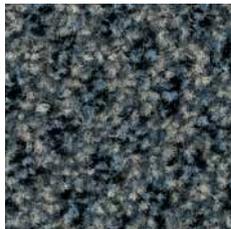
Olive 00242
LRV 7.22



Thistle 00215
LRV 6.53



Evergreen 00243
LRV 4.73



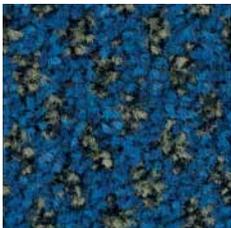
Black Forest 00209
LRV 12.15



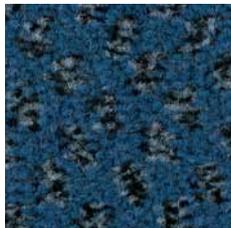
Graphite Storm 00239
LRV 5.43



Saturn 00244
LRV 5.15



Simply Sapphire 00238
LRV 5.06



Winter Fjord 00216
LRV 5.46



Midnight Mauve 00223
LRV 3.98



Lagoon 00240
LRV 3.58

How LRVs are measured

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Ciron 06801
LRV 11.13



Maine 06804
LRV 11.72



Loire 06807
LRV 7.49



Bordeaux 06802
LRV 6.58



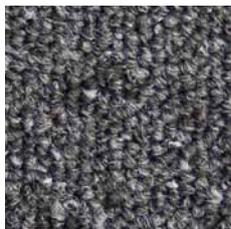
Rouen 06805
LRV 9.61



Tarn 06808
LRV 6.50



Marseille 06803
LRV 7.44



Belfort 06806
LRV 5.92



Sevran 06809
LRV 6.34

How LRVs are measured

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Toulouse 06810
LRV 7.94



Maronne 06811
LRV 8.63



Lyon 06812
LRV 8.88

How LRVs are measured

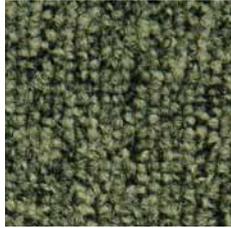
These values have been determined with reference to the CIE Tristimulus Y_{10} Illuminant D65 and the 10° colorimetric observer, in accordance with BS8493:2008. The Y co-ordinate represents lightness and extends from 0 (black) to 100 (white) and has been used as a measure of light reflectance values (LRVs).

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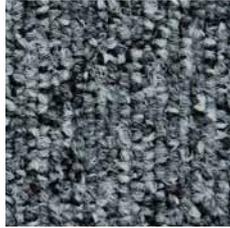
LRVs Lafite Connect - Plains



LC1
LRV 14.24



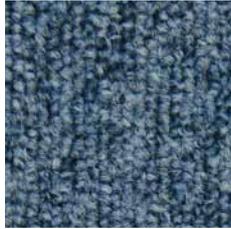
LC5
LRV 10.99



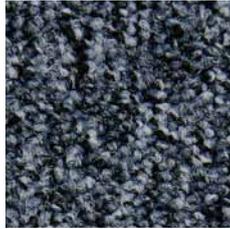
LC9
LRV 13.72



LC2
LRV 6.36



LC6
LRV 12.45



LC10
LRV 9.26



LC3
LRV 5.59



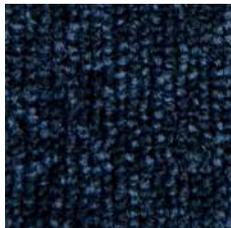
LC7
LRV 7.49



LC11
LRV 7.20



LC4
LRV 4.20



LC8
LRV 5.57



LC12
LRV 3.55

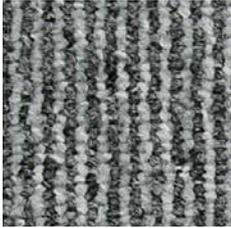
How LRVs are measured

These values have been determined with reference to the CIE Tristimulus $Y_{10,9}$ Illuminant D65 and the 10° colorimetric observer, in accordance with BS8493:2008. The Y co-ordinate represents lightness and extends from 0 (black) to 100 (white) and has been used as a measure of light reflectance values (LRVs).

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LRVs Lafite Connect - Stripes



LCS13
LRV 15.49



LCS15
LRV 13.70



LCS17
LRV 9.19



LCS19
LRV 7.55



LCS14
LRV 6.96



LCS16
LRV 8.48



LCS18
LRV 8.16



LCS20
LRV 5.19

LRVs Lafite Connect - Space



LCSPACE28
LRV 10.24



LCSPACE29
LRV 7.84



LCSPACE30
LRV 8.36



LCSPACE31
LRV 3.90

How LRVs are measured

These values have been determined with reference to the CIE Tristimulus Y_{10} Illuminant D65 and the 10° colorimetric observer, in accordance with BS8493:2008. The Y co-ordinate represents lightness and extends from 0 (black) to 100 (white) and has been used as a measure of light reflectance values (LRVs).

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Ravenstone 03422
LRV 13.36



Glandford 03405
LRV 6.92



Wyre 03402
LRV 9.49



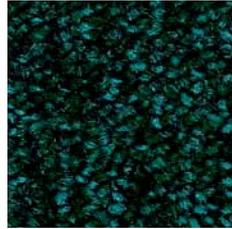
Cheviot 03401
LRV 5.19



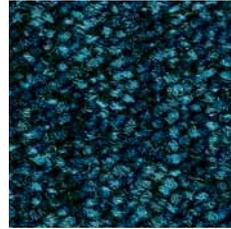
Cannock 03408
LRV 11.31



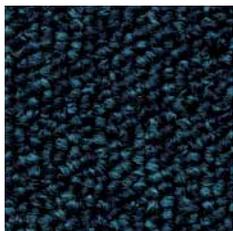
Matterhorn 03423
LRV 7.34



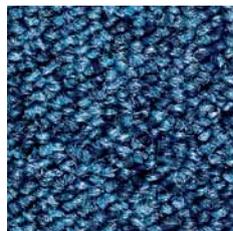
Glenavon 03417
LRV 2.45



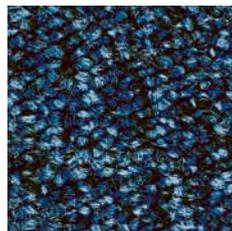
Niagara 03416
LRV 6.32



Scafell 03415
LRV 4.54



Derwent 03418
LRV 10.93



Coniston 03420
LRV 7.04



Langdale 03411
LRV 10.92



Wansdyke 03410
LRV 4.89



Torridon 03419
LRV 9.11



Howden 03421
LRV 10.37



Arfon 03404
LRV 8.74



Dovedale 03406
LRV 7.24



Cairngorm 03414
LRV 3.98

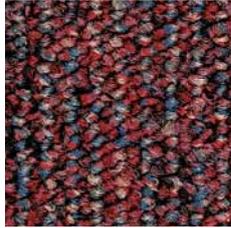
How LRVs are measured

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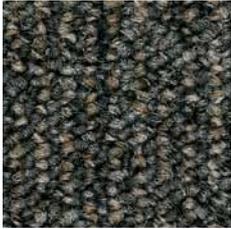
Pebbles 06002
LRV 7.62



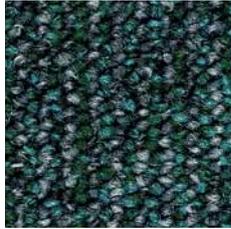
Talmine 06010
LRV 3.26



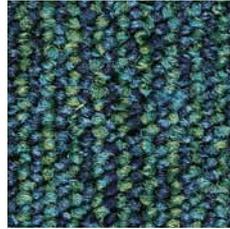
Wetheral 06008
LRV 3.62



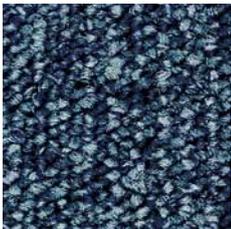
Morden 06003
LRV 7.59



Ulverston 06001
LRV 3.34



Grasmere 06006
LRV 8.08



Stanage 06009
LRV 4.72



Rivelin 06007
LRV 4.46



Staffin 06004
LRV 3.67



Alston 06005
LRV 6.45

How LRVs are measured

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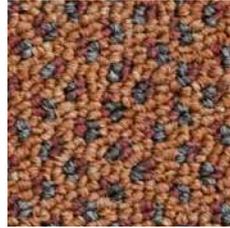
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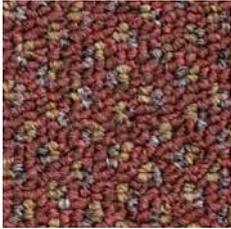
Sand 06301
LRV 12.63



Beach 06302
LRV 9.30



Starfish 06303
LRV 11.02



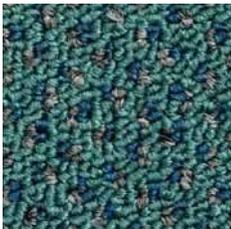
Coral 06304
LRV 7.41



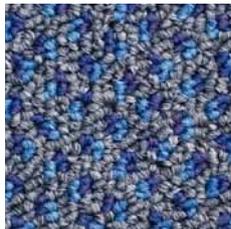
Anemone 06307
LRV 6.13



Kelp 06305
LRV 5.47



Seaweed 06312
LRV 7.41



Surf 06311
LRV 9.13



Dolphin 06318
LRV 9.23



Turtle 06314
LRV 5.28



Ocean 06309
LRV 6.56



Urchin 06319
LRV 5.34

How LRVs are measured

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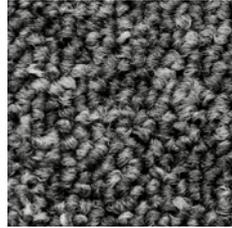
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Merlin 03310
LRV 16.00



Hawk 03316
LRV 12.73



Lynx 03322
LRV 10.00



Barracuda 03305
LRV 9.84



Mantis 03302
LRV 9.50



Python 03307
LRV 8.17



Puma 03301
LRV 8.07



Wolf 03323
LRV 7.90



Fox 03306
LRV 7.20



Orca 03303
LRV 6.06



Panther 03314
LRV 5.28



Piranha 03320
LRV 5.11



Osprey 03324
LRV 4.64

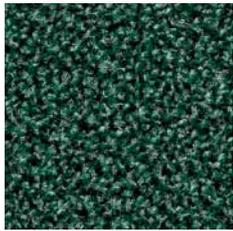


Stingray 03308
LRV 6.95

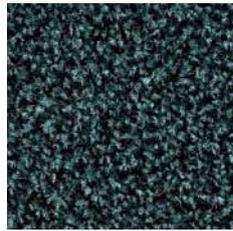
How LRVs are measured

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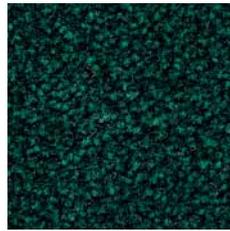
Please note: Due to the limitations of the printing process, colours within this leaflet should not be relied upon for colour matching. An accurate colour match can only be achieved by requesting the relevant product sample(s) from Gradus Technical Support on 01625 428922.



Archway 01309
LRV 6.14



Queensway 01302
LRV 5.88



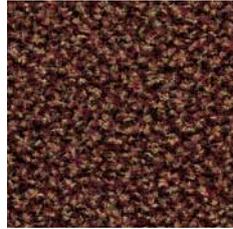
Blackfriars 01308
LRV 2.13



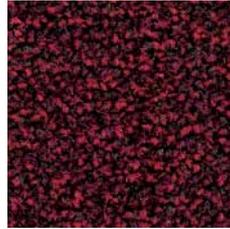
Waterloo 01311
LRV 11.43



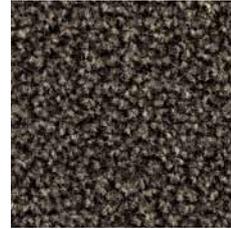
Cornhill 01322
LRV 11.29



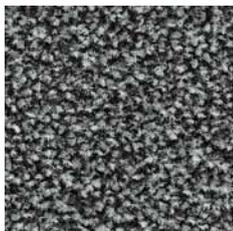
Monument 01318
LRV 6.12



Islington 01326
LRV 2.71



Bank 01313
LRV 9.02



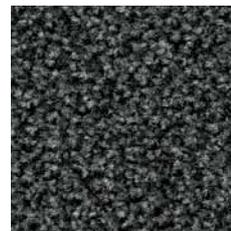
Euston 01314
LRV 9.12



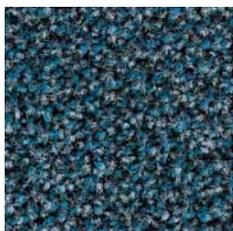
Ladbroke 01301
LRV 8.09



Holborn 01327
LRV 3.73



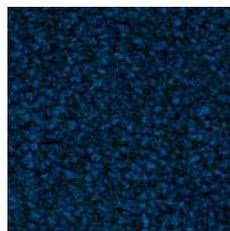
Westminster 01315
LRV 5.61



Highgate 01303
LRV 8.04



Fairlop 01304
LRV 2.87



Becontree 01305
LRV 1.50



Farringdon 01310
LRV 1.80

How LRVs are measured

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Blizzard 06508
LRV 19.63



Avalanche 06509
LRV 16.27



Arctic Mist 06512
LRV 13.94



Sunset 06511
LRV 13.07



Firestorm 06510
LRV 7.96



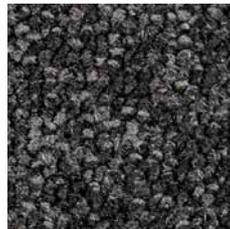
Typhoon 06502
LRV 8.73



Rainfall 06503
LRV 11.47



Storm Surge 06504
LRV 6.16



Jet Stream 06506
LRV 3.56



Ocean Tide 06507
LRV 7.50



Solar Blue 06513
LRV 3.71



Blue Ridge 06505
LRV 3.96



Ice Storm 06514
LRV 11.22



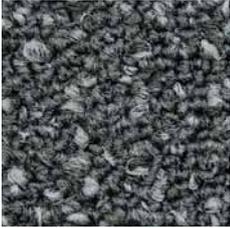
Valley Breeze 06501
LRV 9.45

How LRVs are measured

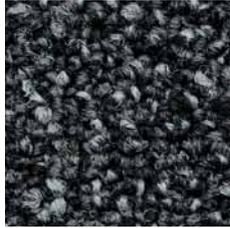
These values have been determined with reference to the CIE Tristimulus Y₁₀ Illuminant D65 and the 10° colorimetric observer, in accordance with BS8493:2008. The Y co-ordinate represents lightness and extends from 0 (black) to 100 (white) and has been used as a measure of light reflectance values (LRVs).

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Flint 772
LRV 7.08



Iron 773
LRV 5.34



Coal 778
LRV 1.95



Slate 754
LRV 8.12

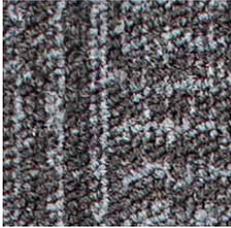


Clay 790
LRV 14.42

How LRVs are measured

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Light Grey 07700
LRV 9.25



Grey 06601
LRV 3.95



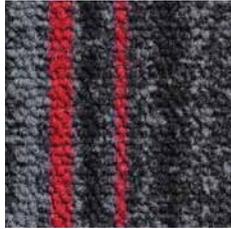
Natural 06602
LRV 4.12



Yellow 06603
LRV 4.27



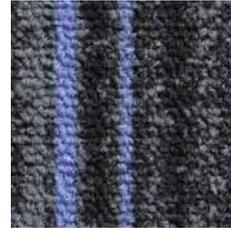
Orange 06604
LRV 4.01



Red 06605
LRV 3.72



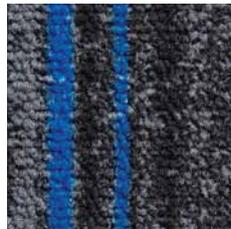
Lime 06606
LRV 4.22



Lilac 06607
LRV 4.18



Light Blue 06608
LRV 4.29



Electric Blue 06609
LRV 4.48

How LRVs are measured

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Yorkville 06909
LRV 8.76



Brookdale 06901
LRV 26.32



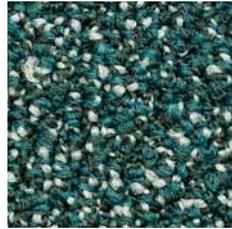
Broadway 06902
LRV 18.27



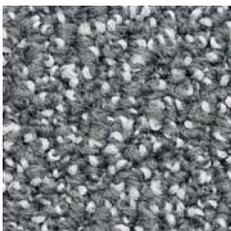
Midtown 06910
LRV 4.06



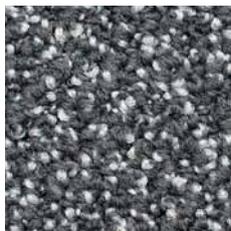
Bowery 06905
LRV 7.04



Hamilton 06911
LRV 5.40



Harlem 06903
LRV 12.14



Hudson 06906
LRV 7.45



Waterside 06912
LRV 9.39



Lincoln 06907
LRV 4.97



Bronx 06908
LRV 4.17



Riverdale 06904
LRV 5.41

How LRVs are measured

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Tribeca 06914
LRV 11.68



Ansonia 06913
LRV 14.41



Gramercy 06915
LRV 8.19



Nolta 06916
LRV 6.13

How LRVs are measured

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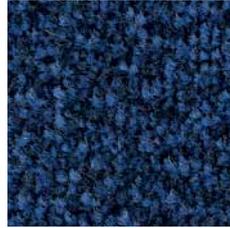
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Natural Straw 00318
LRV 21.68



Camouflage 00314
LRV 5.26



Azurite Blue 00322
LRV 2.84



Charcoal 00324
LRV 2.75

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