

Luminance Contrast Report

Product: Carpex Broadloom Ribbed Stair Nosing
Product Code: SN-CARBL - Various
Address: 8a Lara Way, Campbellfield VIC 3061
Testing Date: 29/09/2022

We have determined the luminance contrast of the following sample. These test results and report should be used as a good guidance only with the test method specified in the standards AS/NZS 1428.1.2009 Appendix B3.

Product

Product Name: Carpex Broadloom Ribbed Stair Nosing

Product Description:
 Aluminium Stair Nosing to Suit Broadloom Carpet with Ribbed Vinyl Insert



Test Results

Overall view of test results per colour - Please see table of results on next page

Colour	Dry LRV Average	Wet LRV Average
Black	2.748	2.622
Grey	17.494	47.428
Yellow	44.553	44.211



Table of LRV Results

Dry Measurements

Wet Measurements

Dry Measurements

Wet Measurements

Colour	Black
2.732	2.712
2.726	2.739
2.695	2.76
2.664	2.694
2.597	2.595
2.633	2.722
3.672	2.659
2.641	2.82
2.67	2.81
2.675	2.739

Mean Dry LRV 2.748

2.642	2.761
2.597	2.565
2.549	2.504
2.546	2.668
2.587	2.59
2.757	2.734
2.609	2.601
2.669	2.627
2.6	2.546
2.631	2.662

Mean Wet LRV 2.622

Colour	Grey
17.787	17.462
17.833	17.217
17.175	17.213
17.158	17.112
17.045	17.614
17.227	17.953
17.796	17.879
17.838	17.21
17.974	17.289
17.972	17.124

Mean Dry LRV 17.494

17.771	17.823
17.82	17.761
17.47	17.762
17.421	17.686
17.082	17.118
17.117	17.054
17.189	17.005
17.036	17.007
17.379	17.623
17.645	17.795

Mean Wet LRV 17.428

Colour	Yellow
44.499	44.355
44.77	44.528
44.532	44.495
44.473	44.474
44.839	44.577
44.78	44.485
44.468	44.733
44.251	44.469
44.484	44.443
44.868	44.534

Mean Dry LRV 44.553

44.561	44.28
44.586	44.212
44.146	44.05
44.131	44.249
44.124	44.139
44.068	44.173
44.472	43.959
44.214	44.203
44.2	44.084
44.263	44.102

Mean Wet LRV 44.211



Term	Definition
Luminance contrast	The light reflected from one surface or component, compared to the light reflected from another surface or component.
LRV	Luminance reflective value
Bowman-Sapolinski equation	To determine the luminance contrast between the samples tested, the LRVs are entered into the Bowman-Sapolinski equation: $C = 125 (Y2 - Y1)/(Y1 + Y2 + 25)$, where: C = luminance contrast Y1 and Y2 = LRV of each surface
TGSI	Tactile Ground Surface Indicator
Integrated TGSI	Tactile ground surface indicators that are in a defined pattern and which are of the same luminance and material as the base surface.
Discrete TGSI	Individually installed TGSIs, which provide the same luminance for the sloping sides and upper surface of the truncated cone.
Composite Discrete TGSI	Tactile ground surface indicators that are individually installed and which provide a differing luminance for the sloping sides and upper surface of the truncated cone.
Stair Nosing	A strip not less than 50 mm and not more than 75 mm deep across the full width of the path of travel.

Laboratory Testing Equipment

Sterling Supplies uses compliant testing apparatus meeting AS/NZS 1428.1.2009 Appendix B3.2 requirements:

- Model: Konica Minolta CR-400 Tristimulus Colorimeter
- Illuminating and viewing system: Diffuse illumination/0<° (d/0) viewing angle, specular component included.
- Light source: Pulsed xenon lamp
- Minimum measurement interval: 3 seconds
- Measurement / illumination area - 8mm Diameter
- Illuminant used: CIE Standard Illuminant D65

Testing Methodology

The following is a summary of the testing methodology, conducted in accordance with requirements of AS/NZS 1428.1.2009, Appendix B3.3:

- The apparatus was calibrated in accordance with the manufacturer’s instructions.
- The tristimulus value ‘Y’ (LRV measurements) were taken of the surface in random locations in dry & wet conditions.
- 20 measurements were taken. See table of results.
- Surface area was swept with a rag to remove dust particles and soiling
- Wet Measurements were determined after 5 minutes of water ponding on the surface.

