Luminance Contrast Report

Product: Carpex Corrugated Stair Nosing
Product Code: SN-CAC - Various
Address: 12 Thrikell St, Cooee TAS 7320
Testing Date: 20/10/2022

As requested, we have determined the luminance contrast of the sample provided. These test results and report should be used as a good guidance only with the test method specified in the standards AS/NZS 1428.4.1.2009 Paragraph E3, Appendix E.

Product

Product Name: Carpex Corrugated Stair Nosing

Product Description:
Aluminium Stair Nosing with Aluminium Corrugated Insert - To suit 5mm Carpet Tiles

*Black only pictured

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	3.700	3.640
Clear	48.986	48.947
Gold	32.524	32.527

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Table of LRV Results

Dry Measurements		Wet Measurements		Dry Measurements		Wet Measurements	
Colour	Black			**Colour**	Clear		
3.728	3.701	3.797	3.706	49.13	48.956	48.99	49.016
3.684	3.707	3.765	3.738	49.074	48.877	48.933	48.973
3.663	3.705	3.681	3.518	49.074	49.05	48.463	48.898
3.656	3.702	3.628	3.581	49.074	49.174	48.913	48.765
3.692	3.692	3.577	3.678	49.048	48.892	48.801	49.125
3.703	3.704	3.598	3.571	49.025	49.136	48.991	48.891
3.717	3.7	3.64	3.667	48.91	49.051	48.9	48.882
3.688	3.71	3.618	3.67	48.99	49.137	48.988	49.361
3.686	3.692	3.567	3.455	48.985	49.099	48.696	49.503
3.704	3.703	3.72	3.616	49.057	49.144	49.018	48.831
Mean Dry LRV	3.70	Mean Wet LRV	3.640	Mean Dry LRV	48.986	Mean Wet LRV	48.947
Colour	Brass						
32.652	32.625	32.418	32.72				
32.742	32.577	32.608	32.233				
32.626	32.534	33.004	32.677				
32.291	32.511	32.632	32.412				
32.549	32.354	32.527	32.543				
32.633	32.332	32.759	32.78				
32.451	32.703	32.196	32.759				
32.676	32.678	32.277	32.59				
32.382	32.445	32.765	32.408				
32.419	32.301	32.117	32.123				
Mean Dry LRV	32.524	Mean Wet LRV	32.527				

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.

Onsite Laboratory Testing Equipment

Sterling Supplies uses compliant testing apparatus meeting AS/NZS 1428.4.1 Appendix E requirements:

- Model: Konica Minolta CR-400 tristimulus colorimeter
- Illuminating and viewing system: Diffuse illumination/0<° (d/0) viewing angle, specular component included.
- Conforms to JIS Z 8722 condition c standard
- Light source: Pulsed xenon lamp
- Measurement time: 1 second
- Minimum measurement interval: 3 seconds
- Measurement / illumination area; ⌀ 8mm
- Observer: 2° Closely matches CIE 1931 Standard Observer
- Illuminant used: CIE Standard Illuminant D65
- Colour space and colorimetric data: CIE for Yxy

Testing Methodology

The following is a summary of the testing methodology, conducted in accordance with requirements of AS 1428.4.1, Clause E3.3:

- The apparatus was firstly 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 prior to testing
- Wet Measurements were determined after 5 minutes of water ponding on the surface.