Luminance Contrast Report

Product: Transola Stair Nosing
Product Code: SN-TR - Various
Address: 8a Lara Way, Campbellfield VIC 3061
Testing Date: 29/09/2022

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: Transola Stair Nosing

Product Description:
Fibreglass Stair Nosing with Carborundum Coating. Either 10mm or 30mm turn down at front.

*Only Black 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	3.580	1.410
Yellow	34.024	33.761

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Table of LRV Results

Dry Measurements		Wet Measurements		Dry Measurements		Wet Measurements	
Colour	Black			**Colour**	Yellow		
3.622	3.307	1.462	1.417	34.184	34.249	33.395	33.801
3.582	3.821	1.434	1.292	34.713	34.352	33.468	34.046
3.481	3.428	1.466	1.354	34.011	33.801	33.539	33.776
3.627	3.688	1.471	1.429	33.892	34.297	33.21	33.349
3.4	3.712	1.506	1.209	33.496	34.262	32.702	34.344
3.481	3.577	1.43	1.422	34.042	34.185	33.762	33.619
3.671	3.688	1.523	1.302	32.342	33.956	33.975	33.925
3.42	3.407	1.5	1.458	33.882	34.953	33.925	34.459
3.63	3.577	1.437	1.273	33.88	33.858	33.659	34.265
3.66	3.879	1.363	1.454	34.328	33.795	34.122	33.872
Mean Dry LRV	3.58	Mean Wet LRV	1.410	Mean Dry LRV	34.024	Mean Wet LRV	33.761

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.