

Luminance Contrast Report

Product: Appular Corrugated Stair Nosing

Product Code: SN-APC - 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: Appular Corrugated Stair

Nosing

Product Description:

Aluminium Stair Nosing with Aluminium Corrugated Insert



*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	1.900	1.410
Clear	48.986	48.947
Brass	52.400	55.058





Table of LRV Results

		.							
Dry Measurements			Wet Measurements		Dry Measurements		Wet Measurements		
Colour	Black				Colour	Clear			
1.894	1.91		1.462	1.417	49.13	48.956		48.99	49.016
1.891	1.897		1.434	1.292	49.074	48.877		48.933	48.973
1.887	1.888		1.466	1.354	49.074	49.05		48.463	48.898
1.895	1.905		1.471	1.429	49.074	49.174		48.913	48.765
1.878	1.917		1.506	1.209	49.048	48.892		48.801	49.125
1.876	1.895		1.43	1.422	49.025	49.136		48.991	48.891
1.875	1.936		1.523	1.302	48.91	49.051		48.9	48.882
1.875	1.909		1.5	1.458	48.99	49.137		48.988	49.361
1.878	1.89		1.437	1.273	48.985	49.099		48.696	49.503
1.894	1.927		1.363	1.454	49.057	49.144		49.018	48.831
Mean Dry	4.00		Mean	1 110	Mean Dry	40.006		Mean	40.047
LRV	1.90		Wet LRV	1.410	LRV	48.986		Wet LRV	48.947

Colour	Brass
52.49	52.373
52.23	52.582
52.543	52.394
52.245	52.492
52.317	52.249
52.617	52.43
52.584	52.253
52.809	52.39
52.778	52.462
51.239	52.53
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Mean Dry 52.40 LRV

55.105	55.161
54.762	54.163
54.87	55.087
54.652	55.068
54.408	54.954
54.988	55.736
55.062	55.673
55.002	55.805
55.178	55.254
54.624	55.611
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Mean 55.058 Wet LRV



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	To determine the luminance contrast between the samples tested, the	
equation	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	Tactile ground surface indicators that are individually installed and which	
TGSI	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; Ø 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
- Wet Measurements were determined after 5 minutes of water ponding on the surface.

