Luminance Contrast Report

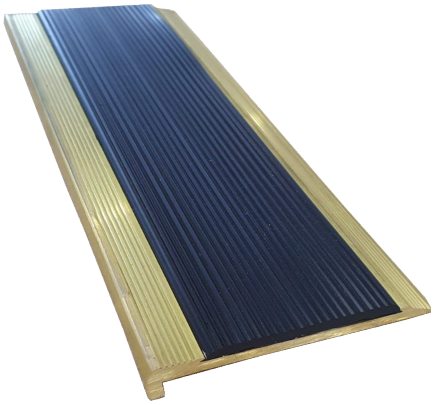
Product: Brass Ribbed Stair Nosing
Product Code: SN-BR10-R/ - Various
Address: 8a Lara Way, Campbellfield VIC 3061
Testing Date: 29/09/2022

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: Brass Ribbed Stair Nosing

Product Description:
Brass Stair Nosing with Ribbed Vinyl 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	2.698	2.622
Grey	17.494	17.428
Yellow	44.567	44.211

Table of LRV Results

Dry Measurements		Wet Measurements		Dry Measurements		Wet Measurements	
Colour	Black			**Colour**	Grey		
2.732	2.712	2.642	2.761	17.787	17.462	17.771	17.823
2.726	2.739	2.597	2.565	17.833	17.217	17.82	17.761
2.695	2.76	2.549	2.504	17.175	17.213	17.47	17.762
2.664	2.694	2.546	2.668	17.158	17.112	17.421	17.686
2.597	2.595	2.587	2.59	17.045	17.614	17.082	17.118
2.633	2.722	2.757	2.734	17.227	17.953	17.117	17.054
2.672	2.659	2.609	2.601	17.796	17.879	17.189	17.005
2.641	2.82	2.669	2.627	17.838	17.21	17.036	17.007
2.67	2.81	2.6	2.546	17.974	17.289	17.379	17.623
2.675	2.739	2.631	2.662	17.972	17.124	17.645	17.795
Mean Dry LRV	2.698	Mean Wet LRV	2.622	Mean Dry LRV	17.494	Mean Wet LRV	17.428
Colour	Yellow						
44.499	44.355	44.561	44.28				
44.77	44.528	44.586	44.212				
44.532	44.495	44.146	44.05				
44.473	44.474	44.131	44.249				
44.839	44.577	44.124	44.139				
44.78	44.485	44.068	44.173				
44.468	44.733	44.472	43.959				
44.251	44.469	44.214	44.203				
44.484	44.443	44.2	44.084				
44.868	44.534	44.263	44.102				
Mean Dry LRV	44.567	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.

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.