

# Luminance Contrast Report

**Product:** Acclimite Corrugated Stair Nosing  
**Product Code:** SN-ACC - 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:** Acclimite 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
<b>Mean Dry LRV</b>	1.90	<b>Mean Wet LRV</b>	1.410	<b>Mean Dry LRV</b>	48.986	<b>Mean Wet LRV</b>	48.947
Colour	Brass						
52.49	52.373	55.105	55.161				
52.23	52.582	54.762	54.163				
52.543	52.394	54.87	55.087				
52.245	52.492	54.652	55.068				
52.317	52.249	54.408	54.954				
52.617	52.43	54.988	55.736				
52.584	52.253	55.062	55.673				
52.809	52.39	55.002	55.805				
52.778	52.462	55.178	55.254				
51.239	52.53	54.624	55.611				
<b>Mean Dry LRV</b>	52.40	<b>Mean Wet LRV</b>	55.058				



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-Sapolski equation	To determine the luminance contrast between the samples tested, the LRVs are entered into the Bowman-Sapolski 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.

