

# Luminance Contrast Report

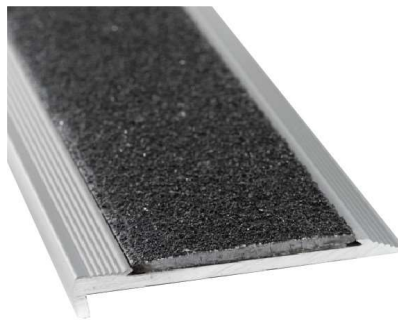
**Product:** Appular Carborundum Heavy Duty Stair Nosing  
**Product Code:** SN-APGHD - Various  
**Address:** 8a Lara Way, Campbellfield VIC 3061  
**Testing Date:** 29/09/2022

We have determined the luminance contrast of the following sample. These test results and report should be used as a good guidance only with the test method specified in the standards AS/NZS 1428.1.2009 Appendix B3.

## Product

**Product Name:** Appular Carborundum Heavy Duty Stair Nosing

**Product Description:**  
 Aluminium Stair Nosing with Fibreglass Carborundum Insert



## 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	5.553	2.859
Yellow	38.240	37.543

## Table of LRV Results

Dry Measurements		Wet Measurements		Dry Measurements		Wet Measurements	
Colour	Black			Colour	Yellow		
4.848	5.085	2.817	2.847	38.308	38.612	37.832	36.892
5.743	5.132	2.806	2.803	38.606	38.592	38.262	35.935
5.706	5.027	2.683	2.889	38.758	38.08	37.94	37.333
5.631	5.591	2.845	2.883	38.672	38.027	37.86	37.55
5.675	5.518	2.913	2.681	38.334	37.514	37.798	37.652
5.573	5.765	2.929	2.794	37.22	38.261	37.871	37.982
5.937	5.992	2.871	2.88	38.185	38.755	38.098	37.495
6.374	5.413	2.889	2.965	38.158	37.65	37.549	37.15
5.712	5.397	2.993	2.858	38.204	38.027	38.157	36.909
5.109	5.838	2.802	3.031	38.445	38.383	36.871	37.72
<b>Mean Dry LRV</b>	<b>5.553</b>	<b>Mean Wet LRV</b>	<b>2.859</b>	<b>Mean Dry LRV</b>	<b>38.240</b>	<b>Mean Wet LRV</b>	<b>37.543</b>



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.

### Laboratory Testing Equipment

Sterling Supplies uses compliant testing apparatus meeting AS/NZS 1428.1.2009 Appendix B3.2 requirements:

- Model: Konica Minolta CR-400 Tristimulus Colorimeter
- Illuminating and viewing system: Diffuse illumination/0<sup>°</sup> (d/0) viewing angle, specular component included.
- Light source: Pulsed xenon lamp
- Minimum measurement interval: 3 seconds
- Measurement / illumination area - 8mm Diameter
- Illuminant used: CIE Standard Illuminant D65

### Testing Methodology

The following is a summary of the testing methodology, conducted in accordance with requirements of AS/NZS 1428.1.2009, Appendix B3.3:

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

