

## Luminance Contrast Report

**Product:** Duratac Stainless Steel Black PVD Coated Tactile  
**Product Code:** TGSi-PVD/BLK  
**Address:** 8a Lara Way, Campbellfield VIC 3061  
**Testing Date:** 28/10/2022

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:** Duratac Stainless Steel Black  
PVD Coated Tactile

**Product Description:**  
 Discrete Hazard Tactile - Stainless Steel  
 Construction with Black PVD Coating



### Test Results

#### Dry Measurements

4.83	5.05
5.02	5.06
5.13	4.98
4.86	4.94
5.06	5.04
4.89	5.04
5.06	5.15
4.75	5.06
4.97	5.07
5.13	5.01

**Mean Dry LRV**  
 5.005

#### Wet Measurements

4.31	4.69
4.41	4.24
4.19	4.66
4.75	4.37
4.43	4.65
4.76	4.79
4.62	4.5
4.44	4.73
4.81	4.63
4.47	4.61

**Mean Wet LRV**  
 4.553



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: $C = 125 (Y_2 - Y_1) / (Y_1 + Y_2 + 25)$ 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° (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.

