

# Luminance Contrast Report

Product:Duratac Stainless Steel Directional Bar TactilesProduct Code:TGSI-DSSAddress:8a Lara Way, Campbellfield VIC 3061Testing Date:16/08/2022

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:**

Duratac Stainless Steel Directional Bar Tactiles

#### **Product Description:**

Discrete Directional Bar Tactiles with stems - Stainless Steel Construction



# **Test Results**

Mea	Dry asurem	ients			et ements	
40.2	27 3	39.58		37.287	38.772	
40.1	93	37.92	Mean Dry LRV	37.059	35	Mean Wet LRV
39.6	63 3	37.39	38.321	38.35	37.684	37.367
39.4	10 3	36.71	50.521	37.87	38.477	57.307
37.1	3 3	37.04		35.932	36.536	
36.9	94 3	37.41		36.147	37.947	
37.1	10 3	38.90		38.934	37.964	
39.2	26 3	37.62		35.76	37.296	
39.7	/2 3	36.62		36.039	38.495	
37.5	56 4	40.03		38.168	37.631	





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 LRVs				
equation	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 testing
- Wet Measurements were determined after 5 minutes of water ponding on the surface.

