

# **Luminance Contrast Report**

**Product: Duratac Stainless Steel Carpet System Tactile** 

TGSI-SSCARP/ - Various **Product Code:** 

Address: 8a Lara Way, Campbellfield VIC 3061

**Testing 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 Carpet** 

System Tactile

#### **Product Description:**

Discrete Hazard Tactile for use on **Broadloom Carpets - Stainless Steel** Construction with Polymer Base



## **Test Results**

### Dry Measurements

46.98	52.84
46.55	48.34
50.94	48.60
53.13	52.90
47.35	46.95
51.08	49.28
50.88	50.48
50.69	52.58
48.08	52.25
51.39	51.43

# Mean Dry LRV

50.136

## Wet Measurements

39.29	45.47
41.48	39.79
40.15	42.94
41.81	44.3
38.77	43.45
41.81	40.66
44.13	40.69
40.44	40.23
43.94	42.51
44.63	40.37

Mean Wet LRV

41.843





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

