

Luminance Contrast Report

Duratac Directional Fastiles Product: Product Code: TGSI-DF3030/ - all Colours

Address: 8a Lara Road, 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 Directional Fastiles

Product Description:

Integrated Directional Tactiles 300mm x 300mm

- Polymer Construction



Test Results

Overall view of test results per colour - Please see table of results on next page

Colour	Dry LRV Average	Wet LRV Average
Beige	38.420	37.959
Black	3.266	3.164
Grey	21.767	3.164
White	83.933	83.456
Yellow	48.95	48.615





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Dry Meas	Dry Measurements Wet Measurements			Dry Measurements			Wet Measurements			
Colour	Beige					Colour	Black			
38.454	38.088	38	3.222	37.974		3.364	3.577		3.08	3.222
38.618	38.827	37	7.319	38.866		3.163	3.24		3.197	3.179
38.866	37.78	38	3.224	37.515		3.35	3.293		2.813	3.393
37.539	37.716	36	5.907	37.836		3.58	3.194		2.941	3.123
37.981	38.988	38	3.223	37.66		3.312	3.325		3.262	3.207
38.973	38.625	37	7.458	38.343		3.328	3.191		3.119	3.244
38.722	38.451	38	3.107	37.485		3.363	3.569		3.151	3.185
38.528	38.653	38	3.257	37.513		3.398	3.32		3.129	3.067
38.945	38.981	38	3.035	38.195		3.505	3.055		3.237	3.382
37.966	37.707	38	3.334	38.708		3.339	3.31		3.283	3.061
Mean Dry	20.42	N	1ean	27.050		Mean Dry	2 266267	-	Mean	2.46275
LRV	38.42	We	et LRV	37.959		LRV	3.266267		Wet LRV	3.16375
Colour	Grey					Colour	White	_		
22.121	21.664	2:	1.767	21.833		83.685	83.634		84.743	84.55
21.843	21.708	2	1.91	21.746		83.417	83.877		83.71	82.673
21.862	21.748	22	2.397	21.4		83.454	83.359		82.623	83.832
21.813	21.74	22	2.568	21.891		84.085	83.916		83.275	83.493
21.899	21.776	22	2.017	22.331		84.511	84.005		83.572	82.551
21.786	21.636	2:	1.334	22.443		83.899	84.291		83.788	83.487
22.364	22.483	2:	1.948	21.555		83.786	84.01		82.999	82.182
21.398	21.538	2:	1.576	20.981		84.538	83.611		83.478	83.181
21.778	21.137	2:	1.955	21.872		83.397	84.854		84.082	83.327
21.606	21.437		1.958	21.336		84.187	84.145		83.443	84.135
Mean Dry	24 76605	N	1ean	24.0400		Mean Dry	02 02205	-	Mean	02.4562
LRV	21.76685	We	et LRV	21.8409		LRV	83.93305		Wet LRV	83.4562
Colour	Yellow									
49.38	48.86		7.955	48.176						
48.99	48.65	48	3.343	48.471						
49.21	48.72	49	9.641	48.757						
49.26	48.95		9.097	49.679						
49.14	48.99		17.7	48.234						
49.04	49.10	4	7.88	48.309						
48.75	48.80	48	3.344	49.671						
48.92	48.71	49	9.416	48.323						
40.20	40.00		COE	40.040						

49.38

48.21

Mean Dry

LRV

48.96

48.91

48.95

48.625

48.231

Mean

Wet LRV

48.648

48.806

48.6153



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			
equation	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	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.

