

Luminance Contrast Report

Product: Appular Ribbed Stair Nosing
Product Code: SN-APR - 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 Ribbed Stair Nosing

Product Description:
 Aluminium Stair Nosing with Ribbed Vinyl Profile



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 | 2.698 | 2.622 |
| Grey | 17.494 | 17.428 |
| Yellow | 44.553 | 44.211 |



Table of LRV Results

| Dry Measurements | | Wet Measurements | | Dry Measurements | | Wet Measurements | |
|------------------|--------|------------------|--------|------------------|--------|------------------|--------|
| Colour | Black | | | Colour | Grey | | |
| 2.732 | 2.712 | 2.642 | 2.761 | 17.787 | 17.462 | 17.771 | 17.823 |
| 2.726 | 2.739 | 2.597 | 2.565 | 17.833 | 17.217 | 17.82 | 17.761 |
| 2.695 | 2.76 | 2.549 | 2.504 | 17.175 | 17.213 | 17.47 | 17.762 |
| 2.664 | 2.694 | 2.546 | 2.668 | 17.158 | 17.112 | 17.421 | 17.686 |
| 2.597 | 2.595 | 2.587 | 2.59 | 17.045 | 17.614 | 17.082 | 17.118 |
| 2.633 | 2.722 | 2.757 | 2.734 | 17.227 | 17.953 | 17.117 | 17.054 |
| 2.672 | 2.659 | 2.609 | 2.601 | 17.796 | 17.879 | 17.189 | 17.005 |
| 2.641 | 2.82 | 2.669 | 2.627 | 17.838 | 17.21 | 17.036 | 17.007 |
| 2.67 | 2.81 | 2.6 | 2.546 | 17.974 | 17.289 | 17.379 | 17.623 |
| 2.675 | 2.739 | 2.631 | 2.662 | 17.972 | 17.124 | 17.645 | 17.795 |
| Mean Dry LRV | 2.698 | Mean Wet LRV | 2.622 | Mean Dry LRV | 17.494 | Mean Wet LRV | 17.428 |
| Colour | Yellow | | | | | | |
| 44.499 | 44.355 | 44.561 | 44.28 | | | | |
| 44.77 | 44.528 | 44.586 | 44.212 | | | | |
| 44.532 | 44.495 | 44.146 | 44.05 | | | | |
| 44.473 | 44.474 | 44.131 | 44.249 | | | | |
| 44.839 | 44.577 | 44.124 | 44.139 | | | | |
| 44.78 | 44.485 | 44.068 | 44.173 | | | | |
| 44.468 | 44.733 | 44.472 | 43.959 | | | | |
| 44.251 | 44.469 | 44.214 | 44.203 | | | | |
| 44.484 | 44.443 | 44.2 | 44.08 | | | | |
| 44.868 | 44.534 | 44.263 | 44.102 | | | | |
| Mean Dry LRV | 44.553 | Mean Wet LRV | 44.211 | | | | |



| 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° (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.

