

MASTER SPECIFICATION

TACTILE GROUND SURFACE INDICATORS

LUMINANCE CONTRAST GUIDANCE

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TGSIs Luminance Contrast Advice

1 General

Architecture & Access has been commissioned to provide a guidance document to inform the installation of (TGSIs) across the Department of Infrastructure projects.

TGSIs are installed to provide guidance and assistance to people who have low vision.

TGSIs are used by people with vision impairment – by detecting them tactually and people with low vision are able to detect the location of TGSIs when there is a luminance contrast between the TGSIs and the adjoining pavement.

This report is to provide guidance on suitable TGSIs to ensure luminance contrast is achieved when installed on different surfaces commonly found in the Department of Infrastructure projects.

2 Design Standards

2.1 Legislative Requirements

2.1.1 The Disability Discrimination Act. (DDA) 1992

The DDA is Commonwealth legislation which was enacted in 1993. It aims to eliminate discrimination against people on the grounds of disability in many areas, including the following:

- Work;
- Accommodation;
- Education;
- The provision of goods and services; and
- Access to premises.

Whilst Section 23 of the DDA stipulates that it is unlawful to discriminate, it does not provide information on how to design, construct or manage buildings in a way that is not discriminatory.

2.1.2 The Disability Standards for Accessible Public Transport (DSAPT) 2002

The Disability Discrimination Act 1992 (DDA) became law in March 1993. In 2002, the Disability Standards for Accessible Public Transport (DSAPT) was released providing a staged time-frame for operators and providers to bring their conveyances, premises and infrastructure in line with the Standards. On 1 May 2011, The Disability (Access to Premises -Buildings) Standards 2010 came into force under the DDA where Part H2 – Public Transport Buildings applies to regular transport buildings as defined in the DSAPT.

The purpose of the *Disability Standards* is to remove discrimination to passengers on the basis of disability from public transport services. The *Disability Standards* provide national requirements that public transport providers and facility operators must meet in order to comply with the *Disability Discrimination Act 1992*.

The *Disability Standards* apply to Conveyances, Premises and Infrastructure.

- *Conveyances* includes the trains used for the transport of passengers (not included within this document as not part of MMRP scope)
- *Premises* are structures, buildings that an operator provides for passenger use as part of a public transport facility. "*Premises to which the standards apply*" means premises to which Part H2 of the Access Code (refer Schedule 1 of the Premises Standards) applies that are either a new

building or an affected part of as building, within the means of the Premises Standards; or an existing public transport building that is still in use under Part 3.1 of the Premises Standards.

- *Infrastructure* is any structure or facility that is used by passengers in conjunction with traveling on a public transport service

We understand that Public Transport buildings and infrastructure are required to meet compliance under the requirements for Disability Standards for Accessible Public Transport 2002 (DSAPT) and the Disability (Access to Premises - Buildings) Standard (DAPS) 2010. Many conflicts exist between the two pieces of legislation due in part to the superseded Australian Standards that are referenced under the DSAPT. Where the DAPS provides greater or better access for people with disabilities, we have recommended that this be considered. In the majority of cases, we have provided advice in accordance with the DAPS that references the latest standard however, where DSAPT provides best practice, this has been our reference guide.

Timing of full compliance with DSAPT

Operators and providers must comply with the specified sections of these standards for premises, infrastructure and conveyances brought into use for public service on and from the date these standards come into effect under Section 31 of the *Disability Discrimination Act 1992*. Compliance with target dates set out in Schedule 1, Parts 1-5 (pages 70-77). For existing transport services and infrastructure, full compliance for infrastructure is to be achieved by 2022.

2.1.3 The Disability (Access to Premises - Buildings) Standard (DAPS) 2010

The DAPS purpose is to define how to provide dignified and equitable access for people with disabilities which meets the intent of the DDA. This provides greater access for people with disabilities as well as greater certainty for building owners and developers that their obligations under the DDA have been met.

Access is required to be provided to all levels of buildings and all facilities and services operating from them, unless to do so would impose an unjustifiable hardship or the purpose of an area is unsuitable for a person with a disability or poses a health and safety risk for that person.

The access code includes a section specific to public transport infrastructure - Part H2 Public Transport Buildings.

2.1.4 National Construction Code/Building Code of Australia (NCC/BCA)

The requirements of the DAPS were included in the National Construction Code/Building Code of Australia (NCC/BCA) in 2011 and apply to all new buildings and those undergoing building works which require a building permit.

2.1.5 Australian Standards for Disability Access

The following reference documents have been used in the preparation of this report:

- *Disability Discrimination Act (DDA) 1992.*
- *Disability Standards for Accessible Public Transport 2002 (DSAPT)- including amendment 2010 (No.1)*
- *Disability (Access to Premises – Buildings) Standards 2010.*
- *National Construction Code / Building Code of Australia (NCC/BCA)*, as it applies to disability access in new buildings or buildings undergoing significant refurbishment or alteration.
- *AS 1428.4 – 1992 Design for access and mobility – Tactile ground surface indicator for the orientation of people with vision impairment.* This standard has been superseded by AS 1428.4.1:2009.

- AS 1428.4.1 – 2009 *Design for access and mobility – Means to assist the orientation of people with vision impairment – Tactile ground surface indicators*, referenced by the NCC Part H2.11 and includes mandatory requirements.

3 Luminance Reflectance Values Testing

Architecture & Access complete luminance contrast testing using an X-Rite SP60 Portable Sphere Spectrophotometer.

The spectrophotometer used for testing by Architecture & Access is an accepted means to measure light reflectance values (LRV) in the process of calculating luminance contrast. It is capable of measuring absolute CIE. The settings of this device is as per AS1428.1 2009 Appendix E and AS1428.1 2009 Appendix B requirements, including Illuminant type/light source: CIE Standard D65 Tungsten; Aperture illuminated/measured: 14mm/8mm & Measurement output: Yxy. Note: The instrument has a d/8 viewing geometry instead of a d/0 geometry as required by Clause AS 1428.4.1:2009 E3.2 Instrumentation (Clause B5.1 in AAS 1428.1:2009).

Calibration is required to be undertaken prior to use and servicing every 2 years. The on-site method of measurement as described by E5 of AS 1428.4.1:2009 and in B5 if AS 1428.1:2009 is carried out under prevailing lighting conditions and the testing instrument is mounted on a tripod. The spectrophotometer used for testing by Architecture & Access is hand-held and therefore on-site testing uses the 'laboratory' method as described in E3 of AS1428.4.1:2009 and B3 of AS 1428.1:2009. It is the opinion of Architecture & Access that the spectrophotometer will provide consistent test conditions and therefore achieve like for like results that can be appropriately used to calculate luminance contrast.

4 Methodology

4.1 TGSIs

Architecture & Access selected a sample of TGSIs that are considered suitable for installation within DIT projects.

We were advised that discrete TGSIs are not used because of the reduced longevity of these products.

On this basis the TGSIs selected include tactile tiles, poly pads and pavers:

- Surface mounted – glued and/ or screwed
- Set into the adjacent surface of the footpath

4.2 Paving Surfaces

Architecture & Access assessed several surfaces commonly found in DIT projects, including asphalt, plain grey concrete and other grey coloured concretes, red bricks, interlocking pavers, granite pavers and bluestone pavers.

4.3 Determination of Luminance Contrast

Luminance contrast is the light reflected from one surface or component, compared to the light reflected from another surface or component.

Many products will have different dry and wet characteristics and separate measurements of luminous reflectance values LRVs were tested for the pavement surfaces.

We have used published LRV values of TG西省 from reputable and known suppliers, generally available for both for wet and dry conditions.

The contrast is determined using the Bowman-Sapolinski equation as outlined in AS1428.4.1:2009 for each condition.

Section E4 sets out the method of using the luminous reflectance values LRVs to determine the luminance contrast of a TGSI between two adjacent or continuous surfaces when the LRVs of the products are known.

4.4 Luminance Contrast Compliance Requirements

The luminance contrast requirement is dictated by the type of TG西省 installed, which are defined in AS1428.4.1:2009, section 1.4 as follows:

- Integrated TG西省: Tactile ground surface indicators that are in a defined pattern and which are of the same luminance and materials as the base surface.
- Discrete TG西省: Tactile ground surface indicators that are individually installed, 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 provide the differing luminance for the sloping sides and upper surface of the truncated cone.

Luminance contrast required for different types of TG西省 are as per section 2.2 AS1428.4.1:2009 as follows:

- Integrated units – 30%
- Discrete units – 45%
- Composite discrete – 60%

5 Results

5.1 LRV and Luminance contrast

Refer to Appendix A – LRV Testing results

Refer to Appendix B – Luminance Contrast Assessment and Report Tool LRV

5.2 Recommendations

The following tables 5.1 – 5.3 luminance contrast obtained when comparing each surface against different options of integrated TG西省 materials and colours.

- Measured as Meeting LRV Contrast requirements. Luminance contrast 30% or greater for both Wet and Dry conditions
- Assessed by Architecture & Access to be within an Acceptable range relative to LRV Contrast requirements. Luminance contrast 29-29.9%
- Measured as Insufficient relative to current LRV Requirements. Luminance contrast of less than 29%

For the purposes of these first assessment, the LRVs used are from the CTA Group published values as they offer a wide range of products and colours.

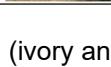
Table 5.1 – Assessment of different surfaces against Precast Paver TGSIs. (LRVs from CTA CobbleTac Range)

SURFACE FINISH		PRODUCT						
		CobbleTac Paver Snow	CobbleTac Paver Ivory	CobbleTac Paver Yellow	CobbleTac Paver Grey	CobbleTac Paver Black	CobbleTac Paver Terracotta	GraniTac Ivory
	Indicative images							
Concrete								
Plain Grey Concrete		●	●	●	●	●	●	●
New Cured concrete		●	●	●	●	●	●	●
Old exp agg Concrete		●	●	●	●	●	●	●
Concrete Coping - Kilkenny Station (SA)		●	●	●	●	●	●	●
Light Grey Coloured Concrete - University Tram Stop North Tce (SA)		●	●	●	●	●	●	●
Asphalt								
Asphalt - mean value		●	●	●	●	●	●	●
Pavers								
Brick Paver - Mitcham bus stop (SA)		●	●	●	●	●	●	●
Brick Paver - Melbourne CBD		●	●	●	●	●	●	●
Red Brick Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)		●	●	●	●	●	●	●
Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)		●	●	●	●	●	●	●
Bluestone Pavers - mean value		●	●	●	●	●	●	●
Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD		●	●	●	●	●	●	●
Interlocking Pavers - Port Rd South Side Bus Stop (SA)		●	●	●	●	●	●	●
Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)		●	●	●	●	●	●	●
Grey Granite Paver - North Tce Tram Stop (SA)		●	●	●	●	●	●	●
Beige Paver - Kilnny Station (SA)		●	●	●	●	●	●	●

Table 5.2 – Assessment of different surfaces against Polyurethane Pads TGSIs. (LRVs from CTA PolyPad Range)

SURFACE FINISH		PRODUCT					
		Polyurethane Ivory	Polyurethane Yellow	Polyurethane Orange	Polyurethane Terracotta	Polyurethane Sky Blue	Polyurethane Black
	Indicative images						
Concrete							
Plain Grey Concrete		●	●	●	●	●	●
New Cured concrete		●	●	●	●	●	●
Old exp agg Concrete		●	●	●	●	●	●
Concrete Coping - Kilkenny Station (SA)		●	●	●	●	●	●
Light Grey Coloured Concrete - University Tram Stop North Tce (SA)		●	●	●	●	●	●
Asphalt							
Asphalt - mean value		●	●	●	●	●	●
Pavers							
Brick Paver - Mitcham bus stop (SA)		●	●	●	●	●	●
Brick Paver - Melbourne CBD		●	●	●	●	●	●
Red Brick Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)		●	●	●	●	●	●
Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)		●	●	●	●	●	●
Bluestone Pavers - mean value		●	●	●	●	●	●
Red granite paver - Bourk & Spring St Tram stop, Melbourne CBD		●	●	●	●	●	●
Interlocking Pavers - Port Rd South Side Bus Stop (SA)		●	●	●	●	●	●
Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)		●	●	●	●	●	●
Grey Granite Paver - North Tce Tram Stop (SA)		●	●	●	●	●	●
Beige Paver - Kilkenny Station (SA)		●	●	●	●	●	●

Table 5.3 – Assessment of different surfaces against porcelain tiles TGSIs. (LRVs from CTA CobbleTac Porcelain Range)

SURFACE FINISH		PRODUCT			
		Porcelain Tile Ivory	Porcelain Tile Yellow	Porcelain Tile Grey	Porcelain Tile Black
	Indicative images				
Concrete					
Plain Grey Concrete		●	●	●	●
New Cured concrete		●	●	●	●
Old exp agg Concrete		●	●	●	●
Concrete Coping - Kilkenny Station (SA)		●	●	●	●
Light Grey Coloured Concrete - University Tram Stop North Tce (SA)		●	●	●	●
Asphalt					
Asphalt - mean value		●	●	●	●
Pavers					
Brick Paver - Mitcham bus stop (SA)		●	●	●	●
Brick Paver - Melbourne CBD		●	●	●	●
Red Brick Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)		●	●	●	●
Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)		●	●	●	●
Bluestone Pavers - mean value		●	●	●	●
Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD		●	●	●	●
Interlocking Pavers - Port Rd South Side Bus Stop (SA)		●	●	●	●
Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)		●	●	●	●
Grey Granite Paver - North Tce Tram Stop (SA)		●	●	●	●
Beige Paver - Kilkenny Station (SA)		●	●	●	●

In general, light coloured TGSIs (ivory and yellow), achieve a compliant luminance contrast with a greater variety of surfaces.

However, there is an important variability in LRVs from different TGSIs suppliers that can affect the luminance contrast percentage and compliance. To show this, a selection of colours (Yellow, White & Ivory) has been assessed for a more detailed comparison. Refer to tables 5.4-5.6.

Table 5.4 Suitability of Yellow Pads and Tiles from a selection of suppliers. (* based on dry LRVs comparison only)

SURFACE FINISH	Indicative images	PRODUCT						
		CTA PolyTile Yellow	CTA PolyPad Yellow	TSA Polyurethane Yellow	* ESP VPC Yellow	* Classic Arch PVC Yellow	DTAC Ultimat (TPU) Yellow	*Pathfinder (Poly) Yellow
Concrete								
Plain Grey Concrete		●	●	●	●	●	●	●
New Cured concrete		●	●	●	●	●	●	●
Old exp agg Concrete		●	●	●	●	●	●	●
Concrete Coping - Kilkenny Station (SA)		●	●	●	●	●	●	●
Light Grey Coloured Concrete - University Tram Stop North Tce (SA)		●	●	●	●	●	●	●
Asphalt								
Asphalt - mean value		●	●	●	●	●	●	●
Pavers								
Brick Paver - Mitcham bus stop (SA)		●	●	●	●	●	●	●
Brick Paver - Melbourne CBD		●	●	●	●	●	●	●
Red Brick Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)		●	●	●	●	●	●	●
Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)		●	●	●	●	●	●	●
Bluestone Pavers - mean value		●	●	●	●	●	●	●
Red granite paver - Bourk & Spring St Tram stop, Melbourne CBD		●	●	●	●	●	●	●
Interlocking Pavers - Port Rd South Side Bus Stop (SA)		●	●	●	●	●	●	●
Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)		●	●	●	●	●	●	●
Grey Granite Paver - North Tce Tram Stop (SA)		●	●	●	●	●	●	●
Beige Paver - Kilkenny Station (SA)		●	●	●	●	●	●	●

Table 5.5 Suitability of White & Ivory Pads and Tiles from a selection of suppliers. (* based on dry LRVs comparison only)

SURFACE FINISH	Indicative images	PRODUCT						
		CTA PolyTile Ivory	CTA PolyPad Ivory	TSA Polyurethane Ivory	* ESP VPC White	* Classic Arch PVC White	DTAC Ultimat (TPU) Ivory	DTAC Ultimat (TPU) White
Concrete								
Plain Grey Concrete		●	●	● (red)	●	●	●	●
New Cured concrete		●	●	● (red)	●	●	●	●
Old exp agg Concrete		●	●	●	●	●	●	●
Concrete Coping - Kilkenny Station (SA)		●	●	●	●	●	●	●
Light Grey Coloured Concrete - University Tram Stop North Tce (SA)		●	●	●	●	●	●	●
Asphalt								
Asphalt - mean value		●	●	●	●	●	●	●
Pavers								
Brick Paver - Mitcham bus stop (SA)		●	●	●	●	●	●	●
Brick Paver - Melbourne CBD		●	●	●	●	●	●	●
Red Brick Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)		●	●	●	●	●	●	●
Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)		●	●	●	●	●	●	●
Bluestone Pavers - mean value		●	●	●	●	●	●	●
Red granite paver - Bourk & Spring St Tram stop, Melbourne CBD		●	●	●	●	●	●	●
Interlocking Pavers - Port Rd South Side Bus Stop (SA)		●	●	●	●	●	●	●
Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)		●	●	●	●	●	●	●
Grey Granite Paver - North Tce Tram Stop (SA)		●	●	●	●	●	●	●
Beige Paver - Kilkenny Station (SA)		●	●	●	●	●	●	●

* LRV in wet conditions not provided by the supplier. For this comparison, it is safe to assume the value to be similar to the LRV in dry condition. A 30% Luminance contrast is expected to be achieved where indicated.

Table 5.6 Suitability of White & Ivory Pavers from a selection of suppliers.

SURFACE FINISH		PRODUCT				
	Indicative images	CTA CobbleTac Paver Snow	CTA CobbleTac Paver Ivory	CTA CobbleTac Paver Granitac	TSA Precast Paver Ivory	TSA Precast Paver White
Concrete						
Plain Grey Concrete		●	●	● (Red)	●	●
New Cured concrete		●	●	● (Red)	●	●
Old exp agg Concrete		●	●	●	●	●
Concrete Coping - Kilkenny Station (SA)		●	●	●	●	●
Light Grey Coloured Concrete - University Tram Stop North Tce (SA)		●	●	●	●	●
Asphalt						
Asphalt - main value		●	●	●	●	●
Pavers						
Brick Paver - Mitcham bus stop (SA)		●	●	●	●	●
Brick Paver - Melbourne CBD		●	●	●	●	●
Red Brick Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)		●	●	●	●	●
Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)		●	●	●	●	●
Bluestone Pavers - mean value		●	●	●	●	●
Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD		●	●	●	●	●
Interlocking Pavers - Port Rd South Side Bus Stop (SA)		●	●	●	●	●
Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)		●	●	●	●	●
Grey Granite Paver - North Tce Tram Stop (SA)		●	●	●	●	●
Beige Paver - Kilnny Station (SA)		●	●	● (Red)	●	●

5.3 Summary

From the above the following recommendations are provided:

- Colour with high LRV will achieve compliance with the most used surface finishes currently observed in DIT projects. These are: Yellow, White/Snow and Ivory.
- TGSIs with lower LRVs, such as Terracotta and Black failed to achieve the required luminance contrast.
- Concrete surfaces will have a wide range of LRV depending on the age of the concrete, aggregates exposed, pigments used, etc. The White and Ivory TGSIs, either surface mounted (polyurethane, PVC, etc) or cast in (Porcelain tiles and Pavers), may comply in most cases, for plain grey, and exposed aggregate and coloured concretes.

- Yellow TGSI provide a compliant luminance contrast percentage against all pavers and asphalt surfaces, however, it may not achieve a compliant contrast on concrete surfaces, unless a darker coloured concrete is used.
- White/Ivory coloured granite TGSI pavers, can be suitable in lieu of precast pavers but it may not achieve compliance with plain grey concrete, especially when concrete is new.
- Other stone TGSI pavers, such as VersaTac from Eigenstone were not included in the comparison, as they are considered compliant with the dome achieving 45% luminance contrast with the paver/tile. These can be used in most of the surfaces.

6 Durability Considerations

There is a great variability in the life expectancy of the TGSI, depending on the materials and the quality of the installation.

Individual studs (polyurethane) can be damaged more quickly when used in very high traffic areas and where cars can drive over the TGSI.



Photo: Melbourne CBD Elizabeth St and Bourke St Tram stop

Polyurethane pads can have the edges peeled off and broken. Correct installation is critical to ensure durability in high traffic areas or where cars can drive over the TGSI. A pad that can be glued and mechanically fixed may provide better durability. Some suppliers may provide "heavy duty" options.

Ceramic tiles may crack when installed in flexible paving surfaces, shortening its life expectancy.



Photo: Pram crossing, Parkville

Stone pavers offer great durability in high traffic areas, however over time the domes may present some wearing.



Photo: Melbourne CBD, Bourke St. Tram Stop.

Some discolouration is expected over time, this may affect the luminance contrast with the surrounding surface. Maintenance can help slowing down these changes.



Photo: Melbourne CBD, Bourke St/Spring St. Tram Stop.

7 Disclaimers

LRV provided by suppliers to Architecture & Access or published online in the supplier's website.

The products in this report shall not be considered as the only suitable product.

Other products not represented in this document may achieve similar results as the products within this report and should not be ignored when selecting TGSIs for individual projects.

All recommendations are considered suitable for the surfaces tested and currently existing in some DIT projects. Different surfaces to be used in new projects will need to be individually tested and assessed for compliance.

APPENDIX A – LRV Results

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

INDIVIDUAL SAMPLE LRV TESTING RESULTS

Instrumentation: X-Rite SP60 Portable Sphere Spectrophotometer

The spectrophotometer used for testing by Architecture & Access is an accepted means to measure light reflectance value (LRV) in the process of calculating luminance contrast. It is capable of measuring absolute CIE. The geometry settings of this device is as per AS1428.1 2009 Appendix B requirements including Illuminant type/light source: CIE Standard D65 Tungsten; Aperture illuminated/measured: 14mm/8mm & Measurement output: Yxy. Calibration is completed every 24 hours and servicing every 2 years. Given this device is portable, 'laboratory' testing can also be conducted on site. It is the opinion of A&A that the spectrophotometer will provide consistent test conditions and therefore achieve like for like results that can be appropriately used to calculate luminance contrast.

Sample No.	Sample Description	Condition(s)	Mean LRV
1	Plain Grey Concrete - mean value	Dry	28.47
2	Plain Grey Concrete - mean value	Wet	15.32
3	New Cured concrete - mean value	Dry	33.02
4	New Cured concrete - mean value	Wet	18.73
5	Old exp agg Concrete	Dry	11.51
6	Old exp agg Concrete	Wet	7.22
7	Concrete Coping - Kilkenny Station (SA)	Dry	20.47
8	Concrete Coping - Kilkenny Station (SA)	Wet	10.07
9	Light Grey Concrete - University Tram Stop North Tce (SA)	Dry	18.62
10	Light Grey Concrete - University Tram Stop North Tce (SA)	Wet	6.61
11	Stone Coping - Mitcham Train Station	Dry	10.76
12	Stone Coping - Mitcham Train Station	Wet	5.31
13	Asphalt mean value, light aggregate - Parkville	Dry	8.16
14	Asphalt mean value, light aggregate - Parkville	Wet	3.78
15	Asphalt dark - Parliament Gardens	Dry	4.97
16	Asphalt dark - Parliament Gardens	Wet	3.24
17	Brick Paver - Mitcham bus stop (SA)	Dry	9.3
18	Brick Paver - Mitcham bus stop (SA)	Wet	9.53
19	Brick Paver Red - Monash Uni	Dry	10.71
20	Brick Paver Red - Monash Uni	Wet	9.32
21	Brick Paver edge - Parliament Gardens	Dry	10.71
22	Brick Paver edge - Parliament Gardens	Wet	9.32
23	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Dry	10.89
24	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Wet	8.58
25	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Dry	9.62
26	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Wet	5.02
27	Bluestone Paver - mean value	Dry	12.98
28	Bluestone Paver - mean value	Wet	6.7
29	Red granite paver - Bourk & Spring St Tram stop. Melbourne CF	Dry	9.77
30	Red granite paver - Bourk & Spring St Tram stop. Melbourne CF	Wet	4.83
31	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Dry	12.2
32	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Wet	7.2
33	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Dry	10.52
34	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Wet	7.29
35	Grey Granite Paver - North Tce Tram Stop (SA)	Dry	7.82
36	Grey Granite Paver - North Tce Tram Stop (SA)	Wet	4.78
37	Beige Paver - Kilkenny Station (SA)	Dry	19.08
38	Beige Paver - Kilkenny Station (SA)	Wet	15.76
39		Dry	

Testing Date: June 2022
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Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Sample No.	Published LRV Values used	Condition(s)	Mean LRV
1	CTA PolyPad - Ivory	Dry	68.29
2	CTA PolyPad - Ivory	Wet	66.09
3	CTA PolyPad - Yellow	Dry	44.25
4	CTA PolyPad - Yellow	Wet	43.12
5	CTA PolyPad - Orange	Dry	22.22
6	CTA PolyPad - Orange	Wet	21.16
7	CTA PolyPad - Terracotta	Dry	12.95
8	CTA PolyPad - Terracotta	Wet	12.33
9	CTA PolyPad - Black	Dry	4.57
10	CTA PolyPad - Black	Wet	4.55
11	CTA PolyPad - Sky Blue	Dry	46.08
12	CTA PolyPad - Sky Blue	Wet	44.11
13	CTA PolyPad - Grey	Dry	22.39
14	CTA PolyPad - Grey	Wet	21.38
15	CTA CobbleTac Precast - Snow	Dry	77.1
16	CTA CobbleTac Precast - Snow	Wet	64.5
17	CTA CobbleTac Precast - Ivory	Dry	62
18	CTA CobbleTac Precast - Ivory	Wet	46
19	CTA CobbleTac Precast - Yellow	Dry	51
20	CTA CobbleTac Precast - Yellow	Wet	39
21	CTA CobbleTac Precast - Grey	Dry	42
22	CTA CobbleTac Precast - Grey	Wet	33.4
23	CTA CobbleTac Precast - Terracotta	Dry	13.9
24	CTA CobbleTac Precast - Terracotta	Wet	8.4
25	CTA CobbleTac Precast - Black	Dry	8
26	CTA CobbleTac Precast - Black	Wet	4
27	CTA Granitac Ivory	Dry	50.33
28	CTA Granitac Ivory	Wet	27.32
29	CTA CobbleTac Porcelain - Ivory	Dry	47.58
30	CTA CobbleTac Porcelain - Ivory	Wet	44.86
31	CTA CobbleTac Porcelain - Yellow	Dry	35.1
32	CTA CobbleTac Porcelain - Yellow	Wet	34.83
33	CTA CobbleTac Porcelain - Grey	Dry	22.71
34	CTA CobbleTac Porcelain - Grey	Wet	20.98
35	CTA CobbleTac Porcelain - Black	Dry	11.37
36	CTA CobbleTac Porcelain - Black	Wet	8.47
37	TSA Polyurethane - Ivory	Dry	50.9
38	TSA Polyurethane - Ivory	Wet	52.57
39	ESP VPC - White	Dry	69.32
40	ESP VPC - White (not provided)	Wet	
41	DTAC Ultimat - Ivory	Dry	62.5
42	DTAC Ultimat - Ivory	Wet	62.4
43	DTAC Ultimat - White	Dry	87
44	DTAC Ultimat - White	Wet	86.7
45	Classic Arch PVC Tiles - White	Dry	63
46	Classic Arch PVC Tiles - White (not provided)	Wet	
47	TSA Concrete Paver - White	Dry	77.1
48	TSA Concrete Paver - White	Wet	50.1
49	TSA Concrete Paver - Ivory	Dry	62
50	TSA Concrete Paver - Ivory	Wet	40.3
51	TSA Polyurethane - Yellow	Dry	40.37

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Sample No.	Published LRV Values used	Condition(s)	Mean LRV
52	TSA Polyurethane - Yellow	Wet	41.14
53	ESP VPC - Yellow	Dry	47.83
54	ESP VPC - Yellow (not provided)	Wet	
55	DTAC Ultimat - Yellow	Dry	65.71
56	DTAC Ultimat - Yellow	Wet	66.51
57	CA PVC Tiles - Yellow	Dry	41
58	CA PVC Tiles - Yellow (not provided)	Wet	
59	Pathfinder Polyurethane mat - Yellow	Dry	68
60	Pathfinder Polyurethane mat - Yellow (not provided)	Wet	

APPENDIX B – Luminance Contrast Calculations

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Testing for compliance with: NCC 2016 / AS 1428.1: 2009 / AS/NZS 1428.4.1: 2009

Formula: Luminance Contrast = $125 \times (Y_2 - Y_1) / (Y_1 + Y_2 + 25)$

AS1428.4.1 LRV Requirements:

TGSI - Integrated 30%; Discrete 45%; Composite: 60%. Measured relative to installed surface.

Stair Nosing - 30% relative to tread/landing surface

Glazing Visual Indicator - 30% relative to ground surface within 2m.

Doors - 30% between two surfaces (wall, door leaf, architrave) with min contrast 50mm

TEST RESULT KEY:

Red	Measured as Insufficient relative to current LRV Requirements.
Yellow	Assessed by A&A to be within an Acceptable range relative to LRV Contrast requirements.
Green	Measured as Meeting LRV Contrast requirements.
%	Exact LRV % contrast for sample comparison.

TEST RESULTS: TGSI

Test 1 - Location/Description

		Dry	28.47	26.3
1	Plain Grey Concrete - mean value	Dry	28.47	26.3
49	CTA CobbleTac Paver - Granitac	Dry	50.33	

Test 1a - Location/Description

		Wet	15.32	22.2
2	Plain Grey Concrete - mean value	Wet	15.32	22.2
50	CTA CobbleTac Paver - Granitac	Wet	27.32	

Test 2 - Location/Description

		Dry	33.02	20.0
3	New Cured concrete - mean value	Dry	33.02	20.0
49	CTA CobbleTac Paver - Granitac	Dry	50.33	

Test 2a - Location/Description

		Wet	18.73	15.1
4	New Cured concrete - mean value	Wet	18.73	15.1
50	CTA CobbleTac Paver - Granitac	Wet	27.32	

Test 3 - Location/Description

		Dry	11.51	55.9
5	Old exp agg Concrete	Dry	11.51	55.9
49	CTA CobbleTac Paver - Granitac	Dry	50.33	

Test 3a - Location/Description

		Wet	7.22	42.2
6	Old exp agg Concrete	Wet	7.22	42.2
50	CTA CobbleTac Paver - Granitac	Wet	27.32	

Test 4 - Location/Description

		Dry	20.47	39.0
7	Concrete Coping - Kilkenny Station (SA)	Dry	20.47	39.0
49	CTA CobbleTac Paver - Granitac	Dry	50.33	

Test 4a - Location/Description

		Wet	10.07	34.6
8	Concrete Coping - Kilkenny Station (SA)	Wet	10.07	34.6
50	CTA CobbleTac Paver - Granitac	Wet	27.32	

Testing Date: June 2022
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Conducted by: Veronica H
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Test 5 - Location/Description				%
9	Light Grey Concrete - University Tram Stop North Tce (SA)	Dry	18.62	42.2
49	CTA CobbleTac Paver - Granitac	Dry	50.33	
Test 5a - Location/Description				%
10	Light Grey Concrete - University Tram Stop North Tce (SA)	Wet	6.61	43.9
50	CTA CobbleTac Paver - Granitac	Wet	27.32	
Test 6 - Location/Description				%
11	Stone Coping - Mitcham Train Station	Dry	10.76	57.5
49	CTA CobbleTac Paver - Granitac	Dry	50.33	
Test 6a - Location/Description				%
12	Stone Coping - Mitcham Train Station	Wet	5.31	47.7
50	CTA CobbleTac Paver - Granitac	Wet	27.32	
Test 7 - Location/Description				%
13	Asphalt mean value, light aggregate - Parkville	Dry	8.16	63.1
49	CTA CobbleTac Paver - Granitac	Dry	50.33	
Test 7a - Location/Description				%
14	Asphalt mean value, light aggregate - Parkville	Wet	3.78	52.5
50	CTA CobbleTac Paver - Granitac	Wet	27.32	
Test 8 - Location/Description				%
15	Asphalt dark - Parliament Gardens	Dry	4.97	70.6
49	CTA CobbleTac Paver - Granitac	Dry	50.33	
Test 8a - Location/Description				%
16	Asphalt dark - Parliament Gardens	Wet	3.24	54.2
50	CTA CobbleTac Paver - Granitac	Wet	27.32	
Test 9 - Location/Description				%
17	Brick Paver - Mitcham bus stop (SA)	Dry	9.3	60.6
49	CTA CobbleTac Paver - Granitac	Dry	50.33	
Test 9a - Location/Description				%
18	Brick Paver - Mitcham bus stop (SA)	Wet	9.53	36.0
50	CTA CobbleTac Paver - Granitac	Wet	27.32	
Test 10 - Location/Description				%
19	Brick Paver Red - Monash Uni	Dry	10.71	57.6
49	CTA CobbleTac Paver - Granitac	Dry	50.33	
Test 10a - Location/Description				%
20	Brick Paver Red - Monash Uni	Wet	9.32	36.5
50	CTA CobbleTac Paver - Granitac	Wet	27.32	

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Conducted by: Veronica H
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Test 11 - Location/Description				%
21	Brick Paver edge - Parliament Gardens	Dry	10.71	57.6
49	CTA CobbleTac Paver - Granitac	Dry	50.33	

Test 11a - Location/Description				%
22	Brick Paver edge - Parliament Gardens	Wet	9.32	36.5
50	CTA CobbleTac Paver - Granitac	Wet	27.32	

Test 12 - Location/Description				%
23	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Dry	10.89	57.9
49	CTA CobbleTac Paver - Granitac	Dry	50.33	

Test 12a - Location/Description				%
24	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Wet	8.58	38.5
50	CTA CobbleTac Paver - Granitac	Wet	27.32	

Test 13 - Location/Description				%
25	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Dry	9.62	59.9
49	CTA CobbleTac Paver - Granitac	Dry	50.33	

Test 13a - Location/Description				%
26	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Wet	5.02	48.6
50	CTA CobbleTac Paver - Granitac	Wet	27.32	

Test 14 - Location/Description				%
27	Bluestone Paver - mean value	Dry	12.98	52.9
49	CTA CobbleTac Paver - Granitac	Dry	50.33	

Test 14a - Location/Description				%
28	Bluestone Paver - mean value	Wet	6.7	43.7
50	CTA CobbleTac Paver - Granitac	Wet	27.32	

Test 15 - Location/Description				%
29	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Dry	9.77	59.6
49	CTA CobbleTac Paver - Granitac	Dry	50.33	

Test 15a - Location/Description				%
30	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Wet	4.83	49.2
50	CTA CobbleTac Paver - Granitac	Wet	27.32	

Test 16 - Location/Description				%
31	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Dry	12.2	54.5
49	CTA CobbleTac Paver - Granitac	Dry	50.33	

Test 16a - Location/Description				%
32	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Wet	7.2	42.3
50	CTA CobbleTac Paver - Granitac	Wet	27.32	

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Test 17 - Location/Description				%
33	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Dry	10.52	58.0
49	CTA CobbleTac Paver - Granitac	Dry	50.33	
Test 17a - Location/Description				%
34	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Wet	7.29	42.0
50	CTA CobbleTac Paver - Granitac	Wet	27.32	
Test 18 - Location/Description				%
35	Grey Granite Paver - North Tce Tram Stop (SA)	Dry	7.82	63.9
49	CTA CobbleTac Paver - Granitac	Dry	50.33	
Test 18a - Location/Description				%
36	Grey Granite Paver - North Tce Tram Stop (SA)	Wet	4.78	49.3
50	CTA CobbleTac Paver - Granitac	Wet	27.32	
Test 19 - Location/Description				%
37	Beige Paver - Kilkenny Station (SA)	Dry	19.08	41.4
49	CTA CobbleTac Paver - Granitac	Dry	50.33	
Test 19a - Location/Description				%
38	Beige Paver - Kilkenny Station (SA)	Wet	15.76	21.2
50	CTA CobbleTac Paver - Granitac	Wet	27.32	
Test 20 - Location/Description				%
Test 20a - Location/Description				%
Test 21 - Location/Description				%
Test 21a - Location/Description				%
Test 22 - Location/Description				%
Test 22a - Location/Description				%

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Testing for compliance with: NCC 2016 / AS 1528.1: 2009 / AS/NZS 1528.4.1: 2009

Formula: Luminance Contrast = $125 \times (Y_2 - Y_1) / (Y_1 + Y_2 + 25)$

AS1528.4.1 LRV Requirements:

TGSI - Integrated 30%; Discrete 51%; Composite: 60%. Measured relative to installed surface.

Stair Nosing - 30% relative to tread/landing surface

Glazing Visual Indicator - 30% relative to ground surface within 2m.

Doors - 30% between two surfaces (wall, door leaf, architrave) with min contrast 52mm

TEST RESULT KEY:

	Measured as Insufficient relative to current LRV Requirements.
	Assessed by A&A to be within an Acceptable range relative to LRV Contrast requirements.
	Measured as Meeting LRV Contrast requirements.
	Exact LRV % contrast for sample comparison.

TEST RESULTS: TGSI

Test 1 - Location/Description

			Dry	28.47	41.6
1	Plain Grey Concrete - mean value		Dry	28.47	41.6
51	CobbleTac Precast - Black		Dry	8	

Test 1a - Location/Description

			Wet	15.32	31.9
2	Plain Grey Concrete - mean value		Wet	15.32	31.9
52	CobbleTac Precast - Black		Wet	4	

Test 2 - Location/Description

			Dry	33.02	47.4
3	New Cured concrete - mean value		Dry	33.02	47.4
51	CobbleTac Precast - Black		Dry	8	

Test 2a - Location/Description

			Wet	18.73	38.6
4	New Cured concrete - mean value		Wet	18.73	38.6
52	CobbleTac Precast - Black		Wet	4	

Test 3 - Location/Description

			Dry	11.51	9.9
5	Old exp agg Concrete		Dry	11.51	9.9
51	CobbleTac Precast - Black		Dry	8	

Test 3a - Location/Description

			Wet	7.22	11.1
6	Old exp agg Concrete		Wet	7.22	11.1
52	CobbleTac Precast - Black		Wet	4	

Test 4 - Location/Description

			Dry	20.47	29.2
7	Concrete Coping - Kilkenny Station (SA)		Dry	20.47	29.2
51	CobbleTac Precast - Black		Dry	8	

Test 4a - Location/Description

			Wet	10.07	19.4
8	Concrete Coping - Kilkenny Station (SA)		Wet	10.07	19.4
52	CobbleTac Precast - Black		Wet	4	

Testing Date: June 2022
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Conducted by: Veronica H
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Test 5 - Location/Description				%
9	Light Grey Concrete - University Tram Stop North Tce (SA)	Dry	18.62	25.7
51	CobbleTac Precast - Black	Dry	8	
Test 5a - Location/Description				%
10	Light Grey Concrete - University Tram Stop North Tce (SA)	Wet	6.61	9.2
52	CobbleTac Precast - Black	Wet	4	
Test 6 - Location/Description				%
11	Stone Coping - Mitcham Train Station	Dry	10.76	7.9
51	CobbleTac Precast - Black	Dry	8	
Test 6a - Location/Description				%
12	Stone Coping - Mitcham Train Station	Wet	5.31	4.8
52	CobbleTac Precast - Black	Wet	4	
Test 7 - Location/Description				%
13	Asphalt mean value, light aggregate - Parkville	Dry	8.16	0.5
51	CobbleTac Precast - Black	Dry	8	
Test 7a - Location/Description				%
14	Asphalt mean value, light aggregate - Parkville	Wet	3.78	0.8
52	CobbleTac Precast - Black	Wet	4	
Test 8 - Location/Description				%
15	Asphalt dark - Parliament Gardens	Dry	4.97	10.0
51	CobbleTac Precast - Black	Dry	8	
Test 8a - Location/Description				%
16	Asphalt dark - Parliament Gardens	Wet	3.24	2.9
52	CobbleTac Precast - Black	Wet	4	
Test 9 - Location/Description				%
17	Brick Paver - Mitcham bus stop (SA)	Dry	9.3	3.8
51	CobbleTac Precast - Black	Dry	8	
Test 9a - Location/Description				%
18	Brick Paver - Mitcham bus stop (SA)	Wet	9.53	17.9
52	CobbleTac Precast - Black	Wet	4	
Test 10 - Location/Description				%
19	Brick Paver Red - Monash Uni	Dry	10.71	7.7
51	CobbleTac Precast - Black	Dry	8	
Test 10a - Location/Description				%
20	Brick Paver Red - Monash Uni	Wet	9.32	17.4
52	CobbleTac Precast - Black	Wet	4	

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Test 11 - Location/Description				%
21	Brick Paver edge - Parliament Gardens	Dry	10.71	7.7
51	CobbleTac Precast - Black	Dry	8	
Test 11a - Location/Description				%
22	Brick Paver edge - Parliament Gardens	Wet	9.32	17.4
52	CobbleTac Precast - Black	Wet	4	
Test 12 - Location/Description				%
23	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Dry	10.89	8.2
51	CobbleTac Precast - Black	Dry	8	
Test 12a - Location/Description				%
24	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Wet	8.58	15.2
52	CobbleTac Precast - Black	Wet	4	
Test 13 - Location/Description				%
25	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Dry	9.62	4.8
51	CobbleTac Precast - Black	Dry	8	
Test 13a - Location/Description				%
26	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Wet	5.02	3.7
52	CobbleTac Precast - Black	Wet	4	
Test 14 - Location/Description				%
27	Bluestone Paver - mean value	Dry	12.98	13.5
51	CobbleTac Precast - Black	Dry	8	
Test 14a - Location/Description				%
28	Bluestone Paver - mean value	Wet	6.7	9.5
52	CobbleTac Precast - Black	Wet	4	
Test 15 - Location/Description				%
29	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Dry	9.77	5.2
51	CobbleTac Precast - Black	Dry	8	
Test 15a - Location/Description				%
30	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Wet	4.83	3.1
52	CobbleTac Precast - Black	Wet	4	
Test 16 - Location/Description				%
31	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Dry	12.2	11.6
51	CobbleTac Precast - Black	Dry	8	
Test 16a - Location/Description				%
32	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Wet	7.2	11.0
52	CobbleTac Precast - Black	Wet	4	

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Test 17 - Location/Description				%
33	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Dry	10.52	7.2
51	CobbleTac Precast - Black	Dry	8	
Test 17a - Location/Description				%
34	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Wet	7.29	11.3
52	CobbleTac Precast - Black	Wet	4	
Test 18 - Location/Description				%
35	Grey Granite Paver - North Tce Tram Stop (SA)	Dry	7.82	0.6
51	CobbleTac Precast - Black	Dry	8	
Test 18a - Location/Description				%
36	Grey Granite Paver - North Tce Tram Stop (SA)	Wet	4.78	2.9
52	CobbleTac Precast - Black	Wet	4	
Test 19 - Location/Description				%
37	Beige Paver - Kilkenny Station (SA)	Dry	19.08	26.6
51	CobbleTac Precast - Black	Dry	8	
Test 19a - Location/Description				%
38	Beige Paver - Kilkenny Station (SA)	Wet	15.76	32.8
52	CobbleTac Precast - Black	Wet	4	
Test 20 - Location/Description				%
Test 20a - Location/Description				%
Test 21 - Location/Description				%
Test 21a - Location/Description				%
Test 22 - Location/Description				%
Test 22a - Location/Description				%

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Testing for compliance with: NCC 2016 / AS 1488.1: 2009 / AS/NZS 1488.4.1: 2009

Formula: Luminance Contrast = $125 \times (Y_2 - Y_1) / (Y_1 + Y_2 + 25)$

AS1488.4.1 LRV Requirements:

TGSI - Integrated 30%; Discrete 47%; Composite: 60%. Measured relative to installed surface.

Stair Nosing - 30% relative to tread/landing surface

Glazing Visual Indicator - 30% relative to ground surface within 2m.

Doors - 30% between two surfaces (wall, door leaf, architrave) with min contrast 50mm

TEST RESULT KEY:

	Measured as Insufficient relative to current LRV Requirements.
	Assessed by A&A to be within an Acceptable range relative to LRV Contrast requirements.
	Measured as Meeting LRV Contrast requirements.
	Exact LRV % contrast for sample comparison.

TEST RESULTS: TGSI

Test 1 - Location/Description

			Dry	28.47	17.7
1	Plain Grey Concrete - mean value		Dry	28.47	17.7
47	CobbleTac Precast - Grey		Dry	42	

Test 1a - Location/Description

			Wet	15.32	30.7
2	Plain Grey Concrete - mean value		Wet	15.32	30.7
48	CobbleTac Precast - Grey		Wet	33.4	

Test 2 - Location/Description

			Dry	33.02	11.2
3	New Cured concrete - mean value		Dry	33.02	11.2
47	CobbleTac Precast - Grey		Dry	42	

Test 2a - Location/Description

			Wet	18.73	23.8
4	New Cured concrete - mean value		Wet	18.73	23.8
48	CobbleTac Precast - Grey		Wet	33.4	

Test 3 - Location/Description

			Dry	11.51	48.5
5	Old exp agg Concrete		Dry	11.51	48.5
47	CobbleTac Precast - Grey		Dry	42	

Test 3a - Location/Description

			Wet	7.22	49.9
6	Old exp agg Concrete		Wet	7.22	49.9
48	CobbleTac Precast - Grey		Wet	33.4	

Test 4 - Location/Description

			Dry	20.47	30.8
7	Concrete Coping - Kilkenny Station (SA)		Dry	20.47	30.8
47	CobbleTac Precast - Grey		Dry	42	

Test 4a - Location/Description

			Wet	10.07	42.6
8	Concrete Coping - Kilkenny Station (SA)		Wet	10.07	42.6
48	CobbleTac Precast - Grey		Wet	33.4	

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Test 5 - Location/Description				%
9	Light Grey Concrete - University Tram Stop North Tce (SA)	Dry	18.62	34.1
47	CobbleTac Precast - Grey	Dry	42	
Test 5a - Location/Description				%
10	Light Grey Concrete - University Tram Stop North Tce (SA)	Wet	6.61	51.5
48	CobbleTac Precast - Grey	Wet	33.4	
Test 6 - Location/Description				%
11	Stone Coping - Mitcham Train Station	Dry	10.76	50.2
47	CobbleTac Precast - Grey	Dry	42	
Test 6a - Location/Description				%
12	Stone Coping - Mitcham Train Station	Wet	5.31	55.1
48	CobbleTac Precast - Grey	Wet	33.4	
Test 7 - Location/Description				%
13	Asphalt mean value, light aggregate - Parkville	Dry	8.16	56.3
47	CobbleTac Precast - Grey	Dry	42	
Test 7a - Location/Description				%
14	Asphalt mean value, light aggregate - Parkville	Wet	3.78	59.5
48	CobbleTac Precast - Grey	Wet	33.4	
Test 8 - Location/Description				%
15	Asphalt dark - Parliament Gardens	Dry	4.97	64.3
47	CobbleTac Precast - Grey	Dry	42	
Test 8a - Location/Description				%
16	Asphalt dark - Parliament Gardens	Wet	3.24	61.2
48	CobbleTac Precast - Grey	Wet	33.4	
Test 9 - Location/Description				%
17	Brick Paver - Mitcham bus stop (SA)	Dry	9.3	53.6
47	CobbleTac Precast - Grey	Dry	42	
Test 9a - Location/Description				%
18	Brick Paver - Mitcham bus stop (SA)	Wet	9.53	43.9
48	CobbleTac Precast - Grey	Wet	33.4	
Test 10 - Location/Description				%
19	Brick Paver Red - Monash Uni	Dry	10.71	50.3
47	CobbleTac Precast - Grey	Dry	42	
Test 10a - Location/Description				%
20	Brick Paver Red - Monash Uni	Wet	9.32	44.4
48	CobbleTac Precast - Grey	Wet	33.4	

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Test 11 - Location/Description				%
21	Brick Paver edge - Parliament Gardens	Dry	10.71	50.3
47	CobbleTac Precast - Grey	Dry	42	

Test 11a - Location/Description				%
22	Brick Paver edge - Parliament Gardens	Wet	9.32	44.4
48	CobbleTac Precast - Grey	Wet	33.4	

Test 12 - Location/Description				%
23	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Dry	10.89	49.9
47	CobbleTac Precast - Grey	Dry	42	

Test 12a - Location/Description				%
24	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Wet	8.58	46.3
48	CobbleTac Precast - Grey	Wet	33.4	

Test 13 - Location/Description				%
25	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Dry	9.62	52.8
47	CobbleTac Precast - Grey	Dry	42	

Test 13a - Location/Description				%
26	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Wet	5.02	55.9
48	CobbleTac Precast - Grey	Wet	33.4	

Test 14 - Location/Description				%
27	Bluestone Paver - mean value	Dry	12.98	45.4
47	CobbleTac Precast - Grey	Dry	42	

Test 14a - Location/Description				%
28	Bluestone Paver - mean value	Wet	6.7	51.3
48	CobbleTac Precast - Grey	Wet	33.4	

Test 15 - Location/Description				%
29	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Dry	9.77	52.5
47	CobbleTac Precast - Grey	Dry	42	

Test 15a - Location/Description				%
30	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Wet	4.83	56.5
48	CobbleTac Precast - Grey	Wet	33.4	

Test 16 - Location/Description				%
31	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Dry	12.2	47.0
47	CobbleTac Precast - Grey	Dry	42	

Test 16a - Location/Description				%
32	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Wet	7.2	49.9
48	CobbleTac Precast - Grey	Wet	33.4	

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Test 17 - Location/Description				%
33	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Dry	10.52	50.8
47	CobbleTac Precast - Grey	Dry	42	
Test 17a - Location/Description				%
34	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Wet	7.29	49.7
48	CobbleTac Precast - Grey	Wet	33.4	
Test 18 - Location/Description				%
35	Grey Granite Paver - North Tce Tram Stop (SA)	Dry	7.82	57.1
47	CobbleTac Precast - Grey	Dry	42	
Test 18a - Location/Description				%
36	Grey Granite Paver - North Tce Tram Stop (SA)	Wet	4.78	56.6
48	CobbleTac Precast - Grey	Wet	33.4	
Test 19 - Location/Description				%
37	Beige Paver - Kilkenny Station (SA)	Dry	19.08	33.3
47	CobbleTac Precast - Grey	Dry	42	
Test 19a - Location/Description				%
38	Beige Paver - Kilkenny Station (SA)	Wet	15.76	29.7
48	CobbleTac Precast - Grey	Wet	33.4	
Test 20 - Location/Description				%
Test 20a - Location/Description				%
Test 21 - Location/Description				%
Test 21a - Location/Description				%
Test 22 - Location/Description				%
Test 22a - Location/Description				%

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Testing for compliance with: NCC 2016 / AS 1448.1: 2009 / AS/NZS 1448.4.1: 2009

Formula: Luminance Contrast = $125 \times (Y_2 - Y_1) / (Y_1 + Y_2 + 25)$

AS1448.4.1 LRV Requirements:

TGSI - Integrated 30%; Discrete 45%; Composite: 60%. Measured relative to installed surface.

Stair Nosing - 30% relative to tread/landing surface

Glazing Visual Indicator - 30% relative to ground surface within 2m.

Doors - 30% between two surfaces (wall, door leaf, architrave) with min contrast 50mm

TEST RESULT KEY:

	Measured as Insufficient relative to current LRV Requirements.
	Assessed by A&A to be within an Acceptable range relative to LRV Contrast requirements.
	Measured as Meeting LRV Contrast requirements.
	Exact LRV % contrast for sample comparison.

TEST RESULTS: TGSI

Test 1 - Location/Description

			Dry	28.47	36.3
1	Plain Grey Concrete - mean value		Dry	28.47	36.3
43	CobbleTac Precast - Ivory		Dry	62	

Test 1a - Location/Description

			Wet	15.32	44.4
2	Plain Grey Concrete - mean value		Wet	15.32	44.4
44	CobbleTac Precast - Ivory		Wet	46	

Test 2 - Location/Description

			Dry	33.02	30.2
3	New Cured concrete - mean value		Dry	33.02	30.2
43	CobbleTac Precast - Ivory		Dry	62	

Test 2a - Location/Description

			Wet	18.73	38.0
4	New Cured concrete - mean value		Wet	18.73	38.0
44	CobbleTac Precast - Ivory		Wet	46	

Test 3 - Location/Description

			Dry	11.51	64.1
5	Old exp agg Concrete		Dry	11.51	64.1
43	CobbleTac Precast - Ivory		Dry	62	

Test 3a - Location/Description

			Wet	7.22	62.0
6	Old exp agg Concrete		Wet	7.22	62.0
44	CobbleTac Precast - Ivory		Wet	46	

Test 4 - Location/Description

			Dry	20.47	48.3
7	Concrete Coping - Kilkenny Station (SA)		Dry	20.47	48.3
43	CobbleTac Precast - Ivory		Dry	62	

Test 4a - Location/Description

			Wet	10.07	55.4
8	Concrete Coping - Kilkenny Station (SA)		Wet	10.07	55.4
44	CobbleTac Precast - Ivory		Wet	46	

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Client: Department of Infrastructure and Transport

Test 5 - Location/Description				%
9	Light Grey Concrete - University Tram Stop North Tce (SA)	Dry	18.62	51.3
43	CobbleTac Precast - Ivory	Dry	62	
Test 5a - Location/Description				%
10	Light Grey Concrete - University Tram Stop North Tce (SA)	Wet	6.61	63.4
44	CobbleTac Precast - Ivory	Wet	46	
Test 6 - Location/Description				%
11	Stone Coping - Mitcham Train Station	Dry	10.76	65.5
43	CobbleTac Precast - Ivory	Dry	62	
Test 6a - Location/Description				%
12	Stone Coping - Mitcham Train Station	Wet	5.31	66.7
44	CobbleTac Precast - Ivory	Wet	46	
Test 7 - Location/Description				%
13	Asphalt mean value, light aggregate - Parkville	Dry	8.16	70.7
43	CobbleTac Precast - Ivory	Dry	62	
Test 7a - Location/Description				%
14	Asphalt mean value, light aggregate - Parkville	Wet	3.78	70.6
44	CobbleTac Precast - Ivory	Wet	46	
Test 8 - Location/Description				%
15	Asphalt dark - Parliament Gardens	Dry	4.97	77.5
43	CobbleTac Precast - Ivory	Dry	62	
Test 8a - Location/Description				%
16	Asphalt dark - Parliament Gardens	Wet	3.24	72.0
44	CobbleTac Precast - Ivory	Wet	46	
Test 9 - Location/Description				%
17	Brick Paver - Mitcham bus stop (SA)	Dry	9.3	68.4
43	CobbleTac Precast - Ivory	Dry	62	
Test 9a - Location/Description				%
18	Brick Paver - Mitcham bus stop (SA)	Wet	9.53	56.6
44	CobbleTac Precast - Ivory	Wet	46	
Test 10 - Location/Description				%
19	Brick Paver Red - Monash Uni	Dry	10.71	65.6
43	CobbleTac Precast - Ivory	Dry	62	
Test 10a - Location/Description				%
20	Brick Paver Red - Monash Uni	Wet	9.32	57.1
44	CobbleTac Precast - Ivory	Wet	46	

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Test 11 - Location/Description				%
21	Brick Paver edge - Parliament Gardens	Dry	10.71	65.6
43	CobbleTac Precast - Ivory	Dry	62	

Test 11a - Location/Description				%
22	Brick Paver edge - Parliament Gardens	Wet	9.32	57.1
44	CobbleTac Precast - Ivory	Wet	46	

Test 12 - Location/Description				%
23	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Dry	10.89	65.9
43	CobbleTac Precast - Ivory	Dry	62	

Test 12a - Location/Description				%
24	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Wet	8.58	58.8
44	CobbleTac Precast - Ivory	Wet	46	

Test 13 - Location/Description				%
25	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Dry	9.62	67.8
43	CobbleTac Precast - Ivory	Dry	62	

Test 13a - Location/Description				%
26	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Wet	5.02	67.4
44	CobbleTac Precast - Ivory	Wet	46	

Test 14 - Location/Description				%
27	Bluestone Paver - mean value	Dry	12.98	61.3
43	CobbleTac Precast - Ivory	Dry	62	

Test 14a - Location/Description				%
28	Bluestone Paver - mean value	Wet	6.7	63.2
44	CobbleTac Precast - Ivory	Wet	46	

Test 15 - Location/Description				%
29	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Dry	9.77	67.5
43	CobbleTac Precast - Ivory	Dry	62	

Test 15a - Location/Description				%
30	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Wet	4.83	67.9
44	CobbleTac Precast - Ivory	Wet	46	

Test 16 - Location/Description				%
31	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Dry	12.2	62.8
43	CobbleTac Precast - Ivory	Dry	62	

Test 16a - Location/Description				%
32	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Wet	7.2	62.0
44	CobbleTac Precast - Ivory	Wet	46	

Testing Date: June 2022
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Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Test 17 - Location/Description				%
33	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Dry	10.52	66.0
43	CobbleTac Precast - Ivory	Dry	62	
Test 17a - Location/Description				%
34	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Wet	7.29	61.8
44	CobbleTac Precast - Ivory	Wet	46	
Test 18 - Location/Description				%
35	Grey Granite Paver - North Tce Tram Stop (SA)	Dry	7.82	71.4
43	CobbleTac Precast - Ivory	Dry	62	
Test 18a - Location/Description				%
36	Grey Granite Paver - North Tce Tram Stop (SA)	Wet	4.78	68.0
44	CobbleTac Precast - Ivory	Wet	46	
Test 19 - Location/Description				%
37	Beige Paver - Kilkenny Station (SA)	Dry	19.08	50.6
43	CobbleTac Precast - Ivory	Dry	62	
Test 19a - Location/Description				%
38	Beige Paver - Kilkenny Station (SA)	Wet	15.76	43.6
44	CobbleTac Precast - Ivory	Wet	46	
Test 20 - Location/Description				%
Test 20a - Location/Description				%
Test 21 - Location/Description				%
Test 21a - Location/Description				%
Test 22 - Location/Description				%
Test 22a - Location/Description				%

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Testing for compliance with: NCC 2016 / AS 1428.1: 2009 / AS/NZS 1428.4.1: 2009

Formula: Luminance Contrast = $125 \times (Y_2 - Y_1) / (Y_1 + Y_2 + 25)$

AS1428.4.1 LRV Requirements:

TGSI - Integrated 30%; Discrete 45%; Composite: 60%. Measured relative to installed surface.

Stair Nosing - 30% relative to tread/landing surface

Glazing Visual Indicator - 30% relative to ground surface within 2m.

Doors - 30% between two surfaces (wall, door leaf, architrave) with min contrast 50mm

TEST RESULT KEY:

	Measured as Insufficient relative to current LRV Requirements.
	Assessed by A&A to be within an Acceptable range relative to LRV Contrast requirements.
	Measured as Meeting LRV Contrast requirements.
	Exact LRV % contrast for sample comparison.

TEST RESULTS: TGSI

Test 1 - Location/Description

			Dry	28.47	46.6
1	Plain Grey Concrete - mean value		Dry	28.47	46.6
41	CobbleTac Precast - Snow		Dry	77.1	

Test 1a - Location/Description

			Wet	15.32	58.6
2	Plain Grey Concrete - mean value		Wet	15.32	58.6
42	CobbleTac Precast - Snow		Wet	64.5	

Test 2 - Location/Description

			Dry	33.02	40.8
3	New Cured concrete - mean value		Dry	33.02	40.8
41	CobbleTac Precast - Snow		Dry	77.1	

Test 2a - Location/Description

			Wet	18.73	52.9
4	New Cured concrete - mean value		Wet	18.73	52.9
42	CobbleTac Precast - Snow		Wet	64.5	

Test 3 - Location/Description

			Dry	11.51	72.2
5	Old exp agg Concrete		Dry	11.51	72.2
41	CobbleTac Precast - Snow		Dry	77.1	

Test 3a - Location/Description

			Wet	7.22	74.0
6	Old exp agg Concrete		Wet	7.22	74.0
42	CobbleTac Precast - Snow		Wet	64.5	

Test 4 - Location/Description

			Dry	20.47	57.8
7	Concrete Coping - Kilkenny Station (SA)		Dry	20.47	57.8
41	CobbleTac Precast - Snow		Dry	77.1	

Test 4a - Location/Description

			Wet	10.07	68.3
8	Concrete Coping - Kilkenny Station (SA)		Wet	10.07	68.3
42	CobbleTac Precast - Snow		Wet	64.5	

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Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Test 5 - Location/Description				%
9	Light Grey Concrete - University Tram Stop North Tce (SA)	Dry	18.62	60.6
41	CobbleTac Precast - Snow	Dry	77.1	
Test 5a - Location/Description				%
10	Light Grey Concrete - University Tram Stop North Tce (SA)	Wet	6.61	75.3
42	CobbleTac Precast - Snow	Wet	64.5	
Test 6 - Location/Description				%
11	Stone Coping - Mitcham Train Station	Dry	10.76	73.5
41	CobbleTac Precast - Snow	Dry	77.1	
Test 6a - Location/Description				%
12	Stone Coping - Mitcham Train Station	Wet	5.31	78.0
42	CobbleTac Precast - Snow	Wet	64.5	
Test 7 - Location/Description				%
13	Asphalt mean value, light aggregate - Parkville	Dry	8.16	78.2
41	CobbleTac Precast - Snow	Dry	77.1	
Test 7a - Location/Description				%
14	Asphalt mean value, light aggregate - Parkville	Wet	3.78	81.4
42	CobbleTac Precast - Snow	Wet	64.5	
Test 8 - Location/Description				%
15	Asphalt dark - Parliament Gardens	Dry	4.97	84.2
41	CobbleTac Precast - Snow	Dry	77.1	
Test 8a - Location/Description				%
16	Asphalt dark - Parliament Gardens	Wet	3.24	82.6
42	CobbleTac Precast - Snow	Wet	64.5	
Test 9 - Location/Description				%
17	Brick Paver - Mitcham bus stop (SA)	Dry	9.3	76.1
41	CobbleTac Precast - Snow	Dry	77.1	
Test 9a - Location/Description				%
18	Brick Paver - Mitcham bus stop (SA)	Wet	9.53	69.4
42	CobbleTac Precast - Snow	Wet	64.5	
Test 10 - Location/Description				%
19	Brick Paver Red - Monash Uni	Dry	10.71	73.6
41	CobbleTac Precast - Snow	Dry	77.1	
Test 10a - Location/Description				%
20	Brick Paver Red - Monash Uni	Wet	9.32	69.8
42	CobbleTac Precast - Snow	Wet	64.5	

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Test 11 - Location/Description				%
21	Brick Paver edge - Parliament Gardens	Dry	10.71	73.6
41	CobbleTac Precast - Snow	Dry	77.1	

Test 11a - Location/Description				%
22	Brick Paver edge - Parliament Gardens	Wet	9.32	69.8
42	CobbleTac Precast - Snow	Wet	64.5	

Test 12 - Location/Description				%
23	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Dry	10.89	73.2
41	CobbleTac Precast - Snow	Dry	77.1	

Test 12a - Location/Description				%
24	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Wet	8.58	71.3
42	CobbleTac Precast - Snow	Wet	64.5	

Test 13 - Location/Description				%
25	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Dry	9.62	75.5
41	CobbleTac Precast - Snow	Dry	77.1	

Test 13a - Location/Description				%
26	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Wet	5.02	78.7
42	CobbleTac Precast - Snow	Wet	64.5	

Test 14 - Location/Description				%
27	Bluestone Paver - mean value	Dry	12.98	69.6
41	CobbleTac Precast - Snow	Dry	77.1	

Test 14a - Location/Description				%
28	Bluestone Paver - mean value	Wet	6.7	75.1
42	CobbleTac Precast - Snow	Wet	64.5	

Test 15 - Location/Description				%
29	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Dry	9.77	75.2
41	CobbleTac Precast - Snow	Dry	77.1	

Test 15a - Location/Description				%
30	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Wet	4.83	79.1
42	CobbleTac Precast - Snow	Wet	64.5	

Test 16 - Location/Description				%
31	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Dry	12.2	71.0
41	CobbleTac Precast - Snow	Dry	77.1	

Test 16a - Location/Description				%
32	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Wet	7.2	74.1
42	CobbleTac Precast - Snow	Wet	64.5	

Testing Date: June 2022
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Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Test 17 - Location/Description				%
33	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Dry	10.52	73.9
41	CobbleTac Precast - Snow	Dry	77.1	
Test 17a - Location/Description				%
34	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Wet	7.29	73.9
42	CobbleTac Precast - Snow	Wet	64.5	
Test 18 - Location/Description				%
35	Grey Granite Paver - North Tce Tram Stop (SA)	Dry	7.82	78.8
41	CobbleTac Precast - Snow	Dry	77.1	
Test 18a - Location/Description				%
36	Grey Granite Paver - North Tce Tram Stop (SA)	Wet	4.78	79.2
42	CobbleTac Precast - Snow	Wet	64.5	
Test 19 - Location/Description				%
37	Beige Paver - Kilkenny Station (SA)	Dry	19.08	59.8
41	CobbleTac Precast - Snow	Dry	77.1	
Test 19a - Location/Description				%
38	Beige Paver - Kilkenny Station (SA)	Wet	15.76	57.9
42	CobbleTac Precast - Snow	Wet	64.5	
Test 20 - Location/Description				%
Test 20a - Location/Description				%
Test 21 - Location/Description				%
Test 21a - Location/Description				%
Test 22 - Location/Description				%
Test 22a - Location/Description				%

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Testing for compliance with: NCC 2016 / AS 1508.1: 2009 / AS/NZS 1508.4.1: 2009

Formula: Luminance Contrast = $125 \times (Y_2 - Y_1) / (Y_1 + Y_2 + 25)$

AS1508.4.1 LRV Requirements:

TGSI - Integrated 30%; Discrete 49%; Composite: 60%. Measured relative to installed surface.

Stair Nosing - 30% relative to tread/landing surface

Glazing Visual Indicator - 30% relative to ground surface within 2m.

Doors - 30% between two surfaces (wall, door leaf, architrave) with min contrast 50mm

TEST RESULT KEY:

 	Measured as Insufficient relative to current LRV Requirements.
 	Assessed by A&A to be within an Acceptable range relative to LRV Contrast requirements.
 	Measured as Meeting LRV Contrast requirements.
%	Exact LRV % contrast for sample comparison.

TEST RESULTS: TGSI

Test 1 - Location/Description

			Dry	28.47	27.0
1	Plain Grey Concrete - mean value		Dry	28.47	27.0
49	CobbleTac Precast - Terracotta		Dry	13.9	

Test 1a - Location/Description

			Wet	15.32	17.8
2	Plain Grey Concrete - mean value		Wet	15.32	17.8
50	CobbleTac Precast - Terracotta		Wet	8.4	

Test 2 - Location/Description

			Dry	33.02	33.2
3	New Cured concrete - mean value		Dry	33.02	33.2
49	CobbleTac Precast - Terracotta		Dry	13.9	

Test 2a - Location/Description

			Wet	18.73	24.8
4	New Cured concrete - mean value		Wet	18.73	24.8
50	CobbleTac Precast - Terracotta		Wet	8.4	

Test 3 - Location/Description

			Dry	11.51	5.9
5	Old exp agg Concrete		Dry	11.51	5.9
49	CobbleTac Precast - Terracotta		Dry	13.9	

Test 3a - Location/Description

			Wet	7.22	3.6
6	Old exp agg Concrete		Wet	7.22	3.6
50	CobbleTac Precast - Terracotta		Wet	8.4	

Test 4 - Location/Description

			Dry	20.47	13.8
7	Concrete Coping - Kilkenny Station (SA)		Dry	20.47	13.8
49	CobbleTac Precast - Terracotta		Dry	13.9	

Test 4a - Location/Description

			Wet	10.07	4.8
8	Concrete Coping - Kilkenny Station (SA)		Wet	10.07	4.8
50	CobbleTac Precast - Terracotta		Wet	8.4	

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Test 5 - Location/Description				%
9	Light Grey Concrete - University Tram Stop North Tce (SA)	Dry	18.62	10.3
49	CobbleTac Precast - Terracotta	Dry	13.9	
Test 5a - Location/Description				%
10	Light Grey Concrete - University Tram Stop North Tce (SA)	Wet	6.61	5.6
50	CobbleTac Precast - Terracotta	Wet	8.4	
Test 6 - Location/Description				%
11	Stone Coping - Mitcham Train Station	Dry	10.76	7.9
49	CobbleTac Precast - Terracotta	Dry	13.9	
Test 6a - Location/Description				%
12	Stone Coping - Mitcham Train Station	Wet	5.31	10.0
50	CobbleTac Precast - Terracotta	Wet	8.4	
Test 7 - Location/Description				%
13	Asphalt mean value, light aggregate - Parkville	Dry	8.16	15.2
49	CobbleTac Precast - Terracotta	Dry	13.9	
Test 7a - Location/Description				%
14	Asphalt mean value, light aggregate - Parkville	Wet	3.78	15.5
50	CobbleTac Precast - Terracotta	Wet	8.4	
Test 8 - Location/Description				%
15	Asphalt dark - Parliament Gardens	Dry	4.97	25.4
49	CobbleTac Precast - Terracotta	Dry	13.9	
Test 8a - Location/Description				%
16	Asphalt dark - Parliament Gardens	Wet	3.24	17.6
50	CobbleTac Precast - Terracotta	Wet	8.4	
Test 9 - Location/Description				%
17	Brick Paver - Mitcham bus stop (SA)	Dry	9.3	11.9
49	CobbleTac Precast - Terracotta	Dry	13.9	
Test 9a - Location/Description				%
18	Brick Paver - Mitcham bus stop (SA)	Wet	9.53	3.3
50	CobbleTac Precast - Terracotta	Wet	8.4	
Test 10 - Location/Description				%
19	Brick Paver Red - Monash Uni	Dry	10.71	8.0
49	CobbleTac Precast - Terracotta	Dry	13.9	
Test 10a - Location/Description				%
20	Brick Paver Red - Monash Uni	Wet	9.32	2.7
50	CobbleTac Precast - Terracotta	Wet	8.4	

Testing Date: June 2022
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Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Test 11 - Location/Description				%
21	Brick Paver edge - Parliament Gardens	Dry	10.71	8.0
49	CobbleTac Precast - Terracotta	Dry	13.9	
Test 11a - Location/Description				%
22	Brick Paver edge - Parliament Gardens	Wet	9.32	2.7
50	CobbleTac Precast - Terracotta	Wet	8.4	
Test 12 - Location/Description				%
23	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Dry	10.89	7.6
49	CobbleTac Precast - Terracotta	Dry	13.9	
Test 12a - Location/Description				%
24	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Wet	8.58	0.5
50	CobbleTac Precast - Terracotta	Wet	8.4	
Test 13 - Location/Description				%
25	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Dry	9.62	11.0
49	CobbleTac Precast - Terracotta	Dry	13.9	
Test 13a - Location/Description				%
26	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Wet	5.02	11.0
50	CobbleTac Precast - Terracotta	Wet	8.4	
Test 14 - Location/Description				%
27	Bluestone Paver - mean value	Dry	12.98	2.2
49	CobbleTac Precast - Terracotta	Dry	13.9	
Test 14a - Location/Description				%
28	Bluestone Paver - mean value	Wet	6.7	5.3
50	CobbleTac Precast - Terracotta	Wet	8.4	
Test 15 - Location/Description				%
29	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Dry	9.77	10.6
49	CobbleTac Precast - Terracotta	Dry	13.9	
Test 15a - Location/Description				%
30	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Wet	4.83	11.7
50	CobbleTac Precast - Terracotta	Wet	8.4	
Test 16 - Location/Description				%
31	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Dry	12.2	4.2
49	CobbleTac Precast - Terracotta	Dry	13.9	
Test 16a - Location/Description				%
32	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Wet	7.2	3.7
50	CobbleTac Precast - Terracotta	Wet	8.4	

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Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Test 17 - Location/Description				%
33	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Dry	10.52	8.5
49	CobbleTac Precast - Terracotta	Dry	13.9	
Test 17a - Location/Description				%
34	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Wet	7.29	3.4
50	CobbleTac Precast - Terracotta	Wet	8.4	
Test 18 - Location/Description				%
35	Grey Granite Paver - North Tce Tram Stop (SA)	Dry	7.82	16.3
49	CobbleTac Precast - Terracotta	Dry	13.9	
Test 18a - Location/Description				%
36	Grey Granite Paver - North Tce Tram Stop (SA)	Wet	4.78	11.9
50	CobbleTac Precast - Terracotta	Wet	8.4	
Test 19 - Location/Description				%
37	Beige Paver - Kilkenny Station (SA)	Dry	19.08	11.2
49	CobbleTac Precast - Terracotta	Dry	13.9	
Test 19a - Location/Description				%
38	Beige Paver - Kilkenny Station (SA)	Wet	15.76	18.7
50	CobbleTac Precast - Terracotta	Wet	8.4	
Test 20 - Location/Description				%
Test 20a - Location/Description				%
Test 21 - Location/Description				%
Test 21a - Location/Description				%
Test 22 - Location/Description				%
Test 22a - Location/Description				%

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Testing for compliance with: NCC 2016 / AS 1468.1: 2009 / AS/NZS 1468.4.1: 2009

Formula: Luminance Contrast = $125 \times (Y_2 - Y_1) / (Y_1 + Y_2 + 25)$

AS1468.4.1 LRV Requirements:

TGSI - Integrated 30%; Discrete 45%; Composite: 60%. Measured relative to installed surface.

Stair Nosing - 30% relative to tread/landing surface

Glazing Visual Indicator - 30% relative to ground surface within 2m.

Doors - 30% between two surfaces (wall, door leaf, architrave) with min contrast 50mm

TEST RESULT KEY:

	Measured as Insufficient relative to current LRV Requirements.
	Assessed by A&A to be within an Acceptable range relative to LRV Contrast requirements.
	Measured as Meeting LRV Contrast requirements.
%	Exact LRV % contrast for sample comparison.

TEST RESULTS: TGSI

Test 1 - Location/Description

			Dry	28.47	27.0
1	Plain Grey Concrete - mean value		Dry	28.47	27.0
45	CobbleTac Precast - Yellow		Dry	51	

Test 1a - Location/Description

			Wet	15.32	37.3
2	Plain Grey Concrete - mean value		Wet	15.32	37.3
46	CobbleTac Precast - Yellow		Wet	39	

Test 2 - Location/Description

			Dry	33.02	20.6
3	New Cured concrete - mean value		Dry	33.02	20.6
45	CobbleTac Precast - Yellow		Dry	51	

Test 2a - Location/Description

			Wet	18.73	30.6
4	New Cured concrete - mean value		Wet	18.73	30.6
46	CobbleTac Precast - Yellow		Wet	39	

Test 3 - Location/Description

			Dry	11.51	56.4
5	Old exp agg Concrete		Dry	11.51	56.4
45	CobbleTac Precast - Yellow		Dry	51	

Test 3a - Location/Description

			Wet	7.22	55.8
6	Old exp agg Concrete		Wet	7.22	55.8
46	CobbleTac Precast - Yellow		Wet	39	

Test 4 - Location/Description

			Dry	20.47	39.6
7	Concrete Coping - Kilkenny Station (SA)		Dry	20.47	39.6
45	CobbleTac Precast - Yellow		Dry	51	

Test 4a - Location/Description

			Wet	10.07	48.8
8	Concrete Coping - Kilkenny Station (SA)		Wet	10.07	48.8
46	CobbleTac Precast - Yellow		Wet	39	

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Test 5 - Location/Description				%
9	Light Grey Concrete - University Tram Stop North Tce (SA)	Dry	18.62	42.8
45	CobbleTac Precast - Yellow	Dry	51	
Test 5a - Location/Description				%
10	Light Grey Concrete - University Tram Stop North Tce (SA)	Wet	6.61	57.3
46	CobbleTac Precast - Yellow	Wet	39	
Test 6 - Location/Description				%
11	Stone Coping - Mitcham Train Station	Dry	10.76	58.0
45	CobbleTac Precast - Yellow	Dry	51	
Test 6a - Location/Description				%
12	Stone Coping - Mitcham Train Station	Wet	5.31	60.8
46	CobbleTac Precast - Yellow	Wet	39	
Test 7 - Location/Description				%
13	Asphalt mean value, light aggregate - Parkville	Dry	8.16	63.6
45	CobbleTac Precast - Yellow	Dry	51	
Test 7a - Location/Description				%
14	Asphalt mean value, light aggregate - Parkville	Wet	3.78	65.0
46	CobbleTac Precast - Yellow	Wet	39	
Test 8 - Location/Description				%
15	Asphalt dark - Parliament Gardens	Dry	4.97	71.1
45	CobbleTac Precast - Yellow	Dry	51	
Test 8a - Location/Description				%
16	Asphalt dark - Parliament Gardens	Wet	3.24	66.5
46	CobbleTac Precast - Yellow	Wet	39	
Test 9 - Location/Description				%
17	Brick Paver - Mitcham bus stop (SA)	Dry	9.3	61.1
45	CobbleTac Precast - Yellow	Dry	51	
Test 9a - Location/Description				%
18	Brick Paver - Mitcham bus stop (SA)	Wet	9.53	50.1
46	CobbleTac Precast - Yellow	Wet	39	
Test 10 - Location/Description				%
19	Brick Paver Red - Monash Uni	Dry	10.71	58.1
45	CobbleTac Precast - Yellow	Dry	51	
Test 10a - Location/Description				%
20	Brick Paver Red - Monash Uni	Wet	9.32	50.6
46	CobbleTac Precast - Yellow	Wet	39	

Testing Date: June 2022
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Conducted by: Veronica H
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Test 11 - Location/Description				%
21	Brick Paver edge - Parliament Gardens	Dry	10.71	58.1
45	CobbleTac Precast - Yellow	Dry	51	

Test 11a - Location/Description				%
22	Brick Paver edge - Parliament Gardens	Wet	9.32	50.6
46	CobbleTac Precast - Yellow	Wet	39	

Test 12 - Location/Description				%
23	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Dry	10.89	57.7
45	CobbleTac Precast - Yellow	Dry	51	

Test 12a - Location/Description				%
24	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Wet	8.58	52.4
46	CobbleTac Precast - Yellow	Wet	39	

Test 13 - Location/Description				%
25	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Dry	9.62	60.4
45	CobbleTac Precast - Yellow	Dry	51	

Test 13a - Location/Description				%
26	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Wet	5.02	61.5
46	CobbleTac Precast - Yellow	Wet	39	

Test 14 - Location/Description				%
27	Bluestone Paver - mean value	Dry	12.98	53.4
45	CobbleTac Precast - Yellow	Dry	51	

Test 14a - Location/Description				%
28	Bluestone Paver - mean value	Wet	6.7	57.1
46	CobbleTac Precast - Yellow	Wet	39	

Test 15 - Location/Description				%
29	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Dry	9.77	60.1
45	CobbleTac Precast - Yellow	Dry	51	

Test 15a - Location/Description				%
30	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Wet	4.83	62.1
46	CobbleTac Precast - Yellow	Wet	39	

Test 16 - Location/Description				%
31	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Dry	12.2	55.0
45	CobbleTac Precast - Yellow	Dry	51	

Test 16a - Location/Description				%
32	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Wet	7.2	55.8
46	CobbleTac Precast - Yellow	Wet	39	

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Test 17 - Location/Description				%
33	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Dry	10.52	58.5
45	CobbleTac Precast - Yellow	Dry	51	
Test 17a - Location/Description				%
34	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Wet	7.29	55.6
46	CobbleTac Precast - Yellow	Wet	39	
Test 18 - Location/Description				%
35	Grey Granite Paver - North Tce Tram Stop (SA)	Dry	7.82	64.4
45	CobbleTac Precast - Yellow	Dry	51	
Test 18a - Location/Description				%
36	Grey Granite Paver - North Tce Tram Stop (SA)	Wet	4.78	62.2
46	CobbleTac Precast - Yellow	Wet	39	
Test 19 - Location/Description				%
37	Beige Paver - Kilkenny Station (SA)	Dry	19.08	42.0
45	CobbleTac Precast - Yellow	Dry	51	
Test 19a - Location/Description				%
38	Beige Paver - Kilkenny Station (SA)	Wet	15.76	36.4
46	CobbleTac Precast - Yellow	Wet	39	
Test 20 - Location/Description				%
Test 20a - Location/Description				%
Test 21 - Location/Description				%
Test 21a - Location/Description				%
Test 22 - Location/Description				%
Test 22a - Location/Description				%

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Testing for compliance with: NCC 2016 / AS 1528.1: 2009 / AS/NZS 1528.4.1: 2009

Formula: Luminance Contrast = $125 \times (Y_2 - Y_1) / (Y_1 + Y_2 + 25)$

AS1528.4.1 LRV Requirements:

TGSI - Integrated 30%; Discrete 51%; Composite: 60%. Measured relative to installed surface.

Stair Nosing - 30% relative to tread/landing surface

Glazing Visual Indicator - 30% relative to ground surface within 2m.

Doors - 30% between two surfaces (wall, door leaf, architrave) with min contrast 52mm

TEST RESULT KEY:

	Measured as Insufficient relative to current LRV Requirements.
	Assessed by A&A to be within an Acceptable range relative to LRV Contrast requirements.
	Measured as Meeting LRV Contrast requirements.
	Exact LRV % contrast for sample comparison.

TEST RESULTS: TGSI

Test 1 - Location/Description

			Dry	28.47	33.0
1	Plain Grey Concrete - mean value		Dry	28.47	33.0
51	CobbleTac Porcelain - Black		Dry	11.37	

Test 1a - Location/Description

			Wet	15.32	17.5
2	Plain Grey Concrete - mean value		Wet	15.32	17.5
52	CobbleTac Porcelain - Black		Wet	8.47	

Test 2 - Location/Description

			Dry	33.02	39.0
3	New Cured concrete - mean value		Dry	33.02	39.0
51	CobbleTac Porcelain - Black		Dry	11.37	

Test 2a - Location/Description

			Wet	18.73	24.6
4	New Cured concrete - mean value		Wet	18.73	24.6
52	CobbleTac Porcelain - Black		Wet	8.47	

Test 3 - Location/Description

			Dry	11.51	0.4
5	Old exp agg Concrete		Dry	11.51	0.4
51	CobbleTac Porcelain - Black		Dry	11.37	

Test 3a - Location/Description

			Wet	7.32	3.5
6	Old exp agg Concrete		Wet	7.32	3.5
52	CobbleTac Porcelain - Black		Wet	8.47	

Test 4 - Location/Description

			Dry	20.47	20.0
7	Concrete Coping - Kilkenny Station (SA)		Dry	20.47	20.0
51	CobbleTac Porcelain - Black		Dry	11.37	

Test 4a - Location/Description

			Wet	10.07	4.6
8	Concrete Coping - Kilkenny Station (SA)		Wet	10.07	4.6
52	CobbleTac Porcelain - Black		Wet	8.47	

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Test 5 - Location/Description				%
9	Light Grey Concrete - University Tram Stop North Tce (SA)	Dry	18.62	16.5
51	CobbleTac Porcelain - Black	Dry	11.37	
Test 5a - Location/Description				%
10	Light Grey Concrete - University Tram Stop North Tce (SA)	Wet	6.61	5.8
52	CobbleTac Porcelain - Black	Wet	8.47	
Test 6 - Location/Description				%
11	Stone Coping - Mitcham Train Station	Dry	10.76	1.6
51	CobbleTac Porcelain - Black	Dry	11.37	
Test 6a - Location/Description				%
12	Stone Coping - Mitcham Train Station	Wet	5.31	10.2
52	CobbleTac Porcelain - Black	Wet	8.47	
Test 7 - Location/Description				%
13	Asphalt mean value, light aggregate - Parkville	Dry	8.16	9.0
51	CobbleTac Porcelain - Black	Dry	11.37	
Test 7a - Location/Description				%
14	Asphalt mean value, light aggregate - Parkville	Wet	3.78	15.7
52	CobbleTac Porcelain - Black	Wet	8.47	
Test 8 - Location/Description				%
15	Asphalt dark - Parliament Gardens	Dry	4.97	19.4
51	CobbleTac Porcelain - Black	Dry	11.37	
Test 8a - Location/Description				%
16	Asphalt dark - Parliament Gardens	Wet	3.24	17.8
52	CobbleTac Porcelain - Black	Wet	8.47	
Test 9 - Location/Description				%
17	Brick Paver - Mitcham bus stop (SA)	Dry	9.3	5.7
51	CobbleTac Porcelain - Black	Dry	11.37	
Test 9a - Location/Description				%
18	Brick Paver - Mitcham bus stop (SA)	Wet	9.53	3.1
52	CobbleTac Porcelain - Black	Wet	8.47	
Test 10 - Location/Description				%
19	Brick Paver Red - Monash Uni	Dry	10.71	1.8
51	CobbleTac Porcelain - Black	Dry	11.37	
Test 10a - Location/Description				%
20	Brick Paver Red - Monash Uni	Wet	9.32	2.5
52	CobbleTac Porcelain - Black	Wet	8.47	

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Test 11 - Location/Description				%
21	Brick Paver edge - Parliament Gardens	Dry	10.71	1.8
51	CobbleTac Porcelain - Black	Dry	11.37	
Test 11a - Location/Description				%
22	Brick Paver edge - Parliament Gardens	Wet	9.32	2.5
52	CobbleTac Porcelain - Black	Wet	8.47	
Test 12 - Location/Description				%
23	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Dry	10.89	1.3
51	CobbleTac Porcelain - Black	Dry	11.37	
Test 12a - Location/Description				%
24	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Wet	8.58	0.3
52	CobbleTac Porcelain - Black	Wet	8.47	
Test 13 - Location/Description				%
25	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Dry	9.62	4.8
51	CobbleTac Porcelain - Black	Dry	11.37	
Test 13a - Location/Description				%
26	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Wet	5.02	11.2
52	CobbleTac Porcelain - Black	Wet	8.47	
Test 14 - Location/Description				%
27	Bluestone Paver - mean value	Dry	12.98	4.1
51	CobbleTac Porcelain - Black	Dry	11.37	
Test 14a - Location/Description				%
28	Bluestone Paver - mean value	Wet	6.7	5.5
52	CobbleTac Porcelain - Black	Wet	8.47	
Test 15 - Location/Description				%
29	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Dry	9.77	4.3
51	CobbleTac Porcelain - Black	Dry	11.37	
Test 15a - Location/Description				%
30	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Wet	4.83	11.9
52	CobbleTac Porcelain - Black	Wet	8.47	
Test 16 - Location/Description				%
31	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Dry	12.2	2.1
51	CobbleTac Porcelain - Black	Dry	11.37	
Test 16a - Location/Description				%
32	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Wet	7.2	3.9
52	CobbleTac Porcelain - Black	Wet	8.47	

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Test 17 - Location/Description				%
33	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Dry	10.52	2.3
51	CobbleTac Porcelain - Black	Dry	11.37	
Test 17a - Location/Description				%
34	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Wet	7.29	3.6
52	CobbleTac Porcelain - Black	Wet	8.47	
Test 18 - Location/Description				%
35	Grey Granite Paver - North Tce Tram Stop (SA)	Dry	7.82	10.0
51	CobbleTac Porcelain - Black	Dry	11.37	
Test 18a - Location/Description				%
36	Grey Granite Paver - North Tce Tram Stop (SA)	Wet	4.78	12.1
52	CobbleTac Porcelain - Black	Wet	8.47	
Test 19 - Location/Description				%
37	Beige Paver - Kilkenny Station (SA)	Dry	19.08	17.4
51	CobbleTac Porcelain - Black	Dry	11.37	
Test 19a - Location/Description				%
38	Beige Paver - Kilkenny Station (SA)	Wet	15.76	18.5
52	CobbleTac Porcelain - Black	Wet	8.47	
Test 20 - Location/Description				%
Test 20a - Location/Description				%
Test 21 - Location/Description				%
Test 21a - Location/Description				%
Test 22 - Location/Description				%
Test 22a - Location/Description				%

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Testing for compliance with: NCC 2016 / AS 1488.1: 2009 / AS/NZS 1488.4.1: 2009

Formula: Luminance Contrast = $125 \times (Y_2 - Y_1) / (Y_1 + Y_2 + 25)$

AS1488.4.1 LRV Requirements:

TGSI - Integrated 30%; Discrete 47%; Composite: 60%. Measured relative to installed surface.

Stair Nosing - 30% relative to tread/landing surface

Glazing Visual Indicator - 30% relative to ground surface within 2m.

Doors - 30% between two surfaces (wall, door leaf, architrave) with min contrast 50mm

TEST RESULT KEY:

	Measured as Insufficient relative to current LRV Requirements.
	Assessed by A&A to be within an Acceptable range relative to LRV Contrast requirements.
	Measured as Meeting LRV Contrast requirements.
	Exact LRV % contrast for sample comparison.

TEST RESULTS: TGSI

Test 1 - Location/Description

			Dry	28.47	9.5
1	Plain Grey Concrete - mean value		Dry	28.47	9.5
47	CobbleTac Porcelain - Grey		Dry	22.71	

Test 1a - Location/Description

			Wet	15.32	11.5
2	Plain Grey Concrete - mean value		Wet	15.32	11.5
48	CobbleTac Porcelain - Grey		Wet	20.98	

Test 2 - Location/Description

			Dry	33.02	16.0
3	New Cured concrete - mean value		Dry	33.02	16.0
47	CobbleTac Porcelain - Grey		Dry	22.71	

Test 2a - Location/Description

			Wet	18.73	4.3
4	New Cured concrete - mean value		Wet	18.73	4.3
48	CobbleTac Porcelain - Grey		Wet	20.98	

Test 3 - Location/Description

			Dry	11.51	23.6
5	Old exp agg Concrete		Dry	11.51	23.6
47	CobbleTac Porcelain - Grey		Dry	22.71	

Test 3a - Location/Description

			Wet	7.32	32.0
6	Old exp agg Concrete		Wet	7.32	32.0
48	CobbleTac Porcelain - Grey		Wet	20.98	

Test 4 - Location/Description

			Dry	20.47	4.1
7	Concrete Coping - Kilkenny Station (SA)		Dry	20.47	4.1
47	CobbleTac Porcelain - Grey		Dry	22.71	

Test 4a - Location/Description

			Wet	10.07	24.3
8	Concrete Coping - Kilkenny Station (SA)		Wet	10.07	24.3
48	CobbleTac Porcelain - Grey		Wet	20.98	

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Test 5 - Location/Description				%
9	Light Grey Concrete - University Tram Stop North Tce (SA)	Dry	18.62	7.7
47	CobbleTac Porcelain - Grey	Dry	22.71	
Test 5a - Location/Description				%
10	Light Grey Concrete - University Tram Stop North Tce (SA)	Wet	6.61	
48	CobbleTac Porcelain - Grey	Wet	20.98	34.2
Test 6 - Location/Description				%
11	Stone Coping - Mitcham Train Station	Dry	10.76	25.5
47	CobbleTac Porcelain - Grey	Dry	22.71	
Test 6a - Location/Description				%
12	Stone Coping - Mitcham Train Station	Wet	5.31	
48	CobbleTac Porcelain - Grey	Wet	20.98	38.2
Test 7 - Location/Description				%
13	Asphalt mean value, light aggregate - Parkville	Dry	8.16	
47	CobbleTac Porcelain - Grey	Dry	22.71	32.6
Test 7a - Location/Description				%
14	Asphalt mean value, light aggregate - Parkville	Wet	3.78	
48	CobbleTac Porcelain - Grey	Wet	20.98	43.2
Test 8 - Location/Description				%
15	Asphalt dark - Parliament Gardens	Dry	4.97	
47	CobbleTac Porcelain - Grey	Dry	22.71	42.1
Test 8a - Location/Description				%
16	Asphalt dark - Parliament Gardens	Wet	3.24	
48	CobbleTac Porcelain - Grey	Wet	20.98	45.1
Test 9 - Location/Description				%
17	Brick Paver - Mitcham bus stop (SA)	Dry	9.3	
47	CobbleTac Porcelain - Grey	Dry	22.71	29.4
Test 9a - Location/Description				%
18	Brick Paver - Mitcham bus stop (SA)	Wet	9.53	
48	CobbleTac Porcelain - Grey	Wet	20.98	25.8
Test 10 - Location/Description				%
19	Brick Paver Red - Monash Uni	Dry	10.71	
47	CobbleTac Porcelain - Grey	Dry	22.71	25.7
Test 10a - Location/Description				%
20	Brick Paver Red - Monash Uni	Wet	9.32	
48	CobbleTac Porcelain - Grey	Wet	20.98	26.4

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Test 11 - Location/Description				%
21	Brick Paver edge - Parliament Gardens	Dry	10.71	25.7
47	CobbleTac Porcelain - Grey	Dry	22.71	
Test 11a - Location/Description				%
22	Brick Paver edge - Parliament Gardens	Wet	9.32	26.4
48	CobbleTac Porcelain - Grey	Wet	20.98	
Test 12 - Location/Description				%
23	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Dry	10.89	25.2
47	CobbleTac Porcelain - Grey	Dry	22.71	
Test 12a - Location/Description				%
24	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Wet	8.58	28.4
48	CobbleTac Porcelain - Grey	Wet	20.98	
Test 13 - Location/Description				%
25	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Dry	9.62	28.5
47	CobbleTac Porcelain - Grey	Dry	22.71	
Test 13a - Location/Description				%
26	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Wet	5.02	39.1
48	CobbleTac Porcelain - Grey	Wet	20.98	
Test 14 - Location/Description				%
27	Bluestone Paver - mean value	Dry	12.98	20.0
47	CobbleTac Porcelain - Grey	Dry	22.71	
Test 14a - Location/Description				%
28	Bluestone Paver - mean value	Wet	6.7	33.9
48	CobbleTac Porcelain - Grey	Wet	20.98	
Test 15 - Location/Description				%
29	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Dry	9.77	28.1
47	CobbleTac Porcelain - Grey	Dry	22.71	
Test 15a - Location/Description				%
30	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Wet	4.83	39.7
48	CobbleTac Porcelain - Grey	Wet	20.98	
Test 16 - Location/Description				%
31	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Dry	12.2	21.9
47	CobbleTac Porcelain - Grey	Dry	22.71	
Test 16a - Location/Description				%
32	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Dry	10.52	23.1
48	CobbleTac Porcelain - Grey	Wet	20.98	

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Test 17 - Location/Description				%
33	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Dry	10.52	26.2
47	CobbleTac Porcelain - Grey	Dry	22.71	
Test 17a - Location/Description				%
34	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Wet	7.29	32.1
48	CobbleTac Porcelain - Grey	Wet	20.98	
Test 18 - Location/Description				%
35	Grey Granite Paver - North Tce Tram Stop (SA)	Dry	7.82	33.5
47	CobbleTac Porcelain - Grey	Dry	22.71	
Test 18a - Location/Description				%
36	Grey Granite Paver - North Tce Tram Stop (SA)	Wet	4.78	39.9
48	CobbleTac Porcelain - Grey	Wet	20.98	
Test 19 - Location/Description				%
37	Beige Paver - Kilkenny Station (SA)	Dry	19.08	6.8
47	CobbleTac Porcelain - Grey	Dry	22.71	
Test 19a - Location/Description				%
38	Beige Paver - Kilkenny Station (SA)	Wet	15.76	10.6
48	CobbleTac Porcelain - Grey	Wet	20.98	
Test 20 - Location/Description				%
Test 20a - Location/Description				%
Test 21 - Location/Description				%
Test 21a - Location/Description				%
Test 22 - Location/Description				%
Test 22a - Location/Description				%

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Testing for compliance with: NCC 2016 / AS 1448.1: 2009 / AS/NZS 1448.4.1: 2009

Formula: Luminance Contrast = $125 \times (Y_2 - Y_1) / (Y_1 + Y_2 + 25)$

AS1448.4.1 LRV Requirements:

TGSI - Integrated 30%; Discrete 45%; Composite: 60%. Measured relative to installed surface.

Stair Nosing - 30% relative to tread/landing surface

Glazing Visual Indicator - 30% relative to ground surface within 2m.

Doors - 30% between two surfaces (wall, door leaf, architrave) with min contrast 50mm

TEST RESULT KEY:

	Measured as Insufficient relative to current LRV Requirements.
	Assessed by A&A to be within an Acceptable range relative to LRV Contrast requirements.
	Measured as Meeting LRV Contrast requirements.
	Exact LRV % contrast for sample comparison.

TEST RESULTS: TGSI

Test 1 - Location/Description

			Dry	28.47	23.6
1	Plain Grey Concrete - mean value		Dry	28.47	23.6
43	CobbleTac Porcelain - Ivory		Dry	47.58	

Test 1a - Location/Description

			Wet	15.32	43.3
2	Plain Grey Concrete - mean value		Wet	15.32	43.3
44	CobbleTac Porcelain - Ivory		Wet	44.86	

Test 2 - Location/Description

			Dry	33.02	17.2
3	New Cured concrete - mean value		Dry	33.02	17.2
43	CobbleTac Porcelain - Ivory		Dry	47.58	

Test 2a - Location/Description

			Wet	18.73	36.9
4	New Cured concrete - mean value		Wet	18.73	36.9
44	CobbleTac Porcelain - Ivory		Wet	44.86	

Test 3 - Location/Description

			Dry	11.51	53.6
5	Old exp agg Concrete		Dry	11.51	53.6
43	CobbleTac Porcelain - Ivory		Dry	47.58	

Test 3a - Location/Description

			Wet	7.32	60.8
6	Old exp agg Concrete		Wet	7.32	60.8
44	CobbleTac Porcelain - Ivory		Wet	44.86	

Test 4 - Location/Description

			Dry	20.47	36.4
7	Concrete Coping - Kilkenny Station (SA)		Dry	20.47	36.4
43	CobbleTac Porcelain - Ivory		Dry	47.58	

Test 4a - Location/Description

			Wet	10.07	54.4
8	Concrete Coping - Kilkenny Station (SA)		Wet	10.07	54.4
44	CobbleTac Porcelain - Ivory		Wet	44.86	

Testing Date: June 2022
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Conducted by: Veronica H
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Test 5 - Location/Description				%
9	Light Grey Concrete - University Tram Stop North Tce (SA)	Dry	18.62	39.7
43	CobbleTac Porcelain - Ivory	Dry	47.58	
Test 5a - Location/Description				%
10	Light Grey Concrete - University Tram Stop North Tce (SA)	Wet	6.61	62.5
44	CobbleTac Porcelain - Ivory	Wet	44.86	
Test 6 - Location/Description				%
11	Stone Coping - Mitcham Train Station	Dry	10.76	55.2
43	CobbleTac Porcelain - Ivory	Dry	47.58	
Test 6a - Location/Description				%
12	Stone Coping - Mitcham Train Station	Wet	5.31	65.8
44	CobbleTac Porcelain - Ivory	Wet	44.86	
Test 7 - Location/Description				%
13	Asphalt mean value, light aggregate - Parkville	Dry	8.16	61.0
43	CobbleTac Porcelain - Ivory	Dry	47.58	
Test 7a - Location/Description				%
14	Asphalt mean value, light aggregate - Parkville	Wet	3.78	69.7
44	CobbleTac Porcelain - Ivory	Wet	44.86	
Test 8 - Location/Description				%
15	Asphalt dark - Parliament Gardens	Dry	4.97	68.7
43	CobbleTac Porcelain - Ivory	Dry	47.58	
Test 8a - Location/Description				%
16	Asphalt dark - Parliament Gardens	Wet	3.24	71.2
44	CobbleTac Porcelain - Ivory	Wet	44.86	
Test 9 - Location/Description				%
17	Brick Paver - Mitcham bus stop (SA)	Dry	9.3	58.4
43	CobbleTac Porcelain - Ivory	Dry	47.58	
Test 9a - Location/Description				%
18	Brick Paver - Mitcham bus stop (SA)	Wet	9.53	55.6
44	CobbleTac Porcelain - Ivory	Wet	44.86	
Test 10 - Location/Description				%
19	Brick Paver Red - Monash Uni	Dry	10.71	55.3
43	CobbleTac Porcelain - Ivory	Dry	47.58	
Test 10a - Location/Description				%
20	Brick Paver Red - Monash Uni	Wet	9.32	56.1
44	CobbleTac Porcelain - Ivory	Wet	44.86	

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Test 11 - Location/Description				%
21	Brick Paver edge - Parliament Gardens	Dry	10.71	55.3
43	CobbleTac Porcelain - Ivory	Dry	47.58	

Test 11a - Location/Description				%
22	Brick Paver edge - Parliament Gardens	Wet	9.32	56.1
44	CobbleTac Porcelain - Ivory	Wet	44.86	

Test 12 - Location/Description				%
23	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Dry	10.89	54.9
43	CobbleTac Porcelain - Ivory	Dry	47.58	

Test 12a - Location/Description				%
24	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Wet	8.58	57.8
44	CobbleTac Porcelain - Ivory	Wet	44.86	

Test 13 - Location/Description				%
25	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Dry	9.62	57.7
43	CobbleTac Porcelain - Ivory	Dry	47.58	

Test 13a - Location/Description				%
26	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Wet	5.02	66.5
44	CobbleTac Porcelain - Ivory	Wet	44.86	

Test 14 - Location/Description				%
27	Bluestone Paver - mean value	Dry	12.98	50.5
43	CobbleTac Porcelain - Ivory	Dry	47.58	

Test 14a - Location/Description				%
28	Bluestone Paver - mean value	Wet	6.7	62.3
44	CobbleTac Porcelain - Ivory	Wet	44.86	

Test 15 - Location/Description				%
29	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Dry	9.77	57.4
43	CobbleTac Porcelain - Ivory	Dry	47.58	

Test 15a - Location/Description				%
30	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Wet	4.83	67.0
44	CobbleTac Porcelain - Ivory	Wet	44.86	

Test 16 - Location/Description				%
31	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Dry	12.2	52.2
43	CobbleTac Porcelain - Ivory	Dry	47.58	

Test 16a - Location/Description				%
32	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Wet	7.2	61.1
44	CobbleTac Porcelain - Ivory	Wet	44.86	

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Test 17 - Location/Description				%
33	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Dry	10.52	55.7
43	CobbleTac Porcelain - Ivory	Dry	47.58	
Test 17a - Location/Description				%
34	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Wet	7.29	60.9
44	CobbleTac Porcelain - Ivory	Wet	44.86	
Test 18 - Location/Description				%
35	Grey Granite Paver - North Tce Tram Stop (SA)	Dry	7.82	61.8
43	CobbleTac Porcelain - Ivory	Dry	47.58	
Test 18a - Location/Description				%
36	Grey Granite Paver - North Tce Tram Stop (SA)	Wet	4.78	67.1
44	CobbleTac Porcelain - Ivory	Wet	44.86	
Test 19 - Location/Description				%
37	Beige Paver - Kilkenny Station (SA)	Dry	19.08	38.9
43	CobbleTac Porcelain - Ivory	Dry	47.58	
Test 19a - Location/Description				%
38	Beige Paver - Kilkenny Station (SA)	Wet	15.76	42.5
44	CobbleTac Porcelain - Ivory	Wet	44.86	
Test 20 - Location/Description				%
Test 20a - Location/Description				%
Test 21 - Location/Description				%
Test 21a - Location/Description				%
Test 22 - Location/Description				%
Test 22a - Location/Description				%

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Testing for compliance with: NCC 2016 / AS 1468.1: 2009 / AS/NZS 1468.4.1: 2009

Formula: Luminance Contrast = $125 \times (Y_2 - Y_1) / (Y_1 + Y_2 + 25)$

AS1468.4.1 LRV Requirements:

TGSI - Integrated 30%; Discrete 45%; Composite: 60%. Measured relative to installed surface.

Stair Nosing - 30% relative to tread/landing surface

Glazing Visual Indicator - 30% relative to ground surface within 2m.

Doors - 30% between two surfaces (wall, door leaf, architrave) with min contrast 50mm

TEST RESULT KEY:

	Measured as Insufficient relative to current LRV Requirements.
	Assessed by A&A to be within an Acceptable range relative to LRV Contrast requirements.
	Measured as Meeting LRV Contrast requirements.
	Exact LRV % contrast for sample comparison.

TEST RESULTS: TGSI

Test 1 - Location/Description

			Dry	28.47	9.4
1	Plain Grey Concrete - mean value		Dry	28.47	9.4
45	CobbleTac Porcelain - Yellow		Dry	35.1	

Test 1a - Location/Description

			Wet	15.32	32.5
2	Plain Grey Concrete - mean value		Wet	15.32	32.5
46	CobbleTac Porcelain - Yellow		Wet	34.83	

Test 2 - Location/Description

			Dry	33.02	2.8
3	New Cured concrete - mean value		Dry	33.02	2.8
45	CobbleTac Porcelain - Yellow		Dry	35.1	

Test 2a - Location/Description

			Wet	18.73	25.6
4	New Cured concrete - mean value		Wet	18.73	25.6
46	CobbleTac Porcelain - Yellow		Wet	34.83	

Test 3 - Location/Description

			Dry	11.51	41.2
5	Old exp agg Concrete		Dry	11.51	41.2
45	CobbleTac Porcelain - Yellow		Dry	35.1	

Test 3a - Location/Description

			Wet	7.32	51.5
6	Old exp agg Concrete		Wet	7.32	51.5
46	CobbleTac Porcelain - Yellow		Dry	35.1	

Test 4 - Location/Description

			Dry	20.47	22.7
7	Concrete Coping - Kilkenny Station (SA)		Dry	20.47	22.7
45	CobbleTac Porcelain - Yellow		Dry	35.1	

Test 4a - Location/Description

			Wet	10.07	44.3
8	Concrete Coping - Kilkenny Station (SA)		Wet	10.07	44.3
46	CobbleTac Porcelain - Yellow		Wet	34.83	

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Test 5 - Location/Description				%
9	Light Grey Concrete - University Tram Stop North Tce (SA)	Dry	18.62	26.2
45	CobbleTac Porcelain - Yellow	Dry	35.1	
Test 5a - Location/Description				%
10	Light Grey Concrete - University Tram Stop North Tce (SA)	Wet	6.61	53.1
46	CobbleTac Porcelain - Yellow	Wet	34.83	
Test 6 - Location/Description				%
11	Stone Coping - Mitcham Train Station	Dry	10.76	42.9
45	CobbleTac Porcelain - Yellow	Dry	35.1	
Test 6a - Location/Description				%
12	Stone Coping - Mitcham Train Station	Wet	5.31	56.6
46	CobbleTac Porcelain - Yellow	Wet	34.83	
Test 7 - Location/Description				%
13	Asphalt mean value, light aggregate - Parkville	Dry	8.16	49.3
45	CobbleTac Porcelain - Yellow	Dry	35.1	
Test 7a - Location/Description				%
14	Asphalt mean value, light aggregate - Parkville	Wet	3.78	61.0
46	CobbleTac Porcelain - Yellow	Wet	34.83	
Test 8 - Location/Description				%
15	Asphalt dark - Parliament Gardens	Dry	4.97	57.9
45	CobbleTac Porcelain - Yellow	Dry	35.1	
Test 8a - Location/Description				%
16	Asphalt dark - Parliament Gardens	Wet	3.24	62.6
46	CobbleTac Porcelain - Yellow	Wet	34.83	
Test 9 - Location/Description				%
17	Brick Paver - Mitcham bus stop (SA)	Dry	9.3	46.5
45	CobbleTac Porcelain - Yellow	Dry	35.1	
Test 9a - Location/Description				%
18	Brick Paver - Mitcham bus stop (SA)	Wet	9.53	45.6
46	CobbleTac Porcelain - Yellow	Wet	34.83	
Test 10 - Location/Description				%
19	Brick Paver Red - Monash Uni	Dry	10.71	43.1
45	CobbleTac Porcelain - Yellow	Dry	35.1	
Test 10a - Location/Description				%
20	Brick Paver Red - Monash Uni	Wet	9.32	46.1
46	CobbleTac Porcelain - Yellow	Wet	34.83	

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Test 11 - Location/Description				%
21	Brick Paver edge - Parliament Gardens	Dry	10.71	43.1
45	CobbleTac Porcelain - Yellow	Dry	35.1	
Test 11a - Location/Description				%
22	Brick Paver edge - Parliament Gardens	Wet	9.32	46.1
46	CobbleTac Porcelain - Yellow	Wet	34.83	
Test 12 - Location/Description				%
23	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Dry	10.89	42.6
45	CobbleTac Porcelain - Yellow	Dry	35.1	
Test 12a - Location/Description				%
24	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Wet	8.58	48.0
46	CobbleTac Porcelain - Yellow	Wet	34.83	
Test 13 - Location/Description				%
25	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Dry	9.62	45.7
45	CobbleTac Porcelain - Yellow	Dry	35.1	
Test 13a - Location/Description				%
26	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Wet	5.02	57.5
46	CobbleTac Porcelain - Yellow	Wet	34.83	
Test 14 - Location/Description				%
27	Bluestone Paver - mean value	Dry	12.98	37.8
45	CobbleTac Porcelain - Yellow	Dry	35.1	
Test 14a - Location/Description				%
28	Bluestone Paver - mean value	Wet	6.7	52.9
46	CobbleTac Porcelain - Yellow	Wet	34.83	
Test 15 - Location/Description				%
29	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Dry	9.77	45.3
45	CobbleTac Porcelain - Yellow	Dry	35.1	
Test 15a - Location/Description				%
30	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Wet	4.83	58.0
46	CobbleTac Porcelain - Yellow	Wet	34.83	
Test 16 - Location/Description				%
31	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Wet	7.2	51.8
45	CobbleTac Porcelain - Yellow	Dry	35.1	
Test 16a - Location/Description				%
32	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Dry	10.52	72.8
46	CobbleTac Porcelain - Yellow	Wet	34.83	

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Test 17 - Location/Description				%
33	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Dry	10.52	43.5
45	CobbleTac Porcelain - Yellow	Dry	35.1	
Test 17a - Location/Description				%
34	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Wet	7.29	51.3
46	CobbleTac Porcelain - Yellow	Wet	34.83	
Test 18 - Location/Description				%
35	Grey Granite Paver - North Tce Tram Stop (SA)	Dry	7.82	50.2
45	CobbleTac Porcelain - Yellow	Dry	35.1	
Test 18a - Location/Description				%
36	Grey Granite Paver - North Tce Tram Stop (SA)	Wet	4.78	58.1
46	CobbleTac Porcelain - Yellow	Wet	34.83	
Test 19 - Location/Description				%
37	Beige Paver - Kilkenny Station (SA)	Dry	19.08	25.3
45	CobbleTac Porcelain - Yellow	Dry	35.1	
Test 19a - Location/Description				%
38	Beige Paver - Kilkenny Station (SA)	Wet	15.76	31.5
46	CobbleTac Porcelain - Yellow	Wet	34.83	
Test 20 - Location/Description				%
Test 20a - Location/Description				%
Test 21 - Location/Description				%
Test 21a - Location/Description				%
Test 22 - Location/Description				%
Test 22a - Location/Description				%

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Testing for compliance with: NCC 2016 / AS 1428.1: 2009 / AS/NZS 1428.4.1: 2009

Formula: Luminance Contrast = $125 \times (Y_2 - Y_1) / (Y_1 + Y_2 + 25)$

AS1428.4.1 LRV Requirements:

TGSI - Integrated 30%; Discrete 45%; Composite: 60%. Measured relative to installed surface.

Stair Nosing - 30% relative to tread/landing surface

Glazing Visual Indicator - 30% relative to ground surface within 2m.

Doors - 30% between two surfaces (wall, door leaf, architrave) with min contrast 50mm

TEST RESULT KEY:

	Measured as Insufficient relative to current LRV Requirements.
	Assessed by A&A to be within an Acceptable range relative to LRV Contrast requirements.
	Measured as Meeting LRV Contrast requirements.
	Exact LRV % contrast for sample comparison.

TEST RESULTS: TGSI

Test 1 - Location/Description

			Dry	28.47	51.5
1	Plain Grey Concrete - mean value		Dry	28.47	51.5
51	PolyPad - Black		Dry	4.57	

Test 1a - Location/Description

			Wet	15.32	30.0
2	Plain Grey Concrete - mean value		Wet	15.32	30.0
52	PolyPad - Black		Wet	4.55	

Test 2 - Location/Description

			Dry	33.02	56.8
3	New Cured concrete - mean value		Dry	33.02	56.8
51	PolyPad - Black		Dry	4.57	

Test 2a - Location/Description

			Wet	18.73	36.7
4	New Cured concrete - mean value		Wet	18.73	36.7
52	PolyPad - Black		Wet	4.55	

Test 3 - Location/Description

			Dry	11.51	21.1
5	Old exp agg Concrete		Dry	11.51	21.1
51	PolyPad - Black		Dry	4.57	

Test 3a - Location/Description

			Wet	7.22	9.1
6	Old exp agg Concrete		Wet	7.22	9.1
52	PolyPad - Black		Wet	4.55	

Test 4 - Location/Description

			Dry	20.47	39.7
7	Concrete Coping - Kilkenny Station (SA)		Dry	20.47	39.7
51	PolyPad - Black		Dry	4.57	

Test 4a - Location/Description

			Wet	10.07	17.4
8	Concrete Coping - Kilkenny Station (SA)		Wet	10.07	17.4
52	PolyPad - Black		Wet	4.55	

Testing Date: June 2022
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Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Test 5 - Location/Description				%
9	Light Grey Concrete - University Tram Stop North Tce (SA)	Dry	18.62	36.4
51	PolyPad - Black	Dry	4.57	
Test 5a - Location/Description				%
10	Light Grey Concrete - University Tram Stop North Tce (SA)	Wet	6.61	7.1
52	PolyPad - Black	Wet	4.55	
Test 6 - Location/Description				%
11	Stone Coping - Mitcham Train Station	Dry	10.76	19.2
51	PolyPad - Black	Dry	4.57	
Test 6a - Location/Description				%
12	Stone Coping - Mitcham Train Station	Wet	5.31	2.7
52	PolyPad - Black	Wet	4.55	
Test 7 - Location/Description				%
13	Asphalt mean value, light aggregate - Parkville	Dry	8.16	11.9
51	PolyPad - Black	Dry	4.57	
Test 7a - Location/Description				%
14	Asphalt mean value, light aggregate - Parkville	Wet	3.78	2.9
52	PolyPad - Black	Wet	4.55	
Test 8 - Location/Description				%
15	Asphalt dark - Parliament Gardens	Dry	4.97	1.4
51	PolyPad - Black	Dry	4.57	
Test 8a - Location/Description				%
16	Asphalt dark - Parliament Gardens	Wet	3.24	5.0
52	PolyPad - Black	Wet	4.55	
Test 9 - Location/Description				%
17	Brick Paver - Mitcham bus stop (SA)	Dry	9.3	15.2
51	PolyPad - Black	Dry	4.57	
Test 9a - Location/Description				%
18	Brick Paver - Mitcham bus stop (SA)	Wet	9.53	15.9
52	PolyPad - Black	Wet	4.55	
Test 10 - Location/Description				%
19	Brick Paver Red - Monash Uni	Dry	10.71	19.1
51	PolyPad - Black	Dry	4.57	
Test 10a - Location/Description				%
20	Brick Paver Red - Monash Uni	Wet	9.32	15.3
52	PolyPad - Black	Wet	4.55	

Testing Date: June 2022
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Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Test 11 - Location/Description				%
21	Brick Paver edge - Parliament Gardens	Dry	10.71	19.1
51	PolyPad - Black	Dry	4.57	

Test 11a - Location/Description				%
22	Brick Paver edge - Parliament Gardens	Wet	9.32	15.3
52	PolyPad - Black	Wet	4.55	

Test 12 - Location/Description				%
23	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Dry	10.89	19.9
51	PolyPad - Black	Dry	4.57	

Test 12a - Location/Description				%
24	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Wet	8.58	13.2
52	PolyPad - Black	Wet	4.55	

Test 13 - Location/Description				%
25	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Dry	9.62	16.1
51	PolyPad - Black	Dry	4.57	

Test 13a - Location/Description				%
26	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Wet	5.02	1.7
52	PolyPad - Black	Wet	4.55	

Test 14 - Location/Description				%
27	Bluestone Paver - mean value	Dry	12.98	24.7
51	PolyPad - Black	Dry	4.57	

Test 14a - Location/Description				%
28	Bluestone Paver - mean value	Wet	6.7	7.4
52	PolyPad - Black	Wet	4.55	

Test 15 - Location/Description				%
29	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Dry	9.77	16.5
51	PolyPad - Black	Dry	4.57	

Test 15a - Location/Description				%
30	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Wet	4.83	1.0
52	PolyPad - Black	Wet	4.55	

Test 16 - Location/Description				%
31	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Dry	12.2	22.8
51	PolyPad - Black	Dry	4.57	

Test 16a - Location/Description				%
32	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Wet	7.2	9.0
52	PolyPad - Black	Wet	4.55	

Testing Date: June 2022
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Conducted by: Veronica H
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Test 17 - Location/Description				%
33	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Dry	10.52	18.6
51	PolyPad - Black	Dry	4.57	
Test 17a - Location/Description				%
34	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Wet	7.29	9.3
52	PolyPad - Black	Wet	4.55	
Test 18 - Location/Description				%
35	Grey Granite Paver - North Tce Tram Stop (SA)	Dry	7.82	10.9
51	PolyPad - Black	Dry	4.57	
Test 18a - Location/Description				%
36	Grey Granite Paver - North Tce Tram Stop (SA)	Wet	4.78	0.8
52	PolyPad - Black	Wet	4.55	
Test 19 - Location/Description				%
37	Beige Paver - Kilkenny Station (SA)	Dry	19.08	37.3
51	PolyPad - Black	Dry	4.57	
Test 19a - Location/Description				%
38	Beige Paver - Kilkenny Station (SA)	Wet	15.76	30.9
52	PolyPad - Black	Wet	4.55	
Test 20 - Location/Description				%
Test 20a - Location/Description				%
Test 21 - Location/Description				%
Test 21a - Location/Description				%
Test 22 - Location/Description				%
Test 22a - Location/Description				%

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Testing for compliance with: NCC 2016 / AS 1428.1: 2009 / AS/NZS 1428.4.1: 2009

Formula: Luminance Contrast = $125 \times (Y_2 - Y_1) / (Y_1 + Y_2 + 25)$

AS1428.4.1 LRV Requirements:

TGSI - Integrated 30%; Discrete 45%; Composite: 60%. Measured relative to installed surface.

Stair Nosing - 30% relative to tread/landing surface

Glazing Visual Indicator - 30% relative to ground surface within 2m.

Doors - 30% between two surfaces (wall, door leaf, architrave) with min contrast 50mm

TEST RESULT KEY:

	Measured as Insufficient relative to current LRV Requirements.
	Assessed by A&A to be within an Acceptable range relative to LRV Contrast requirements.
	Measured as Meeting LRV Contrast requirements.
	Exact LRV % contrast for sample comparison.

TEST RESULTS: TGSI

Test 1 - Location/Description

			Dry	28.47	40.9
1	Plain Grey Concrete - mean value		Dry	28.47	40.9
43	PolyPad - Ivory		Dry	68.29	

Test 1a - Location/Description

			Wet	15.32	59.6
2	Plain Grey Concrete - mean value		Wet	15.32	59.6
44	PolyPad - Ivory		Wet	66.09	

Test 2 - Location/Description

			Dry	33.02	34.9
3	New Cured concrete - mean value		Dry	33.02	34.9
43	PolyPad - Ivory		Dry	68.29	

Test 2a - Location/Description

			Wet	18.73	53.9
4	New Cured concrete - mean value		Wet	18.73	53.9
44	PolyPad - Ivory		Wet	66.09	

Test 3 - Location/Description

			Dry	11.51	67.7
5	Old exp agg Concrete		Dry	11.51	67.7
43	PolyPad - Ivory		Dry	68.29	

Test 3a - Location/Description

			Wet	7.22	74.9
6	Old exp agg Concrete		Wet	7.22	74.9
44	PolyPad - Ivory		Wet	66.09	

Test 4 - Location/Description

			Dry	20.47	52.5
7	Concrete Coping - Kilkenny Station (SA)		Dry	20.47	52.5
43	PolyPad - Ivory		Dry	68.29	

Test 4a - Location/Description

			Wet	10.07	69.2
8	Concrete Coping - Kilkenny Station (SA)		Wet	10.07	69.2
44	PolyPad - Ivory		Wet	66.09	

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
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Test 5 - Location/Description				%
9	Light Grey Concrete - University Tram Stop North Tce (SA)	Dry	18.62	55.5
43	PolyPad - Ivory	Dry	68.29	
Test 5a - Location/Description				%
10	Light Grey Concrete - University Tram Stop North Tce (SA)	Wet	6.61	76.1
44	PolyPad - Ivory	Wet	66.09	
Test 6 - Location/Description				%
11	Stone Coping - Mitcham Train Station	Dry	10.76	69.1
43	PolyPad - Ivory	Dry	68.29	
Test 6a - Location/Description				%
12	Stone Coping - Mitcham Train Station	Wet	5.31	78.8
44	PolyPad - Ivory	Wet	66.09	
Test 7 - Location/Description				%
13	Asphalt mean value, light aggregate - Parkville	Dry	8.16	74.1
43	PolyPad - Ivory	Dry	68.29	
Test 7a - Location/Description				%
14	Asphalt mean value, light aggregate - Parkville	Wet	3.78	82.1
44	PolyPad - Ivory	Wet	66.09	
Test 8 - Location/Description				%
15	Asphalt dark - Parliament Gardens	Dry	4.97	80.6
43	PolyPad - Ivory	Dry	68.29	
Test 8a - Location/Description				%
16	Asphalt dark - Parliament Gardens	Wet	3.24	83.3
44	PolyPad - Ivory	Wet	66.09	
Test 9 - Location/Description				%
17	Brick Paver - Mitcham bus stop (SA)	Dry	9.3	71.9
43	PolyPad - Ivory	Dry	68.29	
Test 9a - Location/Description				%
18	Brick Paver - Mitcham bus stop (SA)	Wet	9.53	70.3
44	PolyPad - Ivory	Wet	66.09	
Test 10 - Location/Description				%
19	Brick Paver Red - Monash Uni	Dry	10.71	69.2
43	PolyPad - Ivory	Dry	68.29	
Test 10a - Location/Description				%
20	Brick Paver Red - Monash Uni	Wet	9.32	70.7
44	PolyPad - Ivory	Wet	66.09	

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Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Test 11 - Location/Description				%
21	Brick Paver edge - Parliament Gardens	Dry	10.71	69.2
43	PolyPad - Ivory	Dry	68.29	

Test 11a - Location/Description				%
22	Brick Paver edge - Parliament Gardens	Wet	9.32	70.7
44	PolyPad - Ivory	Wet	66.09	

Test 12 - Location/Description				%
23	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Dry	10.89	68.9
43	PolyPad - Ivory	Dry	68.29	

Test 12a - Location/Description				%
24	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Wet	8.58	72.1
44	PolyPad - Ivory	Wet	66.09	

Test 13 - Location/Description				%
25	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Dry	9.62	71.3
43	PolyPad - Ivory	Dry	68.29	

Test 13a - Location/Description				%
26	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Wet	5.02	79.4
44	PolyPad - Ivory	Wet	66.09	

Test 14 - Location/Description				%
27	Bluestone Paver - mean value	Dry	12.98	65.1
43	PolyPad - Ivory	Dry	68.29	

Test 14a - Location/Description				%
28	Bluestone Paver - mean value	Wet	6.7	75.9
44	PolyPad - Ivory	Wet	66.09	

Test 15 - Location/Description				%
29	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Dry	9.77	71.0
43	PolyPad - Ivory	Dry	68.29	

Test 15a - Location/Description				%
30	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Wet	4.83	79.8
44	PolyPad - Ivory	Wet	66.09	

Test 16 - Location/Description				%
31	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Dry	12.2	66.5
43	PolyPad - Ivory	Dry	68.29	

Test 16a - Location/Description				%
32	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Wet	7.2	74.9
44	PolyPad - Ivory	Wet	66.09	

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Test 17 - Location/Description				%
23	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Dry	10.89	68.9
43	PolyPad - Ivory	Dry	68.29	
Test 17a - Location/Description				%
34	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Wet	7.29	74.7
44	PolyPad - Ivory	Wet	66.09	
Test 18 - Location/Description				%
35	Grey Granite Paver - North Tce Tram Stop (SA)	Dry	7.82	74.8
43	PolyPad - Ivory	Dry	68.29	
Test 18a - Location/Description				%
36	Grey Granite Paver - North Tce Tram Stop (SA)	Wet	4.78	79.9
44	PolyPad - Ivory	Wet	66.09	
Test 19 - Location/Description				%
37	Beige Paver - Kilkenny Station (SA)	Dry	19.08	54.7
43	PolyPad - Ivory	Dry	68.29	
Test 19a - Location/Description				%
38	Beige Paver - Kilkenny Station (SA)	Wet	15.76	58.9
44	PolyPad - Ivory	Wet	66.09	
Test 20 - Location/Description				%
Test 20a - Location/Description				%
Test 21 - Location/Description				%
Test 21a - Location/Description				%
Test 22 - Location/Description				%
Test 22a - Location/Description				%

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Testing for compliance with: NCC 2016 / AS 1428.1: 2009 / AS/NZS 1428.4.1: 2009

Formula: Luminance Contrast = $125 \times (Y_2 - Y_1) / (Y_1 + Y_2 + 25)$

AS1428.4.1 LRV Requirements:

TGSI - Integrated 30%; Discrete 45%; Composite: 60%. Measured relative to installed surface.

Stair Nosing - 30% relative to tread/landing surface

Glazing Visual Indicator - 30% relative to ground surface within 2m.

Doors - 30% between two surfaces (wall, door leaf, architrave) with min contrast 50mm

TEST RESULT KEY:

	Measured as Insufficient relative to current LRV Requirements.
	Assessed by A&A to be within an Acceptable range relative to LRV Contrast requirements.
	Measured as Meeting LRV Contrast requirements.
	Exact LRV % contrast for sample comparison.

TEST RESULTS: TGSI

Test 1 - Location/Description

			Dry	28.47	10.3
1	Plain Grey Concrete - mean value		Dry	28.47	10.3
47	PolyPad - Orange		Dry	22.22	

Test 1a - Location/Description

			Wet	15.32	11.9
2	Plain Grey Concrete - mean value		Wet	15.32	11.9
48	PolyPad - Orange		Wet	21.16	

Test 2 - Location/Description

			Dry	33.02	16.8
3	New Cured concrete - mean value		Dry	33.02	16.8
47	PolyPad - Orange		Dry	22.22	

Test 2a - Location/Description

			Wet	18.73	4.7
4	New Cured concrete - mean value		Wet	18.73	4.7
48	PolyPad - Orange		Wet	21.16	

Test 3 - Location/Description

			Dry	11.51	22.8
5	Old exp agg Concrete		Dry	11.51	22.8
47	PolyPad - Orange		Dry	22.22	

Test 3a - Location/Description

			Wet	7.22	32.6
6	Old exp agg Concrete		Wet	7.22	32.6
48	PolyPad - Orange		Wet	21.16	

Test 4 - Location/Description

			Dry	20.47	3.2
7	Concrete Coping - Kilkenny Station (SA)		Dry	20.47	3.2
47	PolyPad - Orange		Dry	22.22	

Test 4a - Location/Description

			Wet	10.07	24.7
8	Concrete Coping - Kilkenny Station (SA)		Wet	10.07	24.7
48	PolyPad - Orange		Wet	21.16	

Testing Date: June 2022
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Test 5 - Location/Description				%
9	Light Grey Concrete - University Tram Stop North Tce (SA)	Dry	18.62	6.8
47	PolyPad - Orange	Dry	22.22	
Test 5a - Location/Description				%
10	Light Grey Concrete - University Tram Stop North Tce (SA)	Wet	6.61	
48	PolyPad - Orange	Wet	21.16	34.5
Test 6 - Location/Description				%
11	Stone Coping - Mitcham Train Station	Dry	10.76	24.7
47	PolyPad - Orange	Dry	22.22	
Test 6a - Location/Description				%
12	Stone Coping - Mitcham Train Station	Wet	5.31	
48	PolyPad - Orange	Wet	21.16	38.5
Test 7 - Location/Description				%
13	Asphalt mean value, light aggregate - Parkville	Dry	8.16	
47	PolyPad - Orange	Dry	22.22	31.7
Test 7a - Location/Description				%
14	Asphalt mean value, light aggregate - Parkville	Wet	3.78	
48	PolyPad - Orange	Wet	21.16	43.5
Test 8 - Location/Description				%
15	Asphalt dark - Parliament Gardens	Dry	4.97	
47	PolyPad - Orange	Dry	22.22	41.3
Test 8a - Location/Description				%
16	Asphalt dark - Parliament Gardens	Wet	3.24	
48	PolyPad - Orange	Wet	21.16	45.3
Test 9 - Location/Description				%
17	Brick Paver - Mitcham bus stop (SA)	Dry	9.3	
47	PolyPad - Orange	Dry	22.22	28.6
Test 9a - Location/Description				%
18	Brick Paver - Mitcham bus stop (SA)	Wet	9.53	
48	PolyPad - Orange	Wet	21.16	26.1
Test 10 - Location/Description				%
19	Brick Paver Red - Monash Uni	Dry	10.71	
47	PolyPad - Orange	Dry	22.22	24.8
Test 10a - Location/Description				%
20	Brick Paver Red - Monash Uni	Wet	9.32	
48	PolyPad - Orange	Wet	21.16	26.7

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Test 11 - Location/Description				%
21	Brick Paver edge - Parliament Gardens	Dry	10.71	24.8
47	PolyPad - Orange	Dry	22.22	
Test 11a - Location/Description				%
22	Brick Paver edge - Parliament Gardens	Wet	9.32	26.7
48	PolyPad - Orange	Wet	21.16	
Test 12 - Location/Description				%
23	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Dry	10.89	24.4
47	PolyPad - Orange	Dry	22.22	
Test 12a - Location/Description				%
24	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Wet	8.58	28.7
48	PolyPad - Orange	Wet	21.16	
Test 13 - Location/Description				%
25	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Dry	9.62	27.7
47	PolyPad - Orange	Dry	22.22	
Test 13a - Location/Description				%
26	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Wet	5.02	39.4
48	PolyPad - Orange	Wet	21.16	
Test 14 - Location/Description				%
27	Bluestone Paver - mean value	Dry	12.98	19.2
47	PolyPad - Orange	Dry	22.22	
Test 14a - Location/Description				%
28	Bluestone Paver - mean value	Wet	6.7	34.2
48	PolyPad - Orange	Wet	21.16	
Test 15 - Location/Description				%
29	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Dry	9.77	27.3
47	PolyPad - Orange	Dry	22.22	
Test 15a - Location/Description				%
30	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Wet	4.83	40.0
48	PolyPad - Orange	Wet	21.16	
Test 16 - Location/Description				%
31	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Dry	12.2	21.1
47	PolyPad - Orange	Dry	22.22	
Test 16a - Location/Description				%
32	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Wet	7.2	32.7
48	PolyPad - Orange	Wet	21.16	

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
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Test 17 - Location/Description				%
33	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Dry	10.52	25.3
47	PolyPad - Orange	Dry	22.22	
Test 17a - Location/Description				%
34	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Wet	7.29	32.4
48	PolyPad - Orange	Wet	21.16	
Test 18 - Location/Description				%
35	Grey Granite Paver - North Tce Tram Stop (SA)	Dry	7.82	32.7
47	PolyPad - Orange	Dry	22.22	
Test 18a - Location/Description				%
36	Grey Granite Paver - North Tce Tram Stop (SA)	Wet	4.78	40.2
48	PolyPad - Orange	Wet	21.16	
Test 19 - Location/Description				%
37	Beige Paver - Kilkenny Station (SA)	Dry	19.08	5.9
47	PolyPad - Orange	Dry	22.22	
Test 19a - Location/Description				%
38	Beige Paver - Kilkenny Station (SA)	Wet	15.76	10.9
48	PolyPad - Orange	Wet	21.16	
Test 20 - Location/Description				%
Test 20a - Location/Description				%
Test 21 - Location/Description				%
Test 21a - Location/Description				%
Test 22 - Location/Description				%
Test 22a - Location/Description				%

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Testing for compliance with: NCC 2016 / AS 1428.1: 2009 / AS/NZS 1428.4.1: 2009

Formula: Luminance Contrast = $125 \times (Y_2 - Y_1) / (Y_1 + Y_2 + 25)$

AS1428.4.1 LRV Requirements:

TGSI - Integrated 30%; Discrete 45%; Composite: 60%. Measured relative to installed surface.

Stair Nosing - 30% relative to tread/landing surface

Glazing Visual Indicator - 30% relative to ground surface within 2m.

Doors - 30% between two surfaces (wall, door leaf, architrave) with min contrast 50mm

TEST RESULT KEY:

	Measured as Insufficient relative to current LRV Requirements.
	Assessed by A&A to be within an Acceptable range relative to LRV Contrast requirements.
	Measured as Meeting LRV Contrast requirements.
	Exact LRV % contrast for sample comparison.

TEST RESULTS: TGSI

Test 1 - Location/Description

				%
1	Plain Grey Concrete - mean value	Dry	28.47	22.1
53	PolyPad - Sky Blue	Dry	46.08	

Test 1a - Location/Description

				%
2	Plain Grey Concrete - mean value	Wet	15.32	42.6
54	PolyPad - Sky Blue	Wet	44.11	

Test 2 - Location/Description

				%
3	New Cured concrete - mean value	Dry	33.02	15.7
53	PolyPad - Sky Blue	Dry	46.08	

Test 2a - Location/Description

				%
4	New Cured concrete - mean value	Wet	18.73	36.1
54	PolyPad - Sky Blue	Wet	44.11	

Test 3 - Location/Description

				%
5	Old exp agg Concrete	Dry	11.51	52.3
53	PolyPad - Sky Blue	Dry	46.08	

Test 3a - Location/Description

				%
6	Old exp agg Concrete	Wet	7.22	60.4
54	PolyPad - Sky Blue	Wet	44.11	

Test 4 - Location/Description

				%
7	Concrete Coping - Kilkenny Station (SA)	Dry	20.47	35.0
53	PolyPad - Sky Blue	Dry	46.08	

Test 4a - Location/Description

				%
8	Concrete Coping - Kilkenny Station (SA)	Wet	10.07	53.7
54	PolyPad - Sky Blue	Wet	44.11	

Testing Date: June 2022
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Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Test 5 - Location/Description				%
9	Light Grey Concrete - University Tram Stop North Tce (SA)	Dry	18.62	38.3
53	PolyPad - Sky Blue	Dry	46.08	
Test 5a - Location/Description				%
10	Light Grey Concrete - University Tram Stop North Tce (SA)	Wet	6.61	61.9
54	PolyPad - Sky Blue	Wet	44.11	
Test 6 - Location/Description				%
11	Stone Coping - Mitcham Train Station	Dry	10.76	53.9
53	PolyPad - Sky Blue	Dry	46.08	
Test 6a - Location/Description				%
12	Stone Coping - Mitcham Train Station	Wet	5.31	65.2
54	PolyPad - Sky Blue	Wet	44.11	
Test 7 - Location/Description				%
13	Asphalt mean value, light aggregate - Parkville	Dry	8.16	59.8
53	PolyPad - Sky Blue	Dry	46.08	
Test 7a - Location/Description				%
14	Asphalt mean value, light aggregate - Parkville	Wet	3.78	69.2
54	PolyPad - Sky Blue	Wet	44.11	
Test 8 - Location/Description				%
15	Asphalt dark - Parliament Gardens	Dry	4.97	67.6
53	PolyPad - Sky Blue	Dry	46.08	
Test 8a - Location/Description				%
16	Asphalt dark - Parliament Gardens	Wet	3.24	70.6
54	PolyPad - Sky Blue	Wet	44.11	
Test 9 - Location/Description				%
17	Brick Paver - Mitcham bus stop (SA)	Dry	9.3	57.2
53	PolyPad - Sky Blue	Dry	46.08	
Test 9a - Location/Description				%
18	Brick Paver - Mitcham bus stop (SA)	Wet	9.53	55.0
54	PolyPad - Sky Blue	Wet	44.11	
Test 10 - Location/Description				%
19	Brick Paver Red - Monash Uni	Dry	10.71	54.1
53	PolyPad - Sky Blue	Dry	46.08	
Test 10a - Location/Description				%
20	Brick Paver Red - Monash Uni	Wet	9.32	55.4
54	PolyPad - Sky Blue	Wet	44.11	

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Test 11 - Location/Description				%
21	Brick Paver edge - Parliament Gardens	Dry	10.71	54.1
53	PolyPad - Sky Blue	Dry	46.08	

Test 11a - Location/Description				%
22	Brick Paver edge - Parliament Gardens	Wet	9.32	55.4
54	PolyPad - Sky Blue	Wet	44.11	

Test 12 - Location/Description				%
23	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Dry	10.89	53.7
53	PolyPad - Sky Blue	Dry	46.08	

Test 12a - Location/Description				%
24	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Wet	8.58	57.2
54	PolyPad - Sky Blue	Wet	44.11	

Test 13 - Location/Description				%
25	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Dry	9.62	56.5
53	PolyPad - Sky Blue	Dry	46.08	

Test 13a - Location/Description				%
26	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Wet	5.02	65.9
54	PolyPad - Sky Blue	Wet	44.11	

Test 14 - Location/Description				%
27	Bluestone Paver - mean value	Dry	12.98	49.2
53	PolyPad - Sky Blue	Dry	46.08	

Test 14a - Location/Description				%
28	Bluestone Paver - mean value	Wet	6.7	61.7
54	PolyPad - Sky Blue	Wet	44.11	

Test 15 - Location/Description				%
29	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Dry	9.77	56.1
53	PolyPad - Sky Blue	Dry	46.08	

Test 15a - Location/Description				%
30	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Wet	4.83	66.4
54	PolyPad - Sky Blue	Wet	44.11	

Test 16 - Location/Description				%
31	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Dry	12.2	50.9
53	PolyPad - Sky Blue	Dry	46.08	

Test 16a - Location/Description				%
32	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Wet	7.2	60.5
54	PolyPad - Sky Blue	Wet	44.11	

Testing Date: June 2022
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Test 17 - Location/Description				%
33	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Dry	10.52	54.5
53	PolyPad - Sky Blue	Dry	46.08	
Test 17a - Location/Description				%
34	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Wet	7.29	60.2
54	PolyPad - Sky Blue	Wet	44.11	
Test 18 - Location/Description				%
35	Grey Granite Paver - North Tce Tram Stop (SA)	Dry	7.82	60.6
53	PolyPad - Sky Blue	Dry	46.08	
Test 18a - Location/Description				%
36	Grey Granite Paver - North Tce Tram Stop (SA)	Wet	4.78	66.5
54	PolyPad - Sky Blue	Wet	44.11	
Test 19 - Location/Description				%
37	Beige Paver - Kilkenny Station (SA)	Dry	19.08	37.4
53	PolyPad - Sky Blue	Dry	46.08	
Test 19a - Location/Description				%
38	Beige Paver - Kilkenny Station (SA)	Wet	15.76	41.8
54	PolyPad - Sky Blue	Wet	44.11	
Test 20 - Location/Description				%
Test 20a - Location/Description				%
Test 21 - Location/Description				%
Test 21a - Location/Description				%
Test 22 - Location/Description				%
Test 22a - Location/Description				%

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Testing for compliance with: NCC 2016 / AS 1428.1: 2009 / AS/NZS 1428.4.1: 2009

Formula: Luminance Contrast = $125 \times (Y_2 - Y_1) / (Y_1 + Y_2 + 25)$

AS1428.4.1 LRV Requirements:

TGSI - Integrated 30%; Discrete 45%; Composite: 60%. Measured relative to installed surface.

Stair Nosing - 30% relative to tread/landing surface

Glazing Visual Indicator - 30% relative to ground surface within 2m.

Doors - 30% between two surfaces (wall, door leaf, architrave) with min contrast 50mm

TEST RESULT KEY:

	Measured as Insufficient relative to current LRV Requirements.
	Assessed by A&A to be within an Acceptable range relative to LRV Contrast requirements.
	Measured as Meeting LRV Contrast requirements.
	Exact LRV % contrast for sample comparison.

TEST RESULTS: TGSI

Test 1 - Location/Description

			Dry	28.47	29.2
1	Plain Grey Concrete - mean value		Dry	28.47	29.2
49	PolyPad - Terracotta		Dry	12.95	

Test 1a - Location/Description

			Wet	15.32	7.1
2	Plain Grey Concrete - mean value		Wet	15.32	7.1
50	PolyPad - Terracotta		Wet	12.33	

Test 2 - Location/Description

			Dry	33.02	35.3
3	New Cured concrete - mean value		Dry	33.02	35.3
49	PolyPad - Terracotta		Dry	12.95	

Test 2a - Location/Description

			Wet	18.73	14.3
4	New Cured concrete - mean value		Wet	18.73	14.3
50	PolyPad - Terracotta		Wet	12.33	

Test 3 - Location/Description

			Dry	11.51	3.6
5	Old exp agg Concrete		Dry	11.51	3.6
49	PolyPad - Terracotta		Dry	12.95	

Test 3a - Location/Description

			Wet	7.22	14.3
6	Old exp agg Concrete		Wet	7.22	14.3
50	PolyPad - Terracotta		Wet	12.33	

Test 4 - Location/Description

			Dry	20.47	16.1
7	Concrete Coping - Kilkenny Station (SA)		Dry	20.47	16.1
49	PolyPad - Terracotta		Dry	12.95	

Test 4a - Location/Description

			Wet	10.07	6.0
8	Concrete Coping - Kilkenny Station (SA)		Wet	10.07	6.0
50	PolyPad - Terracotta		Wet	12.33	

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Test 5 - Location/Description				%
9	Light Grey Concrete - University Tram Stop North Tce (SA)	Dry	18.62	12.5
49	PolyPad - Terracotta	Dry	12.95	
Test 5a - Location/Description				%
10	Light Grey Concrete - University Tram Stop North Tce (SA)	Wet	6.61	16.3
50	PolyPad - Terracotta	Wet	12.33	
Test 6 - Location/Description				%
11	Stone Coping - Mitcham Train Station	Dry	10.76	5.6
49	PolyPad - Terracotta	Dry	12.95	
Test 6a - Location/Description				%
12	Stone Coping - Mitcham Train Station	Wet	5.31	20.6
50	PolyPad - Terracotta	Wet	12.33	
Test 7 - Location/Description				%
13	Asphalt mean value, light aggregate - Parkville	Dry	8.16	13.0
49	PolyPad - Terracotta	Dry	12.95	
Test 7a - Location/Description				%
14	Asphalt mean value, light aggregate - Parkville	Wet	3.78	26.0
50	PolyPad - Terracotta	Wet	12.33	
Test 8 - Location/Description				%
15	Asphalt dark - Parliament Gardens	Dry	4.97	23.2
49	PolyPad - Terracotta	Dry	12.95	
Test 8a - Location/Description				%
16	Asphalt dark - Parliament Gardens	Wet	3.24	28.0
50	PolyPad - Terracotta	Wet	12.33	
Test 9 - Location/Description				%
17	Brick Paver - Mitcham bus stop (SA)	Dry	9.3	9.7
49	PolyPad - Terracotta	Dry	12.95	
Test 9a - Location/Description				%
18	Brick Paver - Mitcham bus stop (SA)	Wet	9.53	7.5
50	PolyPad - Terracotta	Wet	12.33	
Test 10 - Location/Description				%
19	Brick Paver Red - Monash Uni	Dry	10.71	5.8
49	PolyPad - Terracotta	Dry	12.95	
Test 10a - Location/Description				%
20	Brick Paver Red - Monash Uni	Wet	9.32	8.1
50	PolyPad - Terracotta	Wet	12.33	

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
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Test 11 - Location/Description				%
21	Brick Paver edge - Parliament Gardens	Dry	10.71	5.8
49	PolyPad - Terracotta	Dry	12.95	
Test 11a - Location/Description				%
22	Brick Paver edge - Parliament Gardens	Wet	9.32	8.1
50	PolyPad - Terracotta	Wet	12.33	
Test 12 - Location/Description				%
23	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Dry	10.89	5.3
49	PolyPad - Terracotta	Dry	12.95	
Test 12a - Location/Description				%
24	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Wet	8.58	10.2
50	PolyPad - Terracotta	Wet	12.33	
Test 13 - Location/Description				%
25	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Dry	9.62	8.8
49	PolyPad - Terracotta	Dry	12.95	
Test 13a - Location/Description				%
26	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Wet	5.02	21.6
50	PolyPad - Terracotta	Wet	12.33	
Test 14 - Location/Description				%
27	Bluestone Paver - mean value	Dry	12.98	0.1
49	PolyPad - Terracotta	Dry	12.95	
Test 14a - Location/Description				%
28	Bluestone Paver - mean value	Wet	6.7	16.0
50	PolyPad - Terracotta	Wet	12.33	
Test 15 - Location/Description				%
29	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Dry	9.77	8.3
49	PolyPad - Terracotta	Dry	12.95	
Test 15a - Location/Description				%
30	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Wet	4.83	22.2
50	PolyPad - Terracotta	Wet	12.33	
Test 16 - Location/Description				%
31	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Dry	12.2	1.9
49	PolyPad - Terracotta	Dry	12.95	
Test 16a - Location/Description				%
32	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Wet	7.2	14.4
50	PolyPad - Terracotta	Wet	12.33	

Testing Date: June 2022
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Conducted by: Veronica H
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Test 17 - Location/Description				%
33	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Dry	10.52	6.3
49	PolyPad - Terracotta	Dry	12.95	
Test 17a - Location/Description				%
34	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Wet	7.29	14.1
50	PolyPad - Terracotta	Wet	12.33	
Test 18 - Location/Description				%
35	Grey Granite Paver - North Tce Tram Stop (SA)	Dry	7.82	14.0
49	PolyPad - Terracotta	Dry	12.95	
Test 18a - Location/Description				%
36	Grey Granite Paver - North Tce Tram Stop (SA)	Wet	4.78	22.4
50	PolyPad - Terracotta	Wet	12.33	
Test 19 - Location/Description				%
37	Beige Paver - Kilkenny Station (SA)	Dry	19.08	13.4
49	PolyPad - Terracotta	Dry	12.95	
Test 19a - Location/Description				%
38	Beige Paver - Kilkenny Station (SA)	Wet	15.76	8.1
50	PolyPad - Terracotta	Wet	12.33	
Test 20 - Location/Description				%
Test 20a - Location/Description				%
Test 21 - Location/Description				%
Test 21a - Location/Description				%
Test 22 - Location/Description				%
Test 22a - Location/Description				%

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Testing for compliance with: NCC 2016 / AS 1428.1: 2009 / AS/NZS 1428.4.1: 2009

Formula: Luminance Contrast = $125 \times (Y_2 - Y_1) / (Y_1 + Y_2 + 25)$

AS1428.4.1 LRV Requirements:

TGSI - Integrated 30%; Discrete 45%; Composite: 60%. Measured relative to installed surface.

Stair Nosing - 30% relative to tread/landing surface

Glazing Visual Indicator - 30% relative to ground surface within 2m.

Doors - 30% between two surfaces (wall, door leaf, architrave) with min contrast 50mm

TEST RESULT KEY:

	Measured as Insufficient relative to current LRV Requirements.
	Assessed by A&A to be within an Acceptable range relative to LRV Contrast requirements.
	Measured as Meeting LRV Contrast requirements.
	Exact LRV % contrast for sample comparison.

TEST RESULTS: TGSI

Test 1 - Location/Description

			Dry	28.47	20.2
1	Plain Grey Concrete - mean value		Dry	28.47	20.2
45	PolyPad - Yellow		Dry	44.25	

Test 1a - Location/Description

			Wet	15.32	41.6
2	Plain Grey Concrete - mean value		Wet	15.32	41.6
46	PolyPad - Yellow		Wet	43.12	

Test 2 - Location/Description

			Dry	33.02	13.7
3	New Cured concrete - mean value		Dry	33.02	13.7
45	PolyPad - Yellow		Dry	44.25	

Test 2a - Location/Description

			Wet	18.73	35.1
4	New Cured concrete - mean value		Wet	18.73	35.1
46	PolyPad - Yellow		Wet	43.12	

Test 3 - Location/Description

			Dry	11.51	50.7
5	Old exp agg Concrete		Dry	11.51	50.7
45	PolyPad - Yellow		Dry	44.25	

Test 3a - Location/Description

			Wet	7.22	59.6
6	Old exp agg Concrete		Wet	7.22	59.6
46	PolyPad - Yellow		Wet	43.12	

Test 4 - Location/Description

			Dry	20.47	33.1
7	Concrete Coping - Kilkenny Station (SA)		Dry	20.47	33.1
45	PolyPad - Yellow		Dry	44.25	

Test 4a - Location/Description

			Wet	10.07	52.8
8	Concrete Coping - Kilkenny Station (SA)		Wet	10.07	52.8
46	PolyPad - Yellow		Wet	43.12	

Testing Date: June 2022
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Test 5 - Location/Description				%
9	Light Grey Concrete - University Tram Stop North Tce (SA)	Dry	18.62	36.5
45	PolyPad - Yellow	Dry	44.25	
Test 5a - Location/Description				%
10	Light Grey Concrete - University Tram Stop North Tce (SA)	Wet	6.61	61.1
46	PolyPad - Yellow	Wet	43.12	
Test 6 - Location/Description				%
11	Stone Coping - Mitcham Train Station	Dry	10.76	52.3
45	PolyPad - Yellow	Dry	44.25	
Test 6a - Location/Description				%
12	Stone Coping - Mitcham Train Station	Wet	5.31	64.4
46	PolyPad - Yellow	Wet	43.12	
Test 7 - Location/Description				%
13	Asphalt mean value, light aggregate - Parkville	Dry	8.16	58.3
45	PolyPad - Yellow	Dry	44.25	
Test 7a - Location/Description				%
14	Asphalt mean value, light aggregate - Parkville	Wet	3.78	68.4
46	PolyPad - Yellow	Wet	43.12	
Test 8 - Location/Description				%
15	Asphalt dark - Parliament Gardens	Dry	4.97	66.2
45	PolyPad - Yellow	Dry	44.25	
Test 8a - Location/Description				%
16	Asphalt dark - Parliament Gardens	Wet	3.24	69.9
46	PolyPad - Yellow	Wet	43.12	
Test 9 - Location/Description				%
17	Brick Paver - Mitcham bus stop (SA)	Dry	9.3	55.6
45	PolyPad - Yellow	Dry	44.25	
Test 9a - Location/Description				%
18	Brick Paver - Mitcham bus stop (SA)	Wet	9.53	54.1
46	PolyPad - Yellow	Wet	43.12	
Test 10 - Location/Description				%
19	Brick Paver Red - Monash Uni	Dry	10.71	52.4
45	PolyPad - Yellow	Dry	44.25	
Test 10a - Location/Description				%
20	Brick Paver Red - Monash Uni	Wet	9.32	54.6
46	PolyPad - Yellow	Wet	43.12	

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Test 11 - Location/Description				%
21	Brick Paver edge - Parliament Gardens	Dry	10.71	52.4
45	PolyPad - Yellow	Dry	44.25	

Test 11a - Location/Description				%
22	Brick Paver edge - Parliament Gardens	Wet	9.32	54.6
46	PolyPad - Yellow	Wet	43.12	

Test 12 - Location/Description				%
23	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Dry	10.89	52.0
45	PolyPad - Yellow	Dry	44.25	

Test 12a - Location/Description				%
24	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Wet	8.58	56.3
46	PolyPad - Yellow	Wet	43.12	

Test 13 - Location/Description				%
25	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Dry	9.62	54.9
45	PolyPad - Yellow	Dry	44.25	

Test 13a - Location/Description				%
26	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Wet	5.02	65.1
46	PolyPad - Yellow	Wet	43.12	

Test 14 - Location/Description				%
27	Bluestone Paver - mean value	Dry	12.98	47.5
45	PolyPad - Yellow	Dry	44.25	

Test 14a - Location/Description				%
28	Bluestone Paver - mean value	Wet	6.7	60.8
46	PolyPad - Yellow	Wet	43.12	

Test 15 - Location/Description				%
29	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Dry	9.77	54.5
45	PolyPad - Yellow	Dry	44.25	

Test 15a - Location/Description				%
30	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Wet	4.83	65.6
46	PolyPad - Yellow	Wet	43.12	

Test 16 - Location/Description				%
31	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Dry	12.2	49.2
45	PolyPad - Yellow	Dry	44.25	

Test 16a - Location/Description				%
32	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Wet	7.2	59.6
46	PolyPad - Yellow	Wet	43.12	

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Test 17 - Location/Description				%
33	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Dry	10.52	52.9
45	PolyPad - Yellow	Dry	44.25	
Test 17a - Location/Description				%
34	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Wet	7.29	59.4
46	PolyPad - Yellow	Wet	43.12	
Test 18 - Location/Description				%
35	Grey Granite Paver - North Tce Tram Stop (SA)	Dry	7.82	59.1
45	PolyPad - Yellow	Dry	44.25	
Test 18a - Location/Description				%
36	Grey Granite Paver - North Tce Tram Stop (SA)	Wet	4.78	65.7
46	PolyPad - Yellow	Wet	43.12	
Test 19 - Location/Description				%
37	Beige Paver - Kilkenny Station (SA)	Dry	19.08	35.6
45	PolyPad - Yellow	Dry	44.25	
Test 19a - Location/Description				%
38	Beige Paver - Kilkenny Station (SA)	Wet	15.76	40.8
46	PolyPad - Yellow	Wet	43.12	
Test 20 - Location/Description				%
Test 20a - Location/Description				%
Test 21 - Location/Description				%
Test 21a - Location/Description				%
Test 22 - Location/Description				%
Test 22a - Location/Description				%

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Testing for compliance with: NCC 2016 / AS 1428.1: 2009 / AS/NZS 1428.4.1: 2009

Formula: Luminance Contrast = $125 \times (Y_2 - Y_1) / (Y_1 + Y_2 + 25)$

AS1428.4.1 LRV Requirements:

TGSI - Integrated 30%; Discrete 45%; Composite: 60%. Measured relative to installed surface.

Stair Nosing - 30% relative to tread/landing surface

Glazing Visual Indicator - 30% relative to ground surface within 2m.

Doors - 30% between two surfaces (wall, door leaf, architrave) with min contrast 50mm

TEST RESULT KEY:

	Measured as Insufficient relative to current LRV Requirements.
	Assessed by A&A to be within an Acceptable range relative to LRV Contrast requirements.
	Measured as Meeting LRV Contrast requirements.
	Exact LRV % contrast for sample comparison.

TEST RESULTS: TGSI

Test 1 - Location/Description

			Dry	28.47	37.1
1	Plain Grey Concrete - mean value		Dry	28.47	37.1
55	Classic Arch PVC Tiles - White		Dry	63	

Test 1a - Location/Description

			Wet	15.32	57.7
2	Plain Grey Concrete - mean value		Wet	15.32	57.7
56	Classic Arch PVC Tiles - White (not provided)		Wet	63	

Test 2 - Location/Description

			Dry	33.02	31.0
3	New Cured concrete - mean value		Dry	33.02	31.0
55	Classic Arch PVC Tiles - White		Dry	63	

Test 2a - Location/Description

			Wet	18.73	51.8
4	New Cured concrete - mean value		Wet	18.73	51.8
56	Classic Arch PVC Tiles - White (not provided)		Wet	63	

Test 3 - Location/Description

			Dry	11.51	64.7
5	Old exp agg Concrete		Dry	11.51	64.7
55	Classic Arch PVC Tiles - White		Dry	63	

Test 3a - Location/Description

			Wet	7.22	73.2
6	Old exp agg Concrete		Wet	7.22	73.2
56	Classic Arch PVC Tiles - White (not provided)		Wet	63	

Test 4 - Location/Description

			Dry	20.47	49.0
7	Concrete Coping - Kilkenny Station (SA)		Dry	20.47	49.0
55	Classic Arch PVC Tiles - White		Dry	63	

Test 4a - Location/Description

			Wet	10.07	67.5
8	Concrete Coping - Kilkenny Station (SA)		Wet	10.07	67.5
56	Classic Arch PVC Tiles - White (not provided)		Wet	63	

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Test 5 - Location/Description				%
9	Light Grey Concrete - University Tram Stop North Tce (SA)	Dry	18.62	52.0
55	Classic Arch PVC Tiles - White	Dry	63	
Test 5a - Location/Description				%
10	Light Grey Concrete - University Tram Stop North Tce (SA)	Wet	6.61	74.5
56	Classic Arch PVC Tiles - White (not provided)	Wet	63	
Test 6 - Location/Description				%
11	Stone Coping - Mitcham Train Station	Dry	10.76	66.1
55	Classic Arch PVC Tiles - White	Dry	63	
Test 6a - Location/Description				%
12	Stone Coping - Mitcham Train Station	Wet	5.31	77.3
56	Classic Arch PVC Tiles - White (not provided)	Wet	63	
Test 7 - Location/Description				%
13	Asphalt mean value, light aggregate - Parkville	Dry	8.16	71.3
55	Classic Arch PVC Tiles - White	Dry	63	
Test 7a - Location/Description				%
14	Asphalt mean value, light aggregate - Parkville	Wet	3.78	80.7
56	Classic Arch PVC Tiles - White (not provided)	Wet	63	
Test 8 - Location/Description				%
15	Asphalt dark - Parliament Gardens	Dry	4.97	78.0
55	Classic Arch PVC Tiles - White	Dry	63	
Test 8a - Location/Description				%
16	Asphalt dark - Parliament Gardens	Wet	3.24	81.9
56	Classic Arch PVC Tiles - White (not provided)	Wet	63	
Test 9 - Location/Description				%
17	Brick Paver - Mitcham bus stop (SA)	Dry	9.3	69.0
55	Classic Arch PVC Tiles - White	Dry	63	
Test 9a - Location/Description				%
18	Brick Paver - Mitcham bus stop (SA)	Wet	9.53	68.5
56	Classic Arch PVC Tiles - White (not provided)	Wet	63	
Test 10 - Location/Description				%
19	Brick Paver Red - Monash Uni	Dry	10.71	66.2
55	Classic Arch PVC Tiles - White	Dry	63	
Test 10a - Location/Description				%
20	Brick Paver Red - Monash Uni	Wet	9.32	68.9
56	Classic Arch PVC Tiles - White (not provided)	Wet	63	

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Test 11 - Location/Description				%
21	Brick Paver edge - Parliament Gardens	Dry	10.71	66.2
55	Classic Arch PVC Tiles - White	Dry	63	
Test 11a - Location/Description				%
22	Brick Paver edge - Parliament Gardens	Wet	9.32	68.9
56	Classic Arch PVC Tiles - White (not provided)	Wet	63	
Test 12 - Location/Description				%
23	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Dry	10.89	65.9
55	Classic Arch PVC Tiles - White	Dry	63	
Test 12a - Location/Description				%
24	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Wet	8.58	70.4
56	Classic Arch PVC Tiles - White (not provided)	Wet	63	
Test 13 - Location/Description				%
25	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Dry	9.62	68.4
55	Classic Arch PVC Tiles - White	Dry	63	
Test 13a - Location/Description				%
26	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Wet	5.02	77.9
56	Classic Arch PVC Tiles - White (not provided)	Wet	63	
Test 14 - Location/Description				%
27	Bluestone Paver - mean value	Dry	12.98	61.9
55	Classic Arch PVC Tiles - White	Dry	63	
Test 14a - Location/Description				%
28	Bluestone Paver - mean value	Wet	6.7	74.3
56	Classic Arch PVC Tiles - White (not provided)	Wet	63	
Test 15 - Location/Description				%
29	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Dry	9.77	68.1
55	Classic Arch PVC Tiles - White	Dry	63	
Test 15a - Location/Description				%
30	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Wet	4.83	78.3
56	Classic Arch PVC Tiles - White (not provided)	Wet	63	
Test 16 - Location/Description				%
31	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Dry	12.2	63.4
55	Classic Arch PVC Tiles - White	Dry	63	
Test 16a - Location/Description				%
32	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Wet	7.2	73.3
56	Classic Arch PVC Tiles - White (not provided)	Wet	63	

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Test 17 - Location/Description				%
23	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Dry	10.89	65.9
55	Classic Arch PVC Tiles - White	Dry	63	
Test 17a - Location/Description				%
34	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Wet	7.29	73.1
56	Classic Arch PVC Tiles - White (not provided)	Wet	63	
Test 18 - Location/Description				%
35	Grey Granite Paver - North Tce Tram Stop (SA)	Dry	7.82	72.0
55	Classic Arch PVC Tiles - White	Dry	63	
Test 18a - Location/Description				%
36	Grey Granite Paver - North Tce Tram Stop (SA)	Wet	4.78	78.4
56	Classic Arch PVC Tiles - White (not provided)	Wet	63	
Test 19 - Location/Description				%
37	Beige Paver - Kilkenny Station (SA)	Dry	19.08	51.3
55	Classic Arch PVC Tiles - White	Dry	63	
Test 19a - Location/Description				%
38	Beige Paver - Kilkenny Station (SA)	Wet	15.76	56.9
56	Classic Arch PVC Tiles - White (not provided)	Wet	63	
Test 20 - Location/Description				%
Test 20a - Location/Description				%
Test 21 - Location/Description				%
Test 21a - Location/Description				%
Test 22 - Location/Description				%
Test 22a - Location/Description				%

Testing Date: June 2022
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Client: Department of Infrastructure and Transport

Testing for compliance with: NCC 2016 / AS 1428.1: 2009 / AS/NZS 1428.4.1: 2009

Formula: Luminance Contrast = $125 \times (Y_2 - Y_1) / (Y_1 + Y_2 + 25)$

AS1428.4.1 LRV Requirements:

TGSI - Integrated 30%; Discrete 45%; Composite: 60%. Measured relative to installed surface.

Stair Nosing - 30% relative to tread/landing surface

Glazing Visual Indicator - 30% relative to ground surface within 2m.

Doors - 30% between two surfaces (wall, door leaf, architrave) with min contrast 50mm

TEST RESULT KEY:

	Measured as Insufficient relative to current LRV Requirements.
	Assessed by A&A to be within an Acceptable range relative to LRV Contrast requirements.
	Measured as Meeting LRV Contrast requirements.
	Exact LRV % contrast for sample comparison.

TEST RESULTS: TGSI

Test 1 - Location/Description

			Dry	28.47	16.6
1	Plain Grey Concrete - mean value		Dry	28.47	16.6
53	CA PVC Tiles - Yellow		Dry	41	

Test 1a - Location/Description

			Wet	15.32	39.5
2	Plain Grey Concrete - mean value		Wet	15.32	39.5
54	CA PVC Tiles - Yellow (not provided)		Wet	41	

Test 2 - Location/Description

			Dry	33.02	10.1
3	New Cured concrete - mean value		Dry	33.02	10.1
53	CA PVC Tiles - Yellow		Dry	41	

Test 2a - Location/Description

			Wet	18.73	32.9
4	New Cured concrete - mean value		Wet	18.73	32.9
54	CA PVC Tiles - Yellow (not provided)		Wet	41	

Test 3 - Location/Description

			Dry	11.51	47.6
5	Old exp agg Concrete		Dry	11.51	47.6
53	CA PVC Tiles - Yellow		Dry	41	

Test 3a - Location/Description

			Wet	7.22	57.7
6	Old exp agg Concrete		Wet	7.22	57.7
54	CA PVC Tiles - Yellow (not provided)		Wet	41	

Test 4 - Location/Description

			Dry	20.47	29.7
7	Concrete Coping - Kilkenny Station (SA)		Dry	20.47	29.7
53	CA PVC Tiles - Yellow		Dry	41	

Test 4a - Location/Description

			Wet	10.07	50.8
8	Concrete Coping - Kilkenny Station (SA)		Wet	10.07	50.8
54	CA PVC Tiles - Yellow (not provided)		Wet	41	

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Test 5 - Location/Description				%
9	Light Grey Concrete - University Tram Stop North Tce (SA)	Dry	18.62	33.1
53	CA PVC Tiles - Yellow	Dry	41	
Test 5a - Location/Description				%
10	Light Grey Concrete - University Tram Stop North Tce (SA)	Wet	6.61	59.2
54	CA PVC Tiles - Yellow (not provided)	Wet	41	
Test 6 - Location/Description				%
11	Stone Coping - Mitcham Train Station	Dry	10.76	49.2
53	CA PVC Tiles - Yellow	Dry	41	
Test 6a - Location/Description				%
12	Stone Coping - Mitcham Train Station	Wet	5.31	62.6
54	CA PVC Tiles - Yellow (not provided)	Wet	41	
Test 7 - Location/Description				%
13	Asphalt mean value, light aggregate - Parkville	Dry	8.16	55.4
53	CA PVC Tiles - Yellow	Dry	41	
Test 7a - Location/Description				%
14	Asphalt mean value, light aggregate - Parkville	Wet	3.78	66.7
54	CA PVC Tiles - Yellow (not provided)	Wet	41	
Test 8 - Location/Description				%
15	Asphalt dark - Parliament Gardens	Dry	4.97	63.5
53	CA PVC Tiles - Yellow	Dry	41	
Test 8a - Location/Description				%
16	Asphalt dark - Parliament Gardens	Wet	3.24	68.2
54	CA PVC Tiles - Yellow (not provided)	Wet	41	
Test 9 - Location/Description				%
17	Brick Paver - Mitcham bus stop (SA)	Dry	9.3	52.6
53	CA PVC Tiles - Yellow	Dry	41	
Test 9a - Location/Description				%
18	Brick Paver - Mitcham bus stop (SA)	Wet	9.53	52.1
54	CA PVC Tiles - Yellow (not provided)	Wet	41	
Test 10 - Location/Description				%
19	Brick Paver Red - Monash Uni	Dry	10.71	49.4
53	CA PVC Tiles - Yellow	Dry	41	
Test 10a - Location/Description				%
20	Brick Paver Red - Monash Uni	Wet	9.32	52.6
54	CA PVC Tiles - Yellow (not provided)	Wet	41	

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Test 11 - Location/Description				%
21	Brick Paver edge - Parliament Gardens	Dry	10.71	49.4
53	CA PVC Tiles - Yellow	Dry	41	

Test 11a - Location/Description				%
22	Brick Paver edge - Parliament Gardens	Wet	9.32	
54	CA PVC Tiles - Yellow (not provided)	Wet	41	52.6

Test 12 - Location/Description				%
23	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Dry	10.89	
53	CA PVC Tiles - Yellow	Dry	41	48.9

Test 12a - Location/Description				%
24	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Wet	8.58	
54	CA PVC Tiles - Yellow (not provided)	Wet	41	54.3

Test 13 - Location/Description				%
25	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Dry	9.62	
53	CA PVC Tiles - Yellow	Dry	41	51.9

Test 13a - Location/Description				%
26	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Wet	5.02	
54	CA PVC Tiles - Yellow (not provided)	Wet	41	63.3

Test 14 - Location/Description				%
27	Bluestone Paver - mean value	Dry	12.98	
53	CA PVC Tiles - Yellow	Dry	41	44.3

Test 14a - Location/Description				%
28	Bluestone Paver - mean value	Wet	6.7	
54	CA PVC Tiles - Yellow (not provided)	Wet	41	59.0

Test 15 - Location/Description				%
29	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Dry	9.77	
53	CA PVC Tiles - Yellow	Dry	41	51.5

Test 15a - Location/Description				%
30	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Wet	4.83	
54	CA PVC Tiles - Yellow (not provided)	Wet	41	63.8

Test 16 - Location/Description				%
31	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Dry	12.2	
53	CA PVC Tiles - Yellow	Dry	41	46.0

Test 16a - Location/Description				%
32	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Wet	7.2	
54	CA PVC Tiles - Yellow (not provided)	Wet	41	57.7

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Test 17 - Location/Description				%
33	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Dry	10.52	49.8
53	CA PVC Tiles - Yellow	Dry	41	
Test 17a - Location/Description				%
34	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Wet	7.29	57.5
54	CA PVC Tiles - Yellow (not provided)	Wet	41	
Test 18 - Location/Description				%
35	Grey Granite Paver - North Tce Tram Stop (SA)	Dry	7.82	56.2
53	CA PVC Tiles - Yellow	Dry	41	
Test 18a - Location/Description				%
36	Grey Granite Paver - North Tce Tram Stop (SA)	Wet	4.78	64.0
54	CA PVC Tiles - Yellow (not provided)	Wet	41	
Test 19 - Location/Description				%
37	Beige Paver - Kilkenny Station (SA)	Dry	19.08	32.2
53	CA PVC Tiles - Yellow	Dry	41	
Test 19a - Location/Description				%
38	Beige Paver - Kilkenny Station (SA)	Wet	15.76	38.6
54	CA PVC Tiles - Yellow (not provided)	Wet	41	
Test 20 - Location/Description				%
Test 20a - Location/Description				%
Test 21 - Location/Description				%
Test 21a - Location/Description				%
Test 22 - Location/Description				%
Test 22a - Location/Description				%

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Testing for compliance with: NCC 2016 / AS 1428.1: 2009 / AS/NZS 1428.4.1: 2009

Formula: Luminance Contrast = $125 \times (Y_2 - Y_1) / (Y_1 + Y_2 + 25)$

AS1428.4.1 LRV Requirements:

TGSI - Integrated 30%; Discrete 45%; Composite: 60%. Measured relative to installed surface.

Stair Nosing - 30% relative to tread/landing surface

Glazing Visual Indicator - 30% relative to ground surface within 2m.

Doors - 30% between two surfaces (wall, door leaf, architrave) with min contrast 50mm

TEST RESULT KEY:

	Measured as Insufficient relative to current LRV Requirements.
	Assessed by A&A to be within an Acceptable range relative to LRV Contrast requirements.
	Measured as Meeting LRV Contrast requirements.
	Exact LRV % contrast for sample comparison.

TEST RESULTS: TGSI

Test 1 - Location/Description

			Dry	28.47	43.8
1	Plain Grey Concrete - mean value		Dry	28.47	43.8
43	CTA Polytile - Ivory		Dry	72.72	

Test 1a - Location/Description

			Wet	15.32	63.2
2	Plain Grey Concrete - mean value		Wet	15.32	63.2
44	CTA Polytile - Ivory		Wet	72.17	

Test 2 - Location/Description

			Dry	33.02	38.0
3	New Cured concrete - mean value		Dry	33.02	38.0
43	CTA Polytile - Ivory		Dry	72.72	

Test 2a - Location/Description

			Wet	18.73	57.6
4	New Cured concrete - mean value		Wet	18.73	57.6
44	CTA Polytile - Ivory		Wet	72.17	

Test 3 - Location/Description

			Dry	11.51	70.0
5	Old exp agg Concrete		Dry	11.51	70.0
43	CTA Polytile - Ivory		Dry	72.72	

Test 3a - Location/Description

			Wet	7.22	77.8
6	Old exp agg Concrete		Wet	7.22	77.8
44	CTA Polytile - Ivory		Wet	72.17	

Test 4 - Location/Description

			Dry	20.47	55.3
7	Concrete Coping - Kilkenny Station (SA)		Dry	20.47	55.3
43	CTA Polytile - Ivory		Dry	72.72	

Test 4a - Location/Description

			Wet	10.07	72.4
8	Concrete Coping - Kilkenny Station (SA)		Wet	10.07	72.4
44	CTA Polytile - Ivory		Wet	72.17	

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Test 5 - Location/Description				%
9	Light Grey Concrete - University Tram Stop North Tce (SA)	Dry	18.62	58.1
43	CTA Polytile - Ivory	Dry	72.72	
Test 5a - Location/Description				%
10	Light Grey Concrete - University Tram Stop North Tce (SA)	Wet	6.61	79.0
44	CTA Polytile - Ivory	Wet	72.17	
Test 6 - Location/Description				%
11	Stone Coping - Mitcham Train Station	Dry	10.76	71.4
43	CTA Polytile - Ivory	Dry	72.72	
Test 6a - Location/Description				%
12	Stone Coping - Mitcham Train Station	Wet	5.31	81.6
44	CTA Polytile - Ivory	Wet	72.17	
Test 7 - Location/Description				%
13	Asphalt mean value, light aggregate - Parkville	Dry	8.16	76.2
43	CTA Polytile - Ivory	Dry	72.72	
Test 7a - Location/Description				%
14	Asphalt mean value, light aggregate - Parkville	Wet	3.78	84.7
44	CTA Polytile - Ivory	Wet	72.17	
Test 8 - Location/Description				%
15	Asphalt dark - Parliament Gardens	Dry	4.97	82.5
43	CTA Polytile - Ivory	Dry	72.72	
Test 8a - Location/Description				%
16	Asphalt dark - Parliament Gardens	Wet	3.24	85.8
44	CTA Polytile - Ivory	Wet	72.17	
Test 9 - Location/Description				%
17	Brick Paver - Mitcham bus stop (SA)	Dry	9.3	74.1
43	CTA Polytile - Ivory	Dry	72.72	
Test 9a - Location/Description				%
18	Brick Paver - Mitcham bus stop (SA)	Wet	9.53	73.4
44	CTA Polytile - Ivory	Wet	72.17	
Test 10 - Location/Description				%
19	Brick Paver Red - Monash Uni	Dry	10.71	71.5
43	CTA Polytile - Ivory	Dry	72.72	
Test 10a - Location/Description				%
20	Brick Paver Red - Monash Uni	Wet	9.32	73.8
44	CTA Polytile - Ivory	Wet	72.17	

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Test 11 - Location/Description				%
21	Brick Paver edge - Parliament Gardens	Dry	10.71	71.5
43	CTA Polytile - Ivory	Dry	72.72	

Test 11a - Location/Description				%
22	Brick Paver edge - Parliament Gardens	Wet	9.32	73.8
44	CTA Polytile - Ivory	Wet	72.17	

Test 12 - Location/Description				%
23	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Dry	10.89	71.2
43	CTA Polytile - Ivory	Dry	72.72	

Test 12a - Location/Description				%
24	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Wet	8.58	75.2
44	CTA Polytile - Ivory	Wet	72.17	

Test 13 - Location/Description				%
25	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Dry	9.62	73.5
43	CTA Polytile - Ivory	Dry	72.72	

Test 13a - Location/Description				%
26	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Wet	5.02	82.1
44	CTA Polytile - Ivory	Wet	72.17	

Test 14 - Location/Description				%
27	Bluestone Paver - mean value	Dry	12.98	67.5
43	CTA Polytile - Ivory	Dry	72.72	

Test 14a - Location/Description				%
28	Bluestone Paver - mean value	Wet	6.7	78.8
44	CTA Polytile - Ivory	Wet	72.17	

Test 15 - Location/Description				%
29	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Dry	9.77	73.2
43	CTA Polytile - Ivory	Dry	72.72	

Test 15a - Location/Description				%
30	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Wet	4.83	82.5
44	CTA Polytile - Ivory	Wet	72.17	

Test 16 - Location/Description				%
31	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Dry	12.2	68.8
43	CTA Polytile - Ivory	Dry	72.72	

Test 16a - Location/Description				%
32	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Wet	7.2	77.8
44	CTA Polytile - Ivory	Wet	72.17	

Testing Date: June 2022
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Test 17 - Location/Description				%
23	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Dry	10.89	71.2
43	CTA Polytile - Ivory	Dry	72.72	
Test 17a - Location/Description				%
34	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Wet	7.29	77.6
44	CTA Polytile - Ivory	Wet	72.17	
Test 18 - Location/Description				%
35	Grey Granite Paver - North Tce Tram Stop (SA)	Dry	7.82	76.9
43	CTA Polytile - Ivory	Dry	72.72	
Test 18a - Location/Description				%
36	Grey Granite Paver - North Tce Tram Stop (SA)	Wet	4.78	82.6
44	CTA Polytile - Ivory	Wet	72.17	
Test 19 - Location/Description				%
37	Beige Paver - Kilkenny Station (SA)	Dry	19.08	57.4
43	CTA Polytile - Ivory	Dry	72.72	
Test 19a - Location/Description				%
38	Beige Paver - Kilkenny Station (SA)	Wet	15.76	62.4
44	CTA Polytile - Ivory	Wet	72.17	
Test 20 - Location/Description				%
Test 20a - Location/Description				%
Test 21 - Location/Description				%
Test 21a - Location/Description				%
Test 22 - Location/Description				%
Test 22a - Location/Description				%

Testing Date: June 2022
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Client: Department of Infrastructure and Transport

Testing for compliance with: NCC 2016 / AS 1428.1: 2009 / AS/NZS 1428.4.1: 2009

Formula: Luminance Contrast = $125 \times (Y_2 - Y_1) / (Y_1 + Y_2 + 25)$

AS1428.4.1 LRV Requirements:

TGSI - Integrated 30%; Discrete 45%; Composite: 60%. Measured relative to installed surface.

Stair Nosing - 30% relative to tread/landing surface

Glazing Visual Indicator - 30% relative to ground surface within 2m.

Doors - 30% between two surfaces (wall, door leaf, architrave) with min contrast 50mm

TEST RESULT KEY:

	Measured as Insufficient relative to current LRV Requirements.
	Assessed by A&A to be within an Acceptable range relative to LRV Contrast requirements.
	Measured as Meeting LRV Contrast requirements.
%	Exact LRV % contrast for sample comparison.

TEST RESULTS: TGSI

Test 1 - Location/Description

			Dry	28.47	36.2
1	Plain Grey Concrete - mean value		Dry	28.47	36.2
43	CTA Polytile - Yellow		Dry	61.82	

Test 1a - Location/Description

			Wet	15.32	56.3
2	Plain Grey Concrete - mean value		Wet	15.32	56.3
44	CTA Polytile - Yellow		Wet	60.95	

Test 2 - Location/Description

			Dry	33.02	30.0
3	New Cured concrete - mean value		Dry	33.02	30.0
43	CTA Polytile - Yellow		Dry	61.82	

Test 2a - Location/Description

			Wet	18.73	50.4
4	New Cured concrete - mean value		Wet	18.73	50.4
44	CTA Polytile - Yellow		Wet	60.95	

Test 3 - Location/Description

			Dry	11.51	64.0
5	Old exp agg Concrete		Dry	11.51	64.0
43	CTA Polytile - Yellow		Dry	61.82	

Test 3a - Location/Description

			Wet	7.22	72.1
6	Old exp agg Concrete		Wet	7.22	72.1
44	CTA Polytile - Yellow		Wet	60.95	

Test 4 - Location/Description

			Dry	20.47	48.2
7	Concrete Coping - Kilkenny Station (SA)		Dry	20.47	48.2
43	CTA Polytile - Yellow		Dry	61.82	

Test 4a - Location/Description

			Wet	10.07	66.2
8	Concrete Coping - Kilkenny Station (SA)		Wet	10.07	66.2
44	CTA Polytile - Yellow		Wet	60.95	

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Test 5 - Location/Description				%
9	Light Grey Concrete - University Tram Stop North Tce (SA)	Dry	18.62	51.2
43	CTA Polytile - Yellow	Dry	61.82	
Test 5a - Location/Description				%
10	Light Grey Concrete - University Tram Stop North Tce (SA)	Wet	6.61	73.4
44	CTA Polytile - Yellow	Wet	60.95	
Test 6 - Location/Description				%
11	Stone Coping - Mitcham Train Station	Dry	10.76	65.4
43	CTA Polytile - Yellow	Dry	61.82	
Test 6a - Location/Description				%
12	Stone Coping - Mitcham Train Station	Wet	5.31	76.2
44	CTA Polytile - Yellow	Wet	60.95	
Test 7 - Location/Description				%
13	Asphalt mean value, light aggregate - Parkville	Dry	8.16	70.6
43	CTA Polytile - Yellow	Dry	61.82	
Test 7a - Location/Description				%
14	Asphalt mean value, light aggregate - Parkville	Wet	3.78	79.6
44	CTA Polytile - Yellow	Wet	60.95	
Test 8 - Location/Description				%
15	Asphalt dark - Parliament Gardens	Dry	4.97	77.4
43	CTA Polytile - Yellow	Dry	61.82	
Test 8a - Location/Description				%
16	Asphalt dark - Parliament Gardens	Wet	3.24	80.9
44	CTA Polytile - Yellow	Wet	60.95	
Test 9 - Location/Description				%
17	Brick Paver - Mitcham bus stop (SA)	Dry	9.3	68.3
43	CTA Polytile - Yellow	Dry	61.82	
Test 9a - Location/Description				%
18	Brick Paver - Mitcham bus stop (SA)	Wet	9.53	67.3
44	CTA Polytile - Yellow	Wet	60.95	
Test 10 - Location/Description				%
19	Brick Paver Red - Monash Uni	Dry	10.71	65.5
43	CTA Polytile - Yellow	Dry	61.82	
Test 10a - Location/Description				%
20	Brick Paver Red - Monash Uni	Wet	9.32	67.7
44	CTA Polytile - Yellow	Wet	60.95	

Testing Date: June 2022
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Conducted by: Veronica H
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Test 11 - Location/Description				%
21	Brick Paver edge - Parliament Gardens	Dry	10.71	65.5
43	CTA Polytile - Yellow	Dry	61.82	

Test 11a - Location/Description				%
22	Brick Paver edge - Parliament Gardens	Wet	9.32	67.7
44	CTA Polytile - Yellow	Wet	60.95	

Test 12 - Location/Description				%
23	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Dry	10.89	65.2
43	CTA Polytile - Yellow	Dry	61.82	

Test 12a - Location/Description				%
24	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Wet	8.58	69.3
44	CTA Polytile - Yellow	Wet	60.95	

Test 13 - Location/Description				%
25	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Dry	9.62	67.7
43	CTA Polytile - Yellow	Dry	61.82	

Test 13a - Location/Description				%
26	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Wet	5.02	76.9
44	CTA Polytile - Yellow	Wet	60.95	

Test 14 - Location/Description				%
27	Bluestone Paver - mean value	Dry	12.98	61.2
43	CTA Polytile - Yellow	Dry	61.82	

Test 14a - Location/Description				%
28	Bluestone Paver - mean value	Wet	6.7	73.2
44	CTA Polytile - Yellow	Wet	60.95	

Test 15 - Location/Description				%
29	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Dry	9.77	67.4
43	CTA Polytile - Yellow	Dry	61.82	

Test 15a - Location/Description				%
30	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Wet	4.83	77.3
44	CTA Polytile - Yellow	Wet	60.95	

Test 16 - Location/Description				%
31	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Dry	12.2	62.6
43	CTA Polytile - Yellow	Dry	61.82	

Test 16a - Location/Description				%
32	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Wet	7.2	72.1
44	CTA Polytile - Yellow	Wet	60.95	

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Conducted by: Veronica H
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Test 17 - Location/Description				%
23	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Dry	10.89	65.2
43	CTA Polytile - Yellow	Dry	61.82	
Test 17a - Location/Description				%
34	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Wet	7.29	71.9
44	CTA Polytile - Yellow	Wet	60.95	
Test 18 - Location/Description				%
35	Grey Granite Paver - North Tce Tram Stop (SA)	Dry	7.82	71.3
43	CTA Polytile - Yellow	Dry	61.82	
Test 18a - Location/Description				%
36	Grey Granite Paver - North Tce Tram Stop (SA)	Wet	4.78	77.4
44	CTA Polytile - Yellow	Wet	60.95	
Test 19 - Location/Description				%
37	Beige Paver - Kilkenny Station (SA)	Dry	19.08	50.4
43	CTA Polytile - Yellow	Dry	61.82	
Test 19a - Location/Description				%
38	Beige Paver - Kilkenny Station (SA)	Wet	15.76	55.5
44	CTA Polytile - Yellow	Wet	60.95	
Test 20 - Location/Description				%
Test 20a - Location/Description				%
Test 21 - Location/Description				%
Test 21a - Location/Description				%
Test 22 - Location/Description				%
Test 22a - Location/Description				%

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Testing for compliance with: NCC 2016 / AS 1428.1: 2009 / AS/NZS 1428.4.1: 2009

Formula: Luminance Contrast = $125 \times (Y_2 - Y_1) / (Y_1 + Y_2 + 25)$

AS1428.4.1 LRV Requirements:

TGSI - Integrated 30%; Discrete 45%; Composite: 60%. Measured relative to installed surface.

Stair Nosing - 30% relative to tread/landing surface

Glazing Visual Indicator - 30% relative to ground surface within 2m.

Doors - 30% between two surfaces (wall, door leaf, architrave) with min contrast 50mm

TEST RESULT KEY:

	Measured as Insufficient relative to current LRV Requirements.
	Assessed by A&A to be within an Acceptable range relative to LRV Contrast requirements.
	Measured as Meeting LRV Contrast requirements.
	Exact LRV % contrast for sample comparison.

TEST RESULTS: TGSI

Test 1 - Location/Description

			Dry	28.47	36.7
1	Plain Grey Concrete - mean value		Dry	28.47	36.7
51	DTAC Ultimat - Ivory		Dry	62.5	

Test 1a - Location/Description

			Wet	15.32	57.3
2	Plain Grey Concrete - mean value		Wet	15.32	57.3
52	DTAC Ultimat - Ivory		Wet	62.4	

Test 2 - Location/Description

			Dry	33.02	30.6
3	New Cured concrete - mean value		Dry	33.02	30.6
51	DTAC Ultimat - Ivory		Dry	62.5	

Test 2a - Location/Description

			Wet	18.73	51.4
4	New Cured concrete - mean value		Wet	18.73	51.4
52	DTAC Ultimat - Ivory		Wet	62.4	

Test 3 - Location/Description

			Dry	11.51	64.4
5	Old exp agg Concrete		Dry	11.51	64.4
51	DTAC Ultimat - Ivory		Dry	62.5	

Test 3a - Location/Description

			Wet	7.22	72.9
6	Old exp agg Concrete		Wet	7.22	72.9
52	DTAC Ultimat - Ivory		Wet	62.4	

Test 4 - Location/Description

			Dry	20.47	48.7
7	Concrete Coping - Kilkenny Station (SA)		Dry	20.47	48.7
51	DTAC Ultimat - Ivory		Dry	62.5	

Test 4a - Location/Description

			Wet	10.07	67.1
8	Concrete Coping - Kilkenny Station (SA)		Wet	10.07	67.1
52	DTAC Ultimat - Ivory		Wet	62.4	

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Test 5 - Location/Description				%
9	Light Grey Concrete - University Tram Stop North Tce (SA)	Dry	18.62	51.7
51	DTAC Ultimat - Ivory	Dry	62.5	
Test 5a - Location/Description				%
10	Light Grey Concrete - University Tram Stop North Tce (SA)	Wet	6.61	74.2
52	DTAC Ultimat - Ivory	Wet	62.4	
Test 6 - Location/Description				%
11	Stone Coping - Mitcham Train Station	Dry	10.76	65.8
51	DTAC Ultimat - Ivory	Dry	62.5	
Test 6a - Location/Description				%
12	Stone Coping - Mitcham Train Station	Wet	5.31	77.0
52	DTAC Ultimat - Ivory	Wet	62.4	
Test 7 - Location/Description				%
13	Asphalt mean value, light aggregate - Parkville	Dry	8.16	71.0
51	DTAC Ultimat - Ivory	Dry	62.5	
Test 7a - Location/Description				%
14	Asphalt mean value, light aggregate - Parkville	Wet	3.78	80.4
52	DTAC Ultimat - Ivory	Wet	62.4	
Test 8 - Location/Description				%
15	Asphalt dark - Parliament Gardens	Dry	4.97	77.8
51	DTAC Ultimat - Ivory	Dry	62.5	
Test 8a - Location/Description				%
16	Asphalt dark - Parliament Gardens	Wet	3.24	81.6
52	DTAC Ultimat - Ivory	Wet	62.4	
Test 9 - Location/Description				%
17	Brick Paver - Mitcham bus stop (SA)	Dry	9.3	68.7
51	DTAC Ultimat - Ivory	Dry	62.5	
Test 9a - Location/Description				%
18	Brick Paver - Mitcham bus stop (SA)	Wet	9.53	68.2
52	DTAC Ultimat - Ivory	Wet	62.4	
Test 10 - Location/Description				%
19	Brick Paver Red - Monash Uni	Dry	10.71	65.9
51	DTAC Ultimat - Ivory	Dry	62.5	
Test 10a - Location/Description				%
20	Brick Paver Red - Monash Uni	Wet	9.32	68.6
52	DTAC Ultimat - Ivory	Wet	62.4	

Testing Date: June 2022
Report Date: June 2022
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Test 11 - Location/Description				%
21	Brick Paver edge - Parliament Gardens	Dry	10.71	65.9
51	DTAC Ultimat - Ivory	Dry	62.5	

Test 11a - Location/Description				%
22	Brick Paver edge - Parliament Gardens	Wet	9.32	68.6
52	DTAC Ultimat - Ivory	Wet	62.4	

Test 12 - Location/Description				%
23	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Dry	10.89	65.9
51	DTAC Ultimat - Ivory	Dry	62.5	

Test 12a - Location/Description				%
24	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Wet	8.58	70.1
52	DTAC Ultimat - Ivory	Wet	62.4	

Test 13 - Location/Description				%
25	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Dry	9.62	68.1
51	DTAC Ultimat - Ivory	Dry	62.5	

Test 13a - Location/Description				%
26	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Wet	5.02	77.6
52	DTAC Ultimat - Ivory	Wet	62.4	

Test 14 - Location/Description				%
27	Bluestone Paver - mean value	Dry	12.98	61.6
51	DTAC Ultimat - Ivory	Dry	62.5	

Test 14a - Location/Description				%
28	Bluestone Paver - mean value	Wet	6.7	74.0
52	DTAC Ultimat - Ivory	Wet	62.4	

Test 15 - Location/Description				%
29	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Dry	9.77	67.8
51	DTAC Ultimat - Ivory	Dry	62.5	

Test 15a - Location/Description				%
30	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Wet	4.83	78.0
52	DTAC Ultimat - Ivory	Wet	62.4	

Test 16 - Location/Description				%
31	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Dry	12.2	63.1
51	DTAC Ultimat - Ivory	Dry	62.5	

Test 16a - Location/Description				%
32	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Wet	7.2	72.9
52	DTAC Ultimat - Ivory	Wet	62.4	

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Report Date: June 2022
Conducted by: Veronica H
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Test 17 - Location/Description				%
33	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Dry	10.52	66.3
51	DTAC Ultimat - Ivory	Dry	62.5	
Test 17a - Location/Description				%
34	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Wet	7.29	72.8
52	DTAC Ultimat - Ivory	Wet	62.4	
Test 18 - Location/Description				%
35	Grey Granite Paver - North Tce Tram Stop (SA)	Dry	7.82	71.7
51	DTAC Ultimat - Ivory	Dry	62.5	
Test 18a - Location/Description				%
36	Grey Granite Paver - North Tce Tram Stop (SA)	Wet	4.78	78.1
52	DTAC Ultimat - Ivory	Wet	62.4	
Test 19 - Location/Description				%
37	Beige Paver - Kilkenny Station (SA)	Dry	19.08	50.9
51	DTAC Ultimat - Ivory	Dry	62.5	
Test 19a - Location/Description				%
38	Beige Paver - Kilkenny Station (SA)	Wet	15.76	56.5
52	DTAC Ultimat - Ivory	Wet	62.4	
Test 20 - Location/Description				%
Test 20a - Location/Description				%
Test 21 - Location/Description				%
Test 21a - Location/Description				%
Test 22 - Location/Description				%
Test 22a - Location/Description				%

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Testing for compliance with: NCC 2016 / AS 1428.1: 2009 / AS/NZS 1428.4.1: 2009

Formula: Luminance Contrast = $125 \times (Y_2 - Y_1) / (Y_1 + Y_2 + 25)$

AS1428.4.1 LRV Requirements:

TGSI - Integrated 30%; Discrete 45%; Composite: 60%. Measured relative to installed surface.

Stair Nosing - 30% relative to tread/landing surface

Glazing Visual Indicator - 30% relative to ground surface within 2m.

Doors - 30% between two surfaces (wall, door leaf, architrave) with min contrast 50mm

TEST RESULT KEY:

	Measured as Insufficient relative to current LRV Requirements.
	Assessed by A&A to be within an Acceptable range relative to LRV Contrast requirements.
	Measured as Meeting LRV Contrast requirements.
	Exact LRV % contrast for sample comparison.

TEST RESULTS: TGSI

Test 1 - Location/Description

			Dry	28.47	52.1
1	Plain Grey Concrete - mean value		Dry	28.47	52.1
53	DTAC Ultimat - White		Dry	87	

Test 1a - Location/Description

			Wet	15.32	70.2
2	Plain Grey Concrete - mean value		Wet	15.32	70.2
54	DTAC Ultimat - White		Wet	86.7	

Test 2 - Location/Description

			Dry	33.02	46.5
3	New Cured concrete - mean value		Dry	33.02	46.5
53	DTAC Ultimat - White		Dry	87	

Test 2a - Location/Description

			Wet	18.73	65.1
4	New Cured concrete - mean value		Wet	18.73	65.1
54	DTAC Ultimat - White		Wet	86.7	

Test 3 - Location/Description

			Dry	11.51	76.4
5	Old exp agg Concrete		Dry	11.51	76.4
53	DTAC Ultimat - White		Dry	87	

Test 3a - Location/Description

			Wet	7.22	83.5
6	Old exp agg Concrete		Wet	7.22	83.5
54	DTAC Ultimat - White		Wet	86.7	

Test 4 - Location/Description

			Dry	20.47	62.8
7	Concrete Coping - Kilkenny Station (SA)		Dry	20.47	62.8
53	DTAC Ultimat - White		Dry	87	

Test 4a - Location/Description

			Wet	10.07	78.7
8	Concrete Coping - Kilkenny Station (SA)		Wet	10.07	78.7
54	DTAC Ultimat - White		Wet	86.7	

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
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Test 5 - Location/Description				%
9	Light Grey Concrete - University Tram Stop North Tce (SA)	Dry	18.62	65.4
53	DTAC Ultimat - White	Dry	87	
Test 5a - Location/Description				%
10	Light Grey Concrete - University Tram Stop North Tce (SA)	Wet	6.61	84.6
54	DTAC Ultimat - White	Wet	86.7	
Test 6 - Location/Description				%
11	Stone Coping - Mitcham Train Station	Dry	10.76	77.6
53	DTAC Ultimat - White	Dry	87	
Test 6a - Location/Description				%
12	Stone Coping - Mitcham Train Station	Wet	5.31	86.9
54	DTAC Ultimat - White	Wet	86.7	
Test 7 - Location/Description				%
13	Asphalt mean value, light aggregate - Parkville	Dry	8.16	82.0
53	DTAC Ultimat - White	Dry	87	
Test 7a - Location/Description				%
14	Asphalt mean value, light aggregate - Parkville	Wet	3.78	89.8
54	DTAC Ultimat - White	Wet	86.7	
Test 8 - Location/Description				%
15	Asphalt dark - Parliament Gardens	Dry	4.97	87.7
53	DTAC Ultimat - White	Dry	87	
Test 8a - Location/Description				%
16	Asphalt dark - Parliament Gardens	Wet	3.24	90.8
54	DTAC Ultimat - White	Wet	86.7	
Test 9 - Location/Description				%
17	Brick Paver - Mitcham bus stop (SA)	Dry	9.3	80.1
53	DTAC Ultimat - White	Dry	87	
Test 9a - Location/Description				%
18	Brick Paver - Mitcham bus stop (SA)	Wet	9.53	79.6
54	DTAC Ultimat - White	Wet	86.7	
Test 10 - Location/Description				%
19	Brick Paver Red - Monash Uni	Dry	10.71	77.7
53	DTAC Ultimat - White	Dry	87	
Test 10a - Location/Description				%
20	Brick Paver Red - Monash Uni	Wet	9.32	79.9
54	DTAC Ultimat - White	Wet	86.7	

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
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Test 11 - Location/Description				%
21	Brick Paver edge - Parliament Gardens	Dry	10.71	77.7
53	DTAC Ultimat - White	Dry	87	

Test 11a - Location/Description				%
22	Brick Paver edge - Parliament Gardens	Wet	9.32	79.9
54	DTAC Ultimat - White	Wet	86.7	

Test 12 - Location/Description				%
23	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Dry	10.89	77.4
53	DTAC Ultimat - White	Dry	87	

Test 12a - Location/Description				%
24	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Wet	8.58	81.2
54	DTAC Ultimat - White	Wet	86.7	

Test 13 - Location/Description				%
25	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Dry	9.62	79.5
53	DTAC Ultimat - White	Dry	87	

Test 13a - Location/Description				%
26	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Wet	5.02	87.5
54	DTAC Ultimat - White	Wet	86.7	

Test 14 - Location/Description				%
27	Bluestone Paver - mean value	Dry	12.98	74.0
53	DTAC Ultimat - White	Dry	87	

Test 14a - Location/Description				%
28	Bluestone Paver - mean value	Wet	6.7	84.5
54	DTAC Ultimat - White	Wet	86.7	

Test 15 - Location/Description				%
29	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Dry	9.77	79.3
53	DTAC Ultimat - White	Dry	87	

Test 15a - Location/Description				%
30	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Wet	4.83	87.8
54	DTAC Ultimat - White	Wet	86.7	

Test 16 - Location/Description				%
31	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Dry	12.2	75.3
53	DTAC Ultimat - White	Dry	87	

Test 16a - Location/Description				%
32	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Wet	7.2	83.6
54	DTAC Ultimat - White	Wet	86.7	

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Test 17 - Location/Description				%
33	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Dry	10.52	78.0
53	DTAC Ultimat - White	Dry	87	
Test 17a - Location/Description				%
34	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Wet	7.29	83.4
54	DTAC Ultimat - White	Wet	86.7	
Test 18 - Location/Description				%
35	Grey Granite Paver - North Tce Tram Stop (SA)	Dry	7.82	82.6
53	DTAC Ultimat - White	Dry	87	
Test 18a - Location/Description				%
36	Grey Granite Paver - North Tce Tram Stop (SA)	Wet	4.78	87.9
54	DTAC Ultimat - White	Wet	86.7	
Test 19 - Location/Description				%
37	Beige Paver - Kilkenny Station (SA)	Dry	19.08	64.8
53	DTAC Ultimat - White	Dry	87	
Test 19a - Location/Description				%
38	Beige Paver - Kilkenny Station (SA)	Wet	15.76	69.6
54	DTAC Ultimat - White	Wet	86.7	
Test 20 - Location/Description				%
Test 20a - Location/Description				%
Test 21 - Location/Description				%
Test 21a - Location/Description				%
Test 22 - Location/Description				%
Test 22a - Location/Description				%

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Testing for compliance with: NCC 2016 / AS 1428.1: 2009 / AS/NZS 1428.4.1: 2009

Formula: Luminance Contrast = $125 \times (Y_2 - Y_1) / (Y_1 + Y_2 + 25)$

AS1428.4.1 LRV Requirements:

TGSI - Integrated 30%; Discrete 45%; Composite: 60%. Measured relative to installed surface.

Stair Nosing - 30% relative to tread/landing surface

Glazing Visual Indicator - 30% relative to ground surface within 2m.

Doors - 30% between two surfaces (wall, door leaf, architrave) with min contrast 50mm

TEST RESULT KEY:

	Measured as Insufficient relative to current LRV Requirements.
	Assessed by A&A to be within an Acceptable range relative to LRV Contrast requirements.
	Measured as Meeting LRV Contrast requirements.
	Exact LRV % contrast for sample comparison.

TEST RESULTS: TGSI

Test 1 - Location/Description

			Dry	28.47	39.1
1	Plain Grey Concrete - mean value		Dry	28.47	39.1
51	DTAC Ultimat - Yellow		Dry	65.71	

Test 1a - Location/Description

			Wet	15.32	59.9
2	Plain Grey Concrete - mean value		Wet	15.32	59.9
52	DTAC Ultimat - Yellow		Wet	66.51	

Test 2 - Location/Description

			Dry	33.02	33.0
3	New Cured concrete - mean value		Dry	33.02	33.0
51	DTAC Ultimat - Yellow		Dry	65.71	

Test 2a - Location/Description

			Wet	18.73	54.2
4	New Cured concrete - mean value		Wet	18.73	54.2
52	DTAC Ultimat - Yellow		Wet	66.51	

Test 3 - Location/Description

			Dry	11.51	66.3
5	Old exp agg Concrete		Dry	11.51	66.3
51	DTAC Ultimat - Yellow		Dry	65.71	

Test 3a - Location/Description

			Wet	7.22	75.1
6	Old exp agg Concrete		Wet	7.22	75.1
52	DTAC Ultimat - Yellow		Wet	66.51	

Test 4 - Location/Description

			Dry	20.47	50.9
7	Concrete Coping - Kilkenny Station (SA)		Dry	20.47	50.9
51	DTAC Ultimat - Yellow		Dry	65.71	

Test 4a - Location/Description

			Wet	10.07	69.5
8	Concrete Coping - Kilkenny Station (SA)		Wet	10.07	69.5
52	DTAC Ultimat - Yellow		Wet	66.51	

Testing Date: June 2022
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Client: Department of Infrastructure and Transport

Test 5 - Location/Description				%
9	Light Grey Concrete - University Tram Stop North Tce (SA)	Dry	18.62	53.8
51	DTAC Ultimat - Yellow	Dry	65.71	
Test 5a - Location/Description				%
10	Light Grey Concrete - University Tram Stop North Tce (SA)	Wet	6.61	76.3
52	DTAC Ultimat - Yellow	Wet	66.51	
Test 6 - Location/Description				%
11	Stone Coping - Mitcham Train Station	Dry	10.76	67.7
51	DTAC Ultimat - Yellow	Dry	65.71	
Test 6a - Location/Description				%
12	Stone Coping - Mitcham Train Station	Wet	5.31	79.0
52	DTAC Ultimat - Yellow	Wet	66.51	
Test 7 - Location/Description				%
13	Asphalt mean value, light aggregate - Parkville	Dry	8.16	72.8
51	DTAC Ultimat - Yellow	Dry	65.71	
Test 7a - Location/Description				%
14	Asphalt mean value, light aggregate - Parkville	Wet	3.78	82.3
52	DTAC Ultimat - Yellow	Wet	66.51	
Test 8 - Location/Description				%
15	Asphalt dark - Parliament Gardens	Dry	4.97	79.4
51	DTAC Ultimat - Yellow	Dry	65.71	
Test 8a - Location/Description				%
16	Asphalt dark - Parliament Gardens	Wet	3.24	83.5
52	DTAC Ultimat - Yellow	Wet	66.51	
Test 9 - Location/Description				%
17	Brick Paver - Mitcham bus stop (SA)	Dry	9.3	70.5
51	DTAC Ultimat - Yellow	Dry	65.71	
Test 9a - Location/Description				%
18	Brick Paver - Mitcham bus stop (SA)	Wet	9.53	70.5
52	DTAC Ultimat - Yellow	Wet	66.51	
Test 10 - Location/Description				%
19	Brick Paver Red - Monash Uni	Dry	10.71	67.8
51	DTAC Ultimat - Yellow	Dry	65.71	
Test 10a - Location/Description				%
20	Brick Paver Red - Monash Uni	Wet	9.32	70.9
52	DTAC Ultimat - Yellow	Wet	66.51	

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Test 11 - Location/Description				%
21	Brick Paver edge - Parliament Gardens	Dry	10.71	67.8
51	DTAC Ultimat - Yellow	Dry	65.71	

Test 11a - Location/Description				%
22	Brick Paver edge - Parliament Gardens	Wet	9.32	70.9
52	DTAC Ultimat - Yellow	Wet	66.51	

Test 12 - Location/Description				%
23	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Dry	10.89	67.4
51	DTAC Ultimat - Yellow	Dry	65.71	

Test 12a - Location/Description				%
24	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Wet	8.58	72.3
52	DTAC Ultimat - Yellow	Wet	66.51	

Test 13 - Location/Description				%
25	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Dry	9.62	69.9
51	DTAC Ultimat - Yellow	Dry	65.71	

Test 13a - Location/Description				%
26	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Wet	5.02	79.6
52	DTAC Ultimat - Yellow	Wet	66.51	

Test 14 - Location/Description				%
27	Bluestone Paver - mean value	Dry	12.98	63.6
51	DTAC Ultimat - Yellow	Dry	65.71	

Test 14a - Location/Description				%
28	Bluestone Paver - mean value	Wet	6.7	76.1
52	DTAC Ultimat - Yellow	Wet	66.51	

Test 15 - Location/Description				%
29	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Dry	9.77	69.6
51	DTAC Ultimat - Yellow	Dry	65.71	

Test 15a - Location/Description				%
30	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Wet	4.83	80.0
52	DTAC Ultimat - Yellow	Wet	66.51	

Test 16 - Location/Description				%
31	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Dry	12.2	65.0
51	DTAC Ultimat - Yellow	Dry	65.71	

Test 16a - Location/Description				%
32	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Wet	7.2	75.1
52	DTAC Ultimat - Yellow	Wet	66.51	

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Test 17 - Location/Description				%
33	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Dry	10.52	68.1
51	DTAC Ultimat - Yellow	Dry	65.71	
Test 17a - Location/Description				%
34	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Wet	7.29	74.9
52	DTAC Ultimat - Yellow	Wet	66.51	
Test 18 - Location/Description				%
35	Grey Granite Paver - North Tce Tram Stop (SA)	Dry	7.82	73.4
51	DTAC Ultimat - Yellow	Dry	65.71	
Test 18a - Location/Description				%
36	Grey Granite Paver - North Tce Tram Stop (SA)	Wet	4.78	80.1
52	DTAC Ultimat - Yellow	Wet	66.51	
Test 19 - Location/Description				%
37	Beige Paver - Kilkenny Station (SA)	Dry	19.08	53.1
51	DTAC Ultimat - Yellow	Dry	65.71	
Test 19a - Location/Description				%
38	Beige Paver - Kilkenny Station (SA)	Wet	15.76	59.1
52	DTAC Ultimat - Yellow	Wet	66.51	
Test 20 - Location/Description				%
Test 20a - Location/Description				%
Test 21 - Location/Description				%
Test 21a - Location/Description				%
Test 22 - Location/Description				%
Test 22a - Location/Description				%

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Testing for compliance with: NCC 2016 / AS 1428.1: 2009 / AS/NZS 1428.4.1: 2009

Formula: Luminance Contrast = $125 \times (Y_2 - Y_1) / (Y_1 + Y_2 + 25)$

AS1428.4.1 LRV Requirements:

TGSI - Integrated 30%; Discrete 45%; Composite: 60%. Measured relative to installed surface.

Stair Nosing - 30% relative to tread/landing surface

Glazing Visual Indicator - 30% relative to ground surface within 2m.

Doors - 30% between two surfaces (wall, door leaf, architrave) with min contrast 50mm

TEST RESULT KEY:

	Measured as Insufficient relative to current LRV Requirements.
	Assessed by A&A to be within an Acceptable range relative to LRV Contrast requirements.
	Measured as Meeting LRV Contrast requirements.
	Exact LRV % contrast for sample comparison.

TEST RESULTS: TGSI

Test 1 - Location/Description

				%
1	Plain Grey Concrete - mean value	Dry	28.47	41.6
49	ESP VPC - White	Dry	69.32	

Test 1a - Location/Description

				%
2	Plain Grey Concrete - mean value	Wet	15.32	61.6
50	ESP VPC - White (not provided)	Wet	69.32	

Test 2 - Location/Description

				%
3	New Cured concrete - mean value	Dry	33.02	35.6
49	ESP VPC - White	Dry	69.32	

Test 2a - Location/Description

				%
4	New Cured concrete - mean value	Wet	18.73	55.9
50	ESP VPC - White (not provided)	Wet	69.32	

Test 3 - Location/Description

				%
5	Old exp agg Concrete	Dry	11.51	68.3
49	ESP VPC - White	Dry	69.32	

Test 3a - Location/Description

				%
6	Old exp agg Concrete	Wet	7.22	76.4
50	ESP VPC - White (not provided)	Wet	69.32	

Test 4 - Location/Description

				%
7	Concrete Coping - Kilkenny Station (SA)	Dry	20.47	53.2
49	ESP VPC - White	Dry	69.32	

Test 4a - Location/Description

				%
8	Concrete Coping - Kilkenny Station (SA)	Wet	10.07	70.9
50	ESP VPC - White (not provided)	Wet	69.32	

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Test 5 - Location/Description				%
9	Light Grey Concrete - University Tram Stop North Tce (SA)	Dry	18.62	56.1
49	ESP VPC - White	Dry	69.32	
Test 5a - Location/Description				%
10	Light Grey Concrete - University Tram Stop North Tce (SA)	Wet	6.61	
50	ESP VPC - White (not provided)	Wet	69.32	77.7
Test 6 - Location/Description				%
11	Stone Coping - Mitcham Train Station	Dry	10.76	
49	ESP VPC - White	Dry	69.32	69.7
Test 6a - Location/Description				%
12	Stone Coping - Mitcham Train Station	Wet	5.31	
50	ESP VPC - White (not provided)	Wet	69.32	80.3
Test 7 - Location/Description				%
13	Asphalt mean value, light aggregate - Parkville	Dry	8.16	
49	ESP VPC - White	Dry	69.32	74.6
Test 7a - Location/Description				%
14	Asphalt mean value, light aggregate - Parkville	Wet	3.78	
50	ESP VPC - White (not provided)	Wet	69.32	83.5
Test 8 - Location/Description				%
15	Asphalt dark - Parliament Gardens	Dry	4.97	
49	ESP VPC - White	Dry	69.32	81.0
Test 8a - Location/Description				%
16	Asphalt dark - Parliament Gardens	Wet	3.24	
50	ESP VPC - White (not provided)	Wet	69.32	84.7
Test 9 - Location/Description				%
17	Brick Paver - Mitcham bus stop (SA)	Dry	9.3	
49	ESP VPC - White	Dry	69.32	72.4
Test 9a - Location/Description				%
18	Brick Paver - Mitcham bus stop (SA)	Wet	9.53	
50	ESP VPC - White (not provided)	Wet	69.32	72.0
Test 10 - Location/Description				%
19	Brick Paver Red - Monash Uni	Dry	10.71	
49	ESP VPC - White	Dry	69.32	69.8
Test 10a - Location/Description				%
20	Brick Paver Red - Monash Uni	Wet	9.32	
50	ESP VPC - White (not provided)	Wet	69.32	72.4

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Test 11 - Location/Description				%
21	Brick Paver edge - Parliament Gardens	Dry	10.71	69.8
49	ESP VPC - White	Dry	69.32	

Test 11a - Location/Description				%
22	Brick Paver edge - Parliament Gardens	Wet	9.32	
50	ESP VPC - White (not provided)	Wet	69.32	72.4

Test 12 - Location/Description				%
23	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Dry	10.89	
49	ESP VPC - White	Dry	69.32	69.4

Test 12a - Location/Description				%
24	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Wet	8.58	
50	ESP VPC - White (not provided)	Wet	69.32	73.8

Test 13 - Location/Description				%
25	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Dry	9.62	
49	ESP VPC - White	Dry	69.32	71.8

Test 13a - Location/Description				%
26	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Wet	5.02	
50	ESP VPC - White (not provided)	Wet	69.32	80.9

Test 14 - Location/Description				%
27	Bluestone Paver - mean value	Dry	12.98	
49	ESP VPC - White	Dry	69.32	65.6

Test 14a - Location/Description				%
28	Bluestone Paver - mean value	Wet	6.7	
50	ESP VPC - White (not provided)	Wet	69.32	77.5

Test 15 - Location/Description				%
29	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Dry	9.77	
49	ESP VPC - White	Dry	69.32	71.5

Test 15a - Location/Description				%
30	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Wet	4.83	
50	ESP VPC - White (not provided)	Wet	69.32	81.3

Test 16 - Location/Description				%
31	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Dry	12.2	
49	ESP VPC - White	Dry	69.32	67.0

Test 16a - Location/Description				%
32	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Wet	7.2	
50	ESP VPC - White (not provided)	Wet	69.32	76.5

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Test 17 - Location/Description				%
33	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Dry	10.52	70.1
49	ESP VPC - White	Dry	69.32	
Test 17a - Location/Description				%
34	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Wet	7.29	76.3
50	ESP VPC - White (not provided)	Wet	69.32	
Test 18 - Location/Description				%
35	Grey Granite Paver - North Tce Tram Stop (SA)	Dry	7.82	75.3
49	ESP VPC - White	Dry	69.32	
Test 18a - Location/Description				%
36	Grey Granite Paver - North Tce Tram Stop (SA)	Wet	4.78	81.4
50	ESP VPC - White (not provided)	Wet	69.32	
Test 19 - Location/Description				%
37	Beige Paver - Kilkenny Station (SA)	Dry	19.08	55.4
49	ESP VPC - White	Dry	69.32	
Test 19a - Location/Description				%
38	Beige Paver - Kilkenny Station (SA)	Wet	15.76	60.8
50	ESP VPC - White (not provided)	Wet	69.32	
Test 20 - Location/Description				%
Test 20a - Location/Description				%
Test 21 - Location/Description				%
Test 21a - Location/Description				%
Test 22 - Location/Description				%
Test 22a - Location/Description				%

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Testing for compliance with: NCC 2016 / AS 1428.1: 2009 / AS/NZS 1428.4.1: 2009

Formula: Luminance Contrast = $125 \times (Y_2 - Y_1) / (Y_1 + Y_2 + 25)$

AS1428.4.1 LRV Requirements:

TGSI - Integrated 30%; Discrete 45%; Composite: 60%. Measured relative to installed surface.

Stair Nosing - 30% relative to tread/landing surface

Glazing Visual Indicator - 30% relative to ground surface within 2m.

Doors - 30% between two surfaces (wall, door leaf, architrave) with min contrast 50mm

TEST RESULT KEY:

	Measured as Insufficient relative to current LRV Requirements.
	Assessed by A&A to be within an Acceptable range relative to LRV Contrast requirements.
	Measured as Meeting LRV Contrast requirements.
	Exact LRV % contrast for sample comparison.

TEST RESULTS: TGSI

Test 1 - Location/Description

			Dry	28.47	23.9
1	Plain Grey Concrete - mean value		Dry	28.47	23.9
49	ESP VPC - Yellow		Dry	47.83	

Test 1a - Location/Description

			Wet	15.32	46.1
2	Plain Grey Concrete - mean value		Wet	15.32	46.1
50	ESP VPC - Yellow (not provided)		Wet	47.83	

Test 2 - Location/Description

			Dry	33.02	17.5
3	New Cured concrete - mean value		Dry	33.02	17.5
49	ESP VPC - Yellow		Dry	47.83	

Test 2a - Location/Description

			Wet	18.73	39.7
4	New Cured concrete - mean value		Wet	18.73	39.7
50	ESP VPC - Yellow (not provided)		Wet	47.83	

Test 3 - Location/Description

			Dry	11.51	53.8
5	Old exp agg Concrete		Dry	11.51	53.8
49	ESP VPC - Yellow		Dry	47.83	

Test 3a - Location/Description

			Wet	7.22	63.4
6	Old exp agg Concrete		Wet	7.22	63.4
50	ESP VPC - Yellow (not provided)		Wet	47.83	

Test 4 - Location/Description

			Dry	20.47	36.7
7	Concrete Coping - Kilkenny Station (SA)		Dry	20.47	36.7
49	ESP VPC - Yellow		Dry	47.83	

Test 4a - Location/Description

			Wet	10.07	56.9
8	Concrete Coping - Kilkenny Station (SA)		Wet	10.07	56.9
50	ESP VPC - Yellow (not provided)		Wet	47.83	

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Test 5 - Location/Description				%
9	Light Grey Concrete - University Tram Stop North Tce (SA)	Dry	18.62	39.9
49	ESP VPC - Yellow	Dry	47.83	
Test 5a - Location/Description				%
10	Light Grey Concrete - University Tram Stop North Tce (SA)	Wet	6.61	
50	ESP VPC - Yellow (not provided)	Wet	47.83	64.9
Test 6 - Location/Description				%
11	Stone Coping - Mitcham Train Station	Dry	10.76	
49	ESP VPC - Yellow	Dry	47.83	55.4
Test 6a - Location/Description				%
12	Stone Coping - Mitcham Train Station	Wet	5.31	
50	ESP VPC - Yellow (not provided)	Wet	47.83	68.0
Test 7 - Location/Description				%
13	Asphalt mean value, light aggregate - Parkville	Dry	8.16	
49	ESP VPC - Yellow	Dry	47.83	61.2
Test 7a - Location/Description				%
14	Asphalt mean value, light aggregate - Parkville	Wet	3.78	
50	ESP VPC - Yellow (not provided)	Wet	47.83	71.9
Test 8 - Location/Description				%
15	Asphalt dark - Parliament Gardens	Dry	4.97	
49	ESP VPC - Yellow	Dry	47.83	68.9
Test 8a - Location/Description				%
16	Asphalt dark - Parliament Gardens	Wet	3.24	
50	ESP VPC - Yellow (not provided)	Wet	47.83	73.3
Test 9 - Location/Description				%
17	Brick Paver - Mitcham bus stop (SA)	Dry	9.3	
49	ESP VPC - Yellow	Dry	47.83	58.6
Test 9a - Location/Description				%
18	Brick Paver - Mitcham bus stop (SA)	Wet	9.53	
50	ESP VPC - Yellow (not provided)	Wet	47.83	58.1
Test 10 - Location/Description				%
19	Brick Paver Red - Monash Uni	Dry	10.71	
49	ESP VPC - Yellow	Dry	47.83	55.5
Test 10a - Location/Description				%
20	Brick Paver Red - Monash Uni	Wet	9.32	
50	ESP VPC - Yellow (not provided)	Wet	47.83	58.6

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Test 11 - Location/Description				%
21	Brick Paver edge - Parliament Gardens	Dry	10.71	55.5
49	ESP VPC - Yellow	Dry	47.83	

Test 11a - Location/Description				%
22	Brick Paver edge - Parliament Gardens	Wet	9.32	
50	ESP VPC - Yellow (not provided)	Wet	47.83	58.6

Test 12 - Location/Description				%
23	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Dry	10.89	
49	ESP VPC - Yellow	Dry	47.83	55.2

Test 12a - Location/Description				%
24	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Wet	8.58	
50	ESP VPC - Yellow (not provided)	Wet	47.83	60.3

Test 13 - Location/Description				%
25	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Dry	9.62	
49	ESP VPC - Yellow	Dry	47.83	57.9

Test 13a - Location/Description				%
26	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Wet	5.02	
50	ESP VPC - Yellow (not provided)	Wet	47.83	68.7

Test 14 - Location/Description				%
27	Bluestone Paver - mean value	Dry	12.98	
49	ESP VPC - Yellow	Dry	47.83	50.8

Test 14a - Location/Description				%
28	Bluestone Paver - mean value	Wet	6.7	
50	ESP VPC - Yellow (not provided)	Wet	47.83	64.6

Test 15 - Location/Description				%
29	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Dry	9.77	
49	ESP VPC - Yellow	Dry	47.83	57.6

Test 15a - Location/Description				%
30	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Wet	4.83	
50	ESP VPC - Yellow (not provided)	Wet	47.83	69.2

Test 16 - Location/Description				%
31	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Dry	12.2	
49	ESP VPC - Yellow	Dry	47.83	52.4

Test 16a - Location/Description				%
32	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Wet	7.2	
50	ESP VPC - Yellow (not provided)	Wet	47.83	63.5

Testing Date: June 2022
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Conducted by: Veronica H
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Test 17 - Location/Description				%
33	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Dry	10.52	56.0
49	ESP VPC - Yellow	Dry	47.83	
Test 17a - Location/Description				%
34	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Wet	7.29	
50	ESP VPC - Yellow (not provided)	Wet	47.83	63.2
Test 18 - Location/Description				%
35	Grey Granite Paver - North Tce Tram Stop (SA)	Dry	7.82	
49	ESP VPC - Yellow	Dry	47.83	62.0
Test 18a - Location/Description				%
36	Grey Granite Paver - North Tce Tram Stop (SA)	Wet	4.78	
50	ESP VPC - Yellow (not provided)	Wet	47.83	69.3
Test 19 - Location/Description				%
37	Beige Paver - Kilkenny Station (SA)	Dry	19.08	
49	ESP VPC - Yellow	Dry	47.83	39.1
Test 19a - Location/Description				%
38	Beige Paver - Kilkenny Station (SA)	Wet	15.76	
50	ESP VPC - Yellow (not provided)	Wet	47.83	45.3
Test 20 - Location/Description				%
Test 20a - Location/Description				%
Test 21 - Location/Description				%
Test 21a - Location/Description				%
Test 22 - Location/Description				%
Test 22a - Location/Description				%

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Testing for compliance with: NCC 2016 / AS 1428.1: 2009 / AS/NZS 1428.4.1: 2009

Formula: Luminance Contrast = $125 \times (Y_2 - Y_1) / (Y_1 + Y_2 + 25)$

AS1428.4.1 LRV Requirements:

TGSI - Integrated 30%; Discrete 45%; Composite: 60%. Measured relative to installed surface.

Stair Nosing - 30% relative to tread/landing surface

Glazing Visual Indicator - 30% relative to ground surface within 2m.

Doors - 30% between two surfaces (wall, door leaf, architrave) with min contrast 50mm

TEST RESULT KEY:

Red	Measured as Insufficient relative to current LRV Requirements.
Yellow	Assessed by A&A to be within an Acceptable range relative to LRV Contrast requirements.
Green	Measured as Meeting LRV Contrast requirements.
%	Exact LRV % contrast for sample comparison.

TEST RESULTS: TGSI

Test 1 - Location/Description

			Dry	28.47	40.7
1	Plain Grey Concrete - mean value		Dry	28.47	40.7
55	Pathfinder Polyurethane mat - Yellow		Dry	68	

Test 1a - Location/Description

			Wet	15.32	60.8
2	Plain Grey Concrete - mean value		Wet	15.32	60.8
56	Pathfinder Polyurethane mat - Yellow (not provided)		Wet	68	

Test 2 - Location/Description

			Dry	33.02	34.7
3	New Cured concrete - mean value		Dry	33.02	34.7
55	Pathfinder Polyurethane mat - Yellow		Dry	68	

Test 2a - Location/Description

			Wet	18.73	55.1
4	New Cured concrete - mean value		Wet	18.73	55.1
56	Pathfinder Polyurethane mat - Yellow (not provided)		Wet	68	

Test 3 - Location/Description

			Dry	11.51	67.6
5	Old exp agg Concrete		Dry	11.51	67.6
55	Pathfinder Polyurethane mat - Yellow		Dry	68	

Test 3a - Location/Description

			Wet	7.22	75.8
6	Old exp agg Concrete		Wet	7.22	75.8
56	Pathfinder Polyurethane mat - Yellow (not provided)		Wet	68	

Test 4 - Location/Description

			Dry	20.47	52.4
7	Concrete Coping - Kilkenny Station (SA)		Dry	20.47	52.4
55	Pathfinder Polyurethane mat - Yellow		Dry	68	

Test 4a - Location/Description

			Wet	10.07	70.3
8	Concrete Coping - Kilkenny Station (SA)		Wet	10.07	70.3
56	Pathfinder Polyurethane mat - Yellow (not provided)		Wet	68	

Testing Date: June 2022
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Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Test 5 - Location/Description				%
9	Light Grey Concrete - University Tram Stop North Tce (SA)	Dry	18.62	55.3
55	Pathfinder Polyurethane mat - Yellow	Dry	68	
Test 5a - Location/Description				%
10	Light Grey Concrete - University Tram Stop North Tce (SA)	Wet	6.61	77.0
56	Pathfinder Polyurethane mat - Yellow (not provided)	Wet	68	
Test 6 - Location/Description				%
11	Stone Coping - Mitcham Train Station	Dry	10.76	69.0
55	Pathfinder Polyurethane mat - Yellow	Dry	68	
Test 6a - Location/Description				%
12	Stone Coping - Mitcham Train Station	Wet	5.31	79.7
56	Pathfinder Polyurethane mat - Yellow (not provided)	Wet	68	
Test 7 - Location/Description				%
13	Asphalt mean value, light aggregate - Parkville	Dry	8.16	73.9
55	Pathfinder Polyurethane mat - Yellow	Dry	68	
Test 7a - Location/Description				%
14	Asphalt mean value, light aggregate - Parkville	Wet	3.78	82.9
56	Pathfinder Polyurethane mat - Yellow (not provided)	Wet	68	
Test 8 - Location/Description				%
15	Asphalt dark - Parliament Gardens	Dry	4.97	80.4
55	Pathfinder Polyurethane mat - Yellow	Dry	68	
Test 8a - Location/Description				%
16	Asphalt dark - Parliament Gardens	Wet	3.24	84.1
56	Pathfinder Polyurethane mat - Yellow (not provided)	Wet	68	
Test 9 - Location/Description				%
17	Brick Paver - Mitcham bus stop (SA)	Dry	9.3	71.7
55	Pathfinder Polyurethane mat - Yellow	Dry	68	
Test 9a - Location/Description				%
18	Brick Paver - Mitcham bus stop (SA)	Wet	9.53	71.3
56	Pathfinder Polyurethane mat - Yellow (not provided)	Wet	68	
Test 10 - Location/Description				%
19	Brick Paver Red - Monash Uni	Dry	10.71	69.1
55	Pathfinder Polyurethane mat - Yellow	Dry	68	
Test 10a - Location/Description				%
20	Brick Paver Red - Monash Uni	Wet	9.32	71.7
56	Pathfinder Polyurethane mat - Yellow (not provided)	Wet	68	

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Test 11 - Location/Description				%
21	Brick Paver edge - Parliament Gardens	Dry	10.71	69.1
55	Pathfinder Polyurethane mat - Yellow	Dry	68	

Test 11a - Location/Description				%
22	Brick Paver edge - Parliament Gardens	Wet	9.32	
56	Pathfinder Polyurethane mat - Yellow (not provided)	Wet	68	71.7

Test 12 - Location/Description				%
23	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Dry	10.89	
55	Pathfinder Polyurethane mat - Yellow	Dry	68	68.7

Test 12a - Location/Description				%
24	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Wet	8.58	
56	Pathfinder Polyurethane mat - Yellow (not provided)	Wet	68	73.1

Test 13 - Location/Description				%
25	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Dry	9.62	
55	Pathfinder Polyurethane mat - Yellow	Dry	68	71.1

Test 13a - Location/Description				%
26	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Wet	5.02	
56	Pathfinder Polyurethane mat - Yellow (not provided)	Wet	68	80.3

Test 14 - Location/Description				%
27	Bluestone Paver - mean value	Dry	12.98	
55	Pathfinder Polyurethane mat - Yellow	Dry	68	64.9

Test 14a - Location/Description				%
28	Bluestone Paver - mean value	Wet	6.7	
56	Pathfinder Polyurethane mat - Yellow (not provided)	Wet	68	76.9

Test 15 - Location/Description				%
29	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Dry	9.77	
55	Pathfinder Polyurethane mat - Yellow	Dry	68	70.8

Test 15a - Location/Description				%
30	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Wet	4.83	
56	Pathfinder Polyurethane mat - Yellow (not provided)	Wet	68	80.7

Test 16 - Location/Description				%
31	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Dry	12.2	
55	Pathfinder Polyurethane mat - Yellow	Dry	68	66.3

Test 16a - Location/Description				%
32	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Wet	7.2	
56	Pathfinder Polyurethane mat - Yellow (not provided)	Wet	68	75.8

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Test 17 - Location/Description				%
23	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Dry	10.89	68.7
55	Pathfinder Polyurethane mat - Yellow	Dry	68	
Test 17a - Location/Description				%
34	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Wet	7.29	75.7
56	Pathfinder Polyurethane mat - Yellow (not provided)	Wet	68	
Test 18 - Location/Description				%
35	Grey Granite Paver - North Tce Tram Stop (SA)	Dry	7.82	74.6
55	Pathfinder Polyurethane mat - Yellow	Dry	68	
Test 18a - Location/Description				%
36	Grey Granite Paver - North Tce Tram Stop (SA)	Wet	4.78	80.8
56	Pathfinder Polyurethane mat - Yellow (not provided)	Wet	68	
Test 19 - Location/Description				%
37	Beige Paver - Kilkenny Station (SA)	Dry	19.08	54.6
55	Pathfinder Polyurethane mat - Yellow	Dry	68	
Test 19a - Location/Description				%
38	Beige Paver - Kilkenny Station (SA)	Wet	15.76	60.0
56	Pathfinder Polyurethane mat - Yellow (not provided)	Wet	68	
Test 20 - Location/Description				%
Test 20a - Location/Description				%
Test 21 - Location/Description				%
Test 21a - Location/Description				%
Test 22 - Location/Description				%
Test 22a - Location/Description				%

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Testing for compliance with: NCC 2016 / AS 1428.1: 2009 / AS/NZS 1428.4.1: 2009

Formula: Luminance Contrast = $125 \times (Y_2 - Y_1) / (Y_1 + Y_2 + 25)$

AS1428.4.1 LRV Requirements:

TGSI - Integrated 30%; Discrete 45%; Composite: 60%. Measured relative to installed surface.

Stair Nosing - 30% relative to tread/landing surface

Glazing Visual Indicator - 30% relative to ground surface within 2m.

Doors - 30% between two surfaces (wall, door leaf, architrave) with min contrast 50mm

TEST RESULT KEY:

	Measured as Insufficient relative to current LRV Requirements.
	Assessed by A&A to be within an Acceptable range relative to LRV Contrast requirements.
	Measured as Meeting LRV Contrast requirements.
	Exact LRV % contrast for sample comparison.

TEST RESULTS: TGSI

Test 1 - Location/Description

			Dry	28.47	46.6
1	Plain Grey Concrete - mean value		Dry	28.47	46.6
51	TSA Concrete Paver - White		Dry	77.1	

Test 1a - Location/Description

			Wet	15.32	48.1
2	Plain Grey Concrete - mean value		Wet	15.32	48.1
52	TSA Concrete Paver - White		Wet	50.1	

Test 2 - Location/Description

			Dry	33.02	40.8
3	New Cured concrete - mean value		Dry	33.02	40.8
51	TSA Concrete Paver - White		Dry	77.1	

Test 2a - Location/Description

			Wet	18.73	41.8
4	New Cured concrete - mean value		Wet	18.73	41.8
52	TSA Concrete Paver - White		Wet	50.1	

Test 3 - Location/Description

			Dry	11.51	72.2
5	Old exp agg Concrete		Dry	11.51	72.2
51	TSA Concrete Paver - White		Dry	77.1	

Test 3a - Location/Description

			Wet	7.22	65.1
6	Old exp agg Concrete		Wet	7.22	65.1
52	TSA Concrete Paver - White		Wet	50.1	

Test 4 - Location/Description

			Dry	20.47	57.8
7	Concrete Coping - Kilkenny Station (SA)		Dry	20.47	57.8
51	TSA Concrete Paver - White		Dry	77.1	

Test 4a - Location/Description

			Wet	10.07	58.8
8	Concrete Coping - Kilkenny Station (SA)		Wet	10.07	58.8
52	TSA Concrete Paver - White		Wet	50.1	

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Test 5 - Location/Description				%
9	Light Grey Concrete - University Tram Stop North Tce (SA)	Dry	18.62	60.6
51	TSA Concrete Paver - White	Dry	77.1	
Test 5a - Location/Description				%
10	Light Grey Concrete - University Tram Stop North Tce (SA)	Wet	6.61	66.5
52	TSA Concrete Paver - White	Wet	50.1	
Test 6 - Location/Description				%
11	Stone Coping - Mitcham Train Station	Dry	10.76	73.5
51	TSA Concrete Paver - White	Dry	77.1	
Test 6a - Location/Description				%
12	Stone Coping - Mitcham Train Station	Wet	5.31	69.6
52	TSA Concrete Paver - White	Wet	50.1	
Test 7 - Location/Description				%
13	Asphalt mean value, light aggregate - Parkville	Dry	8.16	78.2
51	TSA Concrete Paver - White	Dry	77.1	
Test 7a - Location/Description				%
14	Asphalt mean value, light aggregate - Parkville	Wet	3.78	73.4
52	TSA Concrete Paver - White	Wet	50.1	
Test 8 - Location/Description				%
15	Asphalt dark - Parliament Gardens	Dry	4.97	84.2
51	TSA Concrete Paver - White	Dry	77.1	
Test 8a - Location/Description				%
16	Asphalt dark - Parliament Gardens	Wet	3.24	74.8
52	TSA Concrete Paver - White	Wet	50.1	
Test 9 - Location/Description				%
17	Brick Paver - Mitcham bus stop (SA)	Dry	9.3	76.1
51	TSA Concrete Paver - White	Dry	77.1	
Test 9a - Location/Description				%
18	Brick Paver - Mitcham bus stop (SA)	Wet	9.53	59.9
52	TSA Concrete Paver - White	Wet	50.1	
Test 10 - Location/Description				%
19	Brick Paver Red - Monash Uni	Dry	10.71	73.6
51	TSA Concrete Paver - White	Dry	77.1	
Test 10a - Location/Description				%
20	Brick Paver Red - Monash Uni	Wet	9.32	60.4
52	TSA Concrete Paver - White	Wet	50.1	

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Test 11 - Location/Description				%
21	Brick Paver edge - Parliament Gardens	Dry	10.71	73.6
51	TSA Concrete Paver - White	Dry	77.1	

Test 11a - Location/Description				%
22	Brick Paver edge - Parliament Gardens	Wet	9.32	60.4
52	TSA Concrete Paver - White	Wet	50.1	

Test 12 - Location/Description				%
23	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Dry	10.89	73.2
51	TSA Concrete Paver - White	Dry	77.1	

Test 12a - Location/Description				%
24	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Wet	8.58	62.0
52	TSA Concrete Paver - White	Wet	50.1	

Test 13 - Location/Description				%
25	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Dry	9.62	75.5
51	TSA Concrete Paver - White	Dry	77.1	

Test 13a - Location/Description				%
26	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Wet	5.02	70.3
52	TSA Concrete Paver - White	Wet	50.1	

Test 14 - Location/Description				%
27	Bluestone Paver - mean value	Dry	12.98	69.6
51	TSA Concrete Paver - White	Dry	77.1	

Test 14a - Location/Description				%
28	Bluestone Paver - mean value	Wet	6.7	66.3
52	TSA Concrete Paver - White	Wet	50.1	

Test 15 - Location/Description				%
29	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Dry	9.77	75.2
51	TSA Concrete Paver - White	Dry	77.1	

Test 15a - Location/Description				%
30	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Wet	4.83	70.8
52	TSA Concrete Paver - White	Wet	50.1	

Test 16 - Location/Description				%
31	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Dry	12.2	71.0
51	TSA Concrete Paver - White	Dry	77.1	

Test 16a - Location/Description				%
32	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Wet	7.2	65.2
52	TSA Concrete Paver - White	Wet	50.1	

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Conducted by: Veronica H
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Test 17 - Location/Description				%
33	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Dry	10.52	73.9
51	TSA Concrete Paver - White	Dry	77.1	
Test 17a - Location/Description				%
34	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Wet	7.29	65.0
52	TSA Concrete Paver - White	Wet	50.1	
Test 18 - Location/Description				%
35	Grey Granite Paver - North Tce Tram Stop (SA)	Dry	7.82	78.8
51	TSA Concrete Paver - White	Dry	77.1	
Test 18a - Location/Description				%
36	Grey Granite Paver - North Tce Tram Stop (SA)	Wet	4.78	70.9
52	TSA Concrete Paver - White	Wet	50.1	
Test 19 - Location/Description				%
37	Beige Paver - Kilkenny Station (SA)	Dry	19.08	59.8
51	TSA Concrete Paver - White	Dry	77.1	
Test 19a - Location/Description				%
38	Beige Paver - Kilkenny Station (SA)	Wet	15.76	47.2
52	TSA Concrete Paver - White	Wet	50.1	
Test 20 - Location/Description				%
Test 20a - Location/Description				%
Test 21 - Location/Description				%
Test 21a - Location/Description				%
Test 22 - Location/Description				%
Test 22a - Location/Description				%

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Testing for compliance with: NCC 2016 / AS 1428.1: 2009 / AS/NZS 1428.4.1: 2009

Formula: Luminance Contrast = $125 \times (Y_2 - Y_1) / (Y_1 + Y_2 + 25)$

AS1428.4.1 LRV Requirements:

TGSI - Integrated 30%; Discrete 45%; Composite: 60%. Measured relative to installed surface.

Stair Nosing - 30% relative to tread/landing surface

Glazing Visual Indicator - 30% relative to ground surface within 2m.

Doors - 30% between two surfaces (wall, door leaf, architrave) with min contrast 50mm

TEST RESULT KEY:

Red	Measured as Insufficient relative to current LRV Requirements.
Yellow	Assessed by A&A to be within an Acceptable range relative to LRV Contrast requirements.
Green	Measured as Meeting LRV Contrast requirements.
%	Exact LRV % contrast for sample comparison.

TEST RESULTS: TGSI

Test 1 - Location/Description

		Dry	28.47	36.3
1	Plain Grey Concrete - mean value	Dry	28.47	36.3
53	TSA Concrete Paver - Ivory	Dry	62	

Test 1a - Location/Description

		Wet	15.32	38.7
2	Plain Grey Concrete - mean value	Wet	15.32	38.7
54	TSA Concrete Paver - Ivory	Wet	40.3	

Test 2 - Location/Description

		Dry	33.02	30.2
3	New Cured concrete - mean value	Dry	33.02	30.2
53	TSA Concrete Paver - Ivory	Dry	62	

Test 2a - Location/Description

		Wet	18.73	32.1
4	New Cured concrete - mean value	Wet	18.73	32.1
54	TSA Concrete Paver - Ivory	Wet	40.3	

Test 3 - Location/Description

		Dry	11.51	64.1
5	Old exp agg Concrete	Dry	11.51	64.1
53	TSA Concrete Paver - Ivory	Dry	62	

Test 3a - Location/Description

		Wet	7.22	57.0
6	Old exp agg Concrete	Wet	7.22	57.0
54	TSA Concrete Paver - Ivory	Wet	40.3	

Test 4 - Location/Description

		Dry	20.47	48.3
7	Concrete Coping - Kilkenny Station (SA)	Dry	20.47	48.3
53	TSA Concrete Paver - Ivory	Dry	62	

Test 4a - Location/Description

		Wet	10.07	50.1
8	Concrete Coping - Kilkenny Station (SA)	Wet	10.07	50.1
54	TSA Concrete Paver - Ivory	Wet	40.3	

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Conducted by: Veronica H
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Test 5 - Location/Description				%
9	Light Grey Concrete - University Tram Stop North Tce (SA)	Dry	18.62	51.3
53	TSA Concrete Paver - Ivory	Dry	62	
Test 5a - Location/Description				%
10	Light Grey Concrete - University Tram Stop North Tce (SA)	Wet	6.61	58.6
54	TSA Concrete Paver - Ivory	Wet	40.3	
Test 6 - Location/Description				%
11	Stone Coping - Mitcham Train Station	Dry	10.76	65.5
53	TSA Concrete Paver - Ivory	Dry	62	
Test 6a - Location/Description				%
12	Stone Coping - Mitcham Train Station	Wet	5.31	61.9
54	TSA Concrete Paver - Ivory	Wet	40.3	
Test 7 - Location/Description				%
13	Asphalt mean value, light aggregate - Parkville	Dry	8.16	70.7
53	TSA Concrete Paver - Ivory	Dry	62	
Test 7a - Location/Description				%
14	Asphalt mean value, light aggregate - Parkville	Wet	3.78	66.1
54	TSA Concrete Paver - Ivory	Wet	40.3	
Test 8 - Location/Description				%
15	Asphalt dark - Parliament Gardens	Dry	4.97	77.5
53	TSA Concrete Paver - Ivory	Dry	62	
Test 8a - Location/Description				%
16	Asphalt dark - Parliament Gardens	Wet	3.24	67.6
54	TSA Concrete Paver - Ivory	Wet	40.3	
Test 9 - Location/Description				%
17	Brick Paver - Mitcham bus stop (SA)	Dry	9.3	68.4
53	TSA Concrete Paver - Ivory	Dry	62	
Test 9a - Location/Description				%
18	Brick Paver - Mitcham bus stop (SA)	Wet	9.53	51.4
54	TSA Concrete Paver - Ivory	Wet	40.3	
Test 10 - Location/Description				%
19	Brick Paver Red - Monash Uni	Dry	10.71	65.6
53	TSA Concrete Paver - Ivory	Dry	62	
Test 10a - Location/Description				%
20	Brick Paver Red - Monash Uni	Wet	9.32	51.9
54	TSA Concrete Paver - Ivory	Wet	40.3	

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
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Test 11 - Location/Description				%
21	Brick Paver edge - Parliament Gardens	Dry	10.71	65.6
53	TSA Concrete Paver - Ivory	Dry	62	
Test 11a - Location/Description				%
22	Brick Paver edge - Parliament Gardens	Wet	9.32	51.9
54	TSA Concrete Paver - Ivory	Wet	40.3	
Test 12 - Location/Description				%
23	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Dry	10.89	65.3
53	TSA Concrete Paver - Ivory	Dry	62	
Test 12a - Location/Description				%
24	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Wet	8.58	53.7
54	TSA Concrete Paver - Ivory	Wet	40.3	
Test 13 - Location/Description				%
25	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Dry	9.62	67.8
53	TSA Concrete Paver - Ivory	Dry	62	
Test 13a - Location/Description				%
26	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Wet	5.02	62.7
54	TSA Concrete Paver - Ivory	Wet	40.3	
Test 14 - Location/Description				%
27	Bluestone Paver - mean value	Dry	12.98	61.3
53	TSA Concrete Paver - Ivory	Dry	62	
Test 14a - Location/Description				%
28	Bluestone Paver - mean value	Wet	6.7	58.3
54	TSA Concrete Paver - Ivory	Wet	40.3	
Test 15 - Location/Description				%
29	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Dry	9.77	67.5
53	TSA Concrete Paver - Ivory	Dry	62	
Test 15a - Location/Description				%
30	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Wet	4.83	63.2
54	TSA Concrete Paver - Ivory	Wet	40.3	
Test 16 - Location/Description				%
31	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Dry	12.2	62.8
53	TSA Concrete Paver - Ivory	Dry	62	
Test 16a - Location/Description				%
32	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Wet	7.2	57.1
54	TSA Concrete Paver - Ivory	Wet	40.3	

Testing Date: June 2022
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Conducted by: Veronica H
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Test 17 - Location/Description				%
33	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Dry	10.52	66.0
53	TSA Concrete Paver - Ivory	Dry	62	
Test 17a - Location/Description				%
34	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Wet	7.29	56.8
54	TSA Concrete Paver - Ivory	Wet	40.3	
Test 18 - Location/Description				%
35	Grey Granite Paver - North Tce Tram Stop (SA)	Dry	7.82	71.4
53	TSA Concrete Paver - Ivory	Dry	62	
Test 18a - Location/Description				%
36	Grey Granite Paver - North Tce Tram Stop (SA)	Wet	4.78	63.4
54	TSA Concrete Paver - Ivory	Wet	40.3	
Test 19 - Location/Description				%
37	Beige Paver - Kilkenny Station (SA)	Dry	19.08	50.6
53	TSA Concrete Paver - Ivory	Dry	62	
Test 19a - Location/Description				%
38	Beige Paver - Kilkenny Station (SA)	Wet	15.76	37.8
54	TSA Concrete Paver - Ivory	Wet	40.3	
Test 20 - Location/Description				%
Test 20a - Location/Description				%
Test 21 - Location/Description				%
Test 21a - Location/Description				%
Test 22 - Location/Description				%
Test 22a - Location/Description				%

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Testing for compliance with: NCC 2016 / AS 1428.1: 2009 / AS/NZS 1428.4.1: 2009

Formula: Luminance Contrast = $125 \times (Y_2 - Y_1) / (Y_1 + Y_2 + 25)$

AS1428.4.1 LRV Requirements:

TGSI - Integrated 30%; Discrete 45%; Composite: 60%. Measured relative to installed surface.

Stair Nosing - 30% relative to tread/landing surface

Glazing Visual Indicator - 30% relative to ground surface within 2m.

Doors - 30% between two surfaces (wall, door leaf, architrave) with min contrast 50mm

TEST RESULT KEY:

	Measured as Insufficient relative to current LRV Requirements.
	Assessed by A&A to be within an Acceptable range relative to LRV Contrast requirements.
	Measured as Meeting LRV Contrast requirements.
	Exact LRV % contrast for sample comparison.

TEST RESULTS: TGSI

Test 1 - Location/Description

				%
1	Plain Grey Concrete - mean value	Dry	28.47	26.9
47	TSA Polyurethane - Ivory	Dry	50.9	

Test 1a - Location/Description

				%
2	Plain Grey Concrete - mean value	Wet	15.32	50.1
48	TSA Polyurethane - Ivory	Wet	52.57	

Test 2 - Location/Description

				%
3	New Cured concrete - mean value	Dry	33.02	20.5
47	TSA Polyurethane - Ivory	Dry	50.9	

Test 2a - Location/Description

				%
4	New Cured concrete - mean value	Wet	18.73	43.9
48	TSA Polyurethane - Ivory	Wet	52.57	

Test 3 - Location/Description

				%
5	Old exp agg Concrete	Dry	11.51	56.3
47	TSA Polyurethane - Ivory	Dry	50.9	

Test 3a - Location/Description

				%
6	Old exp agg Concrete	Wet	7.22	66.9
48	TSA Polyurethane - Ivory	Wet	52.57	

Test 4 - Location/Description

				%
7	Concrete Coping - Kilkenny Station (SA)	Dry	20.47	39.5
47	TSA Polyurethane - Ivory	Dry	50.9	

Test 4a - Location/Description

				%
8	Concrete Coping - Kilkenny Station (SA)	Wet	10.07	60.6
48	TSA Polyurethane - Ivory	Wet	52.57	

Testing Date: June 2022
Report Date: June 2022
Conducted by: Veronica H
Client: Department of Infrastructure and Transport

Test 5 - Location/Description				%
9	Light Grey Concrete - University Tram Stop North Tce (SA)	Dry	18.62	42.7
47	TSA Polyurethane - Ivory	Dry	50.9	
Test 5a - Location/Description				%
10	Light Grey Concrete - University Tram Stop North Tce (SA)	Wet	6.61	68.2
48	TSA Polyurethane - Ivory	Wet	52.57	
Test 6 - Location/Description				%
11	Stone Coping - Mitcham Train Station	Dry	10.76	57.9
47	TSA Polyurethane - Ivory	Dry	50.9	
Test 6a - Location/Description				%
12	Stone Coping - Mitcham Train Station	Wet	5.31	71.3
48	TSA Polyurethane - Ivory	Wet	52.57	
Test 7 - Location/Description				%
13	Asphalt mean value, light aggregate - Parkville	Dry	8.16	63.6
47	TSA Polyurethane - Ivory	Dry	50.9	
Test 7a - Location/Description				%
14	Asphalt mean value, light aggregate - Parkville	Wet	3.78	75.0
48	TSA Polyurethane - Ivory	Wet	52.57	
Test 8 - Location/Description				%
15	Asphalt dark - Parliament Gardens	Dry	4.97	71.0
47	TSA Polyurethane - Ivory	Dry	50.9	
Test 8a - Location/Description				%
16	Asphalt dark - Parliament Gardens	Wet	3.24	76.3
48	TSA Polyurethane - Ivory	Wet	52.57	
Test 9 - Location/Description				%
17	Brick Paver - Mitcham bus stop (SA)	Dry	9.3	61.0
47	TSA Polyurethane - Ivory	Dry	50.9	
Test 9a - Location/Description				%
18	Brick Paver - Mitcham bus stop (SA)	Wet	9.53	61.8
48	TSA Polyurethane - Ivory	Wet	52.57	
Test 10 - Location/Description				%
19	Brick Paver Red - Monash Uni	Dry	10.71	58.0
47	TSA Polyurethane - Ivory	Dry	50.9	
Test 10a - Location/Description				%
20	Brick Paver Red - Monash Uni	Wet	9.32	62.2
48	TSA Polyurethane - Ivory	Wet	52.57	

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Test 11 - Location/Description				%
21	Brick Paver edge - Parliament Gardens	Dry	10.71	58.0
47	TSA Polyurethane - Ivory	Dry	50.9	

Test 11a - Location/Description				%
22	Brick Paver edge - Parliament Gardens	Wet	9.32	62.2
48	TSA Polyurethane - Ivory	Wet	52.57	

Test 12 - Location/Description				%
23	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Dry	10.89	57.6
47	TSA Polyurethane - Ivory	Dry	50.9	

Test 12a - Location/Description				%
24	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Wet	8.58	63.8
48	TSA Polyurethane - Ivory	Wet	52.57	

Test 13 - Location/Description				%
25	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Dry	9.62	60.3
47	TSA Polyurethane - Ivory	Dry	50.9	

Test 13a - Location/Description				%
26	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Wet	5.02	72.0
48	TSA Polyurethane - Ivory	Wet	52.57	

Test 14 - Location/Description				%
27	Bluestone Paver - mean value	Dry	12.98	53.3
47	TSA Polyurethane - Ivory	Dry	50.9	

Test 14a - Location/Description				%
28	Bluestone Paver - mean value	Wet	6.7	68.0
48	TSA Polyurethane - Ivory	Wet	52.57	

Test 15 - Location/Description				%
29	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Dry	9.77	60.0
47	TSA Polyurethane - Ivory	Dry	50.9	

Test 15a - Location/Description				%
30	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Wet	4.83	72.4
48	TSA Polyurethane - Ivory	Wet	52.57	

Test 16 - Location/Description				%
31	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Dry	12.2	54.9
47	TSA Polyurethane - Ivory	Dry	50.9	

Test 16a - Location/Description				%
32	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Wet	7.2	66.9
48	TSA Polyurethane - Ivory	Wet	52.57	

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Test 17 - Location/Description				%
33	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Dry	10.52	58.4
47	TSA Polyurethane - Ivory	Dry	50.9	
Test 17a - Location/Description				%
34	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Wet	7.29	66.7
48	TSA Polyurethane - Ivory	Wet	52.57	
Test 18 - Location/Description				%
35	Grey Granite Paver - North Tce Tram Stop (SA)	Dry	7.82	64.3
47	TSA Polyurethane - Ivory	Dry	50.9	
Test 18a - Location/Description				%
36	Grey Granite Paver - North Tce Tram Stop (SA)	Wet	4.78	72.5
48	TSA Polyurethane - Ivory	Wet	52.57	
Test 19 - Location/Description				%
37	Beige Paver - Kilkenny Station (SA)	Dry	19.08	41.9
47	TSA Polyurethane - Ivory	Dry	50.9	
Test 19a - Location/Description				%
38	Beige Paver - Kilkenny Station (SA)	Wet	15.76	49.3
48	TSA Polyurethane - Ivory	Wet	52.57	
Test 20 - Location/Description				%
Test 20a - Location/Description				%
Test 21 - Location/Description				%
Test 21a - Location/Description				%
Test 22 - Location/Description				%
Test 22a - Location/Description				%

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Testing for compliance with: NCC 2016 / AS 1428.1: 2009 / AS/NZS 1428.4.1: 2009

Formula: Luminance Contrast = $125 \times (Y_2 - Y_1) / (Y_1 + Y_2 + 25)$

AS1428.4.1 LRV Requirements:

TGSI - Integrated 30%; Discrete 45%; Composite: 60%. Measured relative to installed surface.

Stair Nosing - 30% relative to tread/landing surface

Glazing Visual Indicator - 30% relative to ground surface within 2m.

Doors - 30% between two surfaces (wall, door leaf, architrave) with min contrast 50mm

TEST RESULT KEY:

	Measured as Insufficient relative to current LRV Requirements.
	Assessed by A&A to be within an Acceptable range relative to LRV Contrast requirements.
	Measured as Meeting LRV Contrast requirements.
	Exact LRV % contrast for sample comparison.

TEST RESULTS: TGSI

Test 1 - Location/Description

			Dry	28.47	15.9
1	Plain Grey Concrete - mean value		Dry	28.47	15.9
47	TSA Polyurethane - Yellow		Dry	40.37	

Test 1a - Location/Description

			Wet	15.32	39.6
2	Plain Grey Concrete - mean value		Wet	15.32	39.6
48	TSA Polyurethane - Yellow		Wet	41.14	

Test 2 - Location/Description

			Dry	33.02	9.3
3	New Cured concrete - mean value		Dry	33.02	9.3
47	TSA Polyurethane - Yellow		Dry	40.37	

Test 2a - Location/Description

			Wet	18.73	33.0
4	New Cured concrete - mean value		Wet	18.73	33.0
48	TSA Polyurethane - Yellow		Wet	41.14	

Test 3 - Location/Description

			Dry	11.51	46.9
5	Old exp agg Concrete		Dry	11.51	46.9
47	TSA Polyurethane - Yellow		Dry	40.37	

Test 3a - Location/Description

			Wet	7.22	57.8
6	Old exp agg Concrete		Wet	7.22	57.8
48	TSA Polyurethane - Yellow		Wet	41.14	

Test 4 - Location/Description

			Dry	20.47	29.0
7	Concrete Coping - Kilkenny Station (SA)		Dry	20.47	29.0
47	TSA Polyurethane - Yellow		Dry	40.37	

Test 4a - Location/Description

			Wet	10.07	51.0
8	Concrete Coping - Kilkenny Station (SA)		Wet	10.07	51.0
48	TSA Polyurethane - Yellow		Wet	41.14	

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Test 5 - Location/Description				%
9	Light Grey Concrete - University Tram Stop North Tce (SA)	Dry	18.62	32.4
47	TSA Polyurethane - Yellow	Dry	40.37	
Test 5a - Location/Description				%
10	Light Grey Concrete - University Tram Stop North Tce (SA)	Wet	6.61	59.3
48	TSA Polyurethane - Yellow	Wet	41.14	
Test 6 - Location/Description				%
11	Stone Coping - Mitcham Train Station	Dry	10.76	48.6
47	TSA Polyurethane - Yellow	Dry	40.37	
Test 6a - Location/Description				%
12	Stone Coping - Mitcham Train Station	Wet	5.31	62.7
48	TSA Polyurethane - Yellow	Wet	41.14	
Test 7 - Location/Description				%
13	Asphalt mean value, light aggregate - Parkville	Dry	8.16	54.8
47	TSA Polyurethane - Yellow	Dry	40.37	
Test 7a - Location/Description				%
14	Asphalt mean value, light aggregate - Parkville	Wet	3.78	66.8
48	TSA Polyurethane - Yellow	Wet	41.14	
Test 8 - Location/Description				%
15	Asphalt dark - Parliament Gardens	Dry	4.97	62.9
47	TSA Polyurethane - Yellow	Dry	40.37	
Test 8a - Location/Description				%
16	Asphalt dark - Parliament Gardens	Wet	3.24	68.3
48	TSA Polyurethane - Yellow	Wet	41.14	
Test 9 - Location/Description				%
17	Brick Paver - Mitcham bus stop (SA)	Dry	9.3	52.0
47	TSA Polyurethane - Yellow	Dry	40.37	
Test 9a - Location/Description				%
18	Brick Paver - Mitcham bus stop (SA)	Wet	9.53	52.2
48	TSA Polyurethane - Yellow	Wet	41.14	
Test 10 - Location/Description				%
19	Brick Paver Red - Monash Uni	Dry	10.71	48.7
47	TSA Polyurethane - Yellow	Dry	40.37	
Test 10a - Location/Description				%
20	Brick Paver Red - Monash Uni	Wet	9.32	52.7
48	TSA Polyurethane - Yellow	Wet	41.14	

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Test 11 - Location/Description				%
21	Brick Paver edge - Parliament Gardens	Dry	10.71	48.7
47	TSA Polyurethane - Yellow	Dry	40.37	

Test 11a - Location/Description				%
22	Brick Paver edge - Parliament Gardens	Wet	9.32	52.7
48	TSA Polyurethane - Yellow	Wet	41.14	

Test 12 - Location/Description				%
23	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Dry	10.89	48.3
47	TSA Polyurethane - Yellow	Dry	40.37	

Test 12a - Location/Description				%
24	Concrete Paver - Adelaide Entertainment Centre Tram Centre (SA)	Wet	8.58	54.5
48	TSA Polyurethane - Yellow	Wet	41.14	

Test 13 - Location/Description				%
25	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Dry	9.62	51.3
47	TSA Polyurethane - Yellow	Dry	40.37	

Test 13a - Location/Description				%
26	Red Conc Pavers - Hallett Rd, Stonyfell Bus Stop West Side (SA)	Wet	5.02	63.4
48	TSA Polyurethane - Yellow	Wet	41.14	

Test 14 - Location/Description				%
27	Bluestone Paver - mean value	Dry	12.98	43.7
47	TSA Polyurethane - Yellow	Dry	40.37	

Test 14a - Location/Description				%
28	Bluestone Paver - mean value	Wet	6.7	59.1
48	TSA Polyurethane - Yellow	Wet	41.14	

Test 15 - Location/Description				%
29	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Dry	9.77	50.9
47	TSA Polyurethane - Yellow	Dry	40.37	

Test 15a - Location/Description				%
30	Red granite paver - Bourk & Spring St Tram stop. Melbourne CBD	Wet	4.83	64.0
48	TSA Polyurethane - Yellow	Wet	41.14	

Test 16 - Location/Description				%
31	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Dry	12.2	45.4
47	TSA Polyurethane - Yellow	Dry	40.37	

Test 16a - Location/Description				%
32	Interlocking Pavers - Port Rd South Side Bus Stop (SA)	Wet	7.2	57.8
48	TSA Polyurethane - Yellow	Wet	41.14	

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Test 17 - Location/Description				%
33	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Dry	10.52	49.2
47	TSA Polyurethane - Yellow	Dry	40.37	
Test 17a - Location/Description				%
34	Charcoal Interlocking Paver - Mitcham Bus Stop 3 (SA)	Wet	7.29	57.6
48	TSA Polyurethane - Yellow	Wet	41.14	
Test 18 - Location/Description				%
35	Grey Granite Paver - North Tce Tram Stop (SA)	Dry	7.82	55.6
47	TSA Polyurethane - Yellow	Dry	40.37	
Test 18a - Location/Description				%
36	Grey Granite Paver - North Tce Tram Stop (SA)	Wet	4.78	64.1
48	TSA Polyurethane - Yellow	Wet	41.14	
Test 19 - Location/Description				%
37	Beige Paver - Kilkenny Station (SA)	Dry	19.08	31.5
47	TSA Polyurethane - Yellow	Dry	40.37	
Test 19a - Location/Description				%
38	Beige Paver - Kilkenny Station (SA)	Wet	15.76	38.7
48	TSA Polyurethane - Yellow	Wet	41.14	
Test 20 - Location/Description				%
Test 20a - Location/Description				%
Test 21 - Location/Description				%
Test 21a - Location/Description				%
Test 22 - Location/Description				%
Test 22a - Location/Description				%

APPENDIX C – Sample Photos

Testing Date: June 2022
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Sample Description	Photo
New cured concrete, brushed finish	
Old concrete with exposed aggregate	
Typical footpath concrete, brushed finish	
Light grey coloured concrete - North Tce Bus Stop (SA)	
Asphalt - Royal Pde, Parkville	

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Sample Description	Photo
Red brick - Parliament Garden, Melbourne	
Red brick - Bus Stop Mitcham (SA)	
Red brick - Hallett Rd Bus Stop (SA)	
Concrete paver - Entertainment Centre Tram Stop (SA)	
Bluestone Paver - Parliament House, Melbourne CBD	

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Sample Description	Photo
Red Granite Paver - Bourke/Spring St Tram Stop, Melbourne CBD	
Red Interlocking Paver - Port Rd Bus Stop (SA)	
Charcoal Interlocking Paver - Mitcham Bus Stop (SA)	
Grey Granite Paver - North Tce Tram Stop (SA)	
Beige Paver - Kilkenny Station (SA)	