The information contained in this table is designed as a guide only

Standard Compliance

Latham Product Code	Metal Type	Compliance with AS 1428.1:2009	Compliance with AS 1428.2:1992	Compliance with AS/NZ 4663:2004	Compliance with AS/NZ 4586:2004	Compliance with AS 1428.3:1992	NCC 2014 Section D
Surface Mounted Treads							
834ST	Aluminium	✹	✹	■	■	✹	
1005ST	Aluminium	✹	✹	■	■	✹	■
1025ST	Aluminium	✹	✹	■	■	✹	■
B734ST	Brass	■		■	■		■
B1005ST	Brass	✹	✹	■	■	✹	■
1358ST	Aluminium	✹	✹	■	■	✹	■
1408ST	Aluminium	✹	✹	■	■	✹	■
1608ST	Aluminium	✹	✹	■	■	✹	■
EHD-235-12ST	Aluminium	✹	✹	■	■	✹	■
EHD-203-11ST	Aluminium	✹	✹	■	■	✹	■
733VT	Aluminium	■	■	■	■		■
1024VT	Aluminium	✹	✹	■	■	✹	■
1004VT	Aluminium	✹	✹	■	■	✹	■
994VT/VB12	Aluminium	✹	✹	■	■	✹	■
994VT/VB18	Aluminium	✹	✹	■	■	✹	■
994VT	Aluminium	✹	✹	■	■	✹	■
B733VT	Brass	■	■	■	■	✹	■
B1004VT	Brass	✹	✹	■	■	✹	■
AW-493S	Powder Coated Aluminium		■	■	■	■	■
AW-FA711ST	Powder Coated Aluminium	■		■	■	■	■
AB-FA711ST	Anodised Aluminium	■		■	■	■	■
AW-734ST	Powder Coated Aluminium	■		■	■	■	■
AB-734ST	Anodised Aluminium	■		■	■	■	■
AW-754ST	Powder Coated Aluminium			■	■	■	■
AB-754ST	Anodised Aluminium		■	■	■	■	■
FA711ST	Aluminium	■		■	■		■
734ST	Aluminium	■		■	■		■
754ST	Aluminium	▲	▲	■	■	■	■
BFA711ST	Brass	■	■		■	■	■
Recessed Mounted Treads							
ACS-20	Aluminium			■	■		■
ACS-50	Aluminium	■	■	■	■		■
322S	Aluminium			■	■		■
493S	Aluminium	■	■	■	■		■
1308 S	Aluminium	✹	✹	■	■	✹	■
EHD-175-11S	Aluminium	✹	✹	■	■	✹	■
BCS-20	Brass			■	■		■
B322S	Brass			■	■		
B483S	Brass			■	■		■
B805S	Brass	■		■	■		■
B775S	Brass	■	▲	■	■	▲	■
745S	Aluminium	▲	▲	■	■	▲	■
755S	Aluminium	▲	▲	■	■	▲	■
765S	Aluminium	▲		■	■		■
775S	Aluminium	■		■	■		■
1208S	Aluminium	✹	✹	■	■	✹	■
513SHD	Aluminium	▲		■	■		■
501SLD	Aluminium	▲	▲	■	■	▲	■
FA501S	Aluminium	■		■	■		■
EHD-205-12S	Aluminium	✹	✹	■	■	✹	■
744VS	Aluminium	▲	▲	■	■	▲	■
744VS/VB12	Aluminium	▲	▲	■	■	▲	■
744VS/VB18	Aluminium	▲	▲	■	■	▲	■
754VS	Aluminium	▲	▲	■	■	▲	■
764VS	Aluminium	▲	▲	■	■	▲	■
B745S	Brass	▲	▲	■	■	▲	■

The information contained in this table is designed as a guide only

Standard Compliance

Latham Product Code	Metal Type	Compliance with AS 1428.1:2009	Compliance with AS 1428.2:1992	Compliance with AS/NZ 4663:2004	Compliance with AS/NZ 4586:2004	Compliance with AS 1428.3:1992	NCC 2014 Section D
Recessed Mounted Treads							
B755S	Brass	▲	▲	■	■	▲	■
B765S	Brass	▲	▲	■	■	▲	■
B744VS	Brass	▲	▲	■	■	▲	■
B754VS	Brass	▲	▲	■	■	▲	■
B764VS	Brass	▲	▲	■	■	▲	■
AW-FA501S	Powder Coated Aluminium	■		■	■	■	■
AB-FA501S	Anodised Aluminium	■		■	■	■	■
AW-775S	Powder Coated Aluminium	■		■	■	■	■
AB-775S	Anodised Aluminium	■		■	■	■	■
AW735S	Powder Coated Aluminium		■	■	■	■	■
AB735S	Anodised Aluminium		■	■	■	■	■
Bevelled Edge Treads							
745SB	Aluminium	▲	▲	■	■	▲	■
755SB	Aluminium	▲	▲	■	■	▲	■
765SB	Aluminium	▲	▲	■	■	▲	■
775SB	Aluminium	■	▲	■	■	▲	■
B745SB	Brass	▲	▲	■	■	▲	■
B755SB	Brass	▲	▲	■	■	▲	■
B765SB	Brass	▲	▲	■	■	▲	■
B775SB	Brass	■	▲	■	■	▲	■
Cast In Place Treads							
ACS-50SK	Aluminium	■	■	■	■		■
503 SHD-2T	Aluminium	▲		■	■		■
503 SHD-2	Aluminium	▲		■	■		■
493SK	Aluminium	■	■	■	■		■
493SWAK	Anodised Aluminium	■	■	■	■		■
FA501SWAK	Aluminium	■		■	■	■	■
AW-735SWAK	Aluminium	▲	■				
B744VSWAK	Brass	▲	■	■	■	■	■
745 SK	Aluminium	▲	■	■	■	▲	■
755 SK	Aluminium	▲	■	■	■	▲	■
765 SK	Aluminium	▲	■	■	■	▲	■
775 S WAK	Aluminium	■	▲	■	■	▲	■
EHD-205-12S WAK	Aluminium	▲	✹	■	■	✹	■
Light Duty Re-Surfacable Nosings							
LDT1-75T	Aluminium	▲	■			▲	■
LDT1-63S	Aluminium	▲	■			▲	■
LDT2-92T	Aluminium						■
LDT2--80S	Aluminium						■
Ligth Duty Abrasive Resilient Nosings and Treads							
LDAS-591 ART	Aluminium	▲	■			▲	■
LDAS-501-AR	Aluminium	▲	■				■
LDAS 802 AR	Aluminium						■
LDAS 902 ART	Aluminium						■
LDAS 601 TTAR	Aluminium						■

✹ The profiles marked this way are designed by Latham to meet international best practices for slip resistant treads and what we perceive as functional safe treads for pedestrian traffic for different traffic volume loads. This helps ensure suitable slip resistant surfaces to reduce slip and falls in both directions of travel. With the use of Visual Bars as detailed in Stair & Flooring Catalogue 14 on pages 26 and 27, these larger profiles can comply with AS 1428.1:2009, AS 1428.1:2001, AS 1428.2:1992 and AS 1428.3:1992.

Suggested compliance to the relevant Standard and BCA are subject to insert colours, surrounding floor colours, luminance contrast, height of the risers and other factors. Individual assessment for compliance should be made. Information on slip resistance of the products offered and Luminance Contrast for each tread can be obtained from the relevant pages of this publication.

▲ The profiles marked in this way will meet the requirement of the relevant section of the standard detailed depending on the colour selected. These items have an aluminium or brass finished bullnose which may or may not contrast with the silicon carbide insert.

■ The profiles marked in this way comply with the listed standards.

Latham Australia has independant testing carried out by a NATA accredited laboratory

Latham Australia Pty Ltd has had independent testing carried out by a NATA accredited laboratory in Accordance with AS/NZ 4586-2004 Slip resistance classification of new pedestrian surface materials – Appendices A, B, C & D, and AS/NZ 4663:2004 Slip resistance measurement of existing pedestrian surfaces - Appendices A & B, As well as AS 4663-2013 and AS/NZ 4663:2002.

During the preparation of this latest Latham Stair & Flooring Catalogue 14, the NATA accredited laboratory that Latham's use was contacted, in relation to having the tests redone under AS 4586-2013 and AS 4663-2013. The NATA accredited laboratory carefully studied Appendices in the revised Standard, although the result reporting classifications have altered, the tests and methods of achieving results are very similar. The advice from the NATA accredited laboratory was that the results would be identical and as such do not require re-testing with this update of the Standards.

Wet Slip Resistant Testing

Latham Australia Pty Ltd has had independent testing carried out by a NATA approved laboratory in Accordance with AS 4586-2013 Slip Resistance Classification of new pedestrian surface materials and Appendix A and Table F1 as detailed in AS 4586-2013 and Table C1 as detailed in AS 4663-2013.

The established results are detailed as follows:

Latham Suregrip Silicon Carbide Mineral Insert Treads and Nosings

Mean British Pendulum Number **(SRV)** using Slider 55 (TRL) as described in Appendix A, AS 4586-2013 and AS 4663-2013: 78

SRV Classification according to Table 2 AS 4586-2013 : P5

Classification according to Table F1 AS 4586-2013 and Table C1 AS 4663-2013 **(SCV)** slope corrected ((SDV) >54 at 0 to ≥14.5°): P5

Contribution of the floor surface to the risk of slipping when wet, as detailed in HB 197:1999, An Introductory Guide to the Slip Resistance of Pedestrian Surface Materials, Table 2- Very Low

Classification according to Appendix A, AS/NZS 4586:2004: V

Latham Supagrit Silicon Carbide Mineral Insert Treads and Nosings

Mean British Pendulum Number **(SRV)** using Slider 55 (TRL) as described in Appendix A, AS 4586-2013 and AS 4663-2013: 60

SRV Classification according to Table 2 AS 4586-2013: P5

Classification according to Table F1 AS 4586-2013 and Table C1 AS 4663-2013 **(SCV)** slope corrected (**(SDV)** >54 at 0 to 3.5°): P5

Classification according to Table F1 AS 4586-2013 and Table C1 AS 4663-2013 **(SCV)** slope corrected (**(SDV)** 45-54 at 4° to 9°): P4

Classification according to Table F1 AS 4586-2013 and Table C1 AS 4663-2013 **(SCV)** slope corrected (**(SDV)** 35-44 at 9.5° to 14°): P3

Classification according to Table F1 AS 4586-2013 and Table C1 AS 4663-2013 **(SCV)** slope corrected (**(SDV)** 25-34 at ≥14.5°): P2

Contribution of the floor surface to the risk of slipping when wet, as detailed in HB 197:1999, An Introductory Guide to the Slip Resistance of Pedestrian Surface Materials, Table 2- Very Low

Classification according to Appendix A, AS/NZS 4586:2004: V

Latham Rufazel Slip Resistant Tread and Plate

Mean British Pendulum Number **(SRV)** using Slider 55 (TRL) as described in Appendix A, AS 4586-2013 and AS 4663-2013: 64

SRV Classification according to Table 2 AS 4586-2013 P5

Classification according to Table F1 AS 4586-2013 and T able C1 AS 4663-2013 **(SCV)** slope corrected (**(SDV)** >54 at 0 to 6°): P5

Classification according to Table F1 AS 4586-2013 and Table C1 AS 4663-2013 **(SCV)** slope corrected (**(SDV)** -54 at 6.5° to 11°): P4

Classification according to Table F1 AS 4586-2013 and Table C1 AS 4663-2013 **(SCV)** slope corrected (**(SDV)** 35-44 at 11.5° to ≥14.5°): P3

Contribution of the floor surface to the risk of slipping when wet, as detailed in HB 197:1999, An Introductory Guide to the Slip Resistance of Pedestrian Surface Materials, Table 2- Very Low

Classification according to Appendix A, AS/NZS 4586:2004: V

Latham SAF-T 2 part epoxy compound, applied with a hard roller

Mean British Pendulum Number **(SRV)** using Slider 96 (Four S) as described in Appendix A, AS 4586-2013 and AS 4663-2013: 55

SRV Classification according to Table 2 AS 4586-2013: P5

Classification according to Table F1 AS 4586-2013 and Table C1 AS 4663-2013 **(SCV)** slope corrected (**(SDV)** >44 at 0 to 6.5°): P5

Classification according to Table F1 AS 4586-2013 and Table C1 AS 4663-2013 **(SCV)** slope corrected (**(SDV)** 40-44 at 6.5° to 8.5°): P4

Classification according to Table F1 AS 4586-2013 and Table C1 AS 4663-2013 **(SCV)** slope corrected (**(SDV)** 35-39 at 9° to 11°): P3

Latham SAF-T 2 part epoxy compound, applied with a hard roller (cont...)

Classification according to Table F1 AS 4586-2013 and
Table C1 AS 4663-2013 **(SCV)** slope corrected (**(SDV)** 20-34 at 11.5° to ≥14.5°): _____ P2

Contribution of the floor surface to the risk of slipping when wet, as detailed in HB 197:1999,
An Introductory Guide to the Slip Resistance of Pedestrian Surface Materials, Table 2- _____ Very Low

Classification according to Appendix A, AS/NZS 4586:2004: _____ V

(SRV)- Slip Resistance Value. **(SCV)**- Slip Correction Value. **(SDV)**- Slip Design Value.

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Dry Slip Resistant Testing

The established results are detailed as follows:

Latham Suregrip™ Silicon Carbide Mineral Insert Treads and Nosings

Dry floor Friction Test to achieve a measurement of the coefficient of friction **(COF)**
of pedestrian surface materials as described in Appendix B, AS 4586-2013 and
AS 4663-2013, using a floor friction tester **(FFT)**, Mean Dynamic Coefficient of Friction **(COF)**: ___0.95

Classification according to Table 3 AS 4586-2013: _____ D1

Classification according to Table F2 AS 4586-2013 and
Table C2 AS 4663-2013 **(COF)** slope corrected (**(COF)** >0.40 at 0 to ≥14.5°): _____ D1

Classification according to Appendix B, AS/NZS 4586-2004: _____ F

Latham Supagrit™ Silicon Carbide Mineral Insert Treads and Nosings

Dry floor Friction Test to achieve a measurement of the coefficient of friction **(COF)**
of pedestrian surface materials as described in Appendix B, AS 4586-2013 and
AS 4663-2013, using a floor friction tester **(FFT)**, Mean Dynamic Coefficient of Friction **(COF)**: ___0.90

Classification according to Table 3 AS 4586-2013: _____ D1

Classification according to Table F2 AS 4586-2013 and
Table C2 AS 4663-2013 **(COF)** slope corrected **((COF)** >0.40 at 0 to ≥14.5°): _____ D1

Classification according to Appendix B, AS/NZS 4586-2004: _____ F

Latham Rufazel™ Slip Resistant Tread and Plate

Dry floor Friction Test to achieve a measurement of the coefficient of friction **(COF)**
of pedestrian surface materials as described in Appendix B, AS 4586-2013 and
AS 4663-2013, using a floor friction tester **(FFT)**, Mean Dynamic Coefficient of Friction **(COF)**: ___ 1.1

Classification according to Table 3 AS 4586-2013: _____ D1

Classification according to Table F2 AS 4586-2013 and
Table C2 AS 4663-2013 **(COF)** slope corrected **((COF)**>0.40 at 0 to ≥14.5°): _____ D1

Classification according to Appendix B, AS/NZS 4586-2004: _____ F

Latham SAF-T™ 2 part epoxy compound, applied with a hard roller

Dry floor Friction Test to achieve a measurement of the coefficient of friction **(COF)**
of pedestrian surface materials as described in Appendix B, AS 4586-2013 and
AS 4663-2013, using a floor friction tester **(FFT)**, Mean Dynamic Coefficient of Friction **(COF)**: ___0.95

Classification according to Table 3 AS 4586-2013: _____ D1

Classification according to Table F2 AS 4586-2013 and
Table C2 AS 4663-2013 **(COF)** slope corrected (**(COF)** >0.40 at 0 to ≥14.5°): _____ D1

Classification according to Appendix B, AS/NZS 4586-2004: _____ F

(COF)- Coefficient of Friction. **(FFT)**- Floor Friction Tester.

Wet Dry Classifications from above results

The established results are detailed as follows:

Latham Suregrip™ Silicon Carbide Mineral Insert Treads and Nosings

Classification according to Appendices A & B and Tables 2 & 3 of AS 4586-2013: _____ P5/D1

Classification according to Appendices A & B of AS/NZ 4586-2004: _____ VF

Latham Supagrit™ Silicon Carbide Mineral Insert Treads and Nosings

Classification according to Appendices A & B and Tables 2 & 3 of AS 4586-2013: _____ P5/D1

Classification according to Appendices A & B of AS/NZ 4586-2004: _____ VF

Latham Rufazel™ Slip Resistant Tread and Plate

Classification according to Appendices A & B and Tables 2 & 3 of AS 4586-2013: _____ P5/D1

Classification according to Appendices A & B of AS/NZ 4586-2004: _____ VF

Latham SAF-T™ 2 part epoxy compound, applied with a hard roller

Classification according to Appendices A & B and Tables 2 & 3 of AS 4586-2013: _____ P5/D1

Classification according to Appendices A & B of AS/NZ 4586-2004: _____ VF

Latham Australia has independant testing carried out by a NATA accredited laboratory

OIL-Wet Ramp Slip Resistant Testing

Latham Australia Pty Ltd has had independent testing carried out by a NATA approved laboratory in accordance with AS 4586-2013 Slip Resistance Classification Of New Pedestrian Materials, Appendix D, Table 5 & Table D3 and AS/NZ 4586-2004 Appendix D & Table D3 Slip Resistance Classification Of New Pedestrian Surface Materials.

The established results are detailed as follows:

Latham Supagrit™ Silicon Carbide Mineral Insert Treads and Nosings

Mean Overall Acceptance Angle: _____ 26.5

Slip Resistant Acceptance Group AS 4586-2013 Appendix D, Table 5 & Table D3, and AS/NZ 4586-2004 Appendix D & Table D3 _____ R11

Latham Rufazel™ Slip Resistant Tread and Plate

Mean Overall Acceptance Angle: _____ 32.5

Slip Resistant Acceptance Group AS 4586-2013 Appendix D, Table 5 & Table D3, and AS/NZ 4586-2004 Appendix D & Table D3 _____ R12

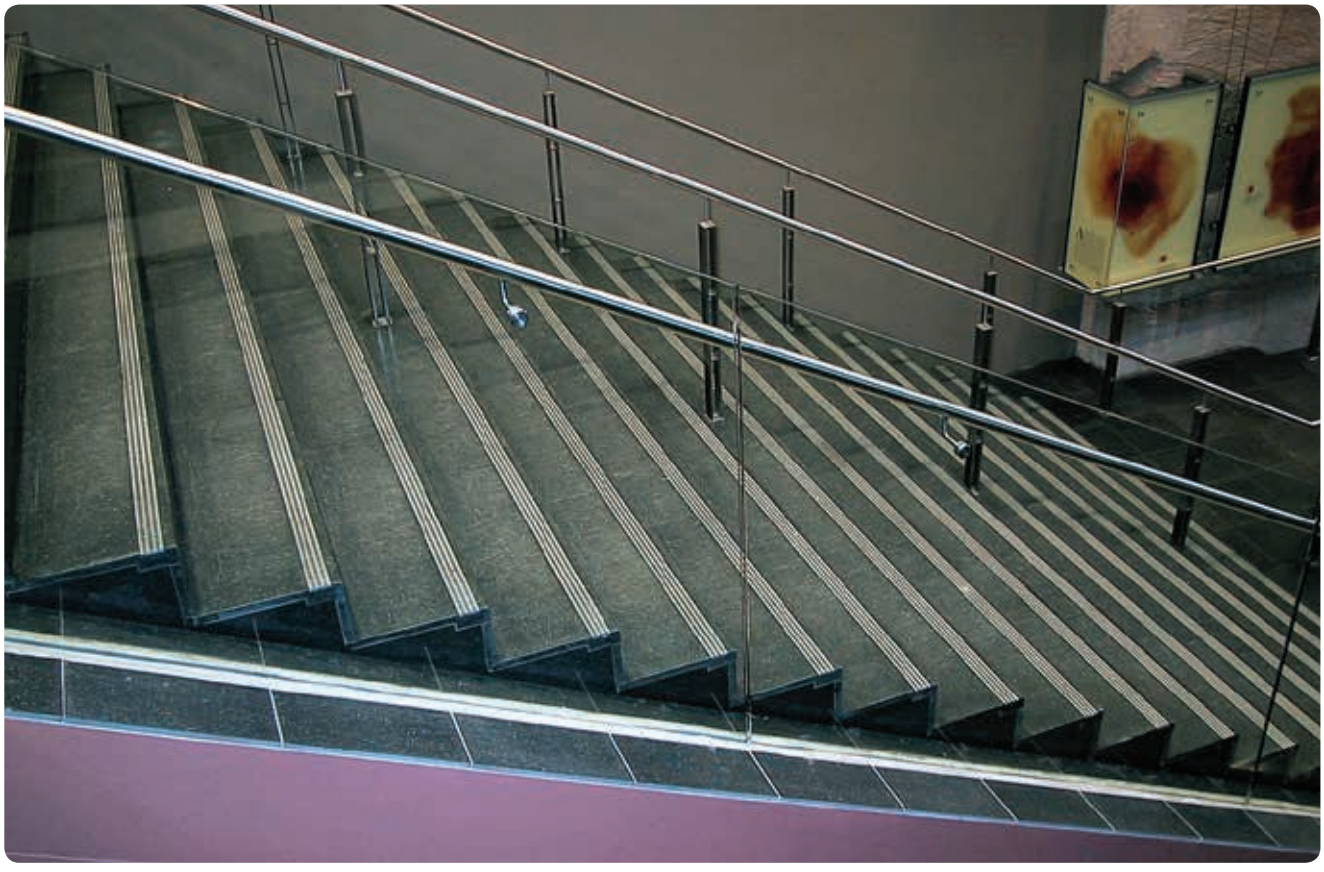
Accelerated Wear Test (AWT)

Although this test does not currently form part of the Australian Standard, the Accelerated Wear Test is increasing in popularity as a method for accessing individual products durability over time. A small pad is rubbed across a test area with 1kg of pressure applied this is normally done 500 or 1000 times and the product measured to see what the wear is. Latham are confident there would be no wear on our products listed here, however the test apparatuses pad has worn out after 30-40 passesover the slip resistant inserts in our products and a result cannot be achieved, it would seem this test is for far less aggressive substrates than stair tread inserts.

Australian Standards are available through SAI Global, http://www.saiglobal.com, whilst the National Construction Code of Australia is available through the Australian Building Codes Board http://www.abcb.gov.au.

International Standards

Many of Latham Asbraloy and Absrabronz Safety Stair Tread Nosings and Inserts also comply with International Standards and standards of best practice. It should be noted that the Australian Standards and National Construction Code in relation to Slip Resistance and Pedestrian Access, Access to Premises and Buildings, and Design Access and Mobility are some of the most up to date in the world and are highly respected and enforced by councils and certifiers. Selected Latham profiles meet or exceed the requirements of the A.D.A (USA), The State of California Code for Stair for the visually impaired, ANSI B101.1, ANSI A1264.2, ASTM F1637, UL-410, the slip resistant requirements of the National Floor Safety Institute, ISSA (CMI), DIN51130, DIN51097, EN13845.



Latham Australia has independant testing carried out by a NATA accredited laboratory

Latham Silicon Carbide inserts for Treads have been independently tested by The University Of New South Wales Optics & Radiometry Laboratory School of Optometry and Vision Science, a National Association of Testing Authorities (NATA) accredited facility in accordance with Appendix B of AS 1428.1-2009 (specifically Clause B3 Measurement of Luminance Contrast – Laboratory) for dry and wet applications.

Instrument used

Spectrophotometer calibrated by a NATA Accredited Calibrating Authority, which complies with Clause B3.2 of AS 1428.1-2009.

Method

Eleven measurements were made on the tread section (aluminium or brass retainer) and the infill of each sample and the mean value calculated. The total area of each sample was determined along with the area of tread (retainer) and infill. The mean luminous reflectance of each sample was then determined from the sum of mean luminous reflectance of each component, as a proportion of the area as calculated above. Measurements are made in wet and dry states.

Results for Latham Aluminium Super Visual Asbraloy Aluminium Tread Striped Inserts

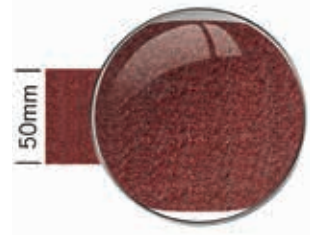
Colour Description	Dry Luminance Reflectance Value	Wet Luminance Reflectance Value
All Black Latham Suregrip™ Insert (Striped)-	5.00%	4.34%
All White Latham Supagrit™ Insert (Striped)-	45.76%	46.58%

Results for Latham Aluminium Asbraloy Aluminium Tread Striped Inserts

Colour Description	Dry Luminance Reflectance Value	Wet Luminance Reflectance Value
Black Latham Suregrip™ Insert (Striped)-	28.99%	28.89%
Teal Latham Supagrit™ Insert (Striped)-	31.19%	31.94%
Blue Latham Supagrit™ Insert (Striped)-	32.01%	32.91%
Brown Latham Supagrit™ Insert (Striped)-	32.75%	32.30%
Terracotta Latham Supagrit™ Insert (Striped)-	34.18%	33.55%
Teak Latham Supagrit™ Insert (Striped)-	35.75%	35.26%
Cactus Green Latham Supagrit™ Insert (Striped)-	36.16%	36.02%
Blue Grey Latham Supagrit™ Insert (Striped)-	37.11%	40.17%
Silver Grey Latham Supagrit™ Insert (Striped)-	37.70%	37.67%
Buff Latham Supagrit™ Insert (Striped)-	40.81%	41.48%
Safety Yellow Latham Supagrit™ Insert (Striped)-	41.14%	40.40%
Off White Latham Supagrit™ Insert (Striped)-	50.17%	48.26%
Lumo Glow in the Dark Latham Supagrit™ Insert (Striped)-	51.62%	53.06%

Results for Latham Aluminium Asbraloy Aluminium and Asbrabronz™ Brass Tread, Solid 50mm Inserts

Colour Description	Dry Luminance Reflectance Value	Wet Luminance Reflectance Value
Black Latham Suregrip™ Insert (Solid 50mm)-	4.45%	3.69%
Brown Latham Supagrit™ Insert (Solid 50mm)-	6.19%	8.63%
Blue Latham Supagrit™ Insert (Solid 50mm)-	7.51%	7.73%
Terracotta Latham Supagrit™ Insert (Solid 50mm)-	8.33%	8.05%
Cactus Green Latham Supagrit™ Insert (Solid 50mm)-	11.58%	11.01%
Teak Latham Supagrit™ Insert (Solid 50mm)-	2.31%	12.02%
Teal Latham Supagrit™ Insert (Solid 50mm)-	15.49%	14.74%
Blue Grey Latham Supagrit™ Insert (Solid 50mm)-	16.71%	18.44%
Silver Grey Latham Supagrit™ Insert (Solid 50mm)-	18.71%	16.61%
Buff Latham Supagrit™ Insert (Solid 50mm)-	21.15%	21.35%
Safety Yellow Latham Supagrit™ Insert (Solid 50mm)-	22.69%	22.20%
Off White Latham Supagrit™ Insert (Solid 50mm)-	36.56%	36.01%
Lumo Glow in the Dark Latham Supagrit™ Insert (Solid 50mm)-	38.75%	39.08%



Luminance Contrast Testing of Latham Tread Insert Infills

Results for Latham Solid Brass Asbrabronz Tread Striped Inserts

Colour Description	Dry Luminance Reflectance Value	Wet Luminance Reflectance Value
Black Latham Suregrip™ Insert (Striped)-	18.66%	17.76%
Brown Latham Supagrit™ Insert (Striped)-	19.55%	22.59%
Terracotta Latham Supagrit™ Insert (Striped)-	20.92%	20.41%
Blue Latham Supagrit™ Insert (Striped)-	21.56%	22.94%
Cactus Green Latham Supagrit™ Insert (Striped)-	24.02%	23.04%
Teak Latham Supagrit™ Insert (Striped)-	24.18%	24.29%
Teal Latham Supagrit™ Insert (Striped)-	25.86%	25.47%
Blue Grey Latham Supagrit™ Insert (Striped)-	26.44%	28.36%
Silver Grey Latham Supagrit™ Insert (Striped)-	27.25%	25.42%
Buff Latham Supagrit™ Insert (Striped)-	27.52%	26.68%
Safety Yellow Latham Supagrit™ Insert (Striped)-	30.57%	30.53%
Off White Latham Supagrit™ Insert (Striped)-	37.67%	38.75%
Lumo Glow in the Dark Latham Supagrit™ Insert (Striped)-	40.82%	40.31%

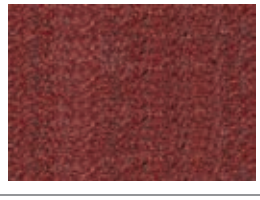
Results for Latham Rufazel™ Stair Treads and Strips

Colour Description	Dry Luminance Reflectance Value	Wet Luminance Reflectance Value
Black Latham Rufazel™ Product-	3.85%	3.14%
Yellow Latham Rufazel™ Product-	45.76%	46.58%

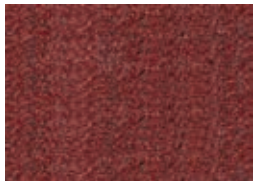
Determination of Luminance Contrast.

AS 1428.1-2009 under Appendix B (informative) sets out the method to determane the mimimun Luminance Contrast between 2 adjoining surfaces by using their luminous reflectance values. The Standard refers to the Bowman-Sapolinski Equation (An Improved Metric for Visual Differentiation using Colour-modified Clinical Eye Charts, Redeemer Baptist School North Parramatta Australia Sapolinski,J., August 2009.).

Minimum Luminance Contrast Requirement in accordance with AS 1428.1-2009 to achieve 30% luminance contrast between the tread and the surrounding floor finish.

Colour	Profile Detail	Dry Luminance Value	Wet Luminance Value	Combined Wet/Dry Lower Limit to Achieve 30% Luminance Contrast*	Combined Wet/Dry Upper Limit to Achieve 30% Luminance Contrast*
Asbraloy Striped Silicon Carbide Mineral Inserts With Visble Aluminium Frame					
Sparkling Black		28.99	28.89	12.87	55.19
Brown		32.75	32.30	14.96	61.33
Blue		32.01	32.91	14.78	61.59
Terracotta		34.18	33.55	15.72	63.66
Cactus Green		36.16	36.02	17.24	66.89
Teak		35.75	35.26	16.77	66.22
Teal		31.19	31.94	14.28	60.01
Blue Grey		37.11	40.17	17.91	73.44
Silver Grey		37.70	37.67	18.25	69.41
Buff		40.81	41.48	20.17	75.57
Safety Yellow		41.14	40.40	19.92	75.02
Off White		50.17	48.26	24.74	89.75
Lumo Luminescent		51.62	53.06	26.80	94.47
Asbraloy and Asbrabronz Solid 50mm Full Abrasive Silicon Carbide Mineral Insert					
Sparkling Black		4.45	3.69	N/A	15.16
Brown		6.19	8.63	N/A	21.98
Blue		7.51	7.73	N/A	20.51
Terracotta		8.33	8.05	0.10	21.49
Cactus Green		11.58	11.01	1.91	26.79
Teak		12.31	12.02	2.53	27.98

Luminance Contrast Testing of Latham Tread Insert Infills

Colour	Profile Detail	Dry Luminance Value	Wet Luminance Value	Combined Wet/Dry Lower Limit to Achieve 30% Luminance Contrast*	Combined Wet/Dry Upper Limit to Achieve 30% Luminance Contrast*
Asbraloy and Asbrabronz Solid 50mm Full Abrasive Silicon Carbide Mineral Insert					
Teal		15.49	15.19	4.47	33.17
Blue Grey		16.71	18.44	5.40	37.98
Silver Grey		18.17	16.61	5.34	37.54
Buff		21.15	21.35	8.12	42.73
Safety Yellow		22.69	22.2	8.77	44.92
Off White		35.67	35.16	16.71	66.09
Lumo Luminescent		38.75	39.08	18.91	71.66
Asbrabronz Striped Silicon Carbide Mineral Inserts With Visible Brass Frame					
Sparkling Black		18.66	17.76	6.05	38.34
Brown		19.55	22.59	7.14	44.75
Blue		21.56	22.94	8.0	45.33
Terracotta		20.92	20.41	7.67	42.03
Cactus Green		24.02	23.30	9.50	47.09
Teak		24.18	24.29	9.98	47.53
Teal		25.86	25.47	10.77	50.09
Blue Grey		26.44	28.36	11.37	54.17
Silver Grey		27.25	25.42	10.74	52.36
Buff		27.52	26.68	11.51	52.80
Safety Yellow		30.57	30.53	13.87	57.77
Off White		37.67	38.75	18.25	71.12
Lumo Luminescent		40.82	40.31	19.87	74.50
Super Visual All White and All Black Profiles					
All Black		5.00	4.340	N/A	16.05
All White		45.76	46.58	23.21	83.89
Rufazel Full Abrasive Industrial Nosing					
Yellow		51.33	51.12	26.49	91.64
Black		3.85	3.14	N/A	14.18

*Upper and lower limits are luminance reflective value that the surrounding flooring must be outside of to achieve the 30% contrast. Flooring luminance reflectance must be below the lower limit or above the upper limit.

It is important to note that this Appendix B of AS 1428.1-2009 is Informative, Standards Australia publication Standardisation Guide 003: For Standards and Other Publications, has the following definition for the term informative.

Informative *is a term used to describe an element (clause, note or appendix) of a Standard that gives additional information, recommendations and/or guidelines, i.e. is of a non-mandatory nature. Where a Standard contains both mandatory and informative elements, the informative material is usually aimed at explaining the mandatory requirements and helping the user to understand and comply with the Standard.*

A copy of the full NATA Accreditted Testing Facilities Results are available by contacting Latham Australia.

GOOD DESIGN ®

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How are Certifiers, Architects, Installers and Others Checking for Luminance Contrast Compliance?

For many years Architects and Certifiers have been asking flooring manufacturers to supply data on the Luminance Reflective Value of their supplied finishes with little success. So they have had to take it upon themselves to obtain the necessary information.

Many professionals have tristimulus colorimeters or spectrophotometers as described in the standard, although for reliable accurate units these can be very expensive. In some cases professionals are employing the services of professional testing facilities to carry out the testing for them. At the Association of Consultants In Access Australia National Conference in November 2013, we heard how a number of people have formed their own testing criteria. Some of the criteria's we heard about are listed below.

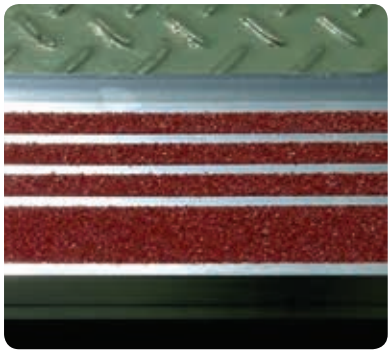
The SQUINT Test

Some individuals look at the 2 items they are trying to check the luminance contrast on. They squint their eyes and if they can still make out a difference between the 2 items, they consider the items achieve the luminance contrast.

This may work but it also may not!

The Sepia and Mono Test

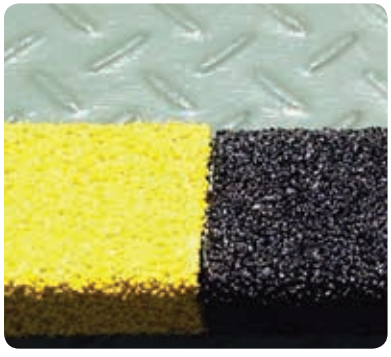
Some people have been taking photos of the 2 surfaces in sepia or mono and have been judging if the colours are complaint. They consider the colours compliant if they can ascertain a difference in the 2 colours in these photographic modes. Here are some examples.

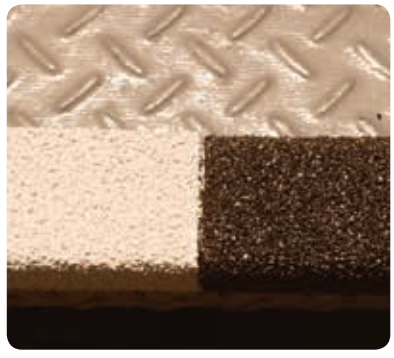


Coloured

Sepia

Mono

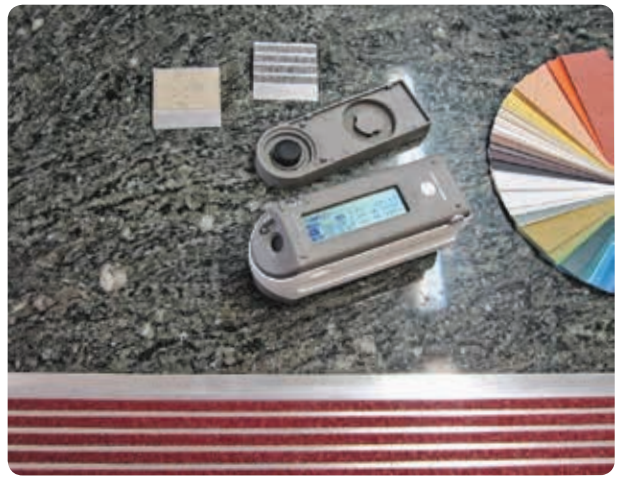




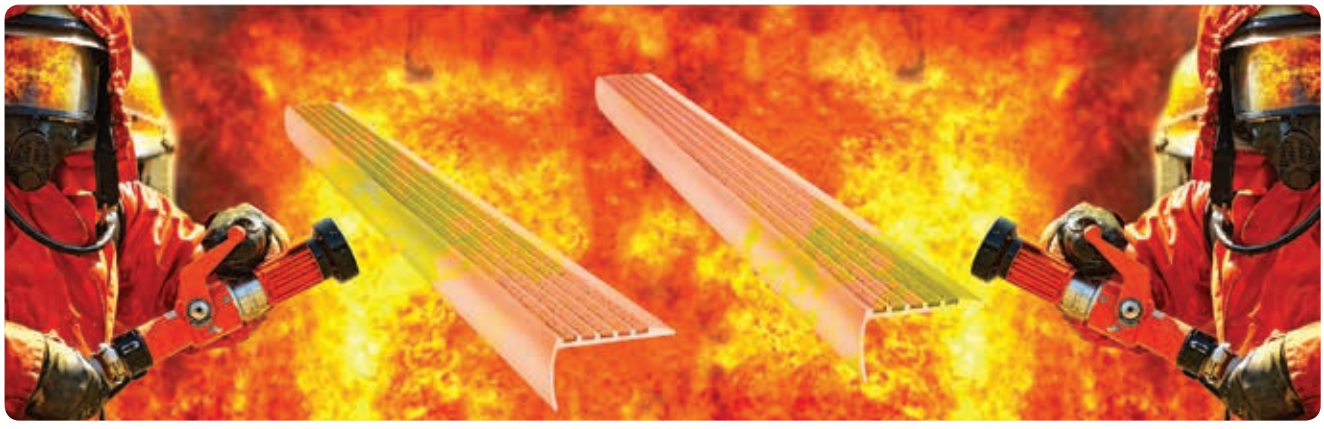
Neither of the above test methods can be considered accurate. Latham have in our Sydney plant a Spectrophotometer Instrument capable of taking the readings necessary as detailed in AS 1428.1-2009 Appendix B and AS/NZS 1428.4.1:2009 Appendix E. The instrument is properly maintained and calabrated by a NATA Accredited Authority. Should buiders and achitects request, Latham can provide indicative luminance testing results for samples of your choosen flooring. We will provide the test results and the luminance contrast between the supplied sample and our stair tread nosings or Tac Tiles.

Let Latham Test it For You! Using the Laboratory Method Detailed in the Australian Standard

Latham Australia Pty Ltd, would be pleased to measure the dry (and wet if required) luminance reflectance value (LRV) for your floor finish, in our laboratory at our Gladesville (NSW) facility. We will then supply a report which indicates which of the Latham's colour range will achieve greater than the 30% luminance contrast with the proposed floor finish. Latham Australia Pty Ltd use a specialised Spectrophotometer which is serviced and calibrated by a NATA accredited facility. If you would like to use this service contact Latham Australia Pty Ltd and request further information on LRV testing by Latham Australia. Email techreq@latham-australia.com.



Fire Testing



Latham Suregrip and Supagrit Stair Tread Nosings and Inserts have been tested in Accordance with Australian Standard ISO 9239, Reaction to Fire Tests for Flooring, Part 1: Determination of the burning behaviour using a radiant heat source, 2003.

Suregrip Results

Sample Identification:	**Latham Asbraloy Slip Resistant Stair Tread Nosings with Suregrip Inserts.**	
Sample Classification:	Mean distance of flame travel:	30.0mm
	Average Critical Radiant Flux:	11.5 kW/m2
	Average smoke obstruction:	12%.min

Supagrit Results

Sample Identification:	**Latham Asbraloy Slip Resistant Stair Tread Nosings with Supagrit Inserts.**	
Sample Classification:	Mean distance of flame travel:	230.0mm
	Average Critical Radiant Flux:	8.7 kW/m2
	Average smoke obstruction:	111%.min

Australian Standards are available through SAI Global, http://www.saiglobal.com , whilst the Building Code of Australia is available through the Australian Building Codes Board http://www.abcb.gov.au.

The above findings are based on information obtained by paid tests carried out on Latham Australia's products by a NATA approved Testing Laboratory on Latham Australia Pty Ltd's behalf. Latham Australia takes no (nil) responsibility for the correctness or relevance of information supplied or implied in any way. It should be noted that batch colours and metal colours may vary which may impact on the detailed results achieved in the previous information. For exact results site testing as detailed in the relevant standard may be required.

A copy of the full test results is available by contacting Latham Australia.

If non-combustible infill is required Latham Australia can offer our special mineral bonded infill (M). Please contact Latham Australia to discuss your requirements.