



**NZ Wool Testing Authority Ltd**

**Client Number 2027**

Textile testing

PO Box 12065, Ahuriri, Napier, 4144  
 Corner Bridge and Lever Streets, Ahuriri, Napier, 4110

**Telephone 06 835-1086**

**www.nzwta.com**

**Authorised Representative**

Mr Duane Knowles  
 Chief Executive Officer

**Programme**

Mechanical Testing Laboratory

**Accreditation Number 1054**

**Initial Accreditation Date 25 February 2011**

**Conformance Standard**

ISO/IEC 17025:2017


General requirements for the competence of testing and calibration laboratories

**Laboratory Services Summary**

4.62                      Textiles

**Key Technical Personnel**

Ms Lorraine Greer	4.62
Mr Christian Judan	4.62
Miss Cathrine Marshall	4.62

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**4.62 Textiles**

**Carpet/Carpet tiles**

Tests in accordance with the following standards and Equivalent Australian, ASTM, British and ISO standards

**(a) Tension and dimensional tests**

Mass/unit area	WNZ/TWC TM 13, AS 2111.3, BS 2471
Pile height	WNZ/TWC TM 20
Dynamic loading	WNZ TM 123, ISO 2094, AS 2111.2
Total pile weight	WNZ/TWC TM 21, AS 2111.11
Static loading, short and long term	WNZ TM 124, 222, ISO 3416, BS 4939, AS 2111.13, AS 2111.14
Tufts/10cm	WNZ/TWC TM 139, 140, AS 2111.9
Pile thickness	WNZ/TWC TM 142, AS 2111.5, AS 2111.21
Fibre identification	WNZ/TWC TM 155
Tuft bind	WNZ/TWC TM 202, BS 5229, AS 2111.15
Shorn pile weight	WNZ/TWC TM 234, AS 2111.4
Surface pile density	WNZ/TWC TM 216
Tetrapod	IWS TM 237
Hexapod	WNZ/TWC TM 247, 251, 284, ISO 13601 Method B
Delamination	WNZ/TWC TM 264, AS 2111.16
Thickness, compression and recovery	BS 4098:1975, AS 2111.17
Underlays	BS 5808, AS 4288
Non-destructive pile thickness	ISO 10834, AS 2111.21
IR Fastness	WNZ/TWC TM 28

**(d) Flammability tests**

Flammability tablet test	ISO 6925, ASTM D2859, AS/NZS 2111.18
Flammability hot metal nut test	BS 4790

**(e) Wear tests**

Colour fastness to water	WNZ/TWC TM 6, AS 2001.4-E01
Abrasion resistance (WIRA)	WNZ/TWC TM 122
Colour fastness to light	WNZ/TWC TM 133, ISO 105-B02, AS 2001.4, B01
Colour fastness to rubbing	WNZ/TWC TM 165, TM 232, ISO 105-X12, AS2111.19.1, AS 2001.4.3
Colour fastness to shampoo	WNZ/TWC TM 233, AS/NZS 2111.19.2
Staining propensity of textile floor coverings	WNZ TM 282
Abrasion resistance weight loss	WNZ/TWC TM 283, BS EN 1813
Hexapod	ISO 13601 Method B

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Assessment of changes in appearance	ISO 9405
Pilling and fuzzing of textile floor coverings using the Usometer	WNZ/TWC 251, WNZ/TWC 253
<b>(f) Other tests</b>	
Extractable matter	WNZ/IWS TM 136, IWTO-10-03, & AS 2001.3.4
Cold water staining	WNZ/TWC TM 256
Hot water texture retention	WNZ/TWC TM 257
Wrinkle recovery of Fabrics: Appearance Method	AATCC Test Method 128: 1989, ISO 9867
<b>Fabrics</b>	
<b>(a) Tension tests</b>	
Tensile strength	WNZ/TWC TM 4, AS 2001.2.3, BS EN ISO 13934, ISO 9073.3, ASTM D828 (Paper), ASTM D3776
Weight/unit area	WNZ/TWC TM 13, AS 2001.2.13, BS 2471
Shrinkage (relaxation and felting)	WNZ/TWC TM 31, ISO 6330, AS 2001.5.4 BS EN 26330, IWTO 50-05
Seam slippage	WNZ/TWC TM 117, AS 2001.2.22, ISO 13436
Seam strength	ISO 13935, AS 2001.2.20
Composition	WNZ/TWC TM 155, ISO 1833, AS 2001.7
Stretch and recovery	WNZ TM 248/ TWC TM 179, BS 4294
Ends/picks/cm	ISO 7211-2, BS EN 1049-2, AS 2001.2.5, AS 2001.2.6
Crimp	ISO 7211-3
Twist, singles, folding	ISO 7211-4
Linear density	ISO 7211-5
Spirality after laundering	ISO 16322
Zippers	AS 2332
<b>(b) Tear tests</b>	
Tear strength	WNZ TM 172, ISO 4674, ISO 13937, AS 2001.2.10, ISO 9073-4, AS 2282.7
<b>(c) Burst tests</b>	
Burst strength	WNZ/TWC TM 29, BS EN ISO 13938-1, BS 4768, ASTM D3786, AS 2001.2.4, ASTM D774C (Paper)
<b>(d) Flammability tests</b>	
Ignitability of upholstered seating, smouldering & flaming ignition sources	BS 5852:2006, 1979, 1982, BS EN 1021:1994 (pt 1 & 2), AS 3744.1, AS 3744.2, AS 3744.3, IMO Resolution MSC.307 (88), (2010 FTP CODE), Annex 1, Part 8, BS EN 597.1, BS EN 597.2

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Smouldering ignitability	AS/NZS 4088.1:1996 (2013)
Ignitability of mattresses, upholstered divans and upholstered bed bases with flaming types of primary and secondary sources of ignition	BS 6807:2006
Ignitability of bedcovers and pillows by smouldering and flaming ignition sources	BS 7175:1989
Resistance to ignition of mattresses, mattress pads, divans and bed bases	BS 7177:2008+A1:2011
Test for flammability of building materials	AS 1530.2-1993 (R2016)
Protective clothing – Protection against flame – Method of test for limited flame spread	ISO 15025:2016
<b>(e) Wear tests</b>	
Abrasion resistance	WNZ/TWCIWS TM 112, IWTO-40-02 Draft, ISO 12947, AS 2001.2.25
Pilling (Pillbox)	WNZ/TWC TM 152, ISO 12945-1
Colour fastness to rubbing	WNZ/TWC TM 165
Pilling (Martindale),	WNZ/TWC TM 196
Pilling using the Martindale	SN198525, ISO 12945-2, ASTM D4790
The rubbing fastness refers to ISO 105 A04 for instrumental assessment	AS/NZS 2111.19.1:96
<b>(f) Other tests</b>	
Colour fastness to light	WNZ/TWC TM 5, ISO 105-B02
Colour fastness to perspiration	WNZ/TWC TM 174, ISO 105-E04, AS 2001.4.17
Colour fastness to acid environment	WNZ/TWC TM 175, AS 2001.4.17
Colour fastness to machine washing	WNZ/TWC TM 193, AS 2001.4.15
Colour fastness to washing (hand washing)	WNZ/TWC TM 250, AS 2001.4.15
Colour fastness to solvents	AS 2001.4.16, ISO 105-D01
Woolpack, Bale wrappers (Jute, polyethylene and nylon)	AS/NZS 4546:1999
Resistance of fabrics to artificial shower	BS 5066:74 (93)
Protective clothing for users of hand-held chainsaws. Part 2: Test methods for leg protectors – Clauses 5, 6, & 7	EN 381.2, EN 381.5, AS/NZS 4453.2:1997, AS/NZS 4453.3
Garment design	In-house methods for AS/NZS 4602.1 App. A, NZTA Garments, Forestry Garments
Colour luminance factor test	AS/NZS 1906.1 App C
Loop Slippage	In-house test for Terry Towel

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**Yarn**

Evenness	IWTO 18-00
Linear density	BS EN ISO 2060:1995, AS 2001.2.23, ISO 2060:1994
Twist (singles and folding)	BS EN ISO 2061:1996, AS 2001.2.14
Strength and extension	ISO 2062:1993, BS EN ISO 2062:1995

**Other materials**

Colour luminance factor test	AS/NZS 1906.4 App A
Topical moisture resistance	ISO 4760:2022 (modified)
Laminate flooring (excluding sample assembly)	
Topical moisture resistance	In-house based on ISO 4760:2022
Resilient Floor coverings (excluding sample assembly)	

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