



All tests reported herein
have been performed in
accordance with the
laboratory's scope of
accreditation

CLIENT:
Gilt Edge Industries Limited
PO Box 7515
Sydenham, Christchurch 8240

SAMPLE RECEIVED FROM:
Gilt Edge Industries Limited

Date Received: 27.11.23

SAMPLE DESCRIPTION:
CNZ 11mm/105kg blue laminate carpet underlay.

1 of 4

AS 4288:2003 - SOFT UNDERLAYS FOR TEXTILE FLOOR COVERINGS

ISO 9073-3 1989 DETERMINATION OF BREAKING FORCE AND EXTENSION

- Date Tested: 5/12/2023
- 5 warp and 5 weft, 50 mm width samples
- Crosshead speed 100mm/min

	Average Results	Performance Requirements	Compliance to Standard
Breaking Force - Warp	77.2 Newton	Min. 40 Newton	Pass
S.D.	3.8		
CV%	5.0		
% Extension - Warp	10.6%	Max. 20% at 40 Newton	Pass
S.D.	0.4		
CV%	3.9		

AS 2111.1. 1996 DETERMINATION OF THICKNESS OF TEXTILE FLOOR COVERINGS

- Date Tested: 28/11/2023
- 10 tests in conditioned state

	Thickness	Performance Requirements	Compliance to Standard
Average (mm)	10.8	Maximum Range (min. to max): Non-fibrous – 3mm Fibrous & combined – 4mm	Pass
Minimum (mm)	10.7		
Maximum (mm)	11.0		
Range	0.3		
S.D.	0.1	Thickness must not deviate to original thickness by: Non-fibrous – 12% max Fibrous & combined – 15% max.	
CV%	0.7		

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C Judan
Key Technical Person

05/12/2023



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AS 4288:2003 - SOFT UNDERLAYS FOR TEXTILE FLOOR COVERINGS

AS/NZS 2111.14 DETERMINATION OF THICKNESS LOSS AFTER PROLONGED, HEAVY STATIC LOADING OF TEXTILE FLOOR COVERINGS

- Date Tested: 28/11/2023
- 5 samples, tested in conditioned state
- Load applied for 24 hours at 700 kPa pressure

	Thickness Loss (mm)	% Thickness Loss	Performance Requirements	Compliance to Standard
2 Minutes Recovery	1.3	12.0	After 24 Hours Recovery: Non-fibrous – 15% max. Fibrous & combined – 40% max.	Pass
60 Minutes Recovery	0.6	5.5		
24 Hours Recovery	0.3	2.8		

AS/NZS 2111.2 DETERMINATION OF THICKNESS LOSS UNDER DYNAMIC LOADING OF TEXTILE FLOOR COVERINGS

- Date Tested: 28/11/2023
- 2 samples tested in conditioned state
- 1000 impacts applied

	Thickness Loss (mm)	% Thickness Loss	Performance Requirements	Compliance to Standard
Average	0.3	3.0	Non-fibrous – 15% max. Fibrous – 40% max. Combined – 20% max.	Pass
S.D.	0.0	-		

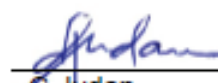
APPENDIX B- METHOD FOR DETERMINING OF RESISTANCE TO BREAKING AND CRACKING

- Date Tested: 28/11/2023

	Breaking & Cracking	Performance Requirements	Compliance to Standard
Warp	No crack in foam (felts excluded)	No cracks longer than 50mm No cracks in any backing material	Pass
Weft	No crack in foam (felts excluded)		Pass

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AS 4288:2003 - SOFT UNDERLAYS FOR TEXTILE FLOOR COVERINGS

APPENDIX A

- Date Tested: 28/11/2023

- 4 samples tested in conditioned state

	Results
Average Initial Thickness at 2 kPa	10.3mm
Average Thickness at 2 kPa After Dynamic Loading	10.2mm
Average Deflection Before Dynamic Loading at 100 kPa	7.5mm
Average Deflection After Dynamic Loading at 100 kPa	7.6mm
Average Work of Compression Before Dynamic Loading	236 J/m ²
Average Work of Compression After Dynamic Loading	204 J/m ²
% Retention of Original Work of Compression	86.7%

	Performance Requirements	Compliance to Standard
Deflection After Dynamic Loading at 100 kPa:	1.5 mm minimum	Pass
	9.0 mm maximum	Pass
Work of Compression After Dynamic Loading:	50 J/m ² minimum	Pass
Retention of Original Work of Compression:	40% minimum	Pass

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NZWTA
WOOL TESTING



NZWTA
TEXTILES AND
MATERIALS TESTING



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