



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

No. 1525652.2

(Please quote this number in all correspondence)

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

Attn.: Nick Richardson

SAMPLE RECEIVED FROM:
Gild Edge Industries Limited

SAMPLE DESCRIPTION:
Double bond foam underlay 5.5mm/140kg.
"Giltgrip Doublebond 5"

Date Received: 2.8.24

Client Order No.: Nick 300724

Client Reference:

1 of 5

AS 4288:2003 - SOFT UNDERLAYS FOR TEXTILE FLOOR COVERINGS

ISO 9073-3 1989 DETERMINATION OF BREAKING FORCE AND EXTENSION

- Date Tested: 6/8/2024
- 5 warp and 5 weft, 50 mm width samples
- Crosshead speed 100mm/min

	Average Results	Performance Requirements	Compliance to Standard
Breaking Force - Warp	227 Newton	Min. 40 Newton	Pass
S.D.	6.8		
CV%	3.0		
Breaking Force - Weft	136 Newton	Min. 40 Newton	Pass
S.D.	11.5		
CV%	8.5		
% Extension - Warp	6.5%	Max. 20% at 40 Newton	Pass
S.D.	0.1		
CV%	2.2		
% Extension - Weft	1.1%	Max. 20% at 40 Newton	Pass
S.D.	0.2		
CV%	16.9		

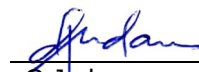
AS 2111.1. 1996 DETERMINATION OF THICKNESS OF TEXTILE FLOOR COVERINGS

- Date Tested: 5/8/2024
- 10 tests in conditioned state

	Thickness	Performance Requirements	Compliance to Standard
Average (mm)	5.8	Maximum Range (min. to max): Non-fibrous – 3mm Fibrous & combined – 4mm	Pass
Minimum (mm)	5.5		
Maximum (mm)	6.0		
Range	0.5		
S.D.	0.2	Thickness must not deviate to original thickness by: Non-fibrous – 12% max Fibrous & combined – 15% max.	Pass
CV%	2.6		

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C Judan
Key Technical Person

07/08/2024



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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: 5/8/2024
- 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	1.8	31.0	After 24 Hours Recovery: Non-fibrous – 15% max. Fibrous & combined – 40% max.	Pass
60 Minutes Recovery	1.0	17.4		
24 Hours Recovery	0.4	7.3		

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

- Date Tested: 5/8/2024
- 2 samples tested in conditioned state
- 1000 impacts applied

	Thickness Loss (mm)	% Thickness Loss	Performance Requirements	Compliance to Standard
Average	0.5	8.4	Non-fibrous – 15% max. Fibrous – 40% max. Combined – 20% max.	Pass
S.D.	0.0	/		

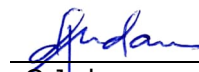
APPENDIX B- METHOD FOR DETERMINING OF RESISTANCE TO BREAKING AND CRACKING

- Date Tested: 5/8/2024

	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: 5/8/2024

- 4 samples tested in conditioned state

	Results
Average Initial Thickness at 2 kPa	6.0mm
Average Thickness at 2 kPa After Dynamic Loading	5.8mm
Average Deflection Before Dynamic Loading at 100 kPa	2.3mm
Average Deflection After Dynamic Loading at 100 kPa	3.2mm
Average Work of Compression Before Dynamic Loading	109 J/m ²
Average Work of Compression After Dynamic Loading	111 J/m ²
% Retention of Original Work of Compression	101%

	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
	200 J/m ² maximum	Pass
Retention of Original Work of Compression:	40% minimum	Pass

Designation and description of intended use/application as per Figure 1 of AS 4288-2003:

HC - Heavy commercial use, suitable for heavy foot and wheel traffic and castor chairs.

Note: this designation is calculated on the test results from dynamic loading and work of compression. The other performance requirements must also be met in order to label per AS 4288-2003.

Classification:

LR Light residential use, not suitable for stairs
GR General Residential use
L Luxury use, domestic/commercial where high energy absorption is desirable
GC General commercial use, suitable for normal foot and wheel traffic
HC Heavy commercial use, suitable for heavy foot and wheel traffic and castor chairs

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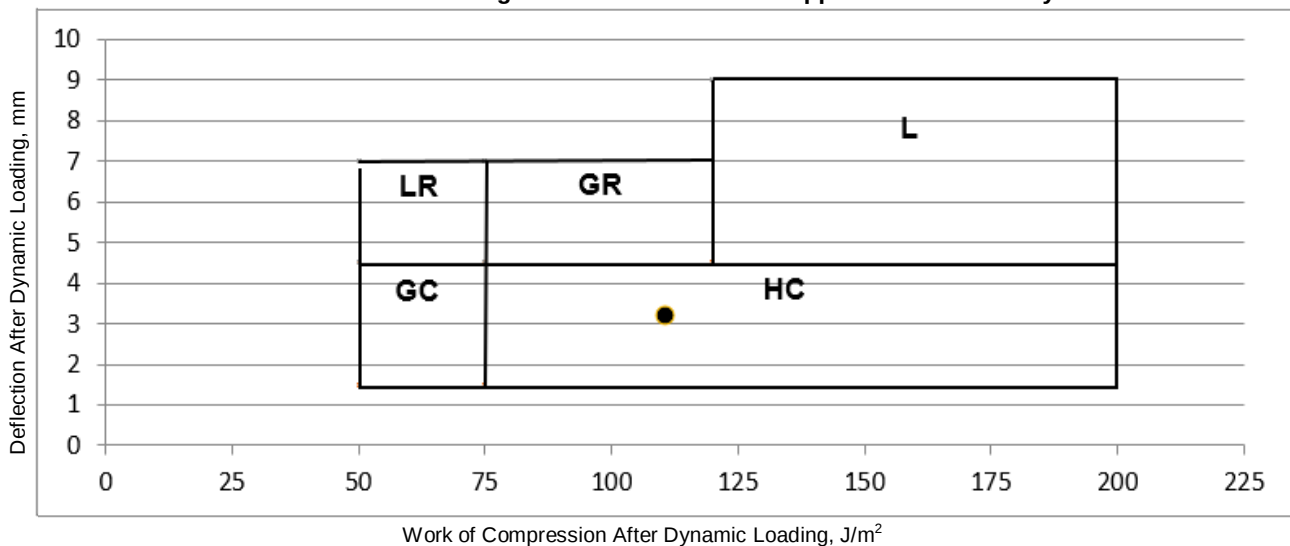
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Classification & Designation for Intended Use/Application of Underlays



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NZWTA
WOOL TESTING



NZWTA
TEXTILES AND
MATERIALS TESTING



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