

CLIENT:  
Floorco Trading Ltd.  
38 Galway St.  
Onehunga, Auckland

SAMPLE RECEIVED FROM:  
Floorco

Date Received: 13.11.23

Attn.: Terry Shi

SAMPLE DESCRIPTION:  
10mm yellow laminate underlay.

Client Order No.:

Client Reference:

1 of 4

### AS 4288:2003 (R2016) - SOFT UNDERLAYS FOR TEXTILE FLOOR COVERINGS.

#### ISO 9073-3 1989 DETERMINATION OF BREAKING FORCE AND EXTENSION

- Date Tested: 15/11/2023
- 5 warp and 5 weft, 50 mm width samples
- Crosshead speed 100mm/min

	Average Results	Performance Requirements	Compliance to Standard
Breaking Force - Warp	46.4 Newton (4.7 kgf)	Min. 40 Newton (4.1 kg)	Pass
S.D.	2.4		
CV%	5.3		
Breaking Force - Weft	60.7 Newton (6.2 kgf)	Min. 40 Newton (4.1 kg)	Pass
S.D.	3.2		
CV%	5.3		
% Extension - Warp	17.2%	Max. 20% at 40 Newton	Pass
S.D.	0.9		
CV%	5.5		
% Extension - Weft	14.5%	Max. 20% at 40 Newton	Pass
S.D.	0.8		
CV%	5.4		

### AS 2111.1. 1996 DETERMINATION OF THICKNESS OF TEXTILE FLOOR COVERINGS

- Date Tested: 14/11/2023
- 10 tests in conditioned state

	Thickness	Performance Requirements	Compliance to Standard
Average (mm)	9.8	Maximum Range (min. to max): Non-fibrous – 3mm Fibrous & combined – 4mm  Thickness must not deviate to original thickness by: Non-fibrous – 12% max Fibrous & combined – 15% max.	Pass
Minimum (mm)	9.6		
Maximum (mm)	10.1		
Range	0.5		
S.D.	0.2		
CV%	1.6		

**“THIS REPORT APPLIES ONLY TO THE SAMPLES TESTED”**

Samples and their identifying descriptions have been provided by the client unless otherwise stated. NZWTA Ltd makes no warranty, implied or otherwise as to the source of the tested samples. The above results are designed to provide THE CLIENT WITH GUIDANCE INFORMATION ONLY. This document shall not be reproduced except in full.

  
C Judan  
Key Technical Person

16/11/2023

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

- Date Tested: 14/11/2023
- 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	2.0	20.1	After 24 Hours Recovery: Non-fibrous – 15% max. Fibrous & combined – 40% max.	Pass
60 Minutes Recovery	0.8	8.0		
24 Hours Recovery	0.3	3.4		

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

- Date Tested: 14/11/2023
- 2 samples tested in conditioned state
- 1000 impacts applied

	Thickness Loss (mm)	% Thickness Loss	Performance Requirements	Compliance to Standard
Average	0.6	5.6	Non-fibrous – 15% max. Fibrous – 40% max. Combined – 20% max.	Pass
S.D.	0.1	/		

## AS 4288:2003 (R2016) - SOFT UNDERLAYS FOR TEXTILE FLOOR COVERINGS.

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

- Date Tested: 14/11/2023

	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 (R2016) - SOFT UNDERLAYS FOR TEXTILE FLOOR COVERINGS APPENDIX A

- Date Tested: 14/11/2023
- 4 samples tested in conditioned state

	Results
Average Initial Thickness at 2 kPa	9.7mm
Average Thickness at 2 kPa After Dynamic Loading	9.4mm
Average Deflection Before Dynamic Loading at 100 kPa	6.4mm
Average Deflection After Dynamic Loading at 100 kPa	6.5mm
Average Work of Compression Before Dynamic Loading	246 J/m <sup>2</sup>
Average Work of Compression After Dynamic Loading	195 J/m <sup>2</sup>
% Retention of Original Work of Compression	79.1%

	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 <sup>2</sup> minimum	Pass
	200 J/m <sup>2</sup> 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:

**Luxury** – luxury use, domestic /commercial where high energy absorption is desirable.

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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Key Technical Person

16/11/2023



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

**No. 1488366.4**

(Please quote this number in all correspondence)

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