

TEST REPORT

DATE: 01-14-2025
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TEST NUMBER: 0313881

CLIENT	Urban Surfaces
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TEST METHOD CONDUCTED	NALFA Macro-Scratch Test Method
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DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	Timber Haus
CONSTRUCTION	8mm + 1mm Eco Pad Laminate Water Resistant
BACKING	1mm Eco Pad

GENERAL PRINCIPLE

This test method provides a comparative rating for scratch performance of flooring samples. Specimens are evaluated against an example set of pictures and illustrations in order to rate an individual specimen on a scale of 0 (little to no change) to 3 (severe change). This test method is subjective, no precision statement has been determined.

SUMMARY

A scratch is applied onto the specimen surface under an increasing normal load from 2 to 100 N (60.5 N) over a distance of 0.1 m (60.0001 m) at a constant scratch rate of 0.1 m/s (60.0005 m/s) using a 1 mm stylus. The suggested material for the scratch stylus tip is #440 Stainless Steel (Specification A276/A276M). Other materials for the stylus tip are acceptable so long as they have higher indentation hardness than the material to be tested. The stylus tip shall be spherical in shape with a diameter of 1 mm (62.54 µm). This test mode is intended to determine the critical normal load for failure for a material system. A test is considered valid when the point of failure shows a scratch width of 0.50mm for 50% or more of the test length. For materials that do not exhibit failure in this range, the load range shall be changed to ensure that the point of failure occurs in at least 50% of the scratch path. A second value is obtained by reporting the 1st visible sign of scratch under normal non-magnified viewing.

MACRO-SCRATCH TESTING PARAMETERS

Cycles	Scratch Pattern	Scratch Grain Orientation	Abrasion Type	Weight (per station)
50	Straight	Perpendicular to the scratch pattern	3M Pro Grade Precision – 80 grit	6 N + 6N discs (total disc weight = 920 g) Total weight (discs+spindle+holder) = 1070 ± 20g

TEST RESULTS

RATING 1	RATING 2	RATING 3	AVERAGE RATING
1.5	1.5	1.5	1.5

Final Average Rating	Final Rating
0 – 0.9	Little to no visible change in scratch or gloss
1.0 – 1.9	Slight amount of linear scratches and/or dulling
2.0 – 2.9	Significant amount of linear scratches and/or dulling
3	Severe amount of linear scratches and or/dulling

APPROVED BY:


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