



IPAL TEST REPORT NUMBER: IPAL-0758-23 **PAGE: 1 OF 4**

TEST REQUESTED BY: DMX Membranes Limited

TEST METHOD: ANSI A118.10 Specification for Load Bearing, Bonded, Waterproof Membranes for Thin-set Ceramic Tile and Dimension Stone Installation

TEST SUBJECT MATERIAL: Identified by client as: “DMX Tile Membrane”
Description of sample received: Roll of Membrane

TEST DATE: 12/8/2023 – 4/4/2024

TEST PROCEDURE NOTES:

All specimens were set up and tested according to the method specified in ANSI A118.10.

- Section 4.1 Fungus and Micro-Organism Resistance: The membrane was set-up and tested according to the procedure specified in ANSI A118.10.
- Section 4.2 Seam Strength: The seam was created by butting two pieces of the membrane together and securing them together using DMX Vapour Band and Custom VersaBond-LFT Professional Large Format Tile Mortar, per the client’s request. Three specimens were tested according to the procedure specified in ANSI A118.10.
- Section 4.3 Breaking Strength: The membrane was set-up and tested according to the procedure specified in ANSI A118.10. Ten Specimens were tested, five in the longitudinal direction of the membrane and five in the transverse direction.
- Section 4.4 Dimensional Stability: The membrane was set-up and tested according to the procedure specified in ANSI A118.10.
- Section 4.5 Waterproofness: The membrane was set-up and tested according to the procedure specified in ANSI A118.10.
- Section 5.0 Shear Strength: The specimens were prepared according to the client’s instructions and tested per ANSI A118.10. The membrane was bonded to the concrete block substrates using Custom VersaBond-LFT Professional Large Format Tile Mortar with a 1/4" x 1/4" square-notched trowel per the client’s request. The 4"x4" porcelain tile specimens were bonded to the membrane using Custom VersaBond-LFT Professional Large Format Tile Mortar. The specimens were subsequently allowed to cure according to the cure parameters listed in ANSI A118.10. Four specimens were tested per cure parameter.

TEST RESULTS:

Test Designation	Test Description	Evaluation	ANSI Specification
4.1	Mold Growth	Membrane does not support mold growth	“Membrane shall not support mold growth”
4.2	Seam Strength	52 lbf	16 lbf/2" width
4.3	Breaking Strength Longitudinal Transverse	430 PSI 427 PSI	170 PSI minimum 170 PSI minimum





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TEST RESULTS CONTINUED:

Test Designation	Test Description	Evaluation	ANSI Specification
4.4	Dimensional Stability Center Longitudinal (158°F) Longitudinal (-15°F) Transverse (158°F) Transverse (-15°F) Edge Longitudinal (158°F) Longitudinal (-15°F) Transverse (158°F) Transverse (-15°F)	-0.51% 0.00% -0.38% -0.03% -0.50% -0.04% -0.32% 0.00%	0.7% max. length change 0.7% max. length change
4.5	Waterproofness	No moisture penetration	No moisture penetration after 48 hrs
5.0	Shear Strength to Ceramic Tile and Cement Mortar		
5.3	7-Day shear strength	64 PSI	> 50 PSI
5.4	7-Day water immersion shear strength	52 PSI	> 50 PSI
5.5	4-Week shear strength	67 PSI	> 50 PSI
5.6	12-Week shear strength	76 PSI	> 50 PSI
5.7	100-Day water immersion shear strength	70 PSI	> 50 PSI

COMMENTS: None

