

October 5, 2022

GoNano Inc
Francis Hebert
10915 rue de la topaze
Mirabel, QC, J7N 0T6 CA

Our Reference: Project 4790550987 / File SV32011
Fire Testing on Treated Asphalt Shingles

Dear Francis Hebert,

This is a Report summarizing the results of tests conducted under the Verification Services (VS) program of UL LLC (UL) as Project No. 4790550987. Testing was conducted on treated asphalt shingles, per the following standard:

- UL 790 – Standard Test Methods for Fire Tests of Roof Coverings, 9th Edition, Revised February 18th, 2022

The attached test results constitute the only report provided to you under this investigation. These results relate only to the items tested. The samples utilized in this investigation were neither prepared nor selected by a UL representative such that no verification of composition can be provided.

Summary of Test Results

Materials were tested in an as-received condition.

Sys. #	Deck Thick.	Description of System
1	3/8	Underlayment: One ply GAF “Shingle-Mate™ Roof Deck Protection”, mechanically fastened with staples Prepared Roof Covering: Shingles with experimental treatment, mechanically fastened according to manufacturer's installation instructions *Test deck conditioned for 16 continuous hours within temperature range of 135 to 140° F prior to fire testing
2	15/32	Underlayment: One ply GAF “Shingle-Mate™ Roof Deck Protection”, mechanically fastened with staples Prepared Roof Covering: Shingles with experimental treatment, mechanically fastened according to manufacturer's installation instructions

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Summary of Test Results (Continued)

Spread of Flame Testing

Test code	System	Class	Incline (Inches/ Foot)	Maximum Flame Spread (Feet)	Time of Max Flame Spread (Min:Sec)	Pass
09272202	2	A	5	3	8:01	Yes

Intermittent Flame Testing

Test Code	System	Class	Slope of Deck (in./ft.)	First Smoke on Undersi de (h:mm:s s)	Asphalt Dripping on Undersi de (h:mm:s s)	Time of Glow on Undersi de (h:mm:s s)	Depth of Char (in.)	Durati on of Test (mins.)	Pass
09282201	1	A	5	00:30:22	N/A	N/A	1/8	79.1	Yes

Burning Brand Testing

Test Code	System	Class	Slope of Deck (in./ft.)	First Smoke on Undersi de (h:mm:s s)	Asphalt Dripping on Undersi de (h:mm:s s)	Time of Glow on Undersi de (h:mm:s s)	Depth of Char (in.)	Durati on of Test (mins.)	Pass
09282206	1	A	5	00:06:53	N/A	00:14:54	0	50.4	Yes

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