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Instacoat Premium Products
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Subject: Approval Testing of Instacoat Membrane in Recover Construction

Project Number: 3020884

Dear sir/madam:

I am writing to outline the testing completed for the subject program. Six ASTM E108 tests and two Simulated Wind Uplift Tests were constructed and tested. The components, sequence of installation and results are as follows:

ASTM E108 Tests

Samples 1 & 2:

- ½ in. (13 mm) thick plywood deck
- 1 in. (26 mm) thick wood fiber insulation, mechanically fastened
- 3 ply BUR using JM GlasPly IV with asphalt flood coat
- 26 ga. (36" panel ¾" trapezoidal ribs on 9" centers Rib Metal Roofing Panel
- Liquid Linings coating applied at 8.3 gal/sq at 0.09 in. thick (2.2 gal per sample)

Samples 3 & 4:

- ½ in. (13 mm) thick plywood deck
- 1 in. (26 mm) thick wood fiber insulation, mechanically fastened
- 1 ply JM GlasPly IV adhered with asphalt
- 26 ga. (36" panel ¾" trapezoidal ribs on 9" centers Rib Metal Roofing Panel
- 1 ply JM Dynalastic 180 S SBS modified bitumen adhered with asphalt
- Liquid Linings coating applied at 8.3 gal/sq at 0.09 in. thick (2.2 gal per sample)

Samples 5 & 6:

- ½ in. (13 mm) thick plywood deck
- 26 ga. (36" panel ¾" trapezoidal ribs on 9" centers Rib Metal Roofing Panel
- 1 in. (26 mm) thick wood fiber insulation, mechanically fastened

- 1 ply JM GlasPly IV adhered with asphalt
- 1 ply JM Tricor or Bicolor S APP modified bitumen, torch applied
- Liquid Rubber coating applied at 8.3 gal/sq at 0.09 in. thick (2.2 gal per sample)

Results of the ASTM E108 Spread of Flame tests:

<u>Sample No.</u>	<u>Slope</u>	<u>Class Tested</u>	<u>Max Flame Spread</u>	<u>Class Passed</u>
1	½ in 12	A	74 in. (1880 mm)	None
2	½ in 12	A	64 in. (1626 mm)	None
3	½ in 12	A	64 in. (1626 mm)	C
4	½ in 12	A	59 ½ in. (1511 mm)	C
5	½ in 12	A	67 in. (1702 mm)	None
6	½ in 12	A	68 in. (1727 mm)	C

Sample 1 – excessive lateral flame spread was observed at 3:55

Sample 2 – excessive lateral flame spread was observed at 3:48

Sample 3 – excessive lateral flame spread was observed at 5:00

Sample 4 – excessive lateral flame spread was observed at 4:56

Sample 5 – excessive lateral flame spread was observed at 3:30

Sample 6 – excessive lateral flame spread was observed at 4:12

Simulated Wind Uplift Tests

Sample 1:

- Primed structural concrete / steel
- 3 ply BUR using JM GlasPly IV with asphalt flood coat
- 26 ga. (36" panel ¾" trapezoidal ribs on 9" centers Rib Metal Roofing Panel
- Liquid Linings Coating applied at 8.3 gal/sq at 0.09 in thick (0.33 gal per sample)

Sample 2:

- Primed structural concrete / steel
- 1 ply JM Tricor or Bicolor S APP modified bitumen, torch applied
- 26 ga. (36" panel ¾" trapezoidal ribs on 9" centers Rib Metal Roofing Panel
- Liquid Linings Coating applied at 8.3 gal/sq at 0.09 in thick (0.33 gal per sample)

Results of Simulated Wind Uplift tests:

<u>Sample</u>	<u>Maximum Uplift Load</u>
1	975 psf
2	810 psf

The hail/UV/hail/leakage/foot traffic test has not been completed to date. Approvals have been granted for the above assemblies. If you have any questions, please advise.

Very truly yours,

Jill E. Murphy
Engineer

Gorge T Delanco, PE
Technical Team Manager