

RAMTECH LABORATORIES



14104 ORANGE AVENUE, PARAMOUNT, CALIFORNIA 90723-2019
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February 6, 2013

Attn: Greg Stephan
Fasten Seal Products, LLC.
E-Mail: greg@fastenseal.com

Test: Water Penetration

Summary Report (Laboratory Number 3336-12-12)

General:

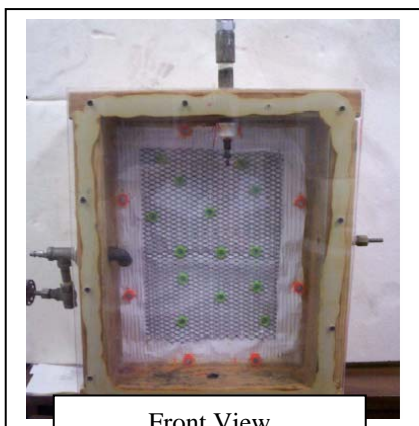
In Accordance with your request, Ramtech laboratories conducted small scale water penetration test in general accordance with ASTM E-331 on the client's submitted fastener identified as "Fasten-Seal" with Butyl Rubber Sealant

Purpose:

The purpose of this small scale test was to evaluate the resistance of the client's fastener to water penetration when exposed to a simulated wind-driven rain

Procedure:

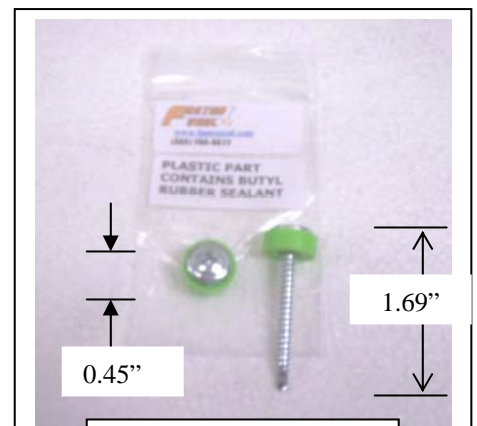
The client's fastener was installed into a simulated exterior wall system having a ½" plywood substrate as presented in the photos below and subjected to a water spray of four (4) gallons per hour while under a test pressure of 2.86 pounds per square foot for 15 minutes as described in ASTM E-331.



Front View



Back View



Fastener Used

Results:

To the extent tested, the client's fastener showed no points of water penetration through the simulated exterior wall system as presented above

Reported by:

Steven Berggren
Laboratory Administrator

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March 6, 2013

Attn: Greg Stephan
Fasten Seal Products, LLC.
E-Mail: greg@fastenseal.com

Test: Water Penetration

Summary Report (Laboratory Number 3374-13-02-A)

General:

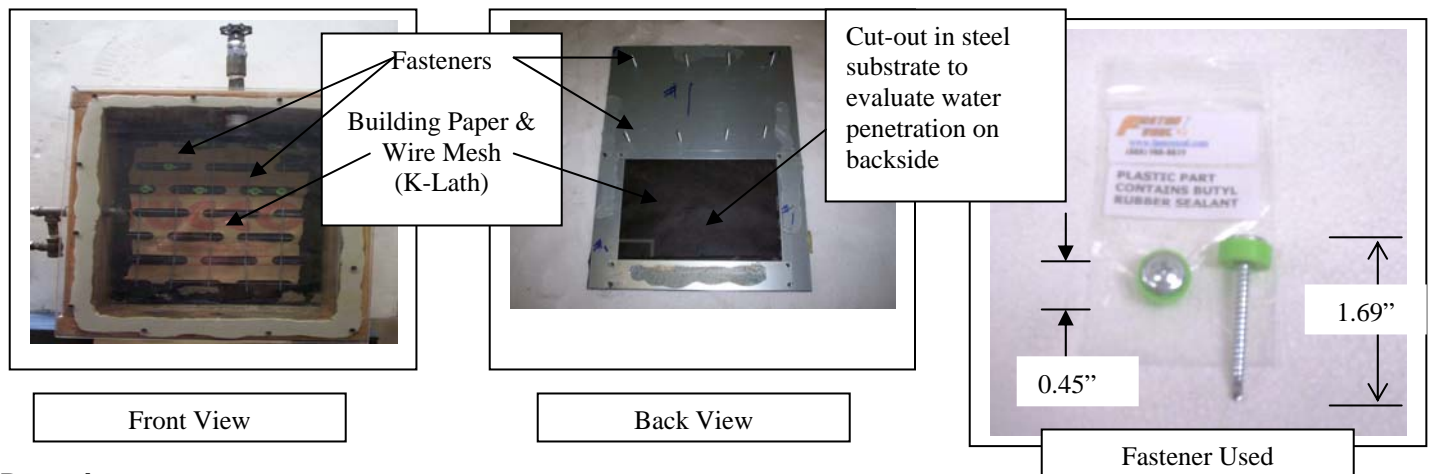
In Accordance with your request, Ramtech laboratories conducted small scale water penetration test in general accordance with ASTM E-331 on the client's submitted fastener identified as "Fasten-Seal" with Butyl Rubber Sealant

Purpose:

The purpose of this small scale test was to evaluate the resistance of the client's fastener to water penetration when exposed to a simulated wind-driven rain

Procedure:

The client's fastener was installed into a simulated exterior wall system having a 0.060 inch galvanized steel substrate, "Building-Paper & Wire Mesh" (K-Lath) as presented in the photos below and subjected to a water spray of four (4) gallons per hour while under a test pressure of 2.86, 5.19 & 10.39 pounds per square foot for 15, 30 & 45 minutes as described in ASTM E-331.



Results:

To the extent tested, the client's fastener showed no points of water penetration through the simulated exterior wall system as presented above

Reported by:

Steven Berggren
Laboratory Administrator

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March 6, 2013

Attn: Greg Stephan
Fasten Seal Products, LLC.
E-Mail: greg@fastenseal.com

Test: Water Penetration

Summary Report (Laboratory Number 3374-13-02)

General:

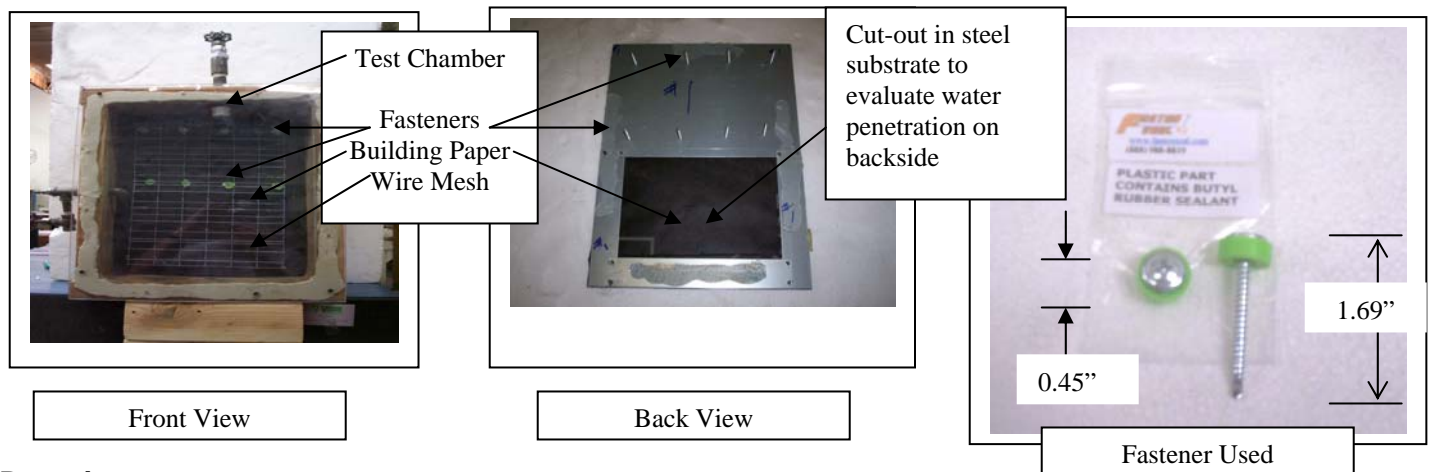
In Accordance with your request, Ramtech laboratories conducted small scale water penetration test in general accordance with ASTM E-331 on the client's submitted fastener identified as "Fasten-Seal" with Butyl Rubber Sealant

Purpose:

The purpose of this small scale test was to evaluate the resistance of the client's fastener to water penetration when exposed to a simulated wind-driven rain

Procedure:

The client's fastener was installed into a simulated exterior wall system having a 0.060 inch galvanized steel substrate, "Building-Paper" and wire mesh as presented in the photos below and subjected to a water spray of four (4) gallons per hour while under a test pressure of 2.86, 5.19 & 10.39 pounds per square foot for 15, 30 & 45 minutes as described in ASTM E-331.



Results:

To the extent tested, the client's fastener showed no points of water penetration through the simulated exterior wall system as presented above

Reported by:

Steven Berggren
Laboratory Administrator