



CONSTRUCTION MATERIALS

TECHNOLOGIES

LABORATORY TEST RESULTS

Report for: Dymotek
7 Main St., P.O. Box 440
Ellington, CT 06029

Date: September 7, 2010
Revised: December 17, 2010

Attention: Tom Trueb

Product Name:	Roof Top Blox™	Manufacturer:	Dymotek
Project No.:	DYMO-001-02-04/07	Source:	Dymotek
Date Received:	Aug 23 and Sep 2, 2010	Dates Tested:	Aug 25 and Sep 3, 2010

Purpose: Determine the wind resistance of Dymotek's Roof Top Blox™ by exposing the two principal faces of the product to a fan-induced air stream velocity of 150 mph. (See Appendix A for schematic of wind loading).

Test Methods: Testing was conducted under client's direction. Specimens were mounted on various substrates by fully adhering the SCB-07: Securing Brackets to the substrate with ADH-12: M-1 Structural Adhesive (TPO substrate was first primed with PRI-13: Primer for M-1 Adhesive). The XTB-02: 1.5" Blox Height Extension was also added to the top of the RTB-01: Roof Top Blox™ and tested. Specimens were subjected to a fan-induced air stream velocity of 150 mph for period of one (1) hour for each principal face of the product (See Appendix A).

Sample Description: Product samples and roof substrates¹ were supplied by Dymotek. RTB-01: Roof Top Blox™ is an injection molded polypropylene component adhered to an extruded polystyrene foam base that provides a load bearing surface and stand-off from the roof. XTB-02: 1.5" Blox Height Extension is an injection molded polypropylene component add-on. SCB-07: Securing Bracket is a molded glass-filled polycarbonate component add-ons. ADH-12: M-1 Structural Adhesive and PRI-13: Primer for M-1 Adhesive are used to secure the SCB-01: Securing Brackets to the roof substrate. Roof substrates used for testing include galvanized steel, coated steel, EPDM, PVC, TPO, and roofing asphalt. Appendix B contains manufacturer's product literature supplied for these products.

¹Roofing asphalt supplied by PRI Consturction Materials Technologies, LLC.


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Results:

Table 1: Wind Resistance Results for Roof Top Blox™

Property	Test Method	Results ¹ (Pass/Fail)	Requirement
Wind Resistance; 150 mph air velocity exposure of two principal faces for 1 hr	Fan-Induced Air Velocity		
EPDM		Pass	No movement or detachment from substrate.
Galvanized Steel		Pass	No movement or detachment from substrate.
Painted Steel		Pass	No movement or detachment from substrate.
PVC		Pass	No movement or detachment from substrate.
TPO		Pass	No movement or detachment from substrate.
Roofing Asphalt		Pass	No movement or detachment from substrate.
w/XTB-02: 1.5" Blox Height Extension		Pass	No movement or detachment from substrate.

¹Photographs of specimens before and after exposure are contained in Appendix C.

Signed: 
 Steven Mueller
 Technician

Signed: 
 Zach Priest
 Director

Date: December 17, 2010

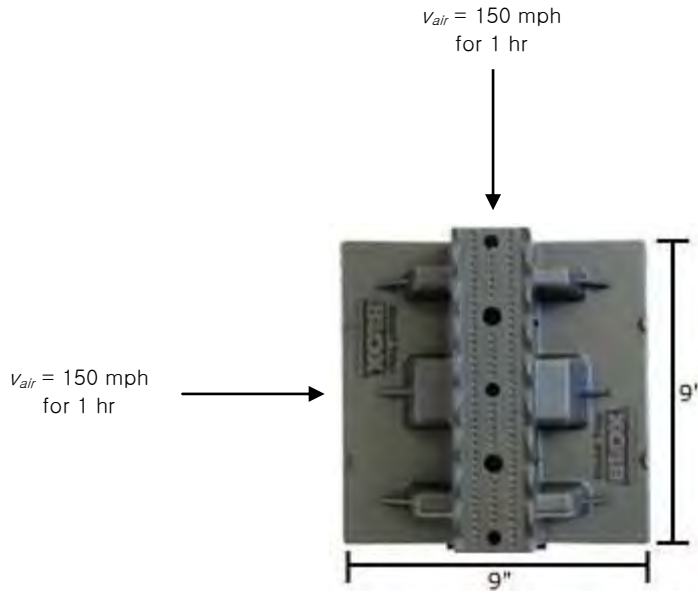
Date: December 17, 2010

Revisions:

December 17, 2010 Corrected materials description for XTB-01.

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Roof Top Blox™: Directions of Air Velocity



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Adjustable Piping Support
US PAT. 7,731,131

ROOF TOP BLOX SPECIFICATIONS



MADE IN
USA

Roof Top Blox Product Specifications

Body Material	Black UV stabilized Polypropylene Copolymer .100" to .135" wall thickness
Base Material	1" thick by 25psi, type 4 closed cell structural foam
Dimensions	9" square by 4-1/2" high, top accessory adds 1-1/2" to height for 6" height requirements, <i>Blox</i> interlock end to end for wide multi-piping platforms.
Weight	Weight: 11lb per <i>Blox</i>
Load Bearing & Spacing	Up to 450lbs — apply STR-04 slotted steel strut channel under heavy loads over 250lbs. Space <i>Blox</i> approximately every 7 feet along all piping.
Pipe Fastening	Screw indents guide fastening screws into special internal engineered thread gripping feature. #10 sheet metal screws recommended. <i>Blox</i> supplied with 3/4" galvanized universal quick clamping strap for up to 2" pipe. Top surface easily adapts to all types of piping clamps, clips, slotted strut and 3/8" or 1/2" threaded rod. All pipe fastening and adjustments done from top side only.
Accessories	1-1/2" Polypropylene top height extender, 10" slotted steel strut, 12" threaded rod, pipe rollers, securing brackets, M-1 adhesive, and primer for M-1 adhesive.
Warranty	5 years <i>Roof Top Blox</i> replacement against manufacturer's defect
Applications	<i>Blox</i> engineered to install on flat roof surfaces for supporting gas, condensate or refrigeration lines, electrical conduits, ductwork or roof top walkways and mechanical equipment. Rated for use up to 200° F.

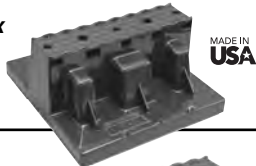
Suggested Engineering Specification

Roof top support blocks for gas piping, plumbing, HVAC, conduit, cable tray, and mechanical equipment shall be *Roof Top Blox*™ (RTB-01). The support blocks must be designed to eliminate roof penetrations, flashings or damage to roofing membrane. Support body shall be made of recycled UV-resistant Polypropylene Copolymer. Base platform material shall be 1" thick, 25psi, type 4 closed cell structural foam to distribute and evenly cushion loads. Support top surface shall have molded in pipe organizing saddles and strut mounting cradle. The top surface shall also have screw guide indents and engineered internal screw thread gripping feature. Block must accept 3/8" and 1/2" threaded rod (ROD-03) using side entry nut slots to allow fast top side assembly and piping height adjustments. Aluminum rollers (ROL-05 or ROL-06) shall be installed on long piping runs. Securing brackets (SBC-07) and adhesive (ADH-12) recommended for permanently securing *Blox* into its final installed position, anchoring against wind, rain and snow loads.

Products Available

RTB-01: Roof Top Blox

(Includes clamping strap) bundled in 8-pack totes



MADE IN USA

XTB-02: 1.5" Blox Height Extension

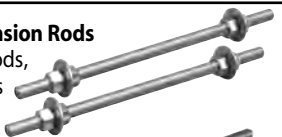
Fastens directly on top of *Blox* with #10 screws provided or elevated with extension rods



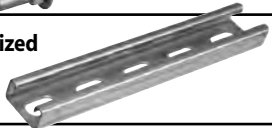
MADE IN USA

ROD-03: 12" Extension Rods

(2) 1/2" threaded rods, (8) nuts, (4) washers zinc plated



STR-04: 10" Galvanized Slotted Steel Strut Channel



ROL-05: Small Pipe Roller

(aluminum) Supports 1" to 3" pipe



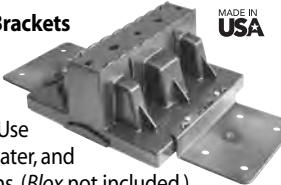
ROL-06: Large Pipe Roller

(aluminum) Supports 4" to 6" pipe (includes strut & mounting screws)



SCB-07: Securing Brackets

(polycarbonate) (2) brackets secure *Blox* directly to roof with M-1 Adhesive. Use brackets for wind, water, and snow load conditions. (*Blox* not included.)



MADE IN USA

ADH-12: M-1 Structural Adhesive (gray)

High bond adhesive for all roof membrane systems Apply directly under SCB-07 brackets — 10 oz. tube bonds 10 pairs of SCB-07 brackets.



ADH-13: Primer for M-1 Adhesive

Primer required for bonding to TPO roof systems — 1 pint can is enough to bond 35 pairs of SBC-07 brackets.



RTB-01: Roof Top Blox Unit



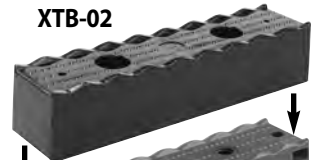
4.5"



9"

9"

XTB-02



1.5"



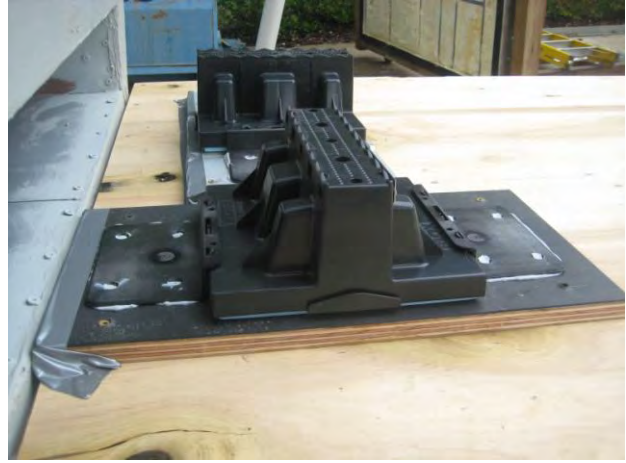
7 Main St., P.O. Box 440
Ellington, CT 06029
Phone: 860-979-0345
Fax: 860-872-0300

www.rooftopblox.com

Photographs of Roof Top Blox™ over EPDM



Prior to Exposure



After Exposure



Prior to Exposure



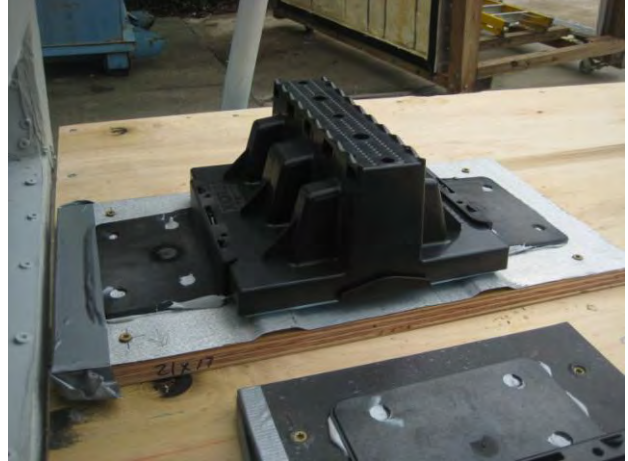
After Exposure

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Photographs of Roof Top Blox™ over Galvanized Steel



Prior to Exposure



After Exposure



Prior to Exposure



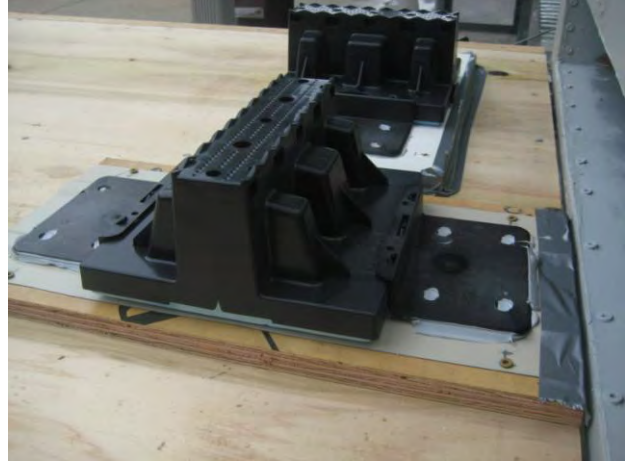
After Exposure

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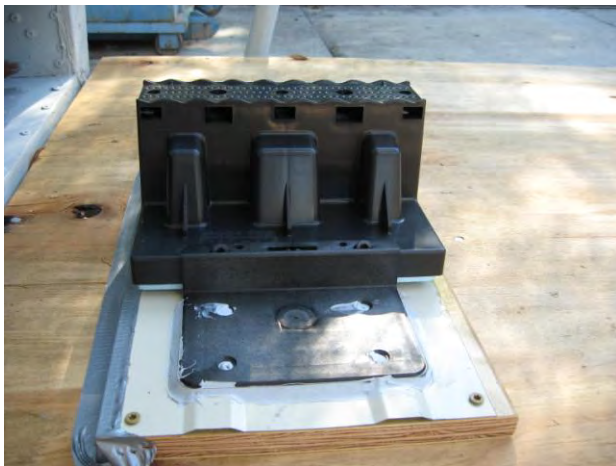
Photographs of Roof Top Blox™ over Painted Steel



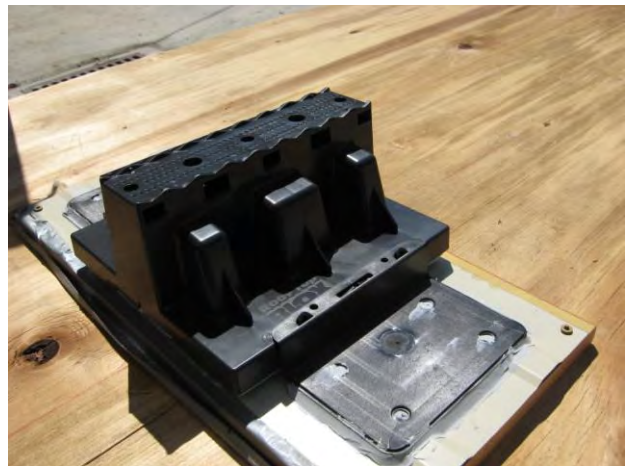
Prior to Exposure



After Exposure



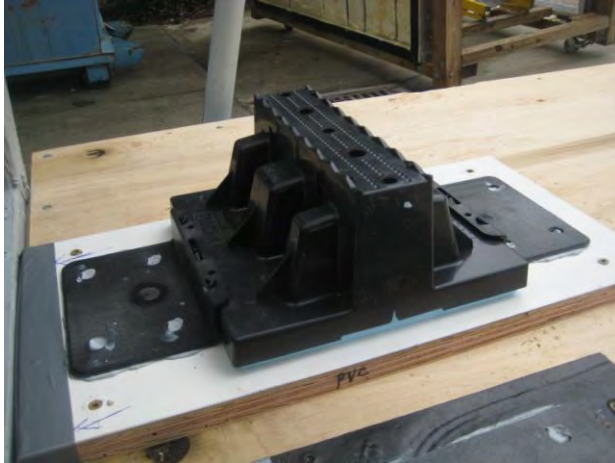
Prior to Exposure



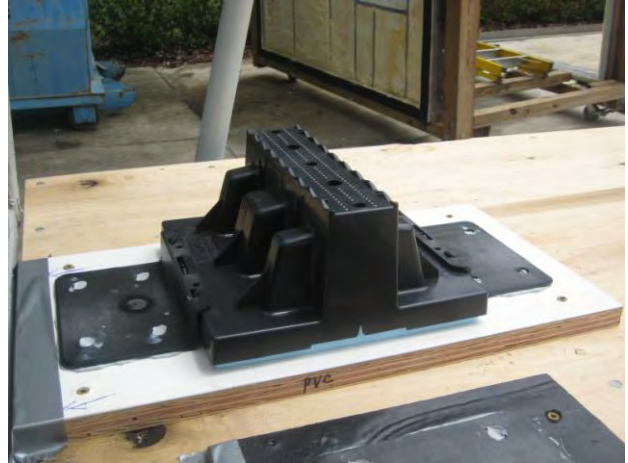
After Exposure

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Photographs of Roof Top Blox™ over PVC



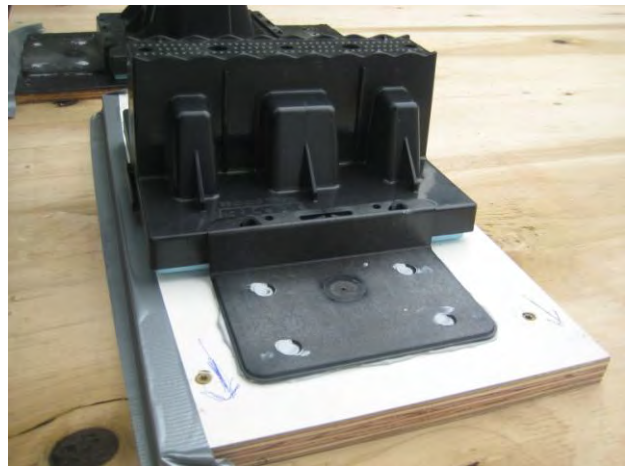
Prior to Exposure



After Exposure



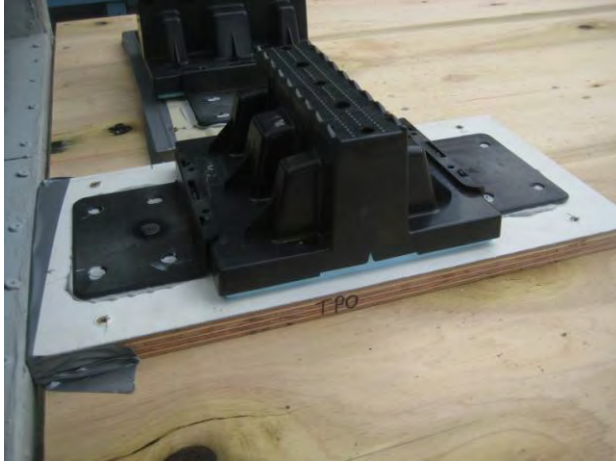
Prior to Exposure



After Exposure

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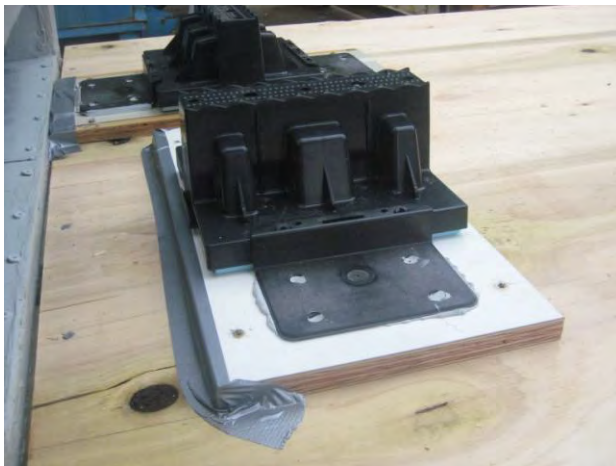
Photographs of Roof Top Blox™ over TPO



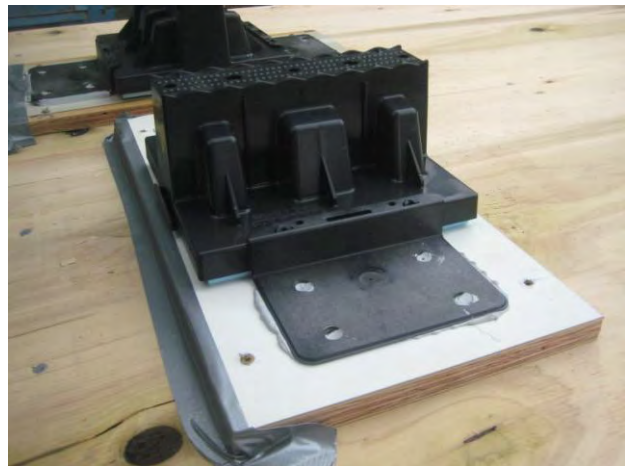
Prior to Exposure



After Exposure



Prior to Exposure



After Exposure

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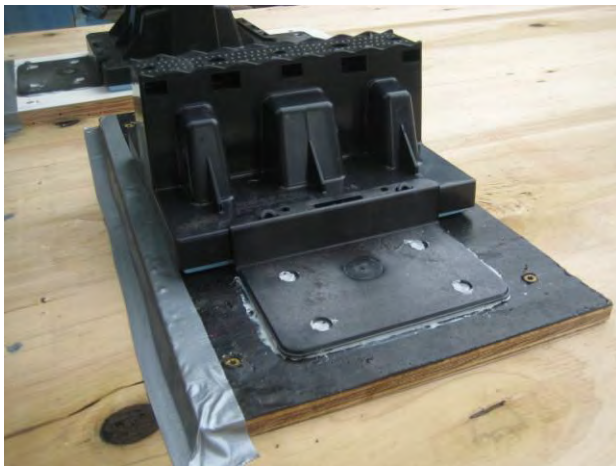
Photographs of Roof Top Blox™ over Roofing Asphalt



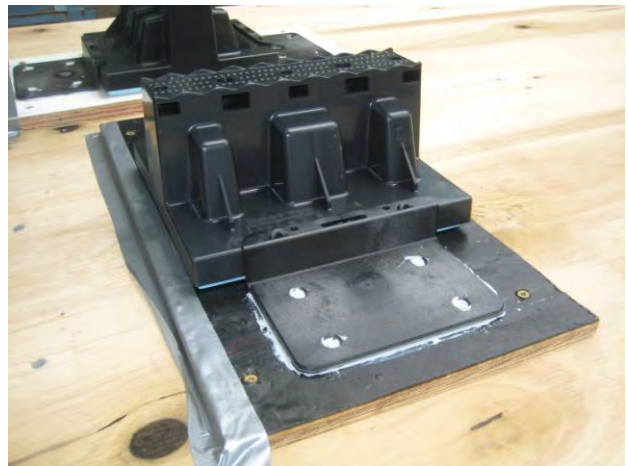
Prior to Exposure



After Exposure



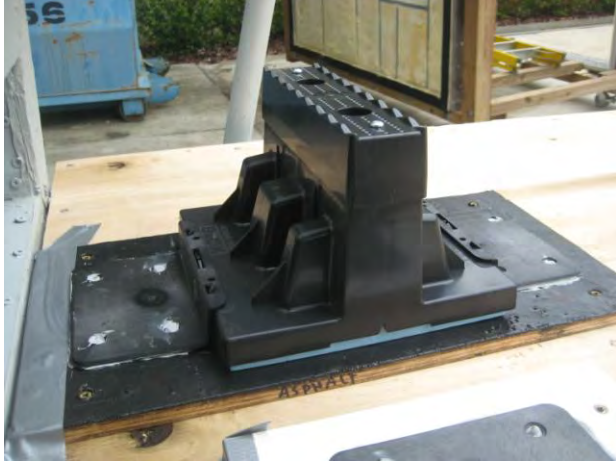
Prior to Exposure



After Exposure

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Photographs of Roof Top Blox™ with XTB-02: 1.5" Height Extension



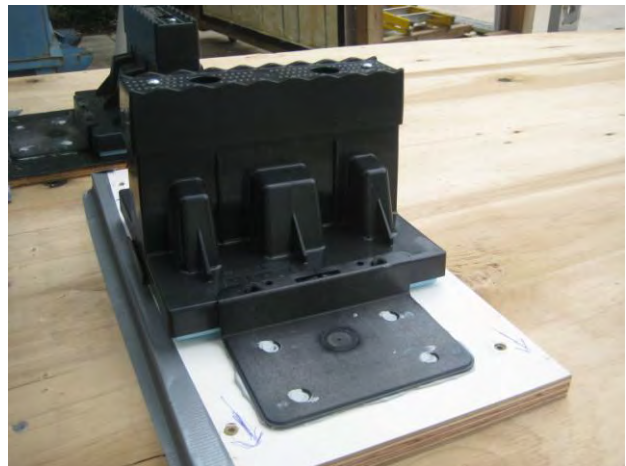
Prior to Exposure



After Exposure



Prior to Exposure



After Exposure

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