



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

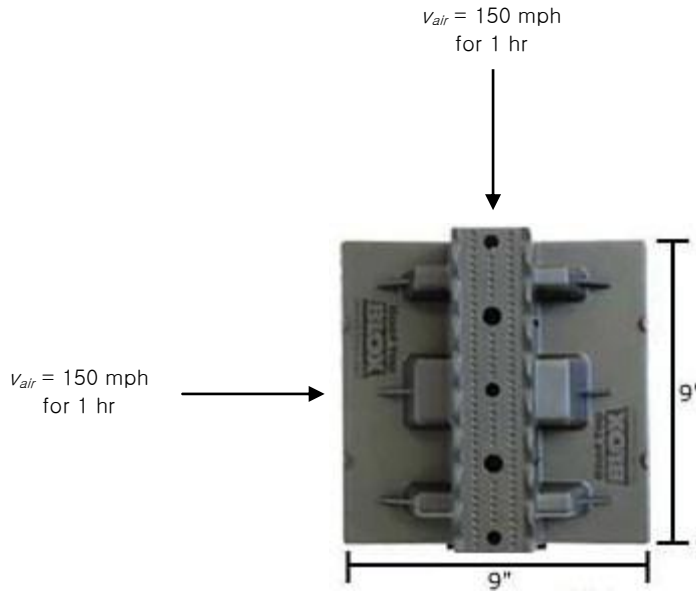
Date: December 17, 2010

Revisions:

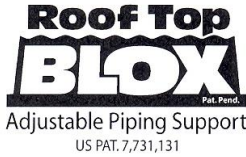
December 17, 2010 Corrected materials description for XTB-01.

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Roof Top Blox™: Directions of Air Velocity



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ROOF TOP BLOX SPECIFICATIONS

A Division of
Dymotek Corporation



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 25lb density Type 3 closed cell Extruded Polystyrene foam
Dimensions Weight	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: 1lb 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 manufacturers 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 piping and mechanical support blocks shall be *Roof Top Blox* manufactured by *Dymotek Corporation*. Body molded from UV-resistant Polypropylene Copolymer with a foam base platform of 1" thick, 25lb density closed cell polystyrene. Block and height extension accessory shall have multiple piping saddles to organize piping and internal heavy duty screw thread gripping feature. Block shall have provision to install 3/8" or 1/2" threaded rod with complete height adjustability from the top using engineered nut slots. Securing brackets and adhesive recommended on all metal and smooth membrane roofing applications to guard against block movement in high wind, water, and snow load conditions.

Products Available

- RTB-01: Roof Top Blox**
(Includes clamping strap) bundled in 8-pack totes



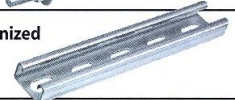
- XTB-02: 1.5" Blox Height Extension**
Fastens directly on top of *Blox* with #10 screws provided or elevated with extension rods



- ROD-03: 12" Extension Rods**
(2) 1/2" threaded rods, (8) nuts, (4) washers zinc plated



- STR-04: 10" Galvanized Slotted Steel Strut Channel**



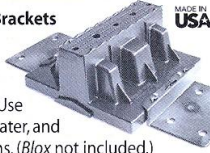
- ROL-05: Small Pipe Roller**
(aluminum) Supports 1" to 3" pipe



- 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.)



- PRI-13: Primer for M-1 Adhesive**
Primer required for bonding to TPO roof systems — 1 pint can is enough to bond 35 pair of SCB-07 brackets



- ADH-12: M-1 Structural Adhesive** (gray)
High bond adhesive for all roof membrane systems Apply directly under *Blox* or SCB-07 brackets — 10 oz. tube bonds 10 pair SCB-07 or 20 RTB-01.



RTB-01: Roof Top Blox Unit



4.5"



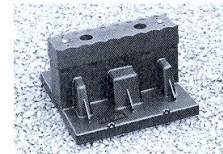
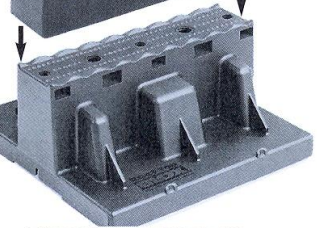
9"

9"

XTB-02



1.5"



Dymotek
Dynamic Molding
Technologies

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

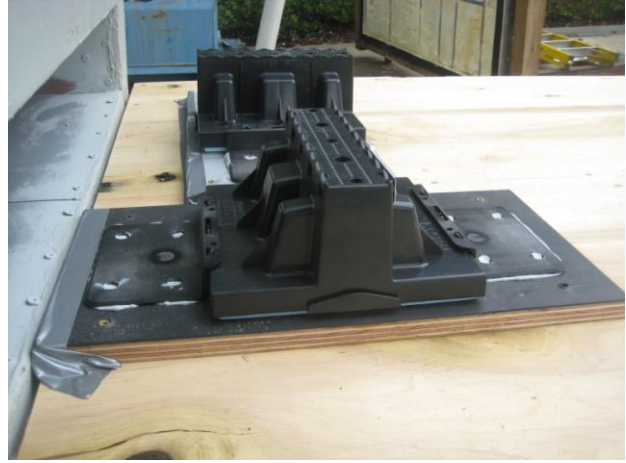
www.rooftopblox.com

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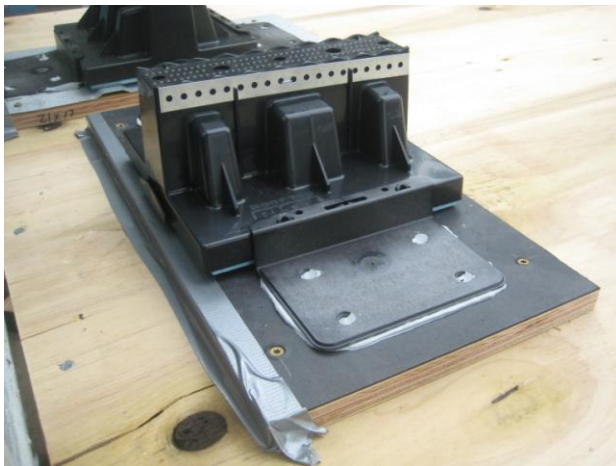
Photographs of Roof Top Blox™ over EPDM



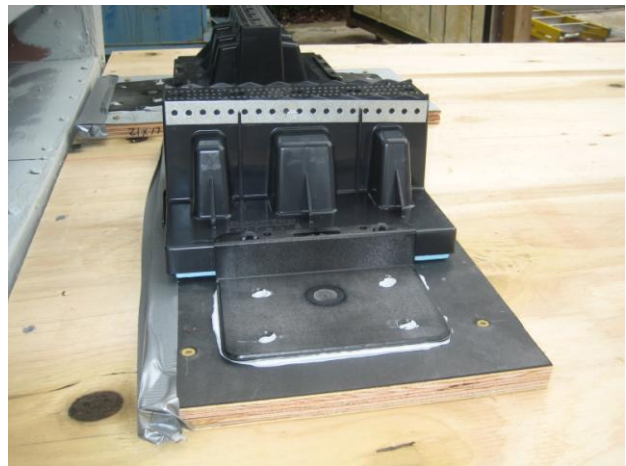
Prior to Exposure



After Exposure



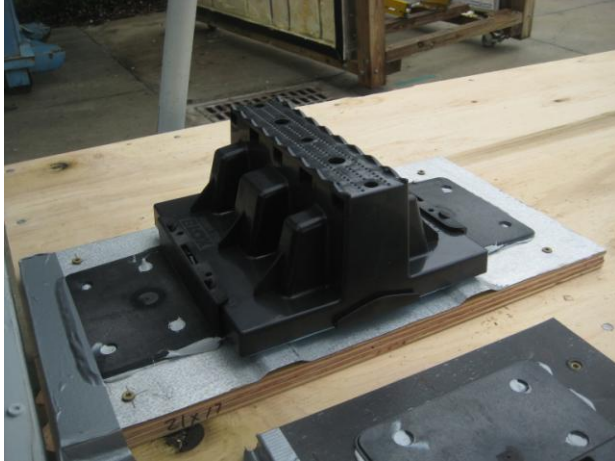
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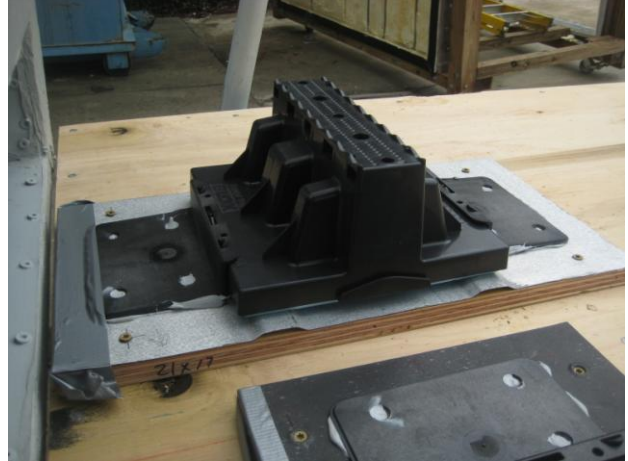
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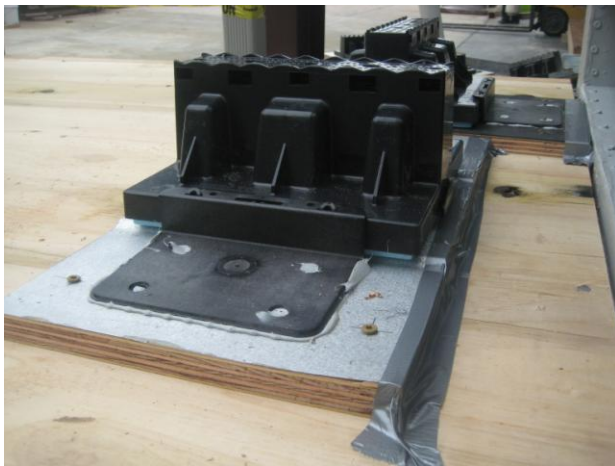
Photographs of Roof Top Blox™ over Galvanized Steel



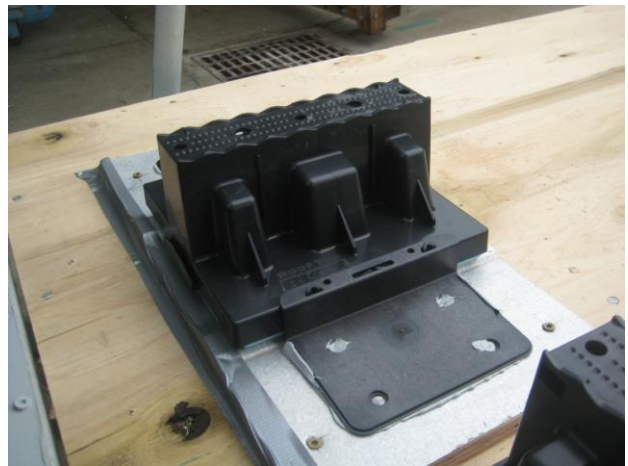
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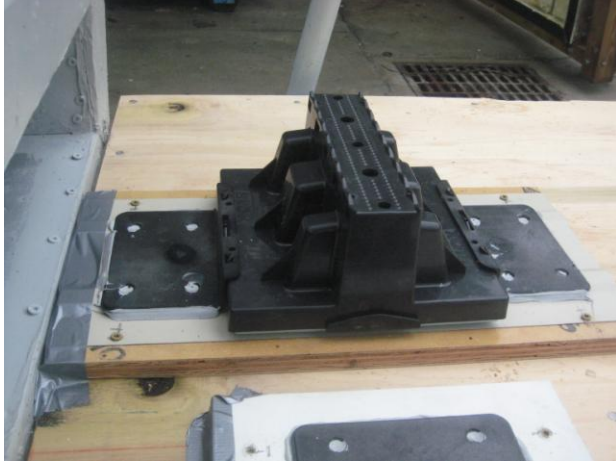
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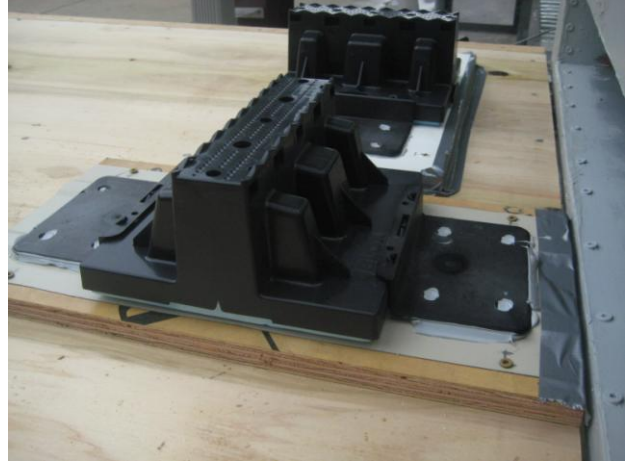
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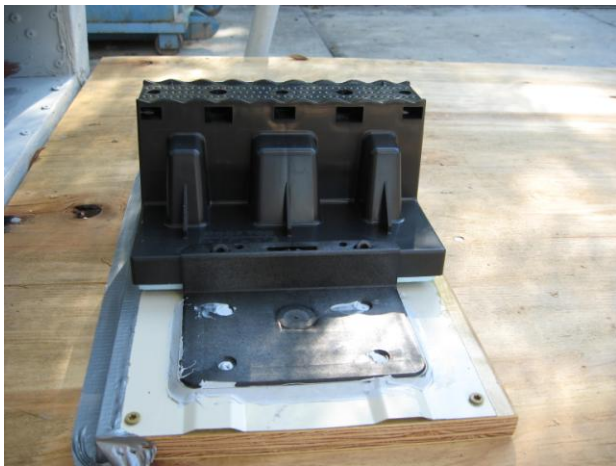
Photographs of Roof Top Blox™ over Painted Steel



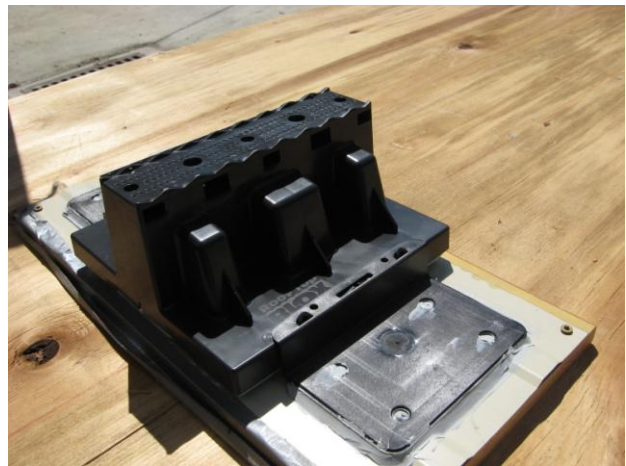
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After Exposure



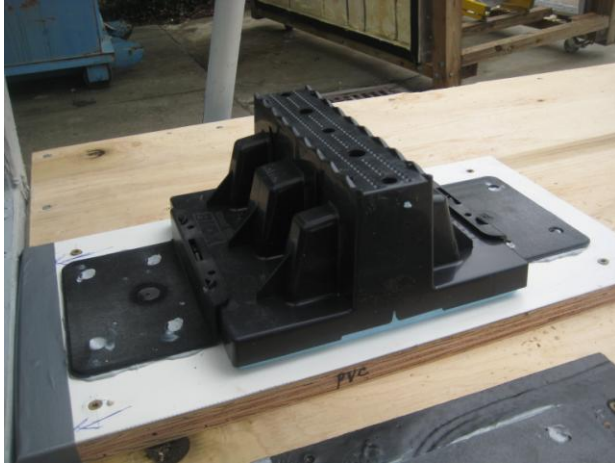
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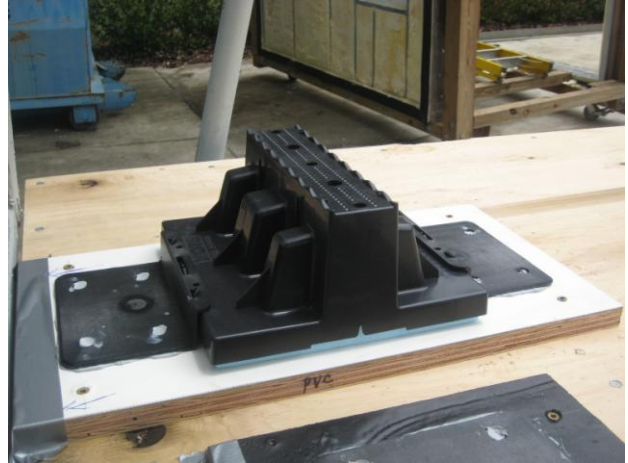
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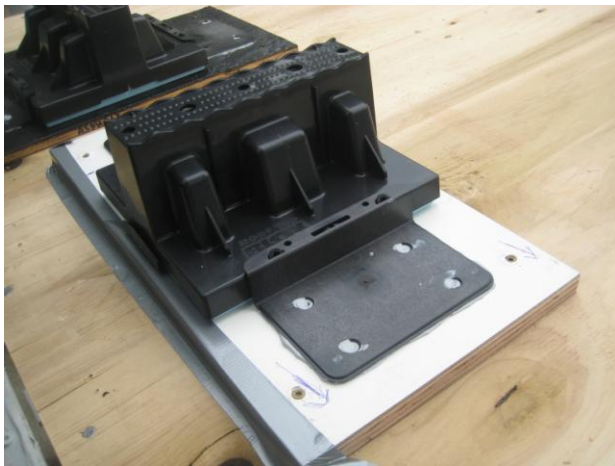
Photographs of Roof Top Blox™ over PVC



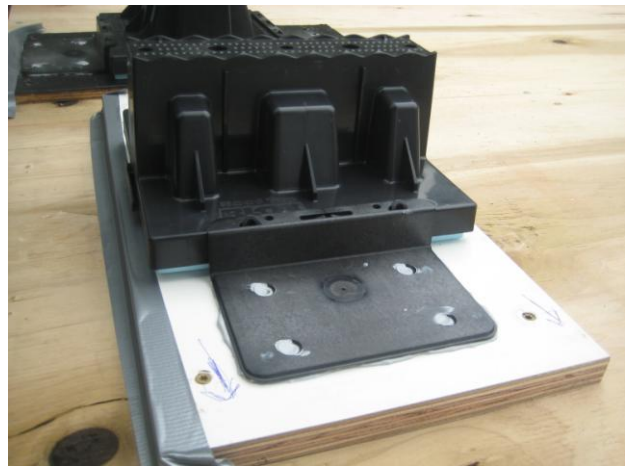
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After Exposure



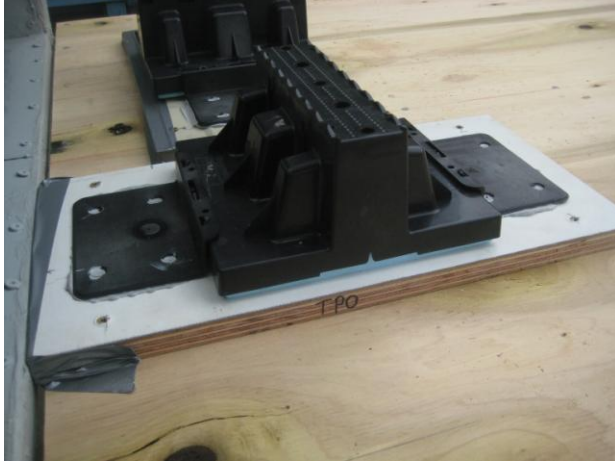
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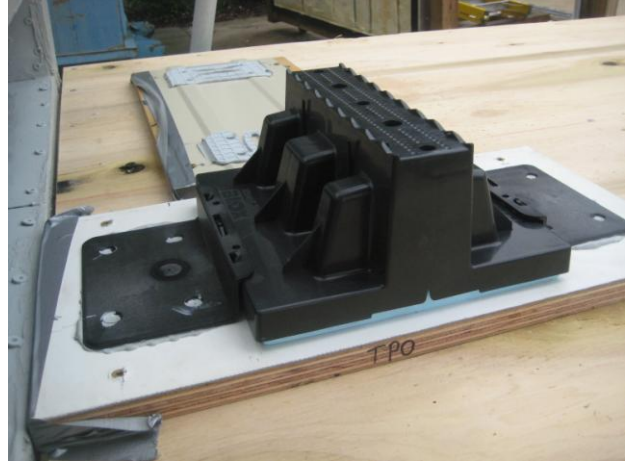
After Exposure

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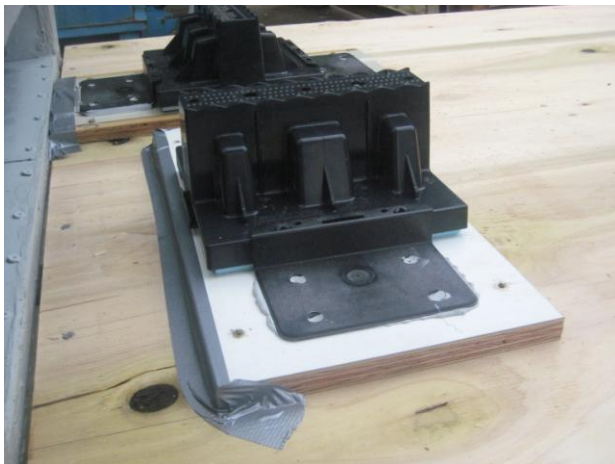
Photographs of Roof Top Blox™ over TPO



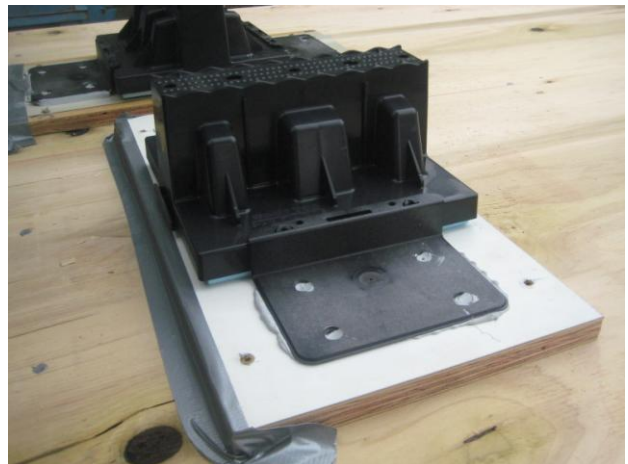
Prior to Exposure



After Exposure



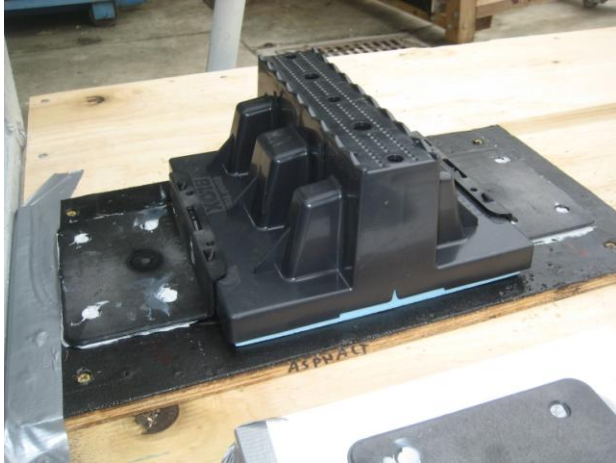
Prior to Exposure



After Exposure

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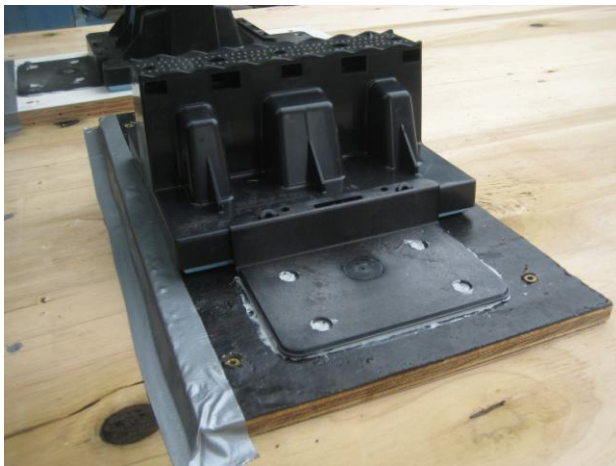
Photographs of Roof Top Blox™ over Roofing Asphalt



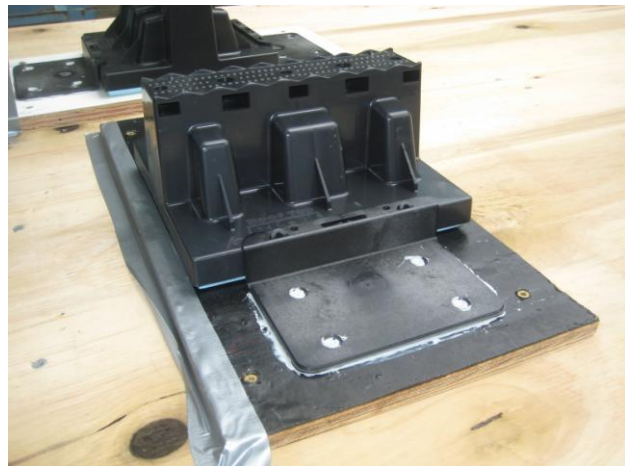
Prior to Exposure



After Exposure



Prior to Exposure



After Exposure

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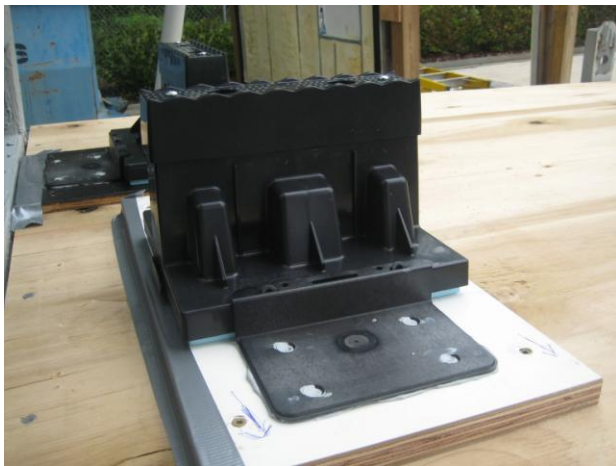
Photographs of Roof Top Blox™ with XTB-02: 1.5" Height Extension



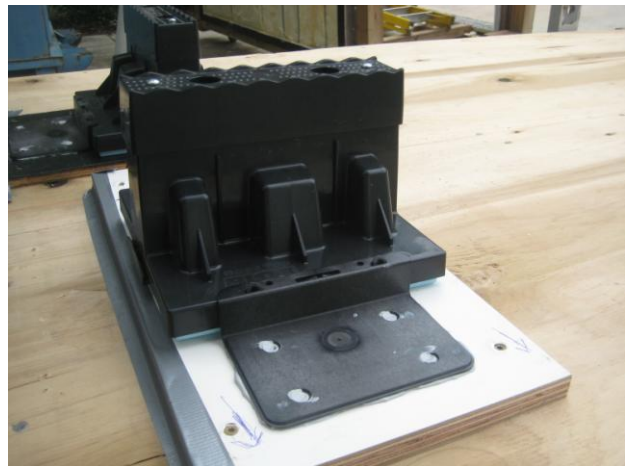
Prior to Exposure



After Exposure



Prior to Exposure



After Exposure

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