



CONSTRUCTION MATERIALS

TECHNOLOGIES

LABORATORY TEST RESULTS

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

Date: December 17, 2010

Attention: Tom Trueb

Product Name:	Roof Top Blox™	Manufacturer:	Dymotek
Project No.:	DYMO-001-02-10	Source:	Dymotek
Date Received:	September 2, 2010	Dates Tested:	December 19-23, 2010

Purpose: Determine the load bearing resistance of Dymotek's Roof Top Blox™ by application of uniaxial dead loads, *D*, for a continuous eight (8) hour period under constant radiant heat exposure (black panel temperature 200°F).

Test Methods: Testing was conducted under client's direction. Briefly, samples were equilibrated to temperature one hour prior to load application. Uniaxial dead loads were applied to RTB-01: Roof Top Blox™ for a continuous eight (8) hour period under constant radiant heat exposure (black panel temperature 200°F) using a universal testing machine. As specified by the client, an average creep rate ≤ 0.005 in./hr over the final hour of testing was deemed an acceptable result.

The following uniaxial dead load configurations were tested (See Appendix A for detailed drawings):

1. 250 lbf point load centered on the RTB-01 load bearing surface
2. 450 lbf distributed load applied to the RTB-01 load bearing surface
3. 450 lbf point load centered on an elevated STR-04

Sample Description: Product samples were supplied by Dymotek and received September 2, 2010. RTB-01: Roof Top Blox™ is an injection molded polypropylene component with a 16 ga. galvanized steel plate insert and an adhered extruded polystyrene foam base. STR-04 is a 10" galvanized slotted steel strut channel. See Appendix B for the manufacturer's product specifications.

DYMO-01-02-10 PRI-CMT Accreditations: IAS TL-189; State of Florida TST5878; Miami-Dade 06-1116.02; CRRC

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Results:

Table 1: Load Bearing Resistance of Roof Top Blox™

Property	Test Method	Results (Pass/Fail)	Requirement
Load Bearing Resistance; 8 hr uniaxial dead load; 200°F black panel temperature	Client Specified		
250 lbf point load centered on the RTB-01 load bearing surface		Pass	¹ Average creep rate over the final hour of testing ≤ 0.005 in./hr
450 lbf distributed load applied to the RTB-01 load bearing surface		Pass	
450 lbf point load centered on an elevated STR-04		Pass	

¹Requirement specified by client

Statement of Attestation:

The results of the aforementioned testing were determined in accordance with methods described herein. The laboratory test results presented in this report are representative of the material supplied.

Signed: 
 Steven Mueller
 Technician

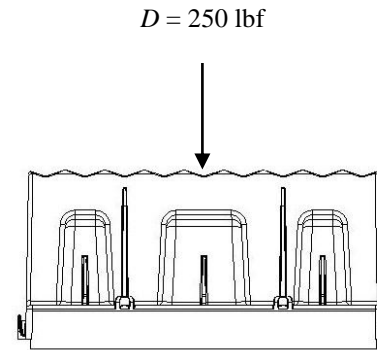
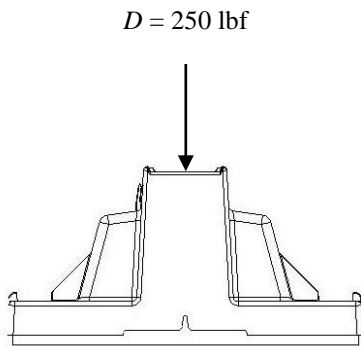
Signed: 
 Zach Priest
 Director

Date: December 17, 2010

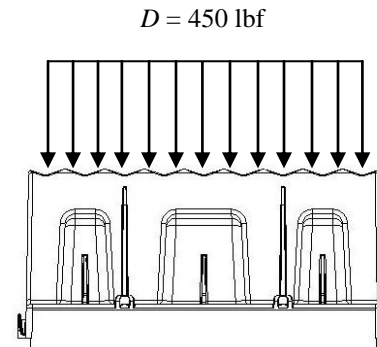
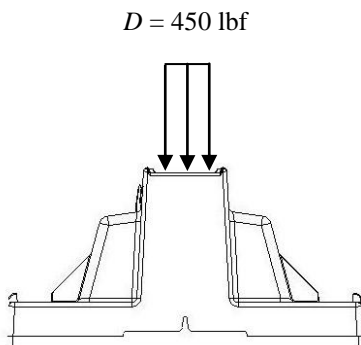
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Roof Top Blox™: 250 lbf Point Load



Roof Top Blox™: 450 lbf Distributed Load

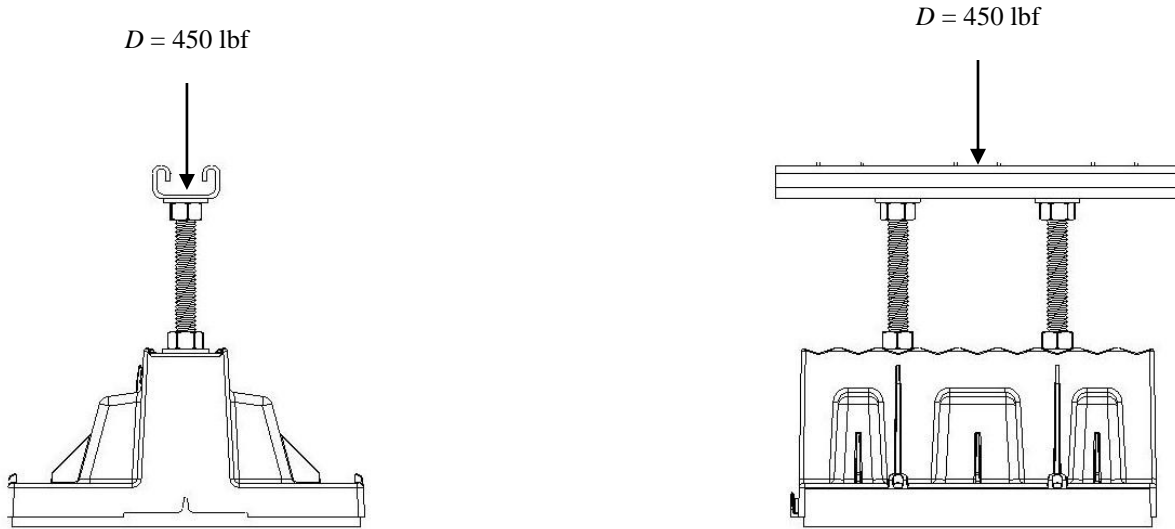


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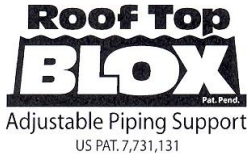
Roof Top Blox™: 450 lbf Load Applied to Elevated STR-04



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ROOF TOP BLOX SPECIFICATIONS

A Division of
Dymotek Corporation



MADE IN
USA




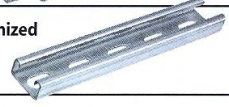

Roof Top Blox Product Specifications

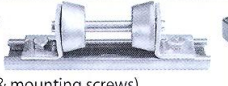
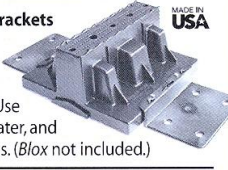


Body Material	Black UV stabilized Polypropylene Copolymer .100" to .135" wall thickness
Base Material	1" thick by 25lb density Type 3 closed cell Extruded Polystyrene foam
Dimensions Weight	9" square by 4-1/2" high, top accessory adds 1-1/2" to height for 6" height requirements, <i>Blox</i> interlock 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

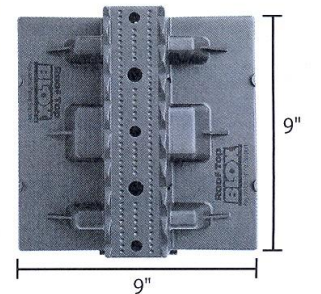
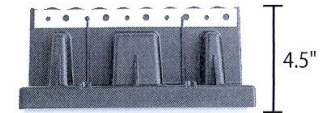
Roof top piping and mechanical support blocks shall be *Roof Top Blox* manufactured by *Dymotek Corporation*. Body molded from UV-resistant Polypropylene Copolymer with a foam base platform of 1" thick, 25lb density closed cell polystyrene. Block and height extension accessory shall have multiple piping 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

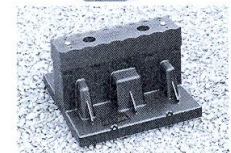
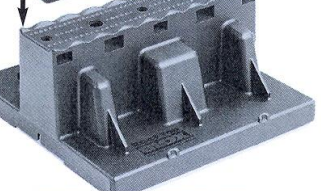
- RTB-01: Roof Top Blox**
(Includes clamping strap) bundled in 8-pack totes 
- XTB-02: 1.5" Blox Height Extension**
Fastens directly on top of *Blox* with #10 screws provided or elevated with extension rods 
- ROD-03: 12" Extension Rods**
(2) 1/2" threaded rods, (8) nuts, (4) washers zinc plated 
- STR-04: 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



XTB-02



Dymotek
Dynamic Molding
Technologies

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