



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	¹Average 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

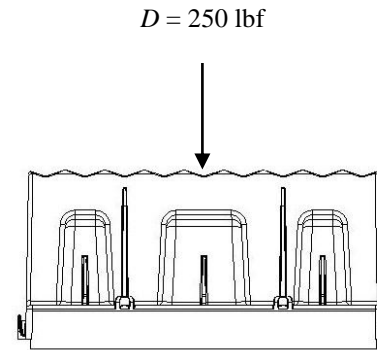
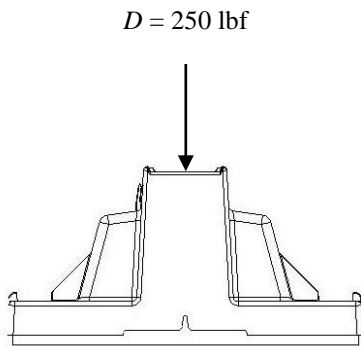
Signed: 
 Zach Priest
 Director

Date: December 17, 2010

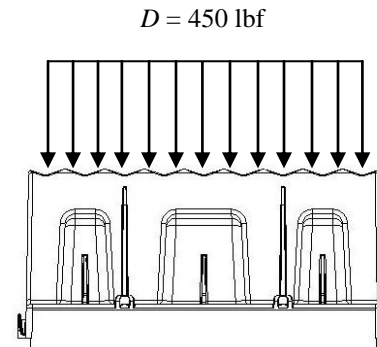
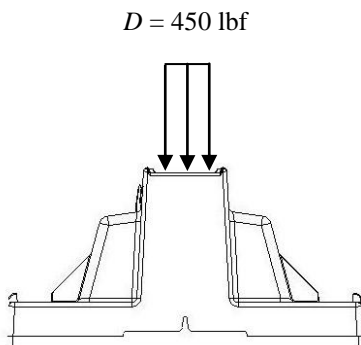
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Roof Top Blox™: 250 lbf Point Load



Roof Top Blox™: 450 lbf Distributed Load

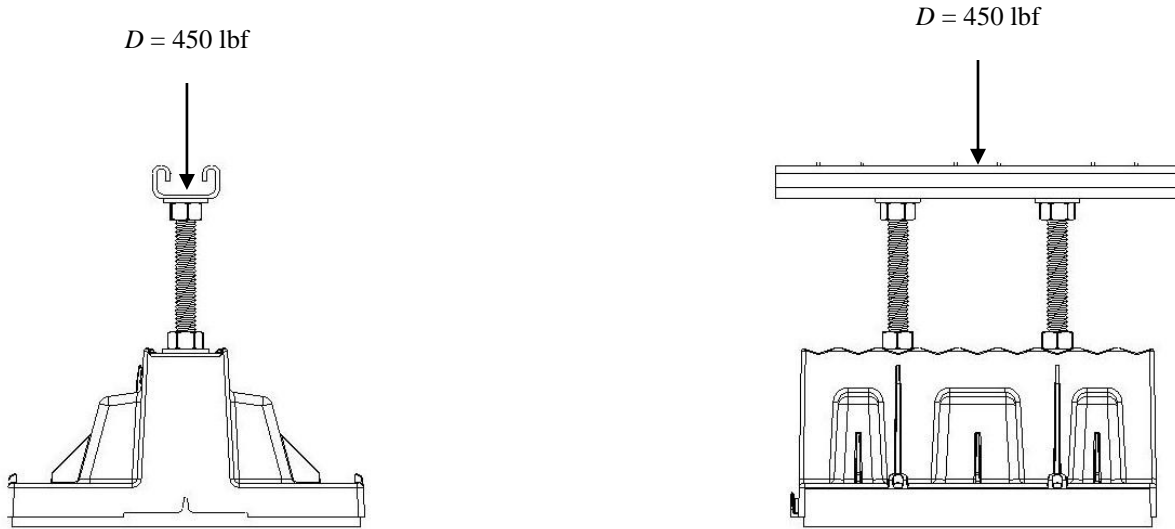


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Roof Top Blox™: 450 lbf Load Applied to Elevated STR-04



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Roof Top Blox 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 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: 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.

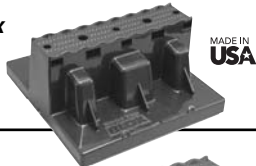
Suggested Engineering Specification

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-13) 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

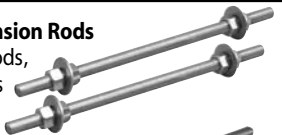
Fastens directly on top of *Blox* with #10 screws provided or elevated with extension rods



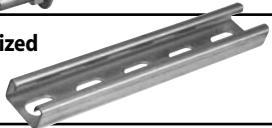
MADE IN USA

ROD-03: 12" Extension Rods

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



STR-04: 10" Galvanized Slotted Steel Strut Channel



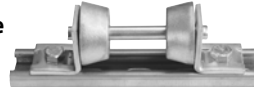
ROL-05: Small Pipe Roller

(aluminum) Supports 1" to 3" pipe



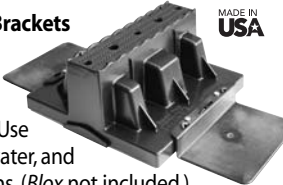
ROL-06: Large Pipe Roller

(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



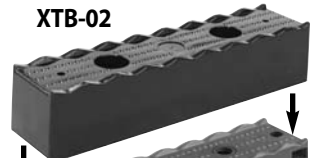
4.5"



9"

9"

XTB-02



1.5"

