



TECHNOLOGIES

LABORATORY TEST REPORT

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

Attention: Tom Trueb

Product Name:	Roof Top Blox [™]	Manufacturer:	Dymotek
Project No.:	DYMO-003-02-01	Source:	Dymotek
Date Received:	January 23, 2013	Dates Tested:	March 13-23, 2013

Purpose: Determine the load bearing resistance of Dymotek's Roof Top $Blox^{TM}$ 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 BloxTM 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. 350 lbf distributed load applied to the RTB-01 load bearing surface
- 3. 350 lbf point load centered on an elevated STR-04. STR-04 threaded a maximum 2 inches into the RTB-01.
- **Sample Description:** Product samples were supplied by Dymotek and received January 23, 2013. RTB-01: Roof Top $Blox^{TM}$ is an injection molded polypropylene component with a galvanized steel plate insert (min. 0.012 in. bare metal thickness; $F_y = 50$ ksi) and an adhered extruded polystyrene foam base (min 1.60 pcf). STR-04 is a 10" galvanized slotted steel strut channel. See Appendix B for the manufacturer's product specifications.

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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
350 lbf distributed load applied to the RTB-01 load bearing surface		Pass	over the final hour of testing ≤ 0.005 in./hr
350 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:

Zach Priest, P.E. Director

Report Issue History:

Issue #	Date	Pages	Revision Description (if applicable)
Original	03/27/2013	5	NA
Rev 1	4/24/2013	5	Updated product literature

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Roof Top Blox[™]: 250 lbf Point Load







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Roof	ROOF TO	P BLOX SPECIFICATIONS	
Adjustable Pip US PAT. 7, 731, 131	Ding Support CAN. PAT. 2,675,158	Recycled Polypropylene Copolymer	RTB-01: Roof Top Blox Unit
	Roof Top Blox Pro	duct 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	8.850" square by 4-1/2" high, top ad ments, <i>Blox</i> interlock end to end for	cessory adds 1-1/2" to height for 6" height require- wide multi-piping platforms. Weight: 11b per <i>Blox</i>	
Load Bearing	Max load per <i>Blox</i> —Single Point Lo 350lb/158 kg. Up to 350lbs—apply over 250lbs.	ad: 250lb/113 kg—Dual Point or Strut-Mounted Load: STR-04 slotted steel strut channel under heavy loads	
Spacing	Space Blox approximately every 7 fe	et along all piping.	
Pipe Fastening	Screw indents guide fastening scre feature: #10 sheet metal screws rec universal quick clamping strap for piping clamps, clips, slotted strut ar adjustments done from top side or	ws into special internal engineered thread gripping ommended. <i>Blox</i> supplied with $3/4^{\mu}$ galvanized up to 2" pipe. Top surface easily adapts to all types of d $3/8^{\mu}$ or $1/2^{\mu}$ threaded rod. All pipe fastening and ly.	4.5"
Accessories	1-1/2" Polypropylene top height ex rod, pipe rollers, securing brackets,	tender, 10" slotted steel strut, 12" threaded M-1 adhesive, and primer for M-1 adhesive.	
Warranty	5 years Roof Top Blox replacement a	gainst manufacturer's defect.	
Applications	Blox engineered to install on flat ro refrigeration lines, electrical condui mechanical equipment. Rated for te	8.850"	
	Suggested Engine	ering Specification	
be Roof Top Blox (damage to roofin Copolymer. Base j evenly cushion lo cradle. The top su feature. Block mu side assembly and piping runs. Secur into its final instal	RTB-01). The support blocks must be d g membrane. Support body shall be n platform material shall be n' thick, 25p ads. Support top surface shall have mo rface shall also have screw guide inder st accept 3/8° and 1/2" threaded rod (R d piping height adjustments. Aluminur ring brackets (SBC-07) and adhesive (A led position, anchoring adainst wind.	esigned to eliminate roof penetrations, flashings or nade of recycled UV-resistant Polypropylene i, type 4 closed cell structural foam to distribute and lded in pipe organizing saddles and strut mounting ts and engineered internal screw thread gripping OD-03) using side entry nut slots to allow fast top n rollers (ROL-05 or ROL-06) shall be installed on long DH-12) recommended for permanently securing <i>Blox</i> ain and snow loads.	8.850" XTB-02
	Products	Available	
RTB-01: Roof (Includes clam strap) bundled 8-pack totes	Top Blox ping d in	RoL-06: Large Pipe Roller (aluminum) Supports 4" to 6" pipe (includes strut & mounting screws)	VAL A
XTB-02:1.5" Blox Height E Fastens directl of Blox with # provided or elu ROD-03:12" E (2) 1/2" thread (8) nuts, (4) wa zinc plated	xtension y on top 10 screws evated with extension rods Extension Rods led rods, shers	 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.) ADH-12: M-1 Structural Adhesive (gray) High bond adhesive for all roof membrane systems Apply directly under Blox or SCB-07 brackets — Apply directly under Blox or SCB-07 brackets — 	Roof Top
Slotted Steel Strut Channe	alvanized	Daph 13: Primer for M-1 Adhesing	7 Main St., P.O. Box 440 Ellington, CT 06029
ROL-05: Small Pipe Roller (aluminum) Supports 1" to 3" pipe		Primer required for bonding to TPO roof systems — 1 pint can is enough to bond 35 pairs of SBC-07 brackets	Fax: 860-979-0345 Fax: 860-872-0300 WWW.rooftopblox.com
04/13			

END OF REPORT

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