



CONSTRUCTION MATERIALS

TECHNOLOGIES

Laboratory Test Report

Report for: Mbrico Tile Decks
P.O. Box 1108
Bettendorf, IA 52722

Attention: Nick McManus

Assembly: Mbrico T-Track with Buzon pedestals (2-ft o.c.)	Manufacturer: Mbrico Tile Decks
Project No.: MBTD-001-02-03	Source: Mbrico Tile Decks.
Date Received: Dec. 5 & 6, 2017	Date Tested: Feb. 2, 2018

Purpose: Testing was conducted to evaluate the named products for performance in accordance with **ANSI/SPRI ES-1 Wind Design Standard for Edge Systems Used in Low Slope Roofing Systems, Test RE-2 Pull-Off Test for Edge flashings.**

***This testing was intentionally modified to evaluate the uplift resistance of the Mbrico T-Track anchorage to the Buzon pedestals in a three (3) span condition.*

Test Methods: Testing was conducted as described in **ANSI/SPRI Wind Design Standard for Edge Systems Used in Low Slope Roofing Systems, SPRI Test RE-2 Pull-Off Test for Edge flashings (2003)** and **ANSI/SPRI/FM 4435/ES-1 Wind Design Standard for Edge Systems Used with Low Slope Roofing Systems, RE-2 Pull-Off Test for Edge flashings (2011)**. Loading was conducted in 30lbf increments in the vertical direction to simulate uplift.

Sampling: Samples were provided by Mbrico Tile Decks and Buzon USA East.

Specimen:

Joists: (1) Mbrico T-Track (6560-T6 extruded aluminum alloy joists; section drawing contained in Appendix A) was secured by engaging the track into the Mbrico Sleeve Connector.

Connector: Mbrico Sleeve Connectors (6560-T6 extruded aluminum alloy; section drawing contained in Appendix A) were secured to the Buzon pedestals using (8) #10-16 pancake head, self-drilling screws as shown in Appendix A.

Pedestals (4) Buzon DPH-3 pedestals were spaced 2-ft o.c.

MBTD-001-02-03

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Results: Vertical loads were applied in 30 psf increments until failure. Maximum passing load is the highest load that was sustained for 60 seconds. Detailed drawings are contained Appendix A.

Results	Results
Passing Load (lbf)	330
Failing Load (lbf)	360
Time of failure (s)	57
Failure Mode	Fracture of DPH-3 top flange

Notes: None.

Remarks: Highest Passing load per pedestal = 660 lbf
 Equivalent Uplift (based on tributary area of 4 ft²) = 165 psf
 Equivalent Uplift (based on tributary area of 2 ft²) = 330 psf

Statement of Attestation:

The products were evaluated in accordance with **ANSI/SPRI Wind Design Standard for Edge Systems Used in Low Slope Roofing Systems, SPRI Test RE-2 Pull-Off Test for Edge flashings (2003)** and **ANSI/SPRI/FM 4435/ES-1 Wind Design Standard for Edge Systems Used with Low Slope Roofing Systems, RE-2 Pull-Off Test for Edge flashings (2011)** with medications as noted herein. The test results are representative of the materials received and prepared as described herein.

Signed: 

 Zachary Priest, P.E.
 Director

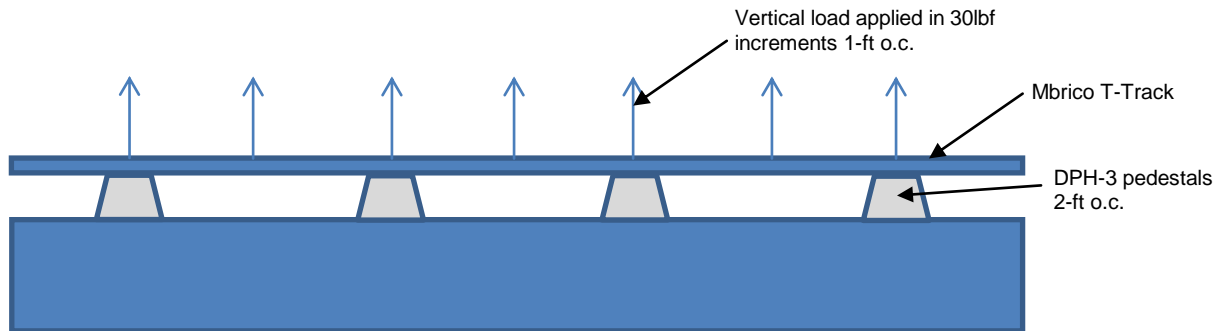
Report Issue History:

Issue #	Date	Pages	Revision Description (if applicable)
Original	02/23/2018	4	NA

MBTD-001-02-03

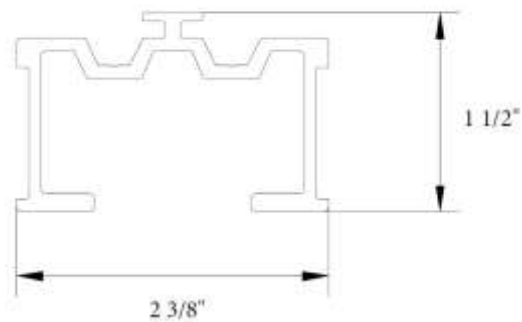
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Schematic of Test Setup



Mbrico Joists

Mbrico T-Track



Mbrico Sleeve Connector



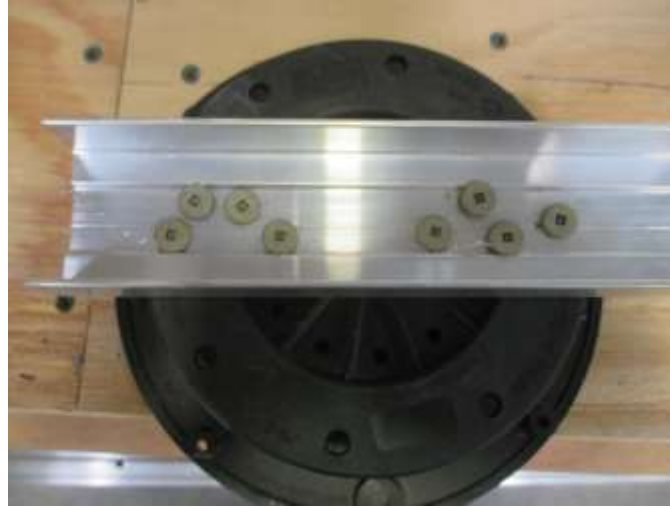
Buzon DPH-3 Pedestal



MBTD-001-02-03

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Mbrico Sleeve Connector Fastening to DPH-3 Pedestal



Failure of top flange of DPH-3 pedestal



END OF REPORT

MBTD-001-02-03

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