BUTECH BUILDING TECHNOLOGY SAU

MIAMI-DADE TEST REPORT

SCOPE OF WORK
TAS 114-95 APPENDIX D UPLIFT TESTING ON RAISED ACCESS FLOOR

REPORT NUMBER
R1917.01-109-18

TEST DATES
07/15/24 - 08/01/24

ISSUE DATE
09/20/24

RECORD RETENTION END DATE
08/01/34

MIAMI-DADE COUNTY NOTIFICATION NO.
ATI 24026

LABORATORY CERTIFICATION NO.
22-0428.14

PAGES
18

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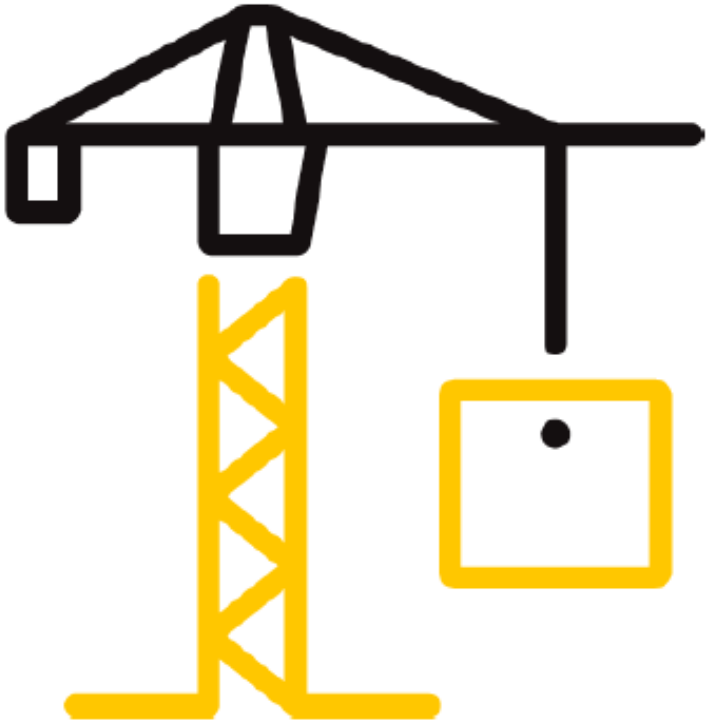

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TEST REPORT FOR BUTECH BUILDING TECHNOLOGY SAU

Report No.: R1917.01-109-18
Date: 09/20/24

REPORT ISSUED TO

BUTECH BUILDING TECHNOLOGY SAU
Ctra Villarreal-Puebla de Arenoso (CV-20) km 2,5 Apartado de correos 297
12540 Villarreal, Castellon T.V.A.: ESA12550398
SPAIN

SECTION 1

SCOPE

Architectural Testing, Inc. (an Intertek company) dba Intertek Building & Construction (B&C) was contracted by BUTECH BUILDING TECHNOLOGY SAU to perform TAS 114, Appendix D Uplift testing in accordance with Miami-Dade County requirements on their Raised access floor. Results obtained are tested values and were secured by using the designated test method(s). Testing was conducted at Intertek B&C test facility in York, Pennsylvania.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. Unless differently required, Intertek reports apply the "Simple Acceptance" rule also called "Shared Risk approach," of ILAC-G8:09/2019, Guidelines on Decision Rules and Statements of Conformity.

SECTION 2

SUMMARY OF TEST RESULTS

Product Type: Raised Access Floor

Simulated Uplift Resistance achieved:
Test Specimen #1: -345 psf (1380 lbf)
Test Specimen #2: -360 psf (1440 lbf)
Test Specimen #3: -375 psf (1500 lbf)

TANYA A. DOLBY LICENSE No. 93536 STATE OF FLORIDA PROFESSIONAL ENGINEER
2024.09.20 13:46:57 -04'00'

For INTERTEK B&C:

COMPLETED BY:	Christopher E. Sartalis	**REVIEWED BY:**	Tanya A. Dolby, P.E.
TITLE:	Technician - Product Testing	**TITLE:**	Engineering Manager - Engineering Services
SIGNATURE:	Digitally Signed by: Christopher Sartalis	**SIGNATURE:**	Digitally Signed by: Tanya Dolby
DATE:	09/20/24	**DATE:**	09/20/24

CES:aas

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SECTION 3
TEST METHODS

The specimens were evaluated in accordance with the following:

> **TAS 114-95 Appendix D** - *Test Procedure for Simulated Uplift Pressure Resistance of Adhered Roof Systems Assemblies*

SECTION 4
MATERIAL SOURCE/INSTALLATION

Test specimen was provided by the client. Representative samples of the test specimen(s) will be retained by Intertek B&C for a minimum of ten years from the test completion date.

Installation of the tested product was performed by Intertek B&C.

SECTION 5
EQUIPMENT

Load Cell: 005532
Stopwatch: INT00975
Weather Station: 63316
Tape Measure Verification: 63788

SECTION 6
LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Tyler J. Holland	Intertek B&C
Timothy J. McGill	Intertek B&C
Tanya A. Dolby, P.E.	Intertek B&C
Christopher E. Sartalis	Intertek B&C

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SECTION 7
TEST SPECIMEN DESCRIPTION

Manufacturer: BUTECH BUILDING TECHNOLOGY SAU
Product Type: Raised Access Floor

Product Size(s):

OVERALL AREA:	WIDTH		HEIGHT	
5.9 m^2 (64.0 ft^2)	millimeters	inches	millimeters	inches
TEST DECK SIZE (3)	2438	96	2438	96
SPECIMEN SIZE (3)	1829	72	1829	72
TILE SIZE (9)	610	24	610	24

All three specimen tested share the same description and were constructed the same.

Test Deck Construction(s): The test deck was constructed of 2x4 SPF lumber measuring 8' by 8'. The supports for the test deck were 24" on center and was sheathed using 15/32" plywood. The plywood was secured using 1-3/8" screws, 6" on center around the perimeter and 12" on center along the supports.

Test Specimen Description(s): The test specimen(s) consisted of 16 total pedestals (Refer to *Technical Data Sheet Pedestal SE)*, four rows of four pedestals were spaced 24" on center. The base of each pedestal was covered with VFS p-404 adhesive and fastened to the plywood of the test deck. Nine Porcelain flooring tiles measuring 2' by 2' by 13/16" thick were clipped to the pedestals creating a 72" by 72" section of Raised Access Floor. The tiles utilized a precut groove at the corners to allow the pedestal clips to attach to the tiles.

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SECTION 8
TEST RESULTS

Three assemblies were tested per TAS 114 Appendix D. The following results were recorded:

The temperature range during testing was 79-82°F (26-28°C). The results are tabulated as follows:

Test Specimen #1:

TEST PRESSURE	OBSERVATIONS	RESULTS
-30 psf (120 lbf) - -345 psf (1380 lbf)	No visible damage to the floor assembly	Pass
-360 psf (1440 lbf)	18 seconds into load, the corner of the tile broke exposing the clip	Failure

Test Specimen #2:

TEST PRESSURE	OBSERVATIONS	RESULTS
-30 psf (120 lbf) - -360 psf (1440 lbf)	No visible damage to the floor assembly	Pass
-375 psf (1500 lbf)	Going up in pressure to -375 psf (1500 lbf), the uplifted center tile broke and overrode the clips	Failure

Test Specimen #2:

TEST PRESSURE	OBSERVATIONS	RESULTS
-30 psf (120 lbf) - -375 psf (1500 lbf)	No visible damage to the floor assembly	Pass
-390 psf (1560 lbf)	Going up in pressure to -390 psf (1560 lbf), the uplifted center tile broke and overrode the clips	Failure

General Note: *All testing was performed in accordance with the referenced standard. The uplift testing was performed on the center tile.*

Note 1: *Uplift Force was held for 60 seconds in 60lb incremental loads.*

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SECTION 9
CONCLUSION

The specimen(s) tested successfully achieved a Simulated Uplift Resistance of: **Test Specimen #1:** -345 psf (1380 lbf), **Test Specimen #2:** -360 psf (1440 lbf), **Test Specimen #3:** -375 psf (1500 lbf) in accordance with TAS 114-95 App. D Uplift.

SECTION 10
PHOTOGRAPHS

Photo No. 1
Test Specimen #1 Prior to Testing

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Photo No. 2
Test Specimen #1 Failure Mode

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Photo No. 3
Test Specimen #2 Prior to Testing

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Photo No. 4
Test Specimen #2 Failure Mode

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Photo No. 5
Test Specimen #3 Prior to Testing

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Photo No. 6
Test Specimen #3 Failure Mode

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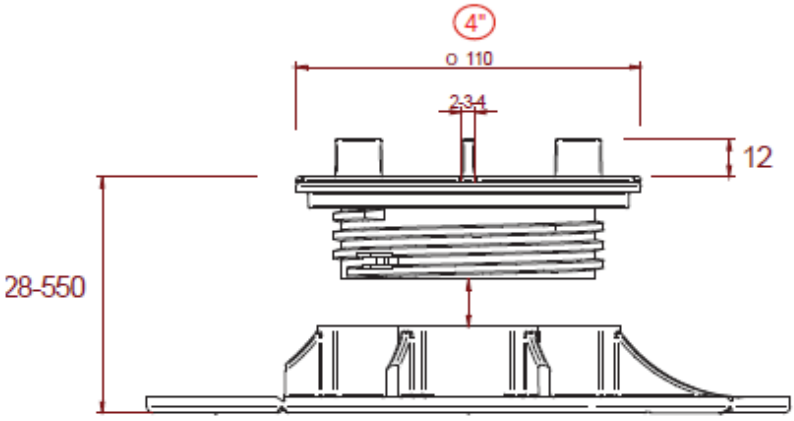
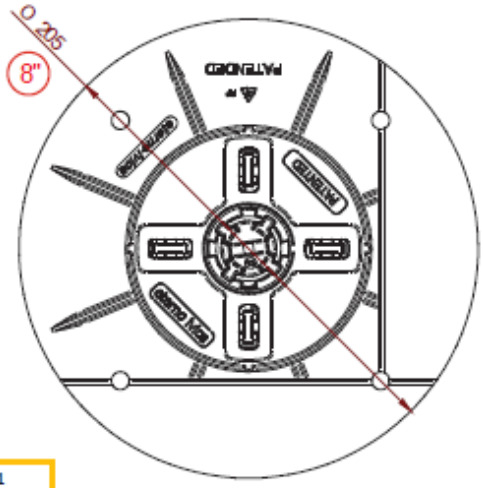
SECTION 11
DRAWINGS

The test specimen drawings have been reviewed by Intertek B&C and are representative of the test specimen reported herein. Test specimen construction was verified by Intertek B&C per the drawings included in this report. Any deviations are documented herein or on the drawings.





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TECHNICAL SPECIFICATION:

Supply and installation of supports for raised floors type "Eterno", adjustable in height, equipped with bi-material tilting self-levelling head, with anti-noise and anti-slip rubber finish. The supports are composed of polypropylene elements consisting of a cylindrical base with manually fracturing elements with a minimum diameter of 205mm, a screw with an adjustable height from 28mm up to 550mm, equipped with an anti-screwing safety lock and a head equipped with N°4 spacer tabs with a thickness of either 2, 3, or 4mm and a height of 12mm easily removable if necessary. In the base there are holes for the outflow of water and N°2 grooves to facilitate manual cutting if needed. The height adjustment is carried out using the tailored adjustment key, which acts on the screw independently from both the head and the base. It is possible to increase the height of the supports by using the P1 extension

CHARACTERISTICS:
Adjustable in height
Bi-component self levelling head (PP and rubber)
Slope compensation from 0% to 5%
Tailored key for height adjustment
Easy removable tabs
Anti-screwing safety lock
manually fracturable base

RAW MATERIAL:
Polypropylene and rubber (head top finishing)

ENVIRONMENTAL IMPACT:
Recyclable material - non dangerous

ICATIONS SURFACES:
On any waterproofing membrane
On any insulating panel
On any compact and solid surface

APPLICATIONS AREA:
Can be used with any prefabricated self supporting element for outdoor flooring

GENERAL CHARACTERISTICS & PROPERTIES

	UNIT	*VALUE*	*TOLERANCE +/-*
BASE DIAMETER	mm	205	+/- 1.0
BASE THICKNESS	mm	5	+/- 0.2
HEAD DIAMETER	mm	110	+/- 0.8
SURFACE OF THE BASE	cmq	330	+/- 5
TABS THICKNESS	mm	2-3-4	+/- 0.2
TABS HEIGHT	mm	12	+/- 0.2
SHORE	Shore d	70	+/- 3
SLOPE CORRECTION	%	5	+/- 0.5
FIRE REACTION*	UNI-EN 13501-1:2009	classeE	
LOW T(°C) REACTION	°C	-40	

*Tests made by Giordano S.p.A. Institute of Bellaria-Igea Marina (RN)-Italy

100275996 | BOTTEGA CALIZA ANT

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PORCELANOSA Grupo

Model: BOTTEGA CALIZA ANT
Codes: 100275996

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DIMENSIONAL FEATURES		
Length	23 7/16" approx (24")	
Length and width deviation	Below 0.15%	+/-0.3%*
Side straightness deviation	Below 0.15%	+/-0.3%*
Squareness deviation	Below 0.15%	+/-0.3%*
Surface flatness deviation	Below 0.15%	+/-0.4%*
Thickness	13/16" approx	+/-5%*
Thickness tolerance	5 DMM	
Width	23 7/16" approx (24")	

MECHANICAL FEATURES		
Abrasion resistance	<140	
Breaking strength	>2249 LBF	>292LBF*
Qb-upec (c)	2Ft	
Qb-upec (e)	3	
Qb-upec (p)	3	
Qb-upec (u)	4	

HYGIENIC FEATURES		
Chemical resistance	Class "A" for swimming pools and cleaning products (resists attack). Minimum Class "B" for acids and bases	B Min.*
Stain resistance	Class 5. Easy cleaning with water	3 Min.*

ANTI-SLIP VALUE		
4s	DRY>36-LOW WET>36-LOW	
Friction (dry)	0.72	
Friction (wet)	0.74	
Slip resistance (pendulum-dry)	>40	
Slip resistance (ramp)	R13-C	

SCOPE OF USE		
Technical code-1	Use on heavy traffic floors	

VFS Polyurethane mastic p-404

p-404 is polyurethane putty for sealing joints. Specially recommended for sealing movement joints outdoors. Indoor and outdoor use.

This reticular putty when in contact with dampness does not give off odors, thus becoming an extraordinary adherent, elastic and resistant elastomer to atmospheric agents.

Recommended use

- Sealing joints even between materials sensible to chemical attack.
- Sealing movement joints in floors and walls.
- Bonding of building materials like ceramics, concrete, roof tiles, wood, aluminium, polyester, or PVC.
- Gluing ceramic materials on metal or wood boards.
- Gluing access floor pedestals.
- Gluing ceramic to the butech's ventilated facade system structure: DIT 530/11
- Gluing concept xps panels.

Materials

- Ceramic tiles and glass mosaic.
- Glass.
- Metal.
- Plastic material, PVC.
- Concrete slabs.
- Wood.
- concept xps panels

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Before applying the p-404 **putty** on a ceramic wall covering not stated in the previous listing, please perform a test or check with **butech's Technical Department**.

Substrates

All usual substrates for ceramic tiles laying.

Characteristics

- Single-component polyurethane putty.
- High elasticity. Can withstand movements up to 20% of the sealed joint width.
- High adherence.
- Resistant to UV rays.
- Frost-resistant.
- It can be painted with water-based paints.

CE
EN 15651

VFS Polyurethane mastic p-404

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Technical data

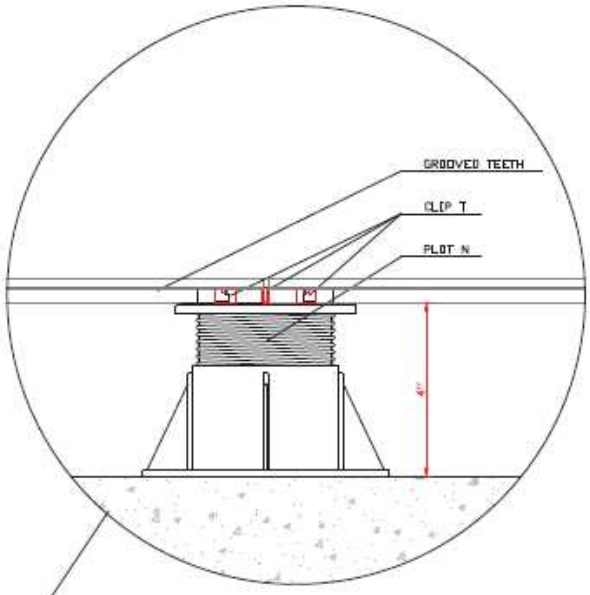
Appearance	Colored thixotropic paste
Smell:	Characteristic
Hazard	Irritant (see material safety data sheet)
Storage time	12 months in a dry place
Specific weight	1.18 g/cm^3
Application temperature	41ºF to 95ºF
Initial cross-linking	60 min.
Final hardening	24 h / 1/8 " thickness

Shore A Hardness	DIN 53505	40
Elasticity modulus	ISO 8339	0.4 MPa
Elongation	ISO 8339	600 %
Resistance to acids and diluted bases	Medium	
UV light fastness	Good	
Resistance to saline fog	**Excellent**	
Heat resistance	-22º F to 176ºF	

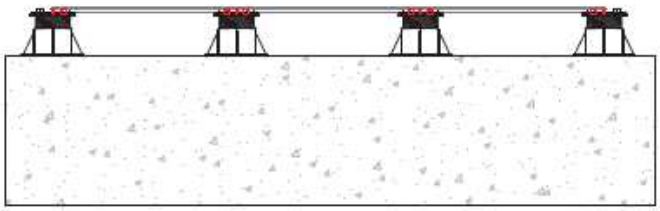
Data obtained in standard laboratory conditions, at 73.4ºF and 50% relative humidity.

References

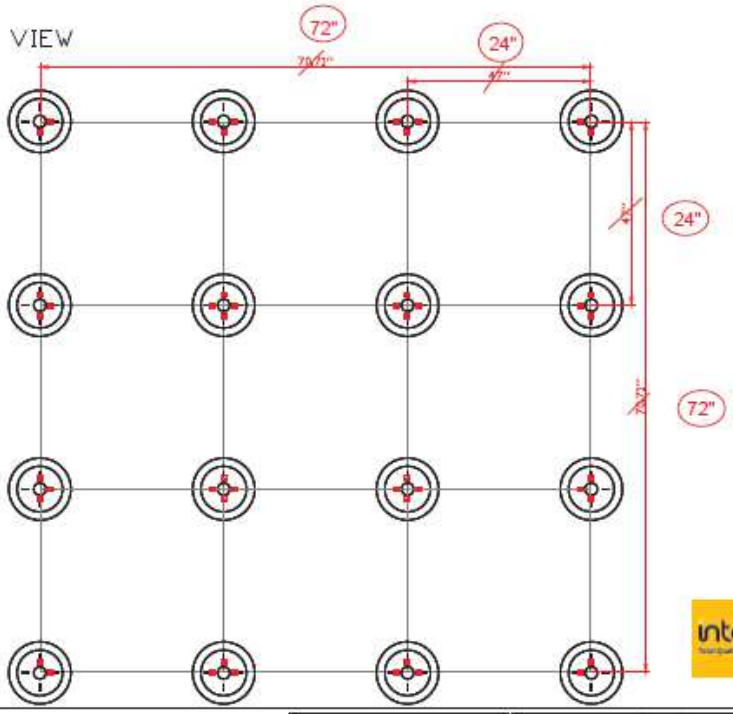
SAP	Product description	Packaging	Palletizing
100005820	**VFS Polyurethane mastic p404 (black)**	300 ml cartridge	25 Cartridge box
100005818	**VFS Polyurethane mastic p404 (white)**	300 ml cartridge	25 Cartridge box



SIDE VIEW



TOP VIEW



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Drawn by: Fran González Technical department	Commercial BUTECH: Delegation: Commercial:
Proyect reference: STEx Proyect:	Date: 08.07.24 / Scale:

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SECTION 12
REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	09/20/24	N/A	Original Report Issue