

# CUPA PIZARRAS TEST REPORT

**SCOPE OF WORK**

STRUCTURAL TESTING ON 201 VANGUARD, NATURAL SLATE

**REPORT NUMBER**

H7897.02-109-44

**TEST DATE(S)**

11/09/17

**ISSUE DATE**

12/19/17

**RECORD RETENTION END DATE**

11/09/21

**PAGES**

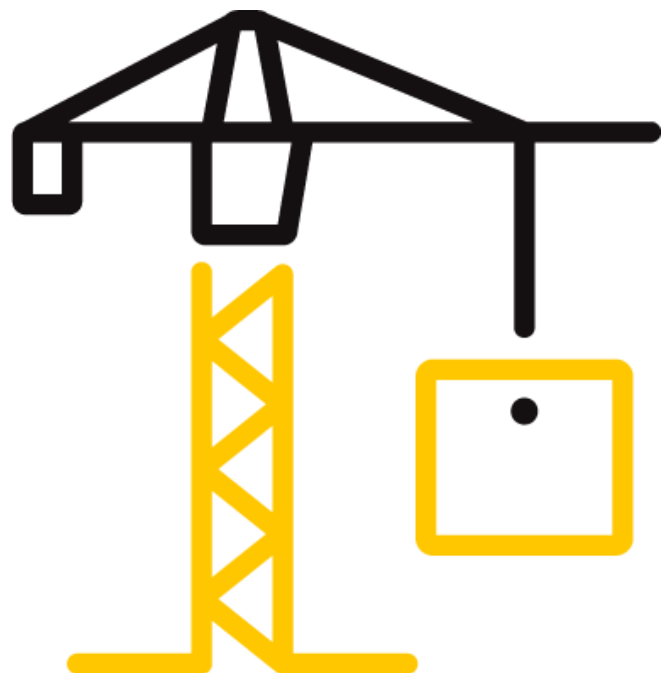
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## TEST REPORT FOR CUPA PIZARRAS

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Date: 12/19/17

### REPORT ISSUED TO

#### CUPA PIZARRAS

La Medua s/n

32330 Sobradelo de Valdeorras (Ourense)

SPAIN

### SECTION 1

#### SCOPE

Intertek Building & Construction (B&C) was contracted by Cupa Pizarras, La Medua s/n 32330 Sobradelo de Valdeorras (Ourense), SPAIN to perform testing in accordance with ASTM E330/E330M-14, *Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference*, on their Vanguard, Natural Slate. 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.

### SECTION 2

#### SUMMARY OF TEST RESULTS

TITLE	RESULTS
Ultimate Positive Design Pressure	±4800 Pa (±100.25 psf)
Ultimate Negative Design Pressure	±4800 Pa (±100.25 psf)

For INTERTEK B&C:

<b>COMPLETED BY:</b>	Robert J. Beatty	<b>REVIEWED BY:</b>	Timothy J. McGill
<b>TITLE:</b>	Technician III – Product Testing	<b>TITLE:</b>	Manager – Product Testing
<b>SIGNATURE:</b>		<b>SIGNATURE:</b>	
<b>DATE:</b>	12/19/17	<b>DATE:</b>	12/19/17

RJB:abo

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## TEST REPORT FOR CUPA PIZARRAS

Report No.: H7897.02-109-44

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### SECTION 3

#### TEST METHOD(S)

The specimen was evaluated in with the following:

**ASTM E330/E330M-14**, *Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference*

### 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 two years from the test completion date.

The specimen was installed onto a 16 gauge 2x6 steel stud wall with studs spaced 24" on center and 1/2" densglass sheathing. Installation of the tested product was performed by the client.

#### Installation:

Vertical extruded aluminum battens were first attached to each stud of the test buck by means of 4-3/4" long aluminum angle brackets measuring 4" by 1-5/8". The brackets were secured with #15 x 2" long self-drilling pan head screws spaced at 39" on center through the densglass into the stud. Horizontal extruded aluminum battens were then attached to the vertical battens and secured with #12 x 1" self-drilling hex head screws spaced 24" on center into each of the vertical battens. The slate tiles were then installed onto the horizontal battens with two 9/16" wide by 2-7/16" long by 0.53" thick stainless steel clips per tile. Two #12 x 1" self-drilling flat head screws per tile were utilized to secure the top course. Nine courses were utilized to cover the test buck with each row offset from the one below.

### SECTION 5

#### EQUIPMENT

Control Panel – 005644

Transducers – INT00153, INT00142, 65989, INT00145, INT00146

### SECTION 6

#### LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Nick Wilkus	Cupa Pizarras
Timothy J. McGill	Intertek B&C
Robert J. Beatty	Intertek B&C

## TEST REPORT FOR CUPA PIZARRAS

Report No.: H7897.02-109-44

Date: 12/19/17

### SECTION 7

#### TEST SPECIMEN DESCRIPTION

**Product Type:** Natural Slate

**Series/Model:** 201 Vanguard

#### Product Size(s):

OVERALL AREA:	WIDTH		HEIGHT	
	millimeters	inches	millimeters	inches
5.9 m <sup>2</sup> (64.0 ft <sup>2</sup> )				
Overall size	2438	96	2438	96
Tile size	599	23-9/16	302	11-7/8

#### Tile Construction:

TILE MEMBER	MATERIAL	DESCRIPTION
Tile	Hand quarried natural slate	Maximum thickness 0.295", minimum thickness 0.229"

## TEST REPORT FOR CUPA PIZARRAS

Report No.: H7897.02-109-44

Date: 12/19/17

### SECTION 8

#### TEST RESULTS

Upon completion of the loading sequence of the panel specimen, there were no component failures.

The temperature during testing ranged from 15°C (59°F) to 16°C (60°F). The results are tabulated as follows:

TITLE OF TEST	RESULTS	ALLOWED	NOTE
<b>Uniform Load Deflection,</b> per ASTM E330 Deflections taken at the width of one natural slate +4800 Pa (+100.25 psf) -4800 Pa (-100.25 psf)	1.8 mm (0.07") 0.5 mm (0.02")	Report only	1, 2
<b>Uniform Load Deflection,</b> per ASTM E330 Deflections taken at the width of the entire specimen +4800 Pa (+100.25 psf) -4800 Pa (-100.25 psf)	21.8 mm (0.86") 33.5 mm (1.32")	Report only	1, 2
<b>Uniform Load Structural,</b> per ASTM E330 Permanent sets taken at the width of one natural slate +4800 Pa (+100.25 psf) -4800 Pa (-100.25 psf)	1.3 mm (0.05") 0.8 mm (0.03")	Report only	1, 2
<b>Uniform Load Structural,</b> per ASTM E330 Permanent sets taken at the width of the entire specimen +4800 Pa (+100.25 psf) -4800 Pa (-100.25 psf)	5.6 mm (0.22") 7.1 mm (0.28")	Report only	1, 2

**General Note:** All testing was performed in accordance with the referenced standard(s).

**Note 1:** Loads were held for 10 seconds.

**Note 2:** Tape and film were used to seal against air leakage during structural testing. In our opinion, the tape and film did not influence the results of the test.

## TEST REPORT FOR CUPA PIZARRAS

Report No.: H7897.02-109-44

Date: 12/19/17

### SECTION 9

#### PHOTOGRAPHS



**Photo No. 1**  
**Test Specimen**



Total Quality. Assured.

130 Derry Court  
York, Pennsylvania 17406

Telephone: 717-764-7700  
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[www.intertek.com/building](http://www.intertek.com/building)

## TEST REPORT FOR CUPA PIZARRAS

Report No.: H7897.02-109-44

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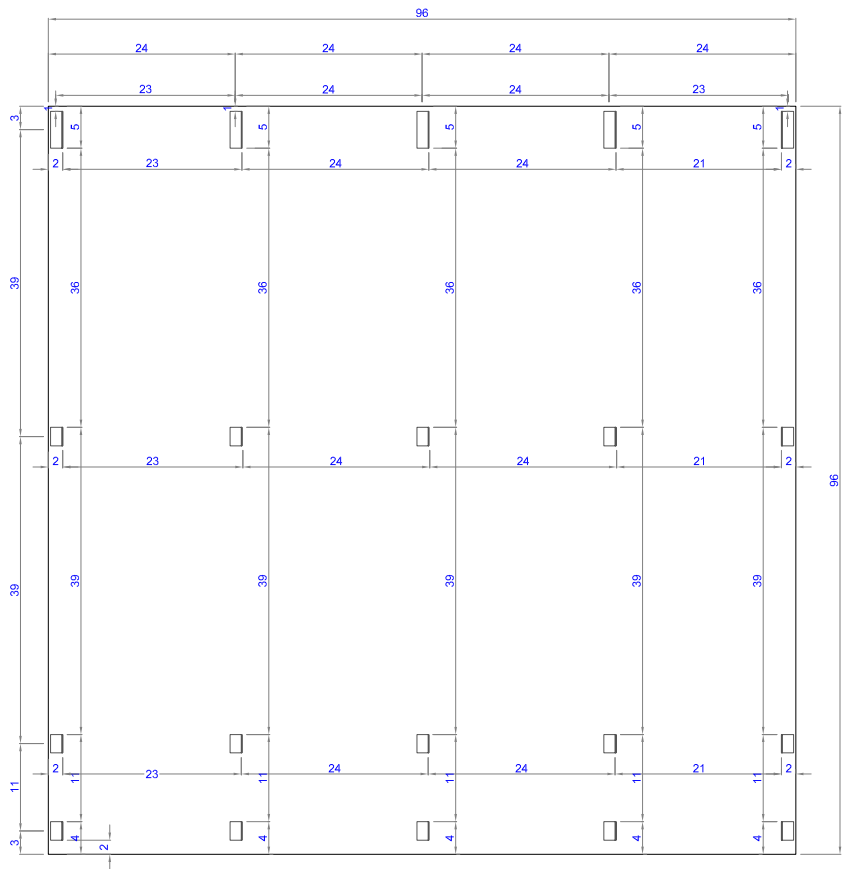
### SECTION 10

#### DRAWINGS

The test specimen drawings have been reviewed by Intertek B&C and are representative of the test specimen(s) 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.

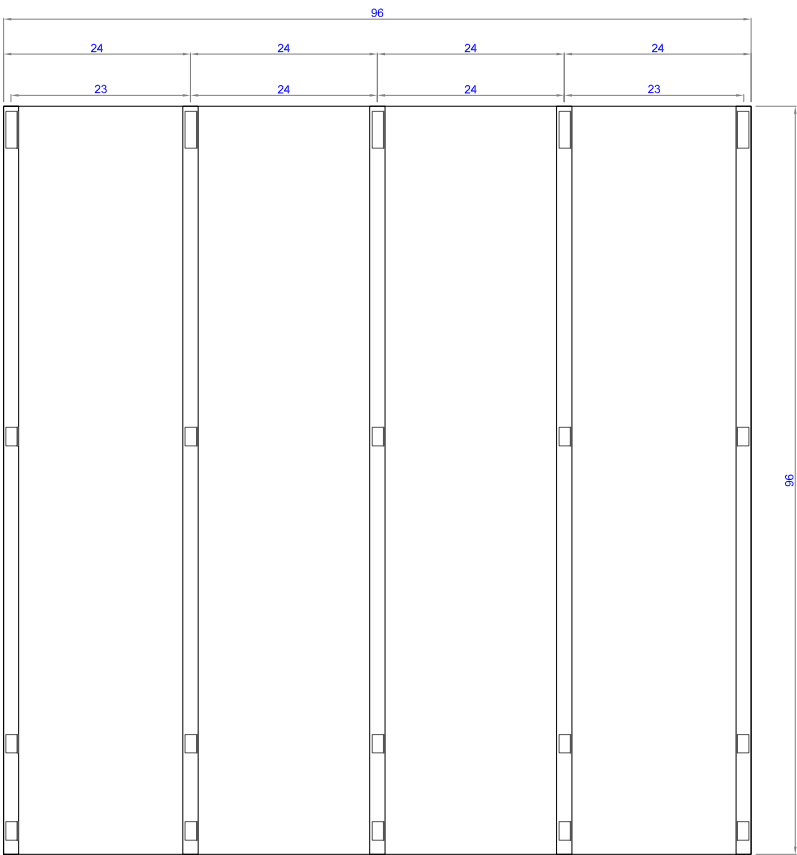
BRACKETS

- 5 fixed point
- 15 sliding point



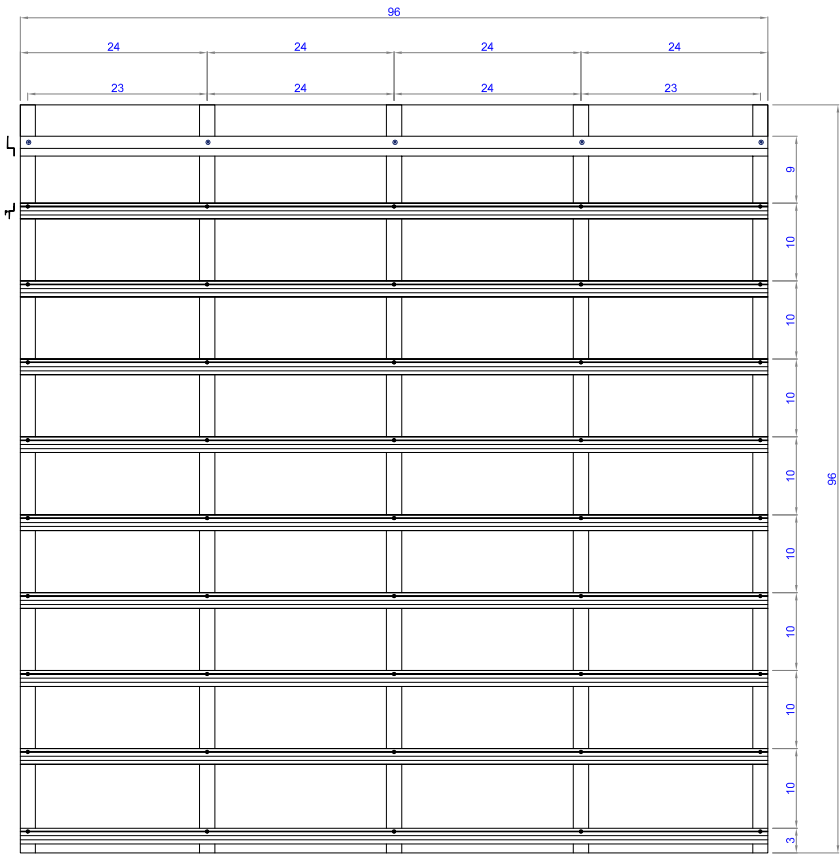
VERTICAL PROFILE

- 5 units "L" profile\_40 lf (3 profile 217")



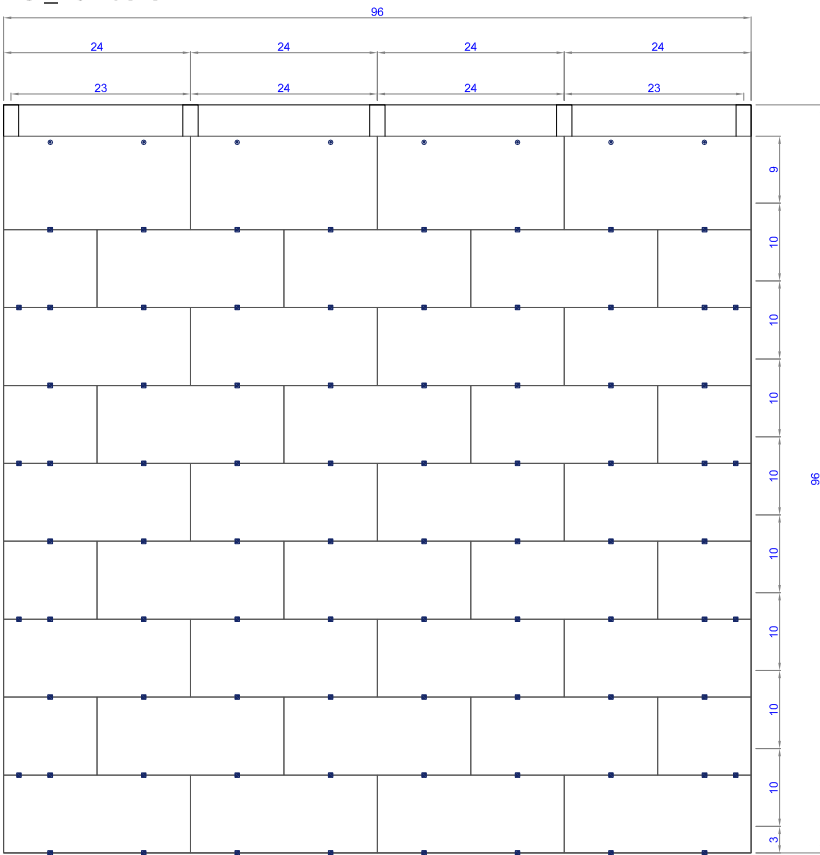
HORIZONTAL PROFILE

- 9 \_201 horizontal profile (72lf)\_4 profiles 217"
- 1 \_201 top profile (8lf)\_1 profile 217"



SLATE

- 40 units (24"x12")
- 80 clips
- 8 \_101 screw



CUPACLAD\_201 VANGUARD



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Report No.: H7897.02-109-44

Date: 12/19/17

### SECTION 11

#### REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	12/19/17	N/A	Original Report Issue