

## TEST REPORT No. 401254

Customer

**IMPERTEK S.r.l.**  
Via Po, 507 - 30022 CEGGIA (VE) - Italy

Item#

**raised access floor named  
"Universal Windproof Anchoring System"**

Activity



**resistance to uniformly-distributed static loading  
(negative pressure) by simulated wind suction**

Results

Configuration	Maximum load [Pa]
No. 2 skippers per side	<b>800</b>
No. 3 skippers per side	<b>900</b>

(#) according to that stated by the customer.

Bellaria-Igea Marina - Italy, 30 December 2022

Chief Executive Officer

Order:  
94098

Item origin:  
sampled and supplied by the customer

Identification of item received:  
2022/2829 dated 12 December 2022

Activity date  
12 December 2022

Activity site:  
Istituto Giordano S.p.A. - Strada Erbosa Uno, 72 -  
47043 Gatteo (FC) - Italy

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The results relate only to the item examined, as received, and are valid only in the conditions in which the activity was carried out.

This document is the English translation of the test report No. 401254 dated 30 December 2022 issued in Italian; in case of dispute the only valid version is the Italian one.

Date of translation: 7 February 2023.

The original of this document consists of an electronic document digitally signed pursuant to the applicable Italian Legislation.

**Chief Test Technician:**

Dott. Ing. Paolo Bertini

**Head of Security and Safety Laboratory:**

Dott. Andrea Bruschi

**Compiler:** Valentina Rocchi

**Reviewer:** Dott. Andrea Bruschi

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**Description of item#**

The item under examination consists of a section of raised access floor placed inside a wooden surround, size 3000 mm × 3000 mm.

The item's main components are:

- porcelain tiles, plan-view dimensions 597 mm × 597 mm and thickness 20 mm;
- “Universal Windproof Anchoring System” comprising Skippers of thickness 3 mm (metal anchors to interlock tiles) and Lockers (anti-rotational clamps);
- No. 36 “Balance Pro” plastic feet.

The item was tested in two different configurations, more specifically:

- with No. 2 Skippers and Lockers per side;
- with No. 3 Skippers and Lockers per side.

See annex “A” for further details.

**List of components/hardware**

- wooden surround;
- No. 25 porcelain tiles;
- skippers;
- lockers used to clamp the Skippers;
- No. 36 “Balance Pro” supporting pedestals.

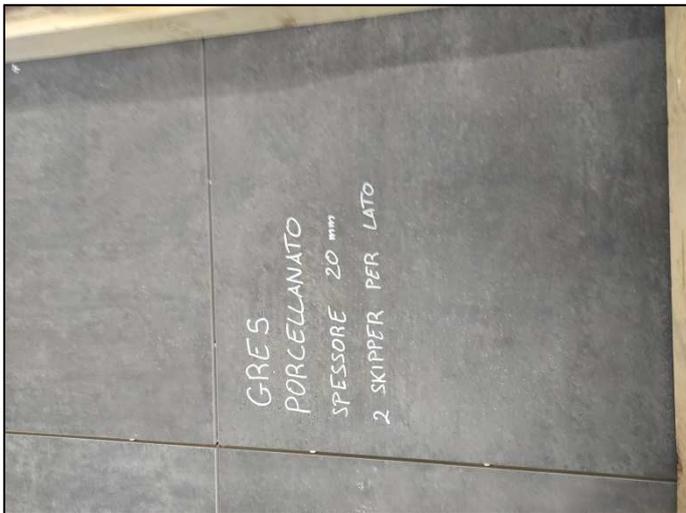


Photo of item with No. 2 Skippers per side

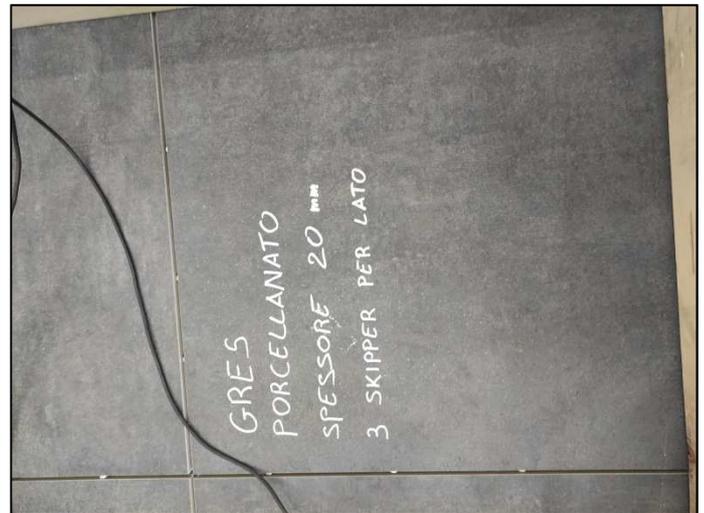


Photo of item with No. 3 Skippers per side

**Apparatus**

Description	In-house identification code
computerised semiautomatic control and measurement system capable of performing the suction test	EDI001
6 Gefran “PZ34S150” displacement transducers with cylindrical case	EDI017A, EDI017B, EDI017C, EDI017D, EDI017E, EDI017F
Mitutoyo Corporation 5 m digital tape measure	FT364

(#) according to that stated by the customer; Istituto Giordano declines all responsibility for the information and data provided by the customer that may influence the results.

**Method**

The item was installed by the customer in a special surround and underwent the resistance to uniformly-distributed static loading under negative pressure test with measurement of deflection whilst loaded and recording of residual deformation.

More specifically, the following test procedure was performed:

- bedding-in step of -100 Pa during which no measurements are taken and sensors are reset after removal of load;
- steps every -100 Pa until failure or detachment.

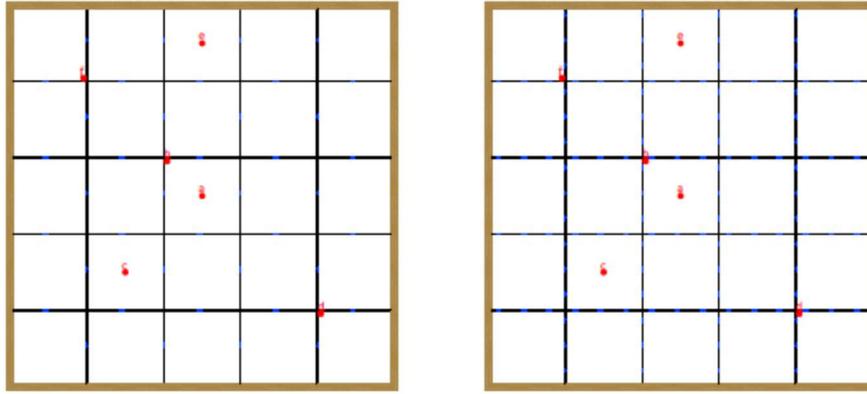
After bedding in, deflection is measured for each measurement point and each pressure step after maintaining load constant for at least 10 s.



**Photo of item during testing in configuration with No. 2 Skippers**



**Photo of item during testing in configuration with No. 3 Skippers**



Item elevations in the two configurations showing measuring points

**Environmental conditions**

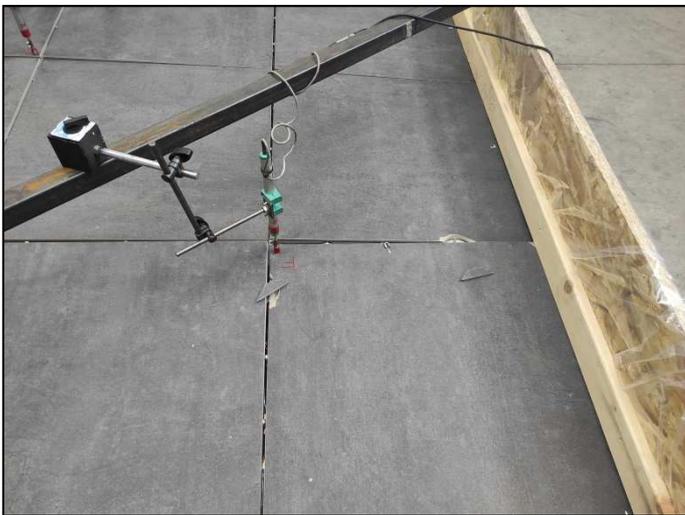
Atmospheric pressure	(1002 ± 50) Pa
Temperature	(15 ± 1) °C
Relative humidity	(58 ± 5) %

**Results**

Configuration	Pressure [Pa]	Deflection at the measuring points					
		a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	f [mm]
No. 2 Skippers per side	0	0,00	0,00	0,00	0,00	0,00	0,00
	-100	0,08	0,05	0,05	0,07	0,07	0,03
	-200	0,17	0,16	0,13	0,14	0,16	0,13
	-300	0,29	0,29	0,27	0,32	0,27	0,30
	-400	0,58	0,61	0,58	0,99	0,52	0,74
	-500	32,70	34,20	19,83	6,57	11,26	7,31
	-600	41,40	42,49	24,99	9,13	13,75	9,84
	-700	47,92	49,18	29,30	11,08	15,74	12,04
	-800	54,08	55,38	33,46	13,00	17,69	14,15
-830	Tile breakage at the Skippers						
No. 3 Skippers per side	0	0,00	0,00	0,00	0,00	0,00	0,00
	-100	0,09	0,06	0,07	0,05	0,04	0,06
	-200	0,19	0,16	0,17	0,17	0,12	0,11
	-300	0,33	0,32	0,30	0,52	0,22	0,17
	-400	0,65	0,65	0,57	1,51	0,45	0,32
	-500	28,63	31,13	17,77	6,51	9,62	6,92
	0	0,45	0,44	0,61	0,41	2,99	0,49
	-600	35,97	37,41	22,42	8,88	11,67	9,09
	-700	41,78	43,25	26,29	10,82	14,04	11,17
	-800	47,81	49,09	30,24	12,88	16,73	13,44
	-900	54,80	56,28	34,67	15,16	19,49	15,96
	-950	Tile breakage at the Skippers					



**After-test photo of item in configuration with No. 2 Skippers**



**After-test photo of item in configuration with No. 3 Skippers**

**Findings**

<b>Configuration</b>	<b>Maximum load [Pa]</b>
No. 2 Skippers per side	<b>800</b>
No. 3 Skippers per side	<b>900</b>