Adapt Asia Ltd.

TEST REPORT

REPORT NUMBER
190306009SHF-001

ISSUE DATE
2019/4/18

PAGES
10

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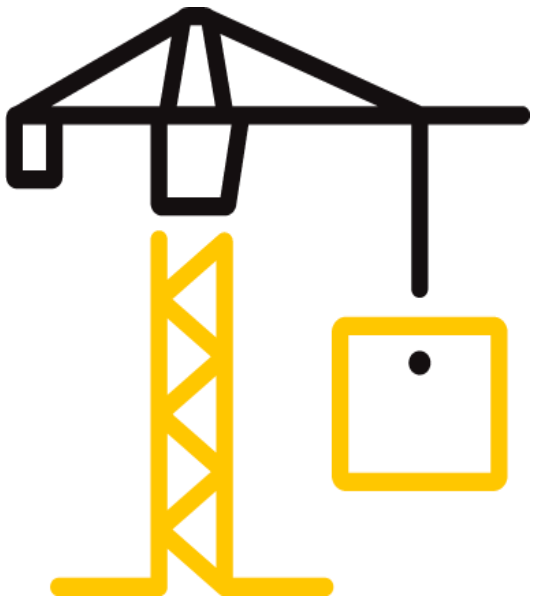

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Test Report

Issue Date: 2019/4/18 Intertek Report No. 190306009SHF-001

Applicant: Adapt Asia Ltd.

Applicant Address: 19/F Hollywood Centre, 233 Hollywood Road, Sheung Wan, Hong Kong

Attn: Mr Ye

SUBJECT: Performance testing
MgO Floor Tile LPC

Dear Sir,
This test report represents the results of our evaluation of the above referenced product(s) to the requirements contained in the following standards:

TEST METHODS AND STANDARDS
Refer to the next following Pages.

SAMPLE ID	MODEL	SPECIFICATION
S190306009SHF.001	MgO Floor Tile LPC: 12846	607.2x607.2x19.05
	Webbing: LPC and LPC+	/

SAMPLE RECEIEVED: 2019/3/6
TESTED FROM: 2019/3/6 TO 2019/4/10

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Test Items, Method and Results:

1. General and load classes

The ultimate load is the main criterion for classification.
All the other load bearing characteristics are related to the ultimate load.
Raised access floors are classified according to the ultimate load as given in EN 12825:2001(E) Table 1.

Table 1-Classes of elements

Class	Ultimate load (kN)
1	⩾4
2	⩾6
3	⩾8
4	⩾9
5	⩾10
6	⩾12

2. Loading bearing capacity

2.1 General

The raised access floor shall be designed and manufactured in such a way that it provides mechanical resistance and stability and that the loading that is liable to act upon it during its intended use will not lead to deformation or collapse.

2.2 Static loading requirements

The element when subjected to the test procedures as given in EN 12825:2001(E), Section 5.2.1 of the standard shall meet the following criteria:
a) Before the element collapses it shall have withstood the relevant ultimate load.
b) When the load applied is equivalent to the working load which is the ultimate load divided by the safety factor, the measured deflection shall not exceed the stated value in accordance to Table 2.

Table 2-Classes of deflection

Class	Maximum deflection (mm)
A	2.5
B	3.0
C	4.0

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Procedure

Panels were mounted on the particular pedestals. Pedestals were adjusted to the required height. A steel frame was rigidly fixed around the panel without direct connection to avoid horizontal movement of the element. The indentor was a (25 ± 0.1) mm steel cube. The test was repeated four times placing the indentor in the following positions:
1) at the center of the weakest edge,
2) at the center of the panel
3) at a diagonal 70 mm from the edge of a pedestal head
4) at any point which the test laboratory considers a point of weakness
A new panel was used for each test. A bedding-in load consisting of the working load stated by the manufacturer was applied and maintained for a period of 5 min via the indentor and then released. the deflection sensor was zeroed after (5±1) min loading of 200 N. This load was released before the beginning of the test. A steadily increasing load was applied at a speed of 120 N/s ± 10% until failure of any part of the element occurs. The deflection on the underside of the panel was continuously recorded from the beginning up to the point of failure

Result

Load Position	Ultimate Laod (N)	Deflection at working Load (mm)
At quarter point along diagonal	5480	1.82
At the quarter of the edge	3250	2.10
At a diagonal 70 mm from the edge of a pedestal head	4430	1.11
At 1/8 point along diagonal	6150	1.24

Note

1. Safety factor was 2.0 offered by client.
2. Working Load = Ultimate Load / Safety factor = 3250 N / 2.0 =1625 N

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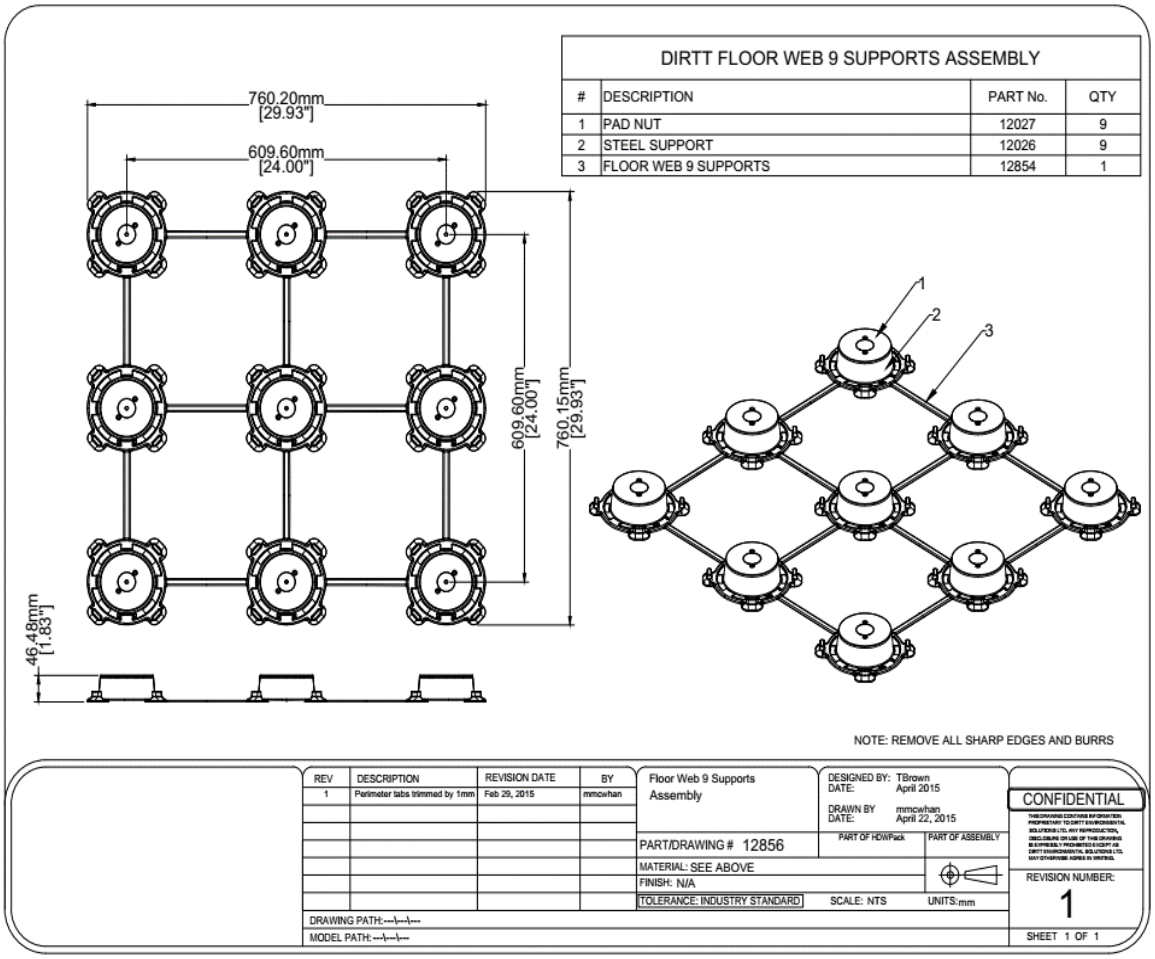
APPENDIX A: Drawing



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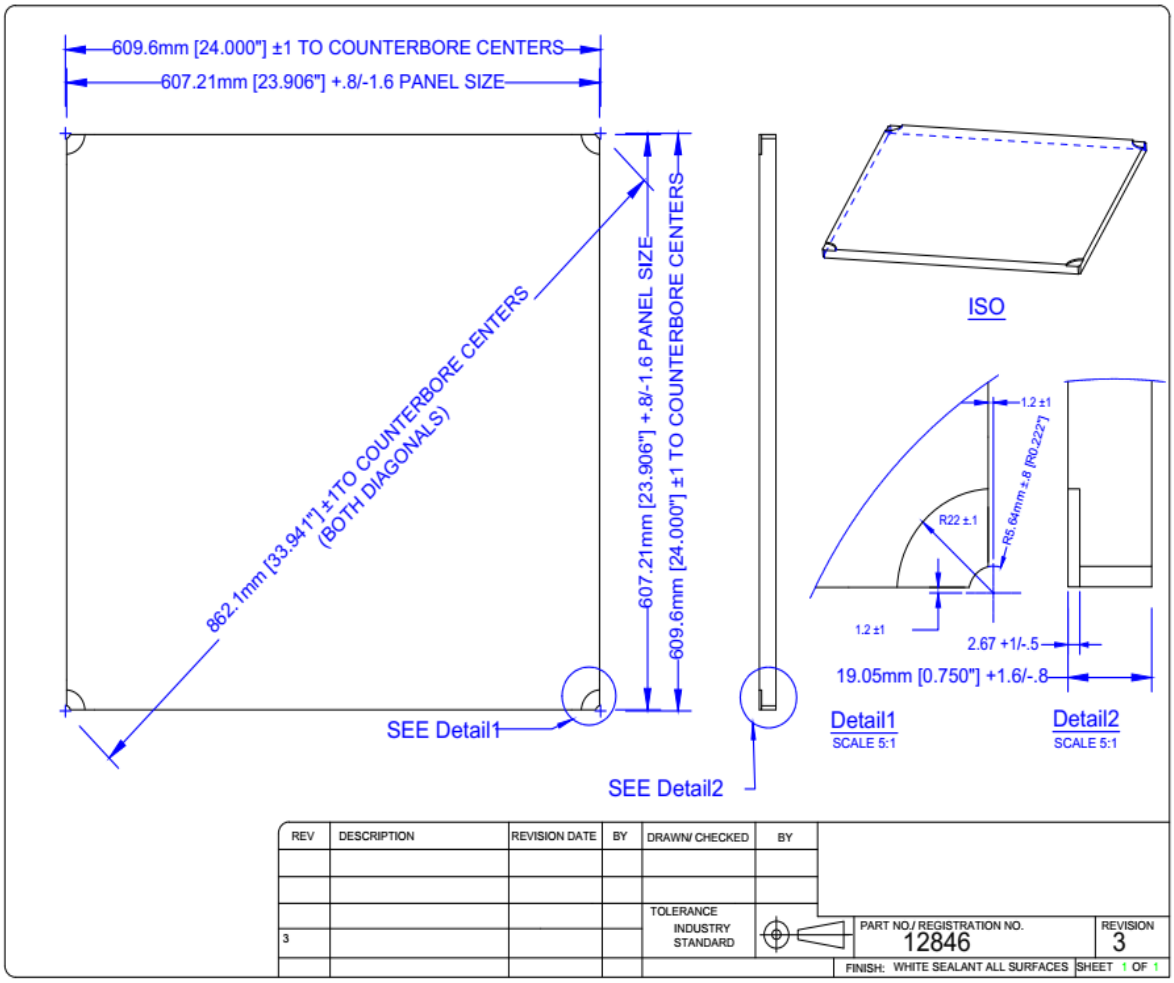

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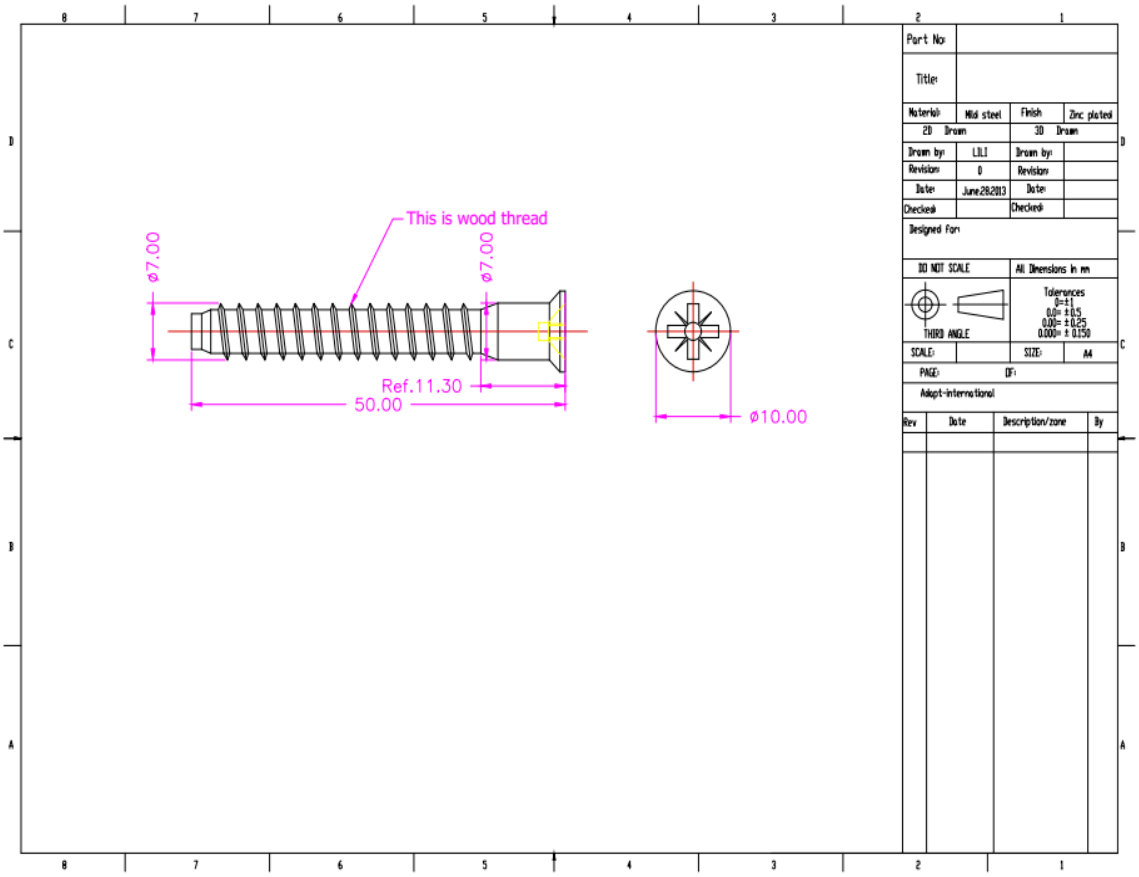

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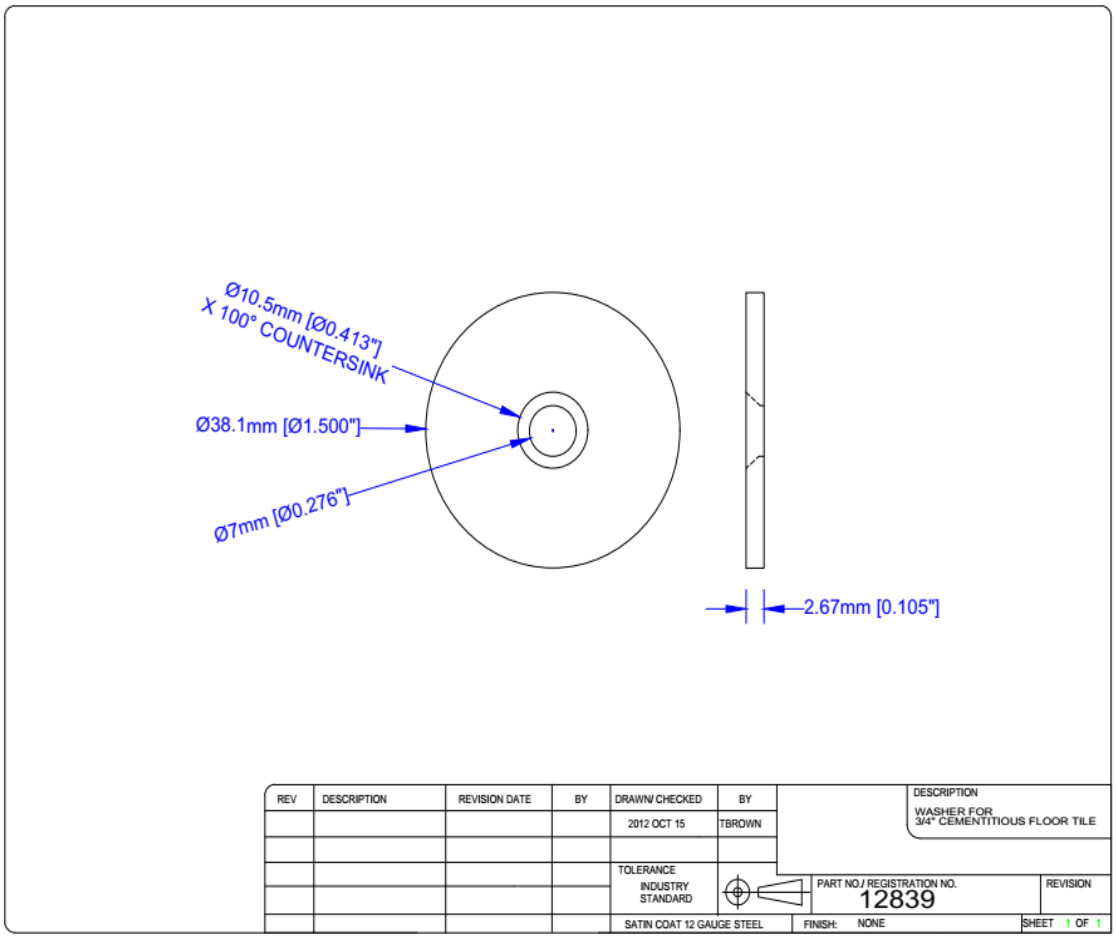

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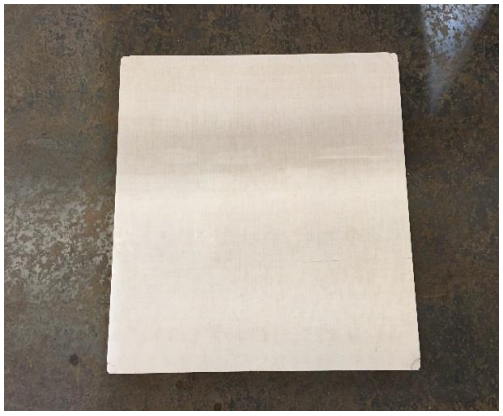
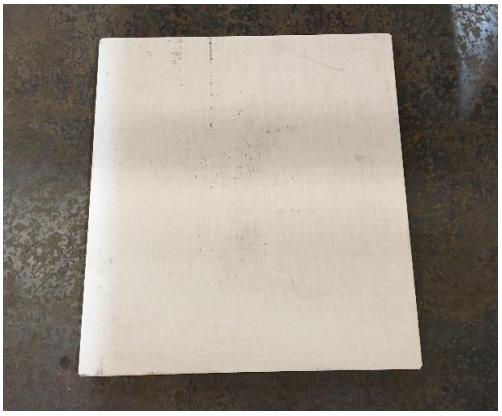
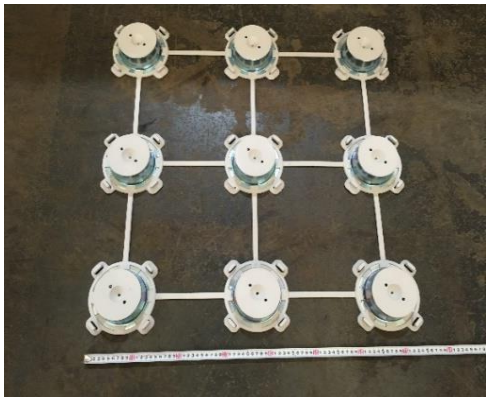
APPENDIX B: SAMPLE RECEIVED PHOTO



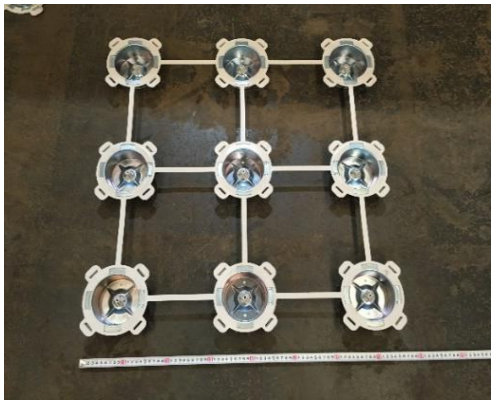
MGO Floor Tile LPC（Front view）



MGO Floor Tile LPC（Back view）



Webbing（Front view）



Webbing（Back view）

washer and screw

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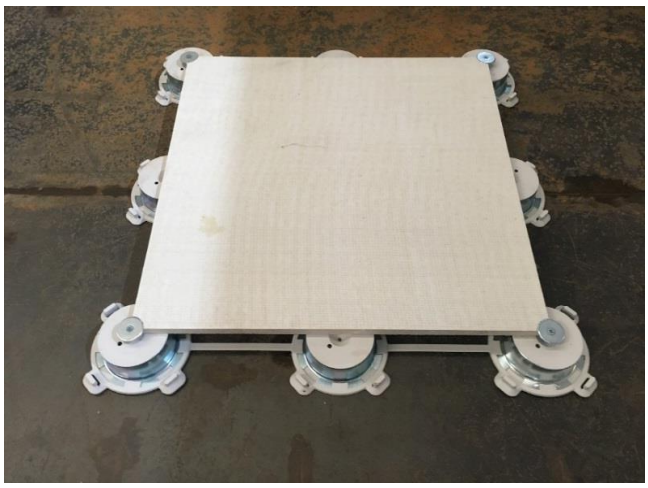
APPENDIX: SAMPLE RECEIVED PHOTO



REPORT AUTHORIZED

When signed with physical or electronic signature, the contents of this report have been prepared and approved per Intertek's quality process in accordance with ISO 17025.

Name: Torres Qi
Title: Reviewer

Name: Kyle Wang
Title: Project Engineer

Revision:

NO.	DATE	CHANGES	AUTHOR	REVIEWER
190306009SHF-001	2019/4/18	First issue	Kyle Wang	Torres Qi