




TEST REPORT

| **SQM_220_2019** |

EXPERIMENTAL DETERMINATION OF THE STATIC LOAD (EN 12825) OF A MULTI-LAYER TILE NAMED "SICIS COLLECTION: VETRITE/GEMGLASS", OF THE FIRM "SICIS S.R.L.", RAVENNA (RA) - ITALY.

PLACE AND DATE OF ISSUE:	Faenza, 08/07/2019
COMPANY:	Sicis S.r.l.
ADDRESS:	Via Canala 85 – 48123 Ravenna (RA) Italy
TYPE OF PRODUCT:	<i>Multi-layer tile for raised access floor</i>
STANDARD APPLIED:	EN 12825
DATE OF RECEIPT IN LABORATORY:	31/05/2019
TESTS EXECUTED:	25/06/2019
TESTS EXECUTED BY:	CertiMaC, Faenza

NOTE: Results contained in the present test report are exclusively referred to the samples subjected to the tests described hereafter. Moreover, this report is for the exclusive use of the Customer, within the limits set by mandatory legislation and cannot be reproduced, totally or partially (in digital or paper form), without a written approval of the Laboratory.

Test executed	Written	Approved
<u>_Eng. Mattia Morganti_</u> 	<u>_Eng. Mattia Morganti_</u> 	<u>_Eng. Luca Laghi_</u> 
Revision -		Page 1 of 4

1 Test execution and results

This Test Report describes the determination of the static load of a multi-layer tile for raised access floor, requested to CertiMaC Laboratory in Faenza by the Customer "Sicis S.r.l.", Ravenna (RA), Italy (Offer 19032/lab of 07/02/2019). Tests were performed on 4 samples (600 x 600 x 25 mm) (Figure 1), subjected standard condition (23°C and 50% r.h.) for 7 days.



Figure 1. Tile for raised access floor with pedestals and stringers system

1.1 Static load test

The determination of the static load was performed according to EN 12825 standard (Figure 2 and Table 1). Failure modes are reported in Figure 3.

Sample	Load position	Load [N]	Deflection [mm]	Deflection corresponding to the Exercise Load[mm]	
				n=2	n=3
1 - C	Centre	8502	5,42	2,92	2,01
2 - C	Centre	8968	5,23	2,87	1,95
1 - L	Half side	4418	4,31	2,37	1,62
2 - L	Half side	4766	5,11	2,92	2,06

Table 1. Results of the static load test

Rev. --	Test Executed	Written	Approved	Page 2 of 4
	Eng. Mattia Morganti	_Eng. Mattia Morganti_	_Eng. Luca Laghi_	SOM_220_2019

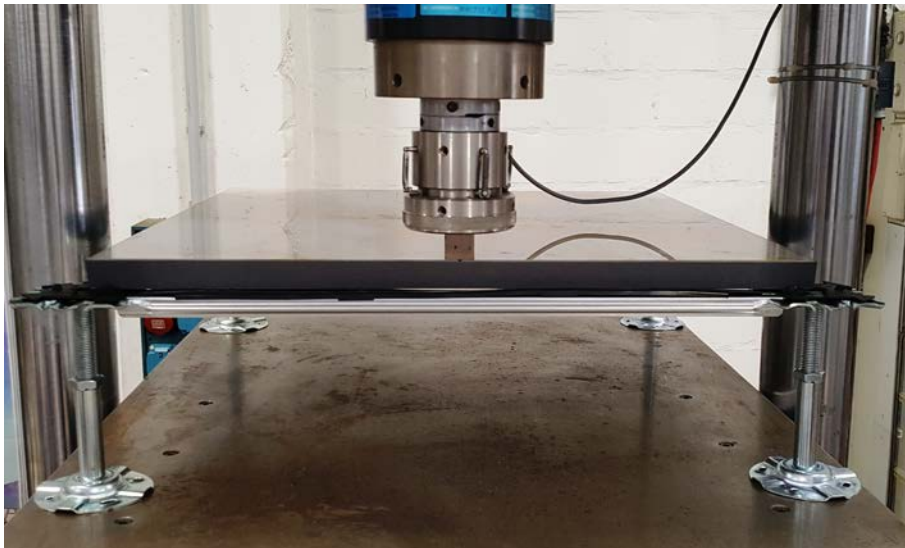
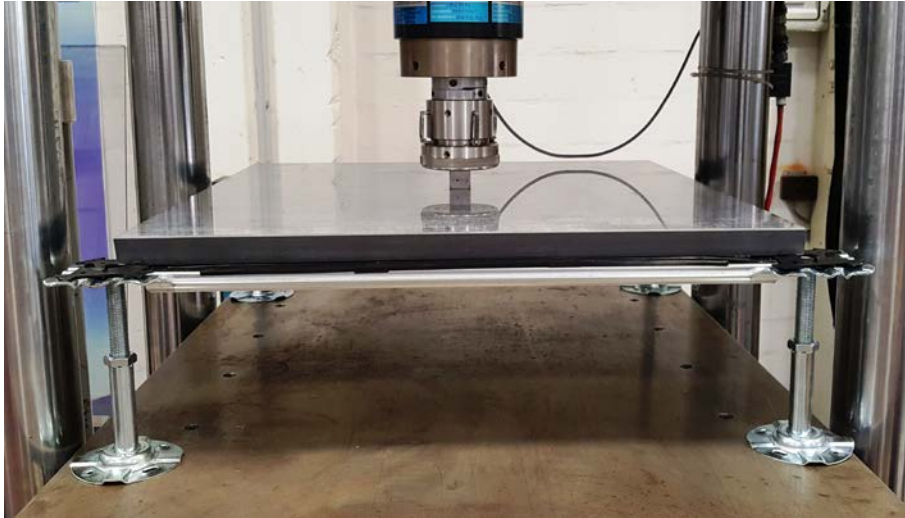


Figure 2. Test lay-out (centre and half side tests)

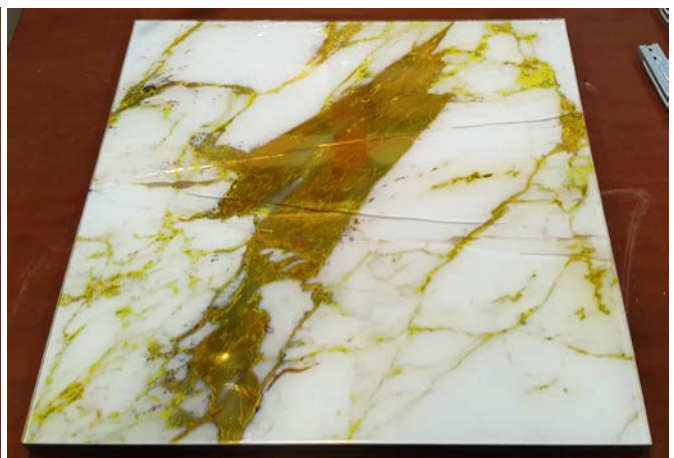


Figure 3. Example of tile fracture (centre and half side tests)

Rev. --	Test Executed	Written	Approved	Page 3 of 4
	Eng. Mattia Morganti	_Eng. Mattia Morganti_	_Eng. Luca Laghi_	SOM_220_2019

2 Conclusions

The product "Sicis Collection: Vetrite / Gemglass" shows the following results:

- Load class: **1**;
- Deflection class (n = 2): **B**;
- Deflection class (n = 3): **A**.

3 Distribution list

ENEA	Archives	1 copy
CertiMaC	Archives	1 copy
Customer	Sicis S.r.l.	1 copy

Rev. --	Test Executed	Written	Approved	Page 4 of 4
	Eng. Mattia Morganti	_Eng. Mattia Morganti_	_Eng. Luca Laghi_	SOM_220_2019