



**REPORT
FROM TESTING**

№ I 1 10 1197 / 12.03.2024

1. **Product of testing:** Gypsum and gypsum based construction products
2. **Information provided by the applicant about the product:** Fire and Moisture resistant gypsum boards – BEAM- Gboard® FMR

Manufacturer: Ecobat For Industrial Development, address: Administrative Building, ECOBAT industrial Zone, km 114, Ain Sokhna, Kattameya Old Road, Suez, Egypt.
3. **Applicant of the testing:** BEAM Shared Services S.A.L (Offshore Company) An-Nahar, 2nd Floor, Plot no 1473/Al Marfaa, section 19, Downtown Beirut, Lebanon
4. **Application for the testing:** № 2-0416/02.06.2023, without report from sampling from CPTL
5. **Location of performance of the testing:** Construction Product Testing Laboratory
6. **Test methods:**
EN 520:2004+A1:2009 Gypsum plasterboards - Definitions, requirements and test methods
7. **Date of delivery of the sample for testing to the laboratory:** 24.07.2023
8. **Description of the received sample:** four boards with full sizes; 7 samples 400/300mm; 1 sample 500/500mm; 6 samples 125/125 mm; 3 samples 300/300 mm.
9. **Date/s/ of performance of the testing:** 09.08.2023 ÷ 25.08.2023

Head of laboratory:
(eng. H. Angelova)



Test report No I 1 10 1197 / 12.03.2024 replaces Test Report No 1 10 1197 / 26.09.2023, which should be considered invalid

10. Results from testing:

№	Name of testing/ characteristic	Unit of measure	Test method	Diary sample №	Test results (uncertainty)			Environmental conditions
1	2	3	4	5	6			7
1.	Bending strength – breaking load							
1.1	In longitudinal direction (L)	N	EN 520:2004+A1:2009	1060-0	632 530 627	Average 596 ± 66		t°= (22 ± 0.2)°C RH= (51 ± 1.5)%
1.2	In transverse direction (T)	N			232 238 229	Average 233 ± 5		
2.	Dimensions				№1	№2	№3	
2.1	Width	mm	EN 520:2004+A1:2009	1060-0	1201	1201	1200	t°= (22 ± 0.2)°C RH= (51 ± 1.5)%
					1200	1201	1201	
					1200	1201	1201	
2.2	Length	mm			2401	2402	2401	t°= (22 ± 0.2)°C RH= (51 ± 1.5)%
					2401	2401	2401	
					2402	2402	2402	
2.3	Thickness	mm			12.41	12.22	12.12	t°= (22 ± 0.2)°C RH= (51 ± 1.5)%
					12.37	12.28	12.14	
					12.60	12.48	11.94	
					12.54	12.39	12.04	
					12.44	12.51	11.95	
					12.51	12.38	11.91	
					Average 12.5	Average 12.4	Average 12.0	
3.	Density	0,1x10 ³ kg/m ³	EN 520:2004+A1:2009	1060-0	0.707 x 10 ³ 0.727 x 10 ³ 0.734 x 10 ³ 0.730 x 10 ³ 0.734 x 10 ³ 0.749 x 10 ³	Average 0.730 x 10 ³ ± 0.005 x10 ³		t°= (22 ± 0.2)°C RH= (51 ± 1.5)%



№	Name of testing/ characteristic	Unit of measure	Test method	Diary sample №	Test results (uncertainty)			Environmental conditions
1	2	3	4	5	6			7
4.	Total water absorption	%	EN 520:2004+A1:2009	1060-0	9.8 9.8 9.5	Average 9.7 ± 0.2		t°= (22 ± 0.2)°C RH= (51 ± 1.5)%
5.	Surface hardness	mm	EN 520:2004+A1:2009	1060-0	№1	№2	№3	t°= (22 ± 0.2)°C RH= (51 ± 1.5)%
					15	14	15	
					14	14	14	
					14	13	14	
					Average 14	Average 14	Average 14	

11. Additions to, deviations, or exclusions from the test methods: No

12. Additional information required by the test method: No

Note I: The test results apply to the tested samples only.

Note II: The report from testing shall not be reproduced except in full, without approval of the laboratory.

Note III: The laboratory is not responsible for the information presented by the applicant in p. 2, for the influence of this information on the validity of the results, as well as for the taking of samples when they are provided by the applicant.

Note IV: The reported expanded uncertainty of measurement is expressed as a standard uncertainty of measurement multiplied by a factor of coverage $k = 2$ at normal distribution of values and confidence of approximately 95%

Tested by:.....

(I. Ivanov)

.....
(D. Teneva)

Head of laboratory:.....

(eng. H. Angelova)



END