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Bellaterra	:	8 September, 2025
Test Report	:	**25/32306963**
Petitioner's reference	:	**PIT-TO-TABLE**
		CIF: 4500233015

TEST REPORT

Sample Nº: 25/35504

SUBJECT REQUESTED:

On 21 July 2025, LGAI received a sample of recycled test samples of different sizes with the following references, according to the Petitioner:

RECYCLED OLIVE PIT BOARDS
18 test specimens measuring 50x50 mm



REQUESTED TESTS:

- Determination of moisture content. UNE-EN 322:1993
- Determination of density. UNE-EN 323:1993
- Determination of swelling in thickness after immersion in water. UNE-EN 317:1993

DATE OF TESTING: from 21/07/2025 to 05/09/2025.

RESULTS: See attached pages.

Firmado digitalmente por JUAN MARTINEZ EGEA

Responsible for Construction Materials
LGAI Technological Center,S.A.

Firmado digitalmente por MANUEL LUQUE GAMA

Responsible Technician
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The results included in this document refer exclusively to the indicated materials and has been tested according to the specifications given. LGAI Technological Center, S.A. is not responsible for the documentation provided by the applicant. If the laboratory doesn't manufacture the test specimens, it is not responsible for the effect this may have on the results obtained.

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RESULTS:

- Determination of moisture content. UNE-EN 322:1993

- The petitioner sends the cut samples, a total of four specimens measuring 50 x 50 mm.
- Before drying the samples, the initial weight m_H is measured. The samples are then placed in an oven at a temperature of (103±2) ºC to obtain a constant mass
- The mass is considered constant when the results of two successive weighings carried out within a 6-hour interval do not differ by more than 0.1% in weight in relation to the initial mass of the samples.
- After the test samples have cooled to approximately laboratory temperature, each test sample is weighed again to an accuracy of 0.01 g.
- The moisture content, H, of the test specimen is calculated as a percentage of mass, rounded to 0.1%, using the following equation:

$$H = \frac{m_H - m_0}{m_0} x\ 100$$

Sample (Nº)	Initial weight, m_H (g)	Weight after drying, m_0 (g)	Moisture content, H (%)
1	51,44	49,32	4,3
2	51,00	48,94	4,2
3	52,86	50,75	4,2
4	52,70	50,58	4,2
		AVERAGE	**4,2**

- Determination of density. UNE-EN 323:1993

- The petitioner sends six cut and prepared samples measuring 50 x 50 mm.
- The samples are conditioned to a constant mass in an atmosphere of relative humidity of (65±5)% and temperature of (20±2) °C.
- Each test sample is weighed to an accuracy of 0.01 g.
- At the point of intersection of the diagonals of each specimen, the thickness, t, is measured with an accuracy of 0.05 mm.
- b_1 and b_2 are measured at two points, parallel to the edges of the test piece, along the line joining the centres of the opposite edges, with an accuracy of 0.1 mm.
- The density, ρ, of each specimen (kg/m³) is calculated using the following formula:

$$\rho = \frac{m}{b_1 \times b_2 \times t} \times 10^6$$

Sample (Nº)	Side 1, b_1 (mm)	Side 2, b_2 (mm)	Thickness, t (mm)	Weight, m (g)	Density (kg/m³)
1	50,3	49,9	20,10	52,22	**1036**
2	49,8	49,8	20,20	52,26	**1043**
3	50,3	49,8	19,65	51,87	**1054**
4	50,0	49,9	20,25	52,80	**1045**
5	50,2	49,9	19,90	53,24	**1068**
6	50,0	50,0	20,10	52,68	**1049**
				AVERAGE	**1049**

- Determination of swelling in thickness after immersion in water. UNE-EN 317:1993

- The petitioner sends eight cut and prepared specimens measuring 50 x 50 mm.
- Prior to testing, the test specimens must be conditioned to a constant mass in an atmosphere with a relative humidity of (65±5)% and a temperature of (20±2) °C.
- With the specimens already prepared, the thickness of each one is measured at the point of intersection of the diagonals with an accuracy of 0.01 mm.
- The specimens are immersed for 24 hours in a vertical position, in clean water, at rest and at a temperature of (20±1) °C. During the test, the upper edges must remain submerged at (25±5) mm.
- Once the immersion time is complete, the specimens are removed from the bath, excess water is removed, and the thickness of each specimen is measured.
- The swelling thickness of each test piece, Gt expressed as a percentage of its initial thickness, is calculated using the following formula:

$$G_t = \frac{t_2 - t_1}{t_1} \text{ x } 100$$

Sample (Nº)	Thickness before immersion, t_1 (mm)	Thickness after immersion, t_2 (mm)	Thickness swelling, G_t (%)
1	20,19	20,19	0,0
2	19,57	19,58	0,0
3	19,82	19,83	0,1
4	19,92	19,93	0,1
5	20,22	20,24	0,1
6	20,23	20,25	0,1
7	19,75	19,75	0,0
8	20,27	20,28	0,1
		AVERAGE	**0,1**

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Applus+, ensures that this work has been done within the requirements of our Quality System and Sustainability, having fulfilled the contractual and legal regulations.

As part of our improvement program, please let us pass on any comments they consider appropriate, contact the person responsible for signing that letter, or the Director of Quality of Applus+, at: satisfaccion.cliente@applus.com