

## ECO PANEL

**Customer**

Almethalia Company for Green Building  
Abdal-elah Tailkh  
O OBOX 42  
13136 ZARQA  
JORDAN

**Examination**

4 pieces of EPS Light Cement Wall Panel-elements (500\*600\*100mm), which were determined by compressive strength, flexural strength,

**Dates**

11.7-1.9.2019

**Examiner**

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Laboratory Engineer

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Project Engineer

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**Testing methods**

The elements got named 1-4 and were determined by

- Compressive strength (EN 772-1)
- Flexural strength, third point loading (SFS 7001)

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## Results

### Sheet 1: Compressive strength (100 mm cube)

Sample	Compression area (mm <sup>2</sup> )	Breaking load (kN)	Strength (MPa)
1.1	10100	38,0	3,8
1.2	10000	42,9	4,3
2.1	9900	44,5	4,5
2.2	9900	40,0	4,0
3.1	9900	36,6	3,7
3.2	10000	43,7	4,4
4.1	9900	43,8	4,4
4.2	9800	37,9	3,9
<b>* average</b>			<b>4,1</b>

\* Requirement of standard SFS 7001 for lightweight concrete block according to standard EN 771-3 is  $\geq 2 \text{ N/mm}^2$

### Sheet 2: Flexural strength, third point loading (the length of the loading span 400 mm)

Sample	Length	Width	Height	Breaking load (kN)	Strength (MPa)
1	499	102	99	5,798	2,32
2	499	100	99	6,012	2,45
3	499	101	98	6,327	2,61
4	499	100	99	6,407	2,61
				<b>average</b>	<b>2,46</b>



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