



TECHNICKÝ A ZKUŠEBNÍ ÚSTAV STAVEBNÍ PRAHA, s.p.

Technical and Test Institute for Construction Prague

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TEST REPORT

Issued by Testing Laboratory

No. 060-043022

on test of water resistance

Ordering Party: Zhangjiagang Wellyoung Material Co., Ltd.
Address: DongFang Xintiandi D-2501, Zhangjiagang City, Jiangsu Province, China 215600

Company ID: 320582000262065

Manufacturer: Zhangjiagang Wellyoung Material Co., Ltd.
Address: DongFang Xintiandi D-2501, Zhangjiagang City, Jiangsu Province, China 215600

Test sample: WellYoung MgO Board

Order No.: Z060160003

Number of pages of the Test Report incl. title page: 3 Pages of annexes: -

Prepared by:

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test technician - specialist

Approved by:



Ing. Martin Zaděláč

head of the Testing Department

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Brno, on 22.04.2016

Declaration: 1) The test results in this Report relate only to the tested article and they do not substitute any other documents
2) The Test Report must be copied as a whole only otherwise a written consent of the testing laboratory is needed.

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1. Sample data

Evidence Number: VZ060160098
Sample: WellYoung MgO Board
Sample delivery: 10.2.2016

2. Test methods

EN 12467:2012 Fibre-cement flat sheets – Product specification and test methods
5.5.4 Warm water

Deviations from a standard procedure or the use of non-standardized methods: were not applied.

3. Test results

The tests were carried out on: 16.2. - 19.04.2016

The tests were performed by: Ing. Marek Sopko

Data on the person who performed the test, test conditions and equipment used are listed in the Test Minutes. Apparatuses and measuring instruments that used have been certified pursuant to a valid plan of the testing.

3.1 Durability against warm water

Reference specimens					
Sample No.	Width [mm]	Thickness [g]	$F_{max}[N]$	Bending strength $[N/mm^2]$	Average bending strength $[N/mm^2]$
1	69,3	12,3	597	17,1	16,6
2	68,9	12,5	572	16,0	
3	68,7	12,3	607	17,5	
4	69,2	12,6	613	16,9	
5	69,0	12,4	577	16,3	
6	69,1	12,4	547	15,5	
7	69,1	12,4	588	16,6	
8	68,7	12,4	577	16,5	
9	69,1	12,2	565	16,4	
10	68,9	12,2	578	16,8	

Span between supports $l_s = 200$ mm

Specimens after 100 freeze-thaw cycles					
Sample No.	Width [mm]	Thickness [g]	$F_{max}[N]$	Bending strength $[N/mm^2]$	Average bending strength $[N/mm^2]$
1	69,5	12,4	216	6,1	5,3
2	69,0	12,3	234	6,7	
3	69,2	12,4	166	4,7	
4	68,9	12,3	179	5,2	
5	69,2	12,5	181	5,0	
6	69,5	12,3	209	6,0	
7	69,1	12,5	101	2,8	
8	68,9	12,3	203	5,9	
9	69,0	12,2	192	5,6	
10	69,1	12,3	176	5,1	

Span between supports $l_s = 200$ mm



Expression and interpretation of results				
Sample No-	Bending strength [N/mm ²] – reference specimens	Bending strength [N/mm ²] – after freeze-thaw cycling	Ratio MR _i	Estimation R _L
1	17,1	6,1	0,36	0,28
2	16,0	6,7	0,42	
3	17,5	4,7	0,27	
4	16,9	5,2	0,31	
5	16,3	5,0	0,31	
6	15,5	6,0	0,38	
7	16,6	2,8	0,17	
8	16,5	5,9	0,35	
9	16,4	5,6	0,34	
10	16,8	5,1	0,30	
Average value	16,6	5,3	0,32	
Standard deviation	0,6	1,1	0,07	

END OF THE TEST REPORT

