



Gesellschaft für Qualitätssicherung und Materialprüfung mbH

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PRÜF-, ÜBERWACHUNGS- UND
ZERTIFIZIERUNGSSTELLE

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Test Certificate No. 006/08/R/3

Applicant:

J. Coelho da Silva, S.A.
Albergaria
2480-071 Juncal
Portugal

Sample received on: 21.02.2008

Sample taken by: Applicant

Identification: CE DOMUS 14 11 08
JUNCAL-PORTUGAL
18.11.2007

Contents of application:

Roof tile test According to DIN EN 539-2 Freeze
resistance test – part B.

Designation of samples: Flat interlocking tile, fragment colour red, surface natural red

DIN EN 539 – 2 –Freeze resistance test – part B

Sample No.		mass dry g	mass wet before freezing			mass wet after 150 freeze-thaw cycles		
			g	+g	%	g	+g	%
1F/66	TWI	3552	3719	167	4,70	3742	190	5,35
1F/68	HWI	3772	3989	217	5,75	4018	246	6,52
1F/70	MWII	3662	3851	189	5,16	3872	210	5,73
1F/79	HWII	3685	3891	206	5,59	3915	230	6,24
1F/81	MWI	3663	3851	188	5,13	3875	212	5,79
1F/89	TWII	3637	3808	171	4,70	3828	191	5,25
Mean value:					5,17			5,81

During the freeze thaw cycles the 6 tested roof tiles showed no signs of damage.

DIN EN 539 – 2 – Part B - Water absorption of the samples

Manufacture's no. or ID	Sample No.	Mass dry g	Mass wet after 2 days in water g	Water-absorption %
	1F/61	3657	3842	5,06
	1F/62	3582	3758	4,91
	1F/63	3648	3822	4,77
	1F/64	3632	3826	5,34
	1F/65	3639	3828	5,19
	1F/66	3552	3719	4,70
	1F/67	3714	3918	5,49
	1F/68	3772	3989	5,75
	1F/69	3721	3922	5,40
	1F/70	3662	3851	5,16
	1F/71	3595	3773	4,95
	1F/72	3738	3933	5,22
	1F/73	3784	3968	4,86
	1F/74	3587	3787	5,58
	1F/75	3670	3867	5,37
	1F/76	3642	3817	4,81
	1F/77	3690	3871	4,91
	1F/78	3655	3833	4,87
	1F/79	3685	3891	5,59
	1F/80	3668	3859	5,21
	1F/81	3663	3851	5,13
	1F/82	3654	3843	5,17
	1F/83	3547	3724	4,99
	1F/84	3703	3898	5,27
	1F/85	3682	3862	4,89
	1F/86	3683	3875	5,21
	1F/87	3769	3970	5,33
	1F/88	3650	3835	5,07
	1F/89	3637	3808	4,70
	1F/90	3699	3891	5,19
Lowest value (l.v.)				4,70
Average value (a.v.)				5,14
Highest:: (h.v.)				5,75

Overall result

The testing of this roof tiles according to DIN EN 539 – 2 –Freeze resistance test – part B was successful.

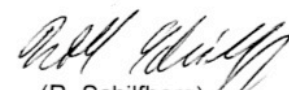
Essen 28.04.2008
Schi/Pc

The Head of the Testing Laboratory


(Dipl.-Ing. F. Rehme)



The Reponsible Official


(R. Schilfberg)

This test report consists of 2 pages.
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