



MAHIDOL UNIVERSITY

TEST CERTIFICATE

Client: Conwood Co., Ltd.  
Test Method: ISO 8336 Soak-Dry Test  
Tested by: Department of Civil and Environmental Engineering, Mahidol University  
25/25 Phuttamonthon 4 Rd., Nakhon Pathom, 73170 Thailand  
Test Date: February 2013  
Specimen Size: 150mm x 450 mm plate  
Test Cycles: 50 Cycles of 18 hours soaking and 6 hours of drying at 60 °C and 20% RH  
Damages after Cycles: No observable crack. Minor surface stains.  
Testing Machine: Instron 1000-kN Capacity Universal Testing Machine using 250 mm simple span  
Flexural Test Results:

Specimen	25 mm-Thick		11 mm-Thick	
	Control	Soak-Dry	Control	Soak-Dry
1	8.81	8.89	7.59	13.11
2	5.71	6.24	4.90	12.49
3	8.65	6.88	7.99	12.61
4	8.64	6.21	7.64	12.01
5	9.06	-	7.58	13.34
6	8.31	7.86	5.78	10.73
7	8.28	10.09	7.23	13.52
8	7.75	9.47	6.15	11.62
9	7.03	8.26	8.35	12.86
10	8.88	10.60	6.96	0.03
Average	8.11	8.28	7.02	12.10
Standard Deviation	1.04	1.62	1.09	1.46
Mean Ratio of Flexural Strength*	1.04		1.76	
Standard Deviation	0.19		0.34	
Lower Estimate of Mean Ratio at 95% Confidence Interval	0.93		1.56	

\* Note: ISO 8336 requires that the ratio of the flexural strength after the test was more than 75% of that before the test

Checked and Approved

Asst. Prof. Dr. Praveen Chompreda