



دفترچه مشخصات فنی و استانداردهای صفحات سمنت برد

SCG SmartBOARD



Test report

Client Name : Siam Fibre Cement Group Co.,Ltd

Client Address : 1 Siam Cement Road, Bangsue, Bangkok,10800

Contact Person : Khun Suradej Sucharitakul

Test Report No. : EIC250600-01

Date Received : October 21, 2025

Date Test : October 21-22, 2025

Date Reported : October 24, 2025

Sample Name : Smartboard 1200X2400X10 mm

Sample Description : -

Test Standard : ISO 8336:2017 Fiber-cement flat sheet – Product specification and test methods

5.6.2 Modulus of rupture – Wet conditioning 24 hours

Test Condition : 1. Immersion specimen in water at temperature 23°C for 24 h.
2. Take the saturated specimen, remove excess water from surface.
3. Arrange the supports to be at the appropriate spacing for the specimen.
4. Measure the thickness of smooth sheets along the imaginary line of breakage at two points.
5. Arrange the specimen with the under face against the supports and the loading bar on the upper face equidistant between and parallel with the supports.
6. Load the specimen such the breakage occurs within 10 s and 30 s. Record the load at break.
7. For square specimen, reassemble the broken pieces and submit the specimen to a second bending test with the line of load supplication at right angles to that of the first test. Record the load at break.

Note: Length of span 200 mm / test specimen 250 mm x 250 mm

Test Equipments : Universal testing machine/ Instron/ 3367 Cal. date: July 23, 2025 Due date: July 22, 2026
Diigital Vernier/ Mitutoyo / CD-12"C Cal. date: February 25, 2025 Due date: February 24, 2026

Test Results : Detailed test results presented on the subsequent pages of this report

Examined by

Mr. Wichai Delogthammakul

Testing Engineer 2

Approved by

Mr. Somjit Putdee

Assistant Manager

Reported by Mr. Siwakorn Boonyang

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Test results

Table 1 Modulus of rupture: 1stBending– Wet condition 24 hours

Properties	Unit	Measurement value									
		(1 st bending : Wet conditioning)									
		No.1	No.2	No.3	No.4	No.5	No.6	No.7	No.8	No.9	No.10
Thickness	mm	9.60	9.63	9.53	9.52	9.60	9.57	9.71	9.60	9.59	9.64
Maximum load	N	1023.8	1023.1	1024.9	1027.4	1004.1	1065.4	1075.2	1061.0	1068.6	1001.2
Length of span	mm	200									
Bending strength (Modulus of rupture)	MPa	13.04	12.94	13.24	13.40	12.82	13.66	13.43	13.54	13.68	13.67
Average bending strength (Modulus of rupture)	MPa	13.24									

Note: The test was conducted at 23±2°C and 50±5 % relative humidity

Table 2 Modulus of rupture: 2nd Bending – Wet condition 24 hours

Properties	Unit	Measurement value									
		(2 st bending : Wet conditioning)									
		No.1	No.2	No.3	No.4	No.5	No.6	No.7	No.8	No.9	No.10
Thickness	mm	9.60	9.63	9.53	9.52	9.60	9.57	9.71	9.60	9.59	9.64
Maximum load	N	612.2	628.6	605.2	558.9	616.4	607.8	574.2	631.7	623.8	538.7
Length of span	mm	200									
Bending strength (Modulus of rupture)	MPa	7.79	7.95	7.82	7.29	7.87	7.79	7.17	8.06	7.98	7.82
Average bending strength (Modulus of rupture)	MPa	7.65									

Note: The test was conducted at 23±2°C and 50±5 % relative humidity

Signature and Stamp of the Testing Center

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Appendix

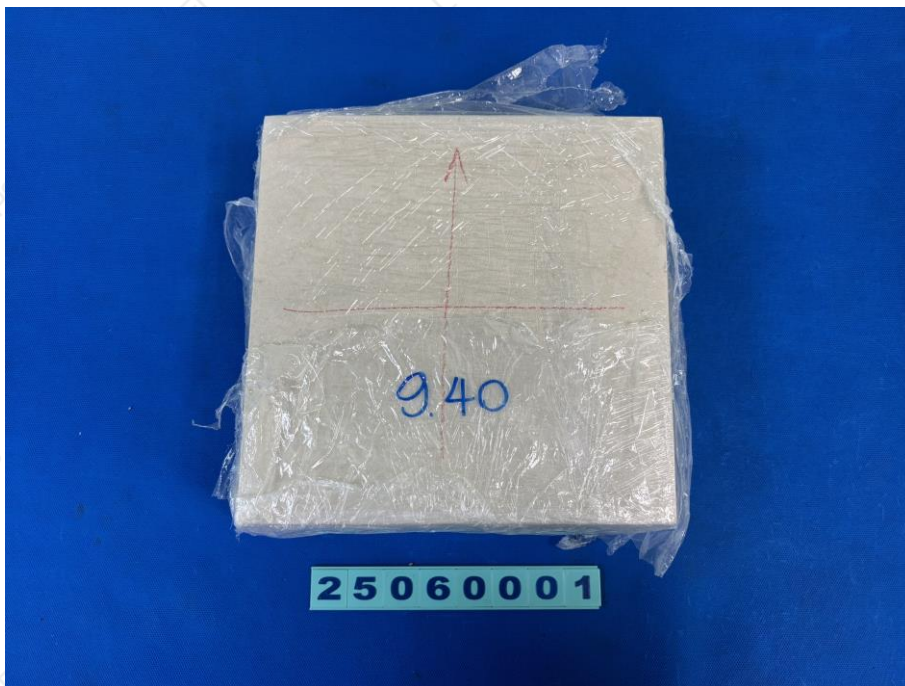


Figure 1 The samples as received.

Signature

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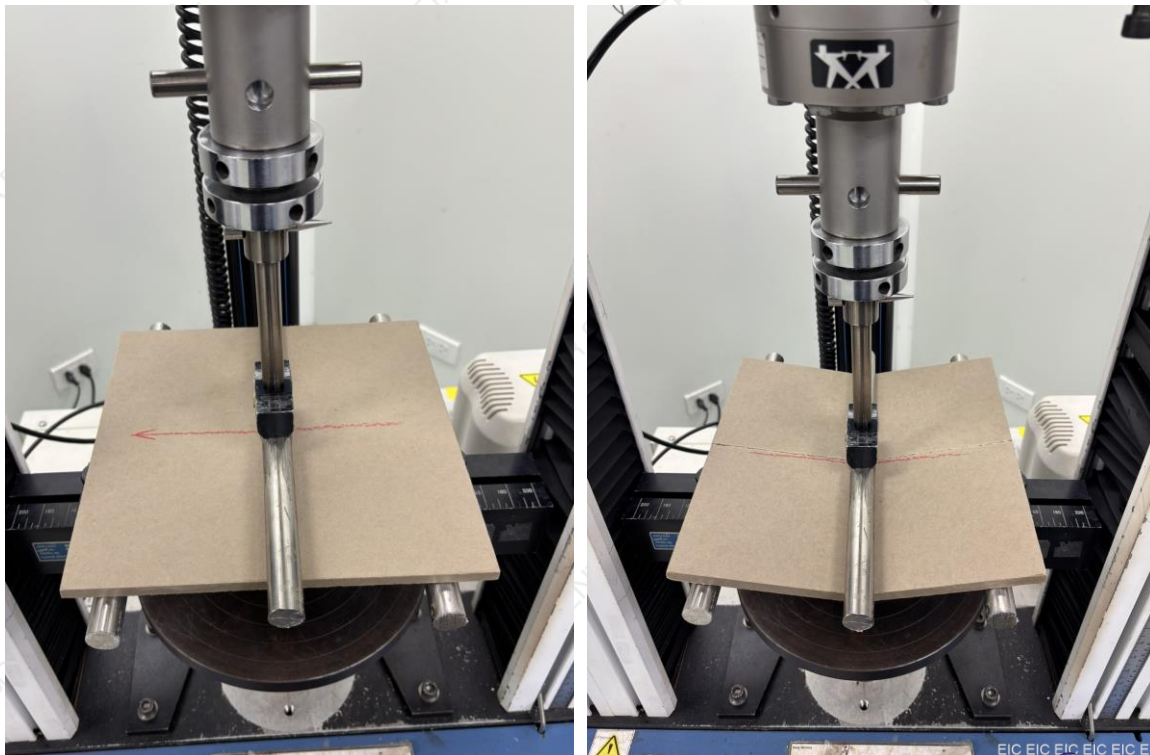
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Appendix



(a) Immersion specimen in water at temperature 23°C for 24 h.



(b) Bending test

Figure 2 On operation process.

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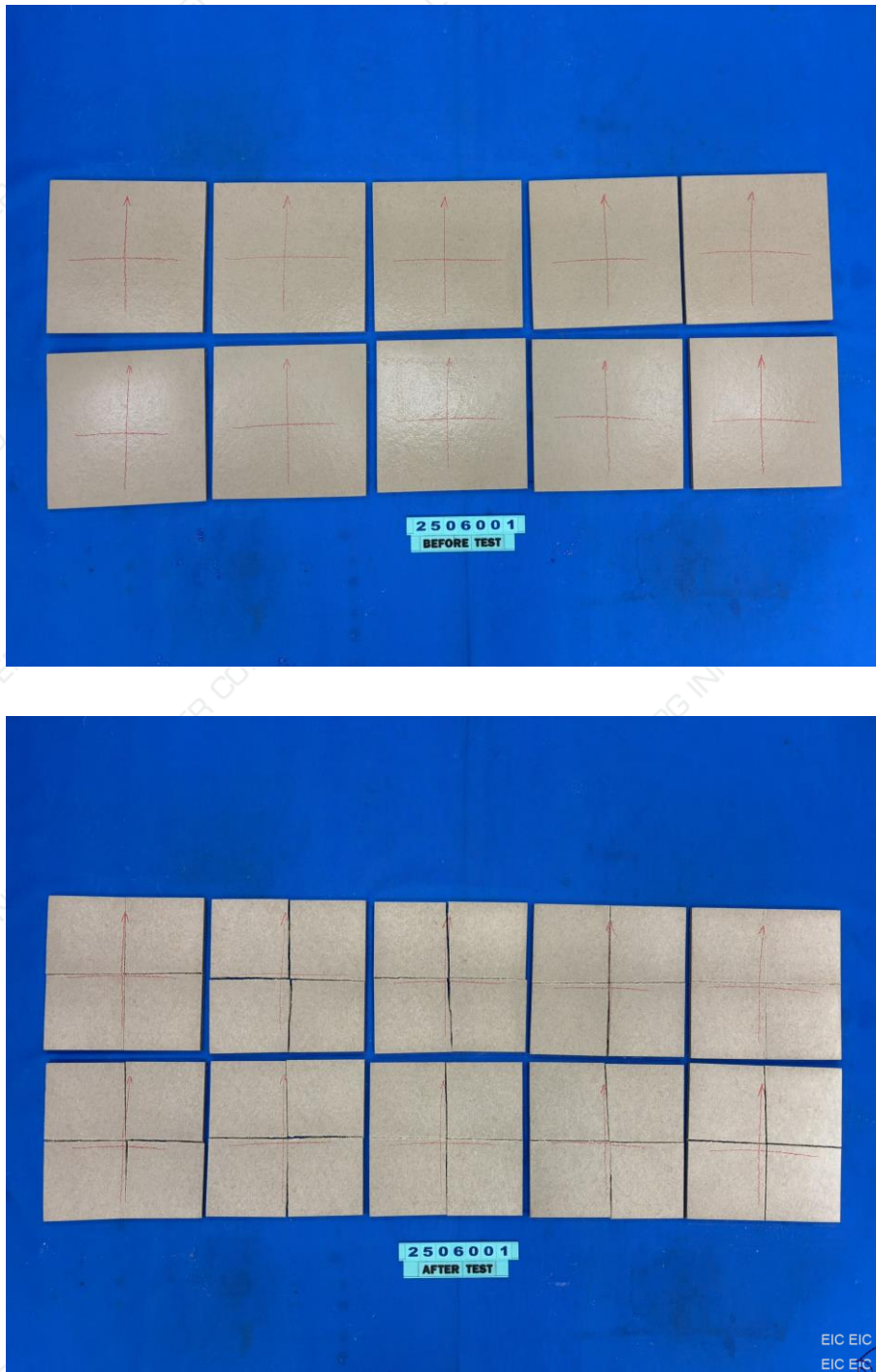


Figure 3 Appearance of test samples.

***** End of Report *****

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