Wind & Rain Test Report

Report No.：100158
Test Date: 07/15/2010
Report Date：07/23/2010
Page：1/29

Company sending the test ：TOPCO SCIENTIFIC (TSC) Co., Ltd.
Project Name ： Wind and Rain Performance Verification Test

Specimen No.：W100158

Specimen Size：W 4100 mm × H 2250 mm × T 172 mm

Specimen Name: LVKE Fireproof Roof Board

The test specimens listed above have been tested by this testing laboratory, and the test report contains 29 pages, which are not valid for separate use.

CHAOLI TECHNOLOGY CORPORATION CHAOLI Testing Laboratory

No. 17-3, Neighborhood 2, Chilan Village, Xinwu Township, Taoyuan County 327
Tel: 886-3-4777448 Fax: 886-3-4777697 Email: cnla@chaoli.com.tw

3 Wind & Rain Test

3-1 Test Equipment

Equipment No.: B02M01CT
Equipment name: Wind & Rain Testing Machine Model: CT-345m

3-2 Test Procedure and Basis

No.	Test Item	Test Content	Test Basis
01	Pre-applied pressure	Positive wind pressure	CNS14280 (Feb. 2006 Version)
02	Air tightness test	75 Pa, Ventilation capacity	CNS13971(Feb. 2006 Version)
03	Water tightness test	Positive wind pressure value（720 Pa） Water3.4L / m^2.min，last 15 minutes	CNS13974(Feb. 2006 Version)
04	Positive wind pressure test	Positive wind pressure（4000Pa）	CNS13972(Feb. 2006 Version)
05	Negative wind pressure test	Negative wind pressure（-4000 Pa）	CNS13972 (Feb. 2006 Version)
06	1.5 times positive wind pressure test	Positive wind pressure 1.5 times（6000 Pa）	CNS13972(Feb. 2006 Version)
06	1.5 times negative wind pressure test	Negative wind pressure1.5 times（-6000 Pa）	CNS13972 (Feb. 2006 Version)

※ This test report, the null part, is not set up the data column, or customers do not have this demand.

4 Test Results

No.	Test Item	Test Results
01	Air tightness performance Test	Pressure difference = 75 Pa standard state of air leakage per unit area= 0.074 $m^3/h \cdot m^2$。
02	Water tightness Performance Test	Pressure difference = 720 Pa,Water spray Rate 3.4 L / m^2·min, last for 15 minutes, and there is no leakage phenomenon in the test body.
03	Anti-wind pressure structural energy test	Pressure difference of positive wind pressure= 4000 Pa Maximum deflection 7.10 ㎜, Maximum deflection rate 1/308。(Measuring point ①-③) note 1
		Pressure difference of negative wind pressure = -4000 Pa Maximum deflection -7.55 ㎜, Maximum deflection rate 1/290。(Measuring point ①-③) note 1

		Pressure difference of 1.5 times positive wind pressure = 6000 Pa Maximum permanent deformation 1.6 ㎜, Maximum permanent deformation rate 0.07%。(② Measuring point) note1
		Pressure difference of 1.5 times negative wind pressure = -6000 Pa Maximum permanent deformation -2.6 ㎜, Maximum permanent deformation rate 0.12%。(② Measuring point) note1

Note 1: Anti-wind pressure modification measuring point distribution detail, refer to page 11.

Statement:

(1) The test report is executed according to customer requirements of the test procedures.
(2) This test report is only valid for the above test pieces. Unless signed and stamped with a complete seal, it will not become the original copy.
(3) This test report shall not be reproduced unless it is agreed in writing by this test laboratory
(4) Except for all copies of this test report are thoroughly made, checked and approved according to the standard specification. Any of the text or content cannot be altered, otherwise it will be invalid.

Representatives of Co-examinations

Reports signed by

Kuo, Fei-Li Hu, Chiueh-Wen illegible
Wang, Yi-Ching

(With seals and signatures)

Testers: Huang Lun-Ti, engineer, and Chung, Cheng-yu, deputy engineer