



Republic of the Philippines  
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June 2, 2014

### CERTIFICATION

This is to certify that the "PalmEco Board" measuring 600mm x 600mm x 9.0mm was brought to the Forest Products Research and Development Institute Fire Testing Laboratory (FPRDI-FTL) by Mr. Mark Eugene Tan of Stantrade Development, Inc. with postal address at #167, 20<sup>th</sup> Avenue, Cubao, Quezon City on May 22, 2014 for fire resistance test. The PalmEco Board was tested in accordance with the specification stipulated under ASTM E119, Fire Tests of Building Construction and Materials.

The "PalmEco Board" tested in accordance with ASTM E119 ACHIEVED A FIRE RESISTANCE RATING OF 120 MINUTES WHEN TESTED WITH FIRE AGAINST INTERIOR SURFACE ONLY.

This certification is issued for whatever legal purpose it may serve.

  
CATALINO L. PABUAYON  
Wood Preservation Specialist  
BPS-MSD, FPRDI



June 2, 2014

**MR. MARK EUGENE TAN**

Stantrade Development Inc.  
#167, 20<sup>th</sup> Avenue, Cubao  
Quezon City, Philippines  
CP#+639167676011

Dear Mr. Tan:

This refers to the "PalmEco Board" measuring 600mm x 600mm x 9.0mm that you brought to the Forest Products Research and Development Institute Fire Testing Laboratory (FPRDI-FTL) for fire resistance test. The PalmEco Board was subjected to fire resistance test following the standard specification stipulated under ASTM E119, Fire Tests of Building Construction and Materials. The board was exposed to horizontal position to flame for a period of 120 minutes and the maximum heat temperature is monitored by the thermocouple attached to a pyrometer. The results of the test are shown in the Table below.

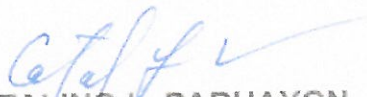
Time (mins)	Temp °C	Observations (PalmEco Board, 600mmx600mmx9.0mm)
5	720	No Change;
10	750	No Change;
15	1050	Surface exposed to flame turned red hot; opposite side turning dark in color;
20	1050	Surface exposed to flame red hot; opposite side now hot;
25	1050	Same as above; opposite side turning dark in color;
30	1050	Same as above; now charring, no flaming/ignition;
35	1050	Same as above;
40	1050	Same as above;
45	1050	Same as above;
50	1050	Same as above;
55	1050	Same as above;
60	1050	Same as above;
65	1050	Same as above;
70	1050	Same as above;
75	1050	Same as above;
80	1050	Same as above;
85	1050	Same as above;
90	1050	Same as above;
95	1050	Same as above;

100	1050	Same as above;
105	1050	Same as above
110	1050	Same as above;
115	1050	Same as above;
120	1050	Same as above.

*Note: After the test, the PalmEco Board developed hairline checks on the surface. However, the checks did not affect the structural integrity of the board. It was also noted that no ignition or flaming occurred during the exposure of the board under the flame.*

**Conclusion:**

The identification of the PalmEco Board and all technical description of the material was provided by Mr. Mark Eugene Tan of Stantrade Development, Inc. The PalmEco Board as tested in accordance with ASTM E119, Fire Tests of Building Construction and Materials achieved a fire resistance rating of 120 minutes when tested with fire against interior surface only.

  
CATALINO L. PABUAYON  
Wood Preservation Specialist  
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