



HIGH PERFORMANCE WOOD COMPOSITES

CTBA
Centre
BP 227
33028 Bordeaux Cedex

PÔLE CONSTRUCTION

**Physics Laboratory
FIRE TEST**

Translation

Test Report No. 02/PC/PHY/229

Client: Silvadec
2 rue des Charmes
44190 Clisson
Cedex France

**Test Report Concerning
Reaction To Fire in accordance with NF P 92 501 (December 1995)**

This report consists of 4 pages
- 4 pages of text including a table of results
- 2 pages of Appendix

The reproduction of this test report is only authorised in its entirety

This test report confirms the characteristics of the samples tested but does not prejudge the characteristics of similar products. The report is not therefore a certificate of requirement in accordance with the law of 3 June 1994,

The sample is kept by the laboratory for 1 month after the publication of the test report.

CTBA
Silvadec
Bordeaux 21.10.02
Test report No. 02/PC/PHY/229

**Test Report Concerning
Reaction To Fire in accordance with NF P 92 501 (December**

1. Sample Description

Table No 1: Characteristics of samples tested.

Sample References	549 A and B
Client	Silvadec
Commercial Name	
Product description	Wood composite material – 65% wood and polyethylene
Sample taken by	The Client
Panels received	10.09.2002

This report can only be reproduced in its entirety.

CTBA
Silvadec
Bordeaux 21.10.02
Test report No. 02/PC/PHY/229

2. Test Principles

The test consists of subjecting the test-tubes to radiant heat in order to

- eventually set alight the gases released
- observe the spread of combustion

The source of radiant heat is a radiator with a nominal power of 500 watts, the surface of which is a vitreous silica disc (100 ± 5) mm in diameter.

3. Test Results

3.1 Length of flames according to the time of ignition

The tables in the annex give details of the length of flames observed during the tests for each test-tube.

The times are given in minutes, seconds, the lengths in centimetres.

As usual, the length of the flames are evaluated as follows:

- for the bottom side the distance between the top limit of the flat part of the radiant surface and the first reference mark on the support not reached by the flame
- for the top side the distance between the reference mark zero and the first reference mark on the support not reached by the flame
 - **ti1** and **ti2** are the times needed for ignition (between the start of the test and effective ignition)
 - **td1** and **td2** are the times at the end of which the flame exceeds the top edge of the flat part of the radiant surface or exceeds the reference mark zero for the top side.
 - **e1** and **e2** are the times that the flames no longer go over the limit or the reference mark 0, that is - the time for extinction.

CTBA
Silvadec
Bordeaux 21.10.02
Test report No. 02/PC/PHY/229

3.2 Test Results

Reference	Thickness Measured (mm)	Density (kg/m ³)	Index q	Indicative classification obtained
543A	15.75	1188	31.94	M3
543 B	15.70	1190	35.33	M3

Bordeaux 21/10/2002

Technician in charge of tests
C. Houser

Laboratory Manager
JM Gaillard