

# New York Product Testing & Services Inc.



"Success Through Testing"

<b>DATE:</b>	April 4, 2003
<b>LAB. No.:</b>	03-107673A
<b>CLIENT:</b>	Fairmount Distributors Inc. 204-212 Fairmount Avenue Jersey City, NJ 07306
<b>ATTENTION:</b>	Melvin Lindner, P.E.
<b>CLIENT'S ORDER NO.:</b>	Verbal
<b>MATERIAL:</b>	14mm thick "Dragon Board"
<b>SUBMITTED FOR:</b>	Fire Resistance (using ASTM E119 as a reference*)

## 1.0 PROCEDURE:

A 4'x 8' wall section was constructed using 2x4 steel studs spaced 16" apart. 14mm Dragonboard was mounted on both sides with R13 insulation placed between. A torch was set-up and thermocouples were situated at the flame, flameside perimeter, backside hotspot, and backside perimeter. The test was terminated when the flame burned through the flameside Dragonboard. Thermocouple readings were taken at 15 minute intervals.

## 2.0 RESULTS:

MINUTES	FLAME (deg.F)	FLAMESIDE PERIMETER (deg. F)	BACKSIDE HOTSPOT (deg. F)	BACKSIDE PERIMETER (deg. F)
0	----	65	65	65
15	1378	1291	82	70
30	1575	1413	121	92
45	1661	1629	153	116
60	1680	1671	160	125
75	1703	1689	168	128
90	1725	1705	173	131
105	1739	1730	178	133
120	1768	1785	182	137
135	1801	1798	189	139
150	1859	1853	200	145
165	1880	1876	225	153
180	1885	1881	255	164

\* ASTM E119 test procedure was utilized for reference purposes only. The thermocouples utilized in this test procedure are fewer in number than E119 requires, however, the temp. recording locations were situated at locations comparable to E119 at the most severe locations. Lastly, the data gathered in this test procedure are for performance characteristics for interior building panels, therefore the water hose stream test was not performed.

## 3.0 CERTIFICATION AND SIGNATURES:

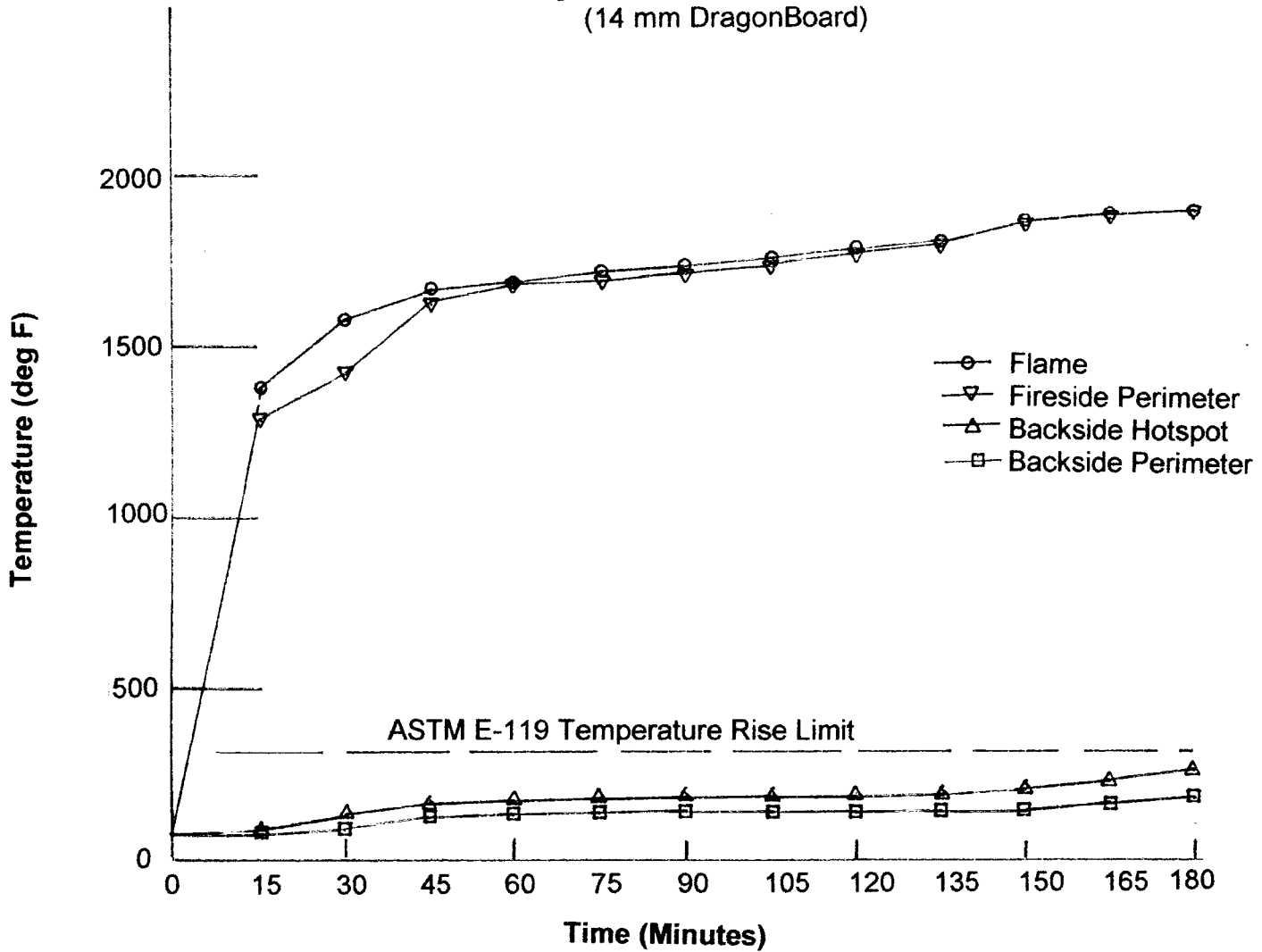
We certify that this report is a true report of results obtained from tests of this material.

New York Product Testing & Services, Inc.

Al Barbera, Project Engineer

# Fire Exposure Temperature Curve

(14 mm DragonBoard)



# New York Product Testing & Services Inc.



"Success Through Testing"

<b>DATE:</b>	April 1, 2003
<b>LAB. No.:</b>	03-107673
<b>CLIENT:</b>	Fairmount Distributors Inc. 204-212 Fairmount Avenue Jersey City, NJ 07306
<b>ATTENTION:</b>	Melvin Lindner, P.E.
<b>CLIENT'S ORDER NO.:</b>	Verbal
<b>MATERIAL:</b>	10mm thick "Dragon Board"
<b>SUBMITTED FOR:</b>	Fire Resistance (using ASTM E119 as a reference*)

## 1.0 PROCEDURE:

A 4' x 8' wall section was constructed using 2x4 steel studs spaced 16" apart. 10mm Dragonboard was mounted on both sides with R13 insulation placed between. A torch was set-up and thermocouples were situated at the flame, flameside perimeter, backside hotspot, and backside perimeter. The test was terminated when the flame burned through the frontside Dragonboard. Thermocouple readings were taken at 15 minute intervals.

## 2.0 RESULTS:

MINUTES	FLAME (deg. F)	FRONTSIDE PERIMETER (deg. F)	BACKSIDE HOTSPOT (deg. F)	BACKSIDE PERIMETER (deg. F)
0	----	64	64	64
15	1380	1290	96	77
30	1578	1412	143	108
45	1660	1628	179	136
60	1682	1669	188	147
75	1700	1688	191	151
90	1725	1708	200	154
105	1740	1731	209	156
120	1770	1786	214	161
135	1802	1797	222	162
150	1860	1852	259	171

\* ASTM E119 test procedure was utilized for reference purposes only. The thermocouples utilized in this procedure are fewer in number than E119 requires, however, the temp. recording locations were situated at locations comparable to E119 at the most severe locations. Lastly, the test data gathered in this test procedure are for performance characteristics for interior building panels, therefore, the water hose stream test was not performed.

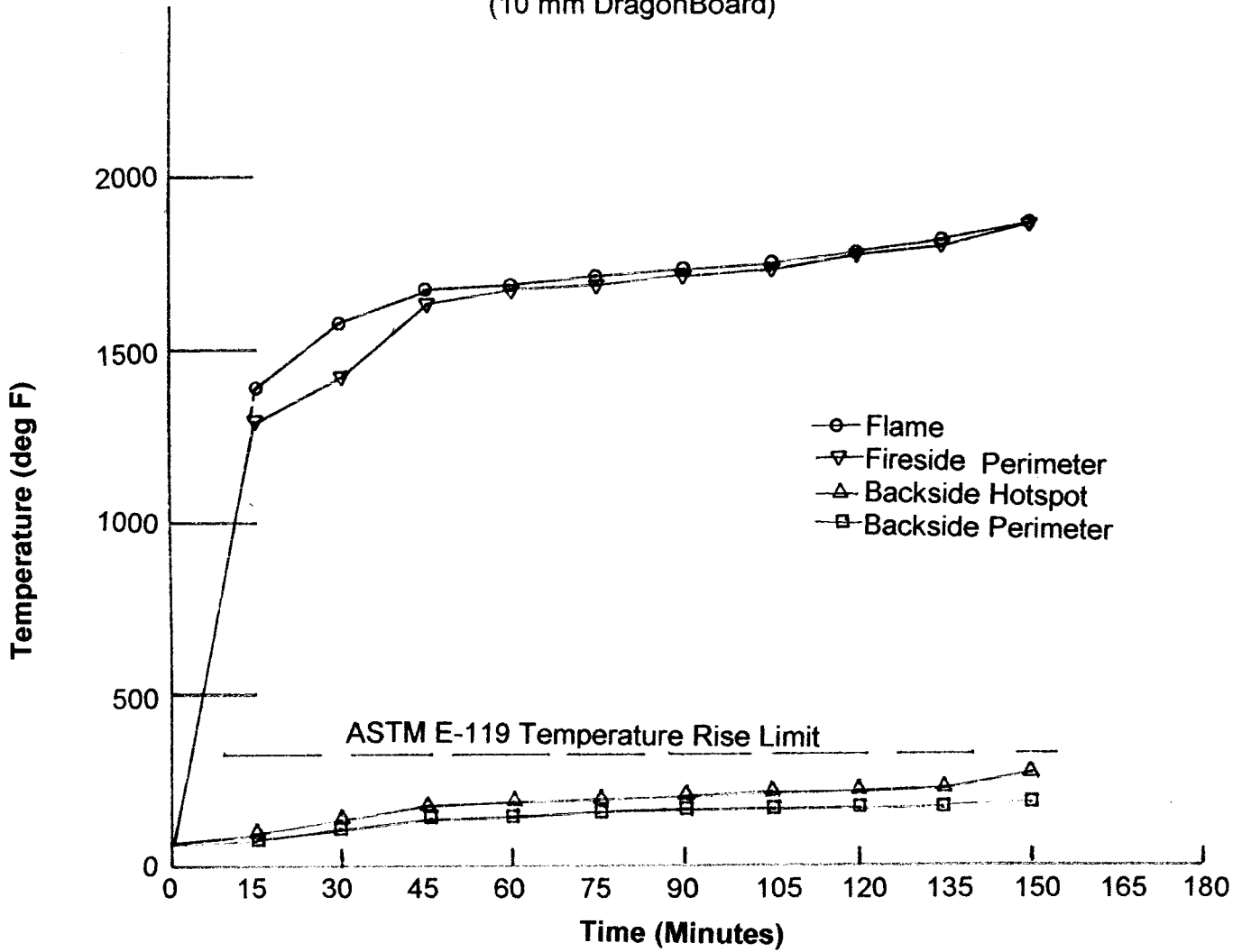
## 3.0 CERTIFICATION AND SIGNATURES:

We certify that this report is a true report of results obtained from tests of this material.

New York Product Testing & Services, Inc.

Al Barbera, Project Engineer

# Fire Exposure Temperature Curve (10 mm DragonBoard)



**CONSTRUCTION SCIENCE RESEARCH AND  
CERTIFICATION CENTER**

**SHANGHAI, CHINA**

**Fire Resistance Test Report  
(Application No.: U01-146)  
(Report No.: NFD144)**

**Sample Description : Non-Combustible Composite Panel  
Standard:**

**Manufacturer: Guangdong Panyu New Green Fire-Preventing Decorating  
Materials Co. Ltd.**

**Date Of Report: 28-12-2001**

**Test Unit**

**(SEAL)**

**Fire Resistance Test Report**

(Application No: U01-146, Report No. NH0144)

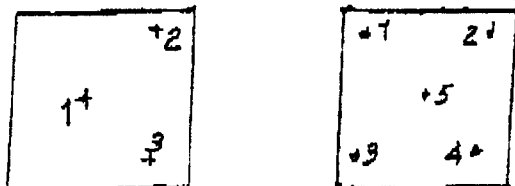
Guangdong Panyu New Green Fire Preventing Decorating Materials Co. Ltd. Has retained the services of Construction Science Research and Certification Center, of Shanghai, China to perform a fire resistance test on its product using an approved fire simulation test procedure. The test report follows:

**1 Test material – non-combustible composite panel  
(dimensions 1100x1100x10 mm)**

The test samples consisted of non-combustible panels mounted on lightweight metal studs Type 104. Ten test samples were run as well as mineral fabric Type 751. Sample dimensions 1100x1100x9.5 mm, total stack height of 95 mm.

**2 Test method – small sample fire endurance system (surface for direct exposure is 1000x1000 mm) using GB9978 test procedure “Construction Structure Fire Endurance Method “ was used to test the fire endurance of the samples.**

**3 Test sample configuration and thermocouple locations**



**4 Test procedure and conclusion – Following normal fire pattern temperature increase gradient-**

T (start) ambient 5.6C

T (140 min) backside 111C (ave)

Hotspot temp 138C

Sample intact but distorted

Test Result – non-combustible panel (1000x1000x95 mm)

Test sample duration 140 min (2.33 hrs)

Approved

Reviewed

(signed)

Test Technician

(signed)

(signed)

SEAL

Construction Science Research and Certification Center  
Shanghai, China 28 Dec. 2001

MP  
度 (°C)

### NH0144 耐火性能升温曲线

