September 14, 2004

Jerry Lin
DragonBoard U.S.
48 Hester Street
New York, NY 10002

Re: Project No. 16866-120568A
ASTM E119-00a Fire Test of Building Construction and Materials
Non-loadbearing 14-mm Panel Assembly

Dear Mr. Lin:

This letter will serve to summarize the results from today's fire test of your Dragonboard panel system.

The test specimen identification is as provided by the client and Omega Point Laboratories, Inc. accepts no responsibility for any inaccuracies therein. Omega Point did not select the specimen and has not verified the composition, manufacturing techniques or quality assurance procedures.

The full-scale (10' x 10') wall assembly was constructed of 3-5/8", 22 GA galvanized steel studs spaced 16" o.c. and attached to 20 GA galvanized steel track using 7/16" long pan framing screws at each stud location. Double studs occurred at each vertical joint location, and short sections of 20 GA track were positioned behind horizontal board joints. Each stud was covered with a 2" – 3" wide piece of DragonBoard prior to the addition of a single layer of 14-mm DragonBoard to each surface of the wall. The board was fastened to the studs using No. 6 x 1-5/8" self-drilling bugle head drywall screws spaced 18" o.c. in the field and 12" o.c. around the perimeter. All screws were located 3/4" from board edges. The board joints were staggered on opposite sides of the wall, and had 1/8" gaps between adjacent boards. The panel joints then received a bead of 3M Fire Barrier IC 15 WB sealant, and the screw heads on the exposed side were also covered. The stud cavities were insulated with 4" thick, 4 pcf mineral wool insulation (Rock Wool), friction-fitted into the stud cavities.

See the attached drawings for construction details.

After allowing the 3M sealant to dry overnight, the unexposed face was instrumented with thermocouples in accordance with the standard and the wall was mounted against the vertical furnace. The furnace was fired at 11:45 a.m. on September 2, 2004. The lab ambient temperature was 81°F and the relative humidity was 75% at the start of the test.

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No. 0689-01

Below are the observations made during the test:

(Extraneous detail data has been removed.)

No hose stream test was performed because it had already passed on a prior test of the same construction (Project No. 16866-20568)

Thermocouple #10 on the unexposed face exceeded the maximum allowable limit (405°F) at 2 hours, 27 minutes. Based on this test, DragonBoard U.S. 14-mm thick panel system as described in this letter achieved a 147-minute rating in accordance with ASTM E119 as a restrained, non-loadbearing wall.

If you have any comments or questions concerning this project, please call me at your convenience.

Sincerely,

Michael E. Dey
Manager, Fire Resistance
Testing Services

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