

## Structural Insulated Panel Fire Assemblies Bulletin

EPS has been approved as a one hour fire test assembly with UL (Underwriters Laboratories). Residential buildings typically require a minimum of a fifteen minute fire test.

EPS can meet this minimum requirement in two ways!

1. Convert the interior OSB thickness from a standard 7/16" to 5/8" thick and that will meet the **15 minute fire rating**. This is not a standard feature and may require a small premium in price.
2. Add a field applied 5/8" type C gypsum over the joints with either dimensional lumber or engineered wood, then set the panel at 4' OC spacing will meet a **one hour fire rating**.

Local jurisdictions may vary and should contact local authorities on requirements in your area as EPS is not responsible for fire and safety reviews.

### Fire resistive Assemblies

|      |       |                                  |
|------|-------|----------------------------------|
| ASTM | E-119 | = 1 hour                         |
| ASTM | E-84  | = 15 minutes                     |
| UL   | 1256  | = 15 minutes                     |
| UBC  | 26-3  | = 15 minutes                     |
| UL   | U532  | = 1 hour (BXUV.U532 – ANS/UL263) |

(UL file No. R18708 Structural Insulated Panels)

Flame spread rating – max 20

Smoke developed rating – max 300

Density – 1 lb EPS foam

Classification marking – foam plastic category UL expanded polystyrene

Outer skin 7/16" OSB Inner skin 7/16: OSB

Adhesive: Rohm & Haas MOR-AD- M 640

Size: max width 48", thickness minimum 6 3/8



*A load bearing wall assembly consisting of a base wall construction of 5/8 inch OSB facing over a 4 5/8 inch thick core of EPS foam and structurally supported with SPF wood studs located at each joint, assembled and tested as described herein, successfully met the conditions of acceptance as outlined in **ASTM Method E119-98 FIRE TESTS OF BUILDING CONSTRUCTION AND MATERIALS** for a loadbearing fire endurance rating of 19 minutes.*

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The description of the test specimen and the results presented herein are true and correct to the best of our knowledge and within the bounds of normal engineering methods and techniques.

Tim M. Mattox, Fire Test Engineer

February 23, 2000  
Date

Reviewed and approved:

William E. Fitch, P.E. No. 55296

Date: February 23, 2000

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File R18708

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FOLLOW-UP SERVICE PROCEDURE  
(TYPE R)

BUILDING UNITS  
(BZXX)

Manufacturer: SEE ADDENDUM FOR MANUFACTURING LOCATIONS

Applicant: STRUCTURAL INSULATED PANEL ASSOCIATION  
(100534-688) SUITE D-404  
6659 KIMBALL DR  
PO BOX 1699  
GIG HARBOR WA 98335

Classified Company: SAME AS APPLICANT  
(100534-688)

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Underwriters Laboratories Inc.

Stephen Hewson  
Senior Vice President  
Global Follow-Up Service Operations

William R. Carney  
Director  
North American Certification Program

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ADDENDUM TO PAGE 1  
AUTHORIZATION PAGE

ISSUED: 2001-09-12  
REVISED: 2009-11-11

LOCATION

(100517-844) ENERGY PANEL STRUCTURES INC  
102 E INDUSTRIAL PR  
GRAETTINGER IA 51342-7751

(124027-001) FISCHERSIPS LLC  
1843 NORTHWESTERN PKY  
LOUISVILLE KY 40203

(245433-001) PORTER CORP  
4240 N 136TH AVE  
HOLLAND MI 49424