9/28/10

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

ABSTRACT

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.*

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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the standard in safety

Underwriters Laboratories

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FOLLOW-UP SERVICE PROCEDURE
(TYPE R)

BUILDING UNITS
(BZXX)

Manufacturer: SEE ADDENDUM FOR MANUFACTURING LOCATIONS

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

Classified Company: (100534-688)
SAME AS APPLICANT

This Procedure authorizes the above manufacturer to use the marking specified by Underwriters Laboratories Inc.(UL), or any authorized licensee of UL, only on products covered by this Procedure, in accordance with the applicable UL Services Agreement.

The prescribed Mark or Marking shall be used only at the above manufacturing location on such products which comply with this Procedure and any other applicable requirements.

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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

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