**Shield Industries, Inc.**

**W-13**

**2 HOUR FIRE ASSEMBLY - WOOD FRAMED WALL**

**W/ 7/16" EXTERIOR O.S.B. SHEATHING**

**LOAD BEARING WALL**

**TYPICAL FRAME WALL ASSEMBLY:** S.P.F. STUDS OR BETTER AT 16" O.C., WITH FIBERGLASS INSULATION.

2-LAYERS, TYPE X, 5/8" GYPSUM WALL BOARD (INTERIOR SIDE) W/ 7/16" O.S.B. EXTERIOR SHEATHING (EXTERIOR SIDE). EXTERIOR O.S.B. TREATED WITH 30-MIL THICKNESS (DRY) OF ForceField Fireguard E-84 TO EXTERIOR EXPOSED SIDE.

**INTERIOR SIDE**

- 2-LAYERS, 5/8" TYPE X GYPSUM WALL BOARD OR EQUAL
- TAPE AND FINISHED

- 2x6 WD STUDS, S.P.F. OR BETTER
- Ø16" O.C. TYP. OR 12" O.C.

- 6-MIL POLY VAPOR BARRIER

- 5-1/2" BATT INSULATION

**EXTERIOR SIDE**

- 7/16" EXTERIOR O.S.B. SHEATHING
- OR BETTER
- 30-MIL THICKNESS (DRY) OF FFG E-84 INTUMESCENT COATING
- WEATHER-RESISTANT BARRIER BUILDING WRAP
- VINYL SIDING

<table>
<thead>
<tr>
<th>FIRE TEST ENDURANCE RATING</th>
<th>2 HOUR</th>
</tr>
</thead>
<tbody>
<tr>
<td>STANDARD TESTED TO:</td>
<td>ASTM E-119-10b, UL 263, NFPA 251, ULC-S-101</td>
</tr>
<tr>
<td>FIRE TESTED LABORATORY:</td>
<td>GUARDIAN FIRE TESTING LABORATORIES</td>
</tr>
<tr>
<td>REPORT NO:</td>
<td>GL 115511</td>
</tr>
<tr>
<td>PRODUCT:</td>
<td>ForceField FireGuard E-84 INTUMESCENT COATING (FFG E-84)</td>
</tr>
<tr>
<td>MANUFACTURER:</td>
<td>SHIELD INDUSTRIES, INC.</td>
</tr>
</tbody>
</table>

* SEE MANUFACTURER APPLICATION INSTRUCTIONS AND SPECIFICATIONS FOR SURFACE PREPARATION AND APPLICATION PROCESS

**Guaranteed by:**

[Signature]

**Date:** 10/14/14