

**Chicago Flameproof and Wood Specialties Corp., dba Flameproof Companies**

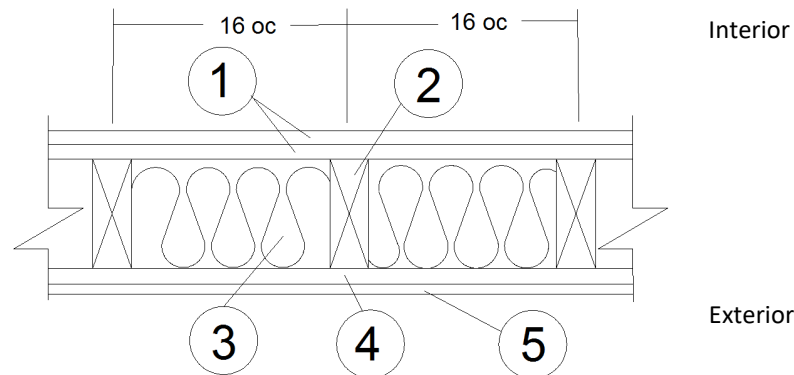
**Design No. CF/WPPS 120-02**

**MagTech™ Fire Retardant Sheathing**

**ASTM E119, UL 263**

**Rating: 2 Hour From Interior, 1 Hour From Exterior**

**Load Bearing 100% Design Load (2015 NDS)**



**1. GYPSUM BOARD (Interior):** Two layers Type C Gypsum Board as listed below (1A through 1F) complying with ASTM C1396, min. 5/8 in. thick, 4 ft. wide applied vertically, fastened to framing. Two layers required for 2 hour rating from the interior. One layer required for 1 hour rating from the exterior. Face layer joints staggered with base layer. All joints covered with paper tape and joint compound.

- A. American Gypsum Firebloc® Type C
- B. CertainTeed Saint-Gobain Type C
- C. Georgia-Pacific Gypsum Fireguard C®
- D. National Gypsum Gold Bond® Fire-Shield C™
- E. Panel Rey® Fire Rey Type C
- F. USG Sheetrock® Firecode® C

**FASTENERS (Not Shown):**

- A. FACE LAYER (Required for 2 Hour Rating from Interior) – Min. #6 × 2 in. long Type S or W screws spaced max. 8 in. oc and heads covered with joint compound.
- B. BASE LAYER (Required for 2 Hour Rating from Interior and 1 Hour from Exterior) – Min. #6 × 1-5/8 in. long Type S or W screws, spaced max. 6 in. oc.

**2. FRAMING:** Min. 2×4 in. nominal wood studs spaced 16 in. oc, or 2×6 in. nominal wood studs spaced 24 in. oc, double top plates and single bottom plate fastened together with 16d common nails (3-1/2 in. × 0.162 in.), 16d box nails (3-1/2 in. × 0.135 in.), or 12d ring nails (3-1/4 in. × 0.135 in.).

**3. INSULATION:** Faced or unfaced mineral fiber insulation min. 3-1/2 in. thick (2.8 pcf, nominal) or fiberglass batt insulation min. 3-1/2 in. thick R-13 friction fit between the studs. If 2×6 in. nominal wood studs are used, fiberglass batt insulation shall be min. 5-1/2 in. thick.

**4. SHEATHING (Exterior):**

- A. CERTIFIED PRODUCT – MagTech™ fire retardant sheathing for a fire-resistive wood-frame wall assembly, min. 7/16 in. thick wood structural sheathing laminated with min. 3mm thick fiber reinforced magnesium oxide board on each side.
- B. INSTALLATION – MagTech™ is applied vertically over the specified framing with min. 2-3/8 in. long, 0.113 in. diameter nails, spaced max. 8 in. oc around the perimeter and max. 12 in. oc in the field. Horizontal joints must be blocked.



C. CERTIFIED MANUFACTURER – Chicago  
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**5. EXTERIOR FACINGS (Optional for 2 Hour Rating  
from Interior):** Materials installed in accordance  
with manufacturer's installation instructions:

- Min. 5/16 in. thickness fiber-cement siding  
complying with ASTM C1186, installed in  
accordance with approved manufacturer's  
instructions

- Brick min. thickness of 2-5/8 in. complying with  
ASTM C216
- Cement plaster (stucco) min. thickness 3/4 in.  
on metal lath according to ASTM C926
- Gypsum Board Type X, complying with ASTM  
C1396, min 5/8 in. thick, 4 ft. wide fastened to  
the framing. May be installed on either side of  
(5). When used, fasteners for other facings must  
be adjusted for the additional thickness.

*Consult the listing report on the Directory of Building Products (<https://bpdirectory.intertek.com>) for the edition  
of the standard(s) evaluated*