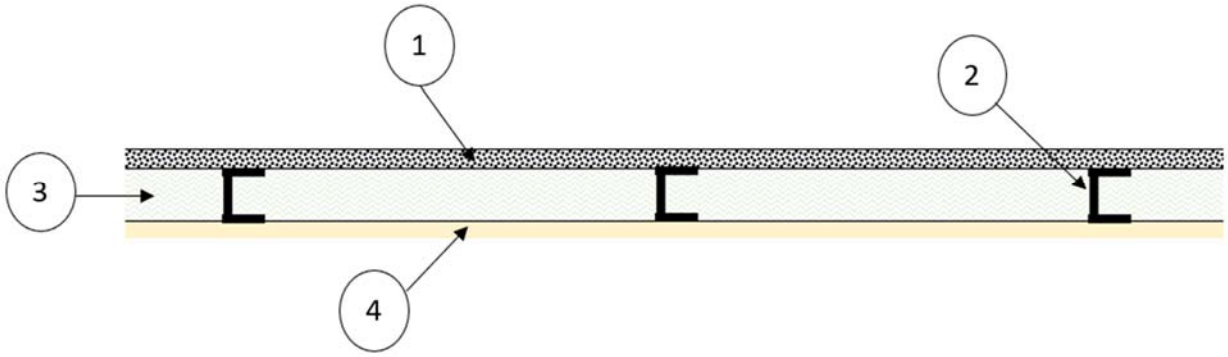
General Coatings Manufacturing Corp.
Design No. GCM/FI 30-02
Spray Polyurethane Foam
UPC 2.0 HFO/Ultra-Thane 205 HFO
NFPA 285
Meets Requirements



1. **GYPSUM BOARD:** Install min. 5/8 in. nominal thickness Type X gypsum board oriented with long dimension perpendicular to vertical framing (Item 2) and offset vertical joints. Attach to framing (Item 2) using # 6 x 1-1/4 in. long bugle-head screws spaced vertically 12 in. on center (oc) and 3/8 in. to 5/8 in. from edges of boards.

2. **FRAMING:** Install max. 6 in. deep and min. 3-5/8 in. deep, 20 GA galvanized steel studs and track with studs spaced max. 24 in. oc. Brace with cold-rolled channel (CRC) every 4 ft vertically. Secure steel studs horizontally to top and bottom tracks using #2- 8 x ½ in. self-drill zinc plated screws. In the stud cavity at the floor line, apply a min. 4 in. thick, 4 pcf mineral wool as fireblocking material.

3. **CERTIFIED MANUFACTURER:** General Coatings Manufacturing Corp.

   CERTIFIED PRODUCT: Spray Polyurethane Foam

   CERTIFIED MODEL: UPC 2.0 HFO/Ultra-Thane 205 HFO

   Spray-apply the insulation to partially fill or to fully fill the steel stud cavity.

4. **EXTERIOR SHEATHING:** Install ASTM C1177 compliant, min. 5/8 in. nominal thickness, Type X Glass Mat Gypsum Sheathing oriented with long dimension perpendicular to vertical framing (Item 2) and offset vertical joints. Attach to framing (Item 2) using #6 x 1-1/4 in. long bugle-head screws spaced vertically 12 in. oc and 3/8-in. to 5/8-in. from edges of boards.

5. **EXTERIOR CLADDING (Optional, Not Shown):** Apply any of the following non-combustible claddings to the exterior:

   A. BRICK AND BRICK TIES/ANCHORS – Install nominal 4 in. thick clay brick or veneer with max. 2 in. air gap, with brick ties/anchors spaced max. 16 in oc vertically and max. 24 in. oc horizontally (aligned with framing (Item 2)).

B. STUCCO – Install min. 3/4 in. thick exterior cement plaster and lath.

C. NATURAL STONE (GRANITE, LIMESTONE, MARBLE, SANDSTONE) – Install min. 2 in. thick natural stone using an approved installation technique with a max. 2 in. air gap.

D. ARTIFICIAL CAST STONE – Install min. 1-1/2 in. thick artificial cast stone using an approved installation technique with a max. 2 in. air gap.

E. TERRA COTTA – Install min. 1-1/4 in. thick terra cotta cladding using an approved installation technique with a max. 2 in. air gap.

F. CONCRETE – Install min. 2 in. thick concrete with a max. 2 in. air gap.

G. GLASS FIBER-REINFORCED CONCRETE PANELS – Install min. 1/4 in. thick panels per manufacturer's instructions.

H. CMU BLOCKS – Install min. 4 in. thick blocks with max. 2 in. air gap.

I. SHEET METAL – Install sheet metal cladding including steel, aluminum, copper, or zinc.

6. **WATER-RESISTANT BARRIER (Optional, Not Shown):** Install a WRB under ASTM E136 compliant, non-combustible, min. 2 in. thick, min. 4 pcf mineral wool, with any of the approved exterior claddings (Item 5).

   Alternatively, install a WRB that complies with the following performance and installation requirements:

   - ASTM E1354 Performance:
     Peak heat release rate less than 150 kW/m^2, and effective heat of combustion less than 18 MJ/kg when tested in the horizontal orientation at an incident radiant heat flux of 50 kW/m^2

   - ASTM E84 or UL 723 Performance:
     Flame Spread Index not to exceed 25, and Smoke Developed Index not to exceed 450

   - When used in combination with stucco (Item 5B), use min. 7/8 in. thick exterior cement plaster and lath

   - When used in combination with sheet metal (Item 5I), use min. 0.0149 in. thick steel only.

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