Application Methods

A. LAMINATION

Masonry or monolithic concrete shall be above grade; dry; and free of dust, loose particles, oil, grease or other foreign material.

Use joint compound as adhesive. Mix to a consistency thick enough to allow a 2 in. (50.8 mm) daub to stick to the underside of a broad knife held parallel to the floor.

Apply 2 in. (50.8 mm) to 2-1/2 in. (63.6 mm) diameter daubs of adhesive 1/2 in. (12.7 mm) thick, 12 in. (305 mm) o.c. in both directions to the masonry wall or continuous beads spaced not more than 1/2 in. (12.7 mm). Beads shall not be less than 3/8 in. (9.5 mm) in diameter. The adhesive layout must provide for a row of daubs located a maximum of 2 in. (50.8 mm) from board ends, and carefully center daubs or beads on vertical joints. Do not apply more adhesive to the wall than what will be covered with board in 15 minutes. Approximate coverage for joint compound (powder) used as an adhesive is 30-35 lbs./1,000 sq. ft.

Cut gypsum board to allow for 1/4 in. (6.4 mm) minimum clearance between board and floor to prevent potential wicking.
Gypsum Board Over Masonry Or Monolithic Concrete

Install gypsum board by hand, pressing each board tight to the wall and ensuring that all daubs are in positive contact with the board. Butt boards to each previously positioned board to ensure flush joints.

If necessary to hold boards straight, plumb and in proper alignment, drive masonry nails through small wood blocks and into masonry at high points only.

Fill all holes and treat joints with tape and joint compound.

B. WOOD OR STEEL FURRING

Attach steel or wood furring members to masonry walls, either vertically or horizontally, a maximum of 24 in. (610 mm) o.c. with masonry fasteners spaced a maximum of 24 in. (610 mm) o.c. Where wood furring is used over solid masonry surfaces, the wood furring shall not be less than 3/4 in. (19.1 mm) x 1-1/2 in. (38.1 mm) actual size.

Attach single layer 1/2 in. (12.7 mm) or 5/8 in. (15.9 mm) gypsum board, either vertically or horizontally, to steel or wood furring with screws spaced a maximum of 12 in. (305 mm) o.c or with nails spaced 8 in. (203 mm) o.c. for wood furring. Gypsum board joints that are parallel to furring must abut over furring channels. The attachment surface of abutting gypsum board edges or ends shall not be less than 1-1/2 in. (38.1 mm) wide for wood furring members and 1-1/4 in. (31.8 mm) wide for steel furring.

Finish all joints between gypsum panel products as described in GA-214, Recommended Levels of Finish for Gypsum Board, Glass Mat and Fiber-Reinforced Gypsum Panels.

C. Z-FURRING AND RIGID INSULATION

Application Of Z-Furring Channel

Use Z-Furring Channel to secure rigid insulation and gypsum board to masonry or monolithic concrete walls. The insulation thickness – 1 in. (25.4 mm), 1-1/2 in. (38.1 mm) or 2 in. (50.8 mm) – determines the depth of the Z-Furring web. Apply the channel vertically and fasten to the masonry wall through the short, 3/4 in. (19.1 mm) flange with suitable masonry fasteners a maximum of 24 in. (610 mm) o.c. Install wood furring strips (nominal 2 in. (50.8 mm) wide x 1/32 in. [0.8 mm] greater than the foam thickness) around door and window openings. After fastening each Z-Furring Channel, fit a 24 in. (610 mm) wide floor-to-ceiling high insulation board between the wall and the wide, 1-1/4 in. (31.8 mm) flange.

Application Of Foam

Masonry or concrete surface must be dry and clean. It must also be free of dust, dirt, form release agents, oil, grease or water-soluble materials. Treat painted masonry as recommended for laminating to painted surfaces.

Insulation may be urethane foam or extruded polystyrene. Do not use expanded bead polystyrene. Apply adhesive to the foam insulation in 3/8 in. (9.5 mm) diameter beads continuously around the perimeter and through the field in the long direction with the beads spaced 12 in. (305 mm) o.c. Contact adhesive manufacturer for compatibility with foam.

Apply the foam boards to the wall with a sliding motion and then hand press the entire board to ensure full contact of adhesive and wall surface.

Application Of Gypsum Board

Erect gypsum board either vertically or horizontally to the Z-Furring Channels. Center the gypsum board edges or ends that run parallel to the channels and abut over the channels. Fasten gypsum board with 1 in. (25.4 mm) Type S screws and space them 12 in. (305 mm) o.c. When you have finished erecting the gypsum board, finish all joints and screw heads with ProForm® BRAND Joint Finishing System. Use ProForm® All-Purpose Joint Compounds. (Do not use water-based compounds to laminate prefinished boards to foam.)

Limitations

1. Use regular concrete nails for fastening to unit masonry. If block is old, pre-test nails to determine the optimum size and type to use.

2. Do not apply gypsum board in areas where it will be exposed to excessive moisture or continued high humidity.

3. Since foam plastic insulation is regulated by many building codes, consult with local building authorities before installing.

4. Since unprotected foam insulation may represent a fire hazard, cover it promptly and completely with gypsum board.