



Manufacturer of Natural Fiber Insulation, Fire and Sound Products

Dry Dense- Packing Exterior and Interior Wall Assemblies

Cocoon2[®] Stabilized Borate Formula (SBF) Insulation is required for installation in vertical wall assemblies using the netted/dry dense-pack application. Do not use reclaimed material in this application.

Equipment and Material Requirements for Applying Netting for Insulating 16" On Center 2x4 and 2x6 Walls

- Hanes Insulweb[™] brand netting in 8 or 9 foot widths x 250 yards
 - Style # 3121 natural
 - Basis weight (1.24 oz. per sq. yd.)
- Air compressor with a minimum of two or four air lines
- Pneumatic staple gun with ¼ inch staples
- A minimum of 25 feet of 2 ½ inch blowing hose attached to the larger diameter blowing hose; total length of the two sections not to exceed 150 feet.
- GreenFiber core sample tester, scale and instructions
- Cocoon2 SBF Insulation (INS735)

Preparation

- Any cavity taller than eight feet in height should have cross-bracing or fire stops at mid-height to help support the weight of the material and prevent settling.
- Care should be taken to avoid installing any insulation product in contact with non-UL rated electrical systems or non-insulated wiring.

Procedure for Installing Netting in Exterior and Interior Walls Assemblies

1. Measure the length of the wall and add two feet to the measurement.
2. Cut one piece of netting for each wall.
3. Staple one edge of the netting across the length of the top plate of the first wall.
4. For exterior walls, staple netting down each stud face with a double row of staples. The two staple rows should land on the two edges of the stud to prevent insulation material from obstructing the face of the stud and interfering with the drywall installation. Repeat procedure for each stud until the wall is completed.
5. For interior walls, inset staple ¼ inch on both sides of the wall to prevent bulging that could interfere with the drywall installation. Repeat procedure for each stud until the wall is completed.
6. Complete the wall by stapling the bottom edge of the netting across the length of the bottom plate. Repeat process in additional rooms until the house is complete.
7. After two rooms are completely netted, one person can begin blowing material in the first netted room.
8. Net garage partition walls and knee walls on both sides of the wall to retain blown insulation.

Procedure for Installing Cocoon2 SBF Insulation in Netted Wall Assemblies

1. Using a utility knife, make a three inch incision in the center of each wall cavity, approximately one foot from the top plate.
2. Insert the 2 ½ inch hose in the cut and slide the hose to the bottom of the cavity if possible. If there are any plumbing, electrical or other obstructions, the hose must be reinserted at different points in the cavity. Multiple holes may be needed to ensure uniform density throughout the entire cavity.
3. Machine setting will vary depending on the production rate of the installation equipment. Some trials with the machine will be necessary as blowing machines and conditions can vary depending on machine type, level of maintenance, and the degree of wear.
4. A small machine capable of blowing 1800 pounds of Cocoon2 SBF per hour should have the gate open approximately 50% and the air pressure set at two-thirds open. As machine capacity increases, the gate should be reduced and the air pressure turned down.
5. Begin blowing the first cavity; retract the hose slowly toward the top of the cavity as the material fills. The netting will tighten and bulge slightly as the hose is withdrawn. Once the hose end reaches the opening in the netting, point the hose at the top of the cavity until the cavity is completely filled.
6. Tape the cuts in the netting with duct tape after the material is installed.
7. Cross-bracing creates two separate cavities; blow each cavity with separate entry holes.

Density Check

Take core samples from the top, middle and bottom of the first cavity to ensure proper technique and consistent density.

1. Adjust the gate opening and air settings to attain a minimum installed density of 3.5 pounds per cubic foot. (Always follow the blowing machine manufacturer's directions.) Once the desired density is achieved continue blowing the netted cavities until the house is completed. Documenting these settings will save time the next time this application is required.
2. Do not use reclaimed material in this application.

Note: Install dry dense-pack Cocoon2 SBF Insulation in all exterior wall sections in bathrooms, kitchens and other rooms where added vapor impediments, such as cabinets, mirrors, tubs, and shower enclosures are located. If unsure where impediments are located, dry dense-pack the entire exterior wall section(s).

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