

SECTION 07200
 Moisture and Thermal Protection
 Spray Foam Insulation

CORBOND® III *Performance Insulation System*®

All spray applied insulation as shown on drawings or Specified herein shall be the **CORBOND** Performance Insulation System® as manufactured by Corbond Corporation of Bozeman, Montana OR EQUAL.

CORBOND shall be installed by technicians in accordance with manufacturer's instructions.

I. GENERAL

A. Related documents: The general provisions of the contract and all codes and standards referenced.

B. Description of the Work:

1. The extent of **CORBOND** insulation is shown on the drawings.
2. The applications of **CORBOND** include the following:
 - a. Rigid spray-in-place perimeter floor header (box sill, rim joist) insulation. Provide minimum R-Value of 21 at all exterior wall applications. (Thermal barrier requirement exception at floor header for class 1, 1.5 – 2.0 lb. spray foam when applied at 3.25 thickness or less per IBC/IRC).
3. **Related Work:**
 - a. Spray-on Thermal Barrier: Division 7 (071).
 - b. Spray-on Ignition Barrier: Division 7 (071).
 - c. Gypsum Drywall System: Division 9 (092000).
4. **Quality assurance:**
 - a. Thermal Conductivity: K = .15 (ASTM-C-518).
 - b. R-Factor = 6.6 per inch.
 - c. Density = 2.0 lbs/cu ft. in-place (ASTM D-1622).
 - d. Permeance = .90 at 2.5 inch thickness (ASTM-E-96).
 - e. Surface Burning Characteristics: Class I (ASTM-E-84-91a) **Flame Spread <25, Smoke Density <450. (1.5 inch, 4inch, 6inch)
 - f. Recognizable lavender trademark color.
5. **Product handling:**
 - a. Do not store containers in direct sunlight. Keep drums covered. Empty container disposal by technicians in accordance with current law and industry standard practice.
 - b. Store raw materials at 60° F to 70° F.
 - c. Fire hazard class of raw material stored on site: Combustible liquid, Class 3B.
 - d. Transportation Class 55, NOIBN, Non-Hazardous



- e. **WARNING:** Breathing hazard during application of insulation materials. Do not enter without proper respiratory protection. No smoking or open flame.
 - f. Process materials in accordance with **CORBOND** published Technical Data.
6. **Job Conditions:**
- a. Examination of substrate: Technicians will examine the substrate and conditions under which the spray insulation work is to be performed, and notify the contractor in writing of any unsatisfactory conditions, such as: 1. Excessive dirt or oil on substrate. 2. Excessive moisture present as dampness, dew, frost or water. 3. Substrate temperatures outside applicable limits.
 - b. Cover tools and work of other trades as required to prevent damage from overspray.
 - c. Do not weld or torch near **CORBOND**. Cover as soon as possible with subsequent work.

II. PRODUCTS

A. Materials:

- 1. Crawlspace perimeter and floor header (box sill, rim joist) insulation: **CORBOND** Performance Insulation System® installed to thickness required to provide R-Value of 21.

III. EXECUTION

A. Installation:

Installation of the **CORBOND** Performance Insulation System® is performed by technicians familiar with the processing of two component polyurethane foams and in complete accord with application instructions provided by the manufacturer. These technicians employ equipment with preset component ratio and electronically controlled heat input to assure in-place consistency of finished product and performance. Contact **CORBOND** Corporation, Bozeman, Montana, (888) 949-9089 or direct at (406) 586-4585.

END OF SECTION