

# Specification Data Sheet

## ThermaCav® Ultra Cavity Wall Insulation

**THERMACAV® ULTRA CAVITY WALL INSULATION**  
ASTM C578, TYPE IV BOARD  
SECTION 07217

### **PART 1. GENERAL**

#### **1.01 RELATED DOCUMENTS**

- A. Drawings and general provisions of Contract, including General and Supplementary conditions and Division-1 Specification Sections, apply to this section**

#### **1.02 SUBMITTALS**

- A. Manufacturer's product literature, including specified physical properties.**
- B. Installation Instructions.**
- C. Certification that product complies with specification requirements and is suitable for the use indicated.**
- D. Manufacturer's Thermal Performance Warranty**

#### **1.03 QUALITY ASSURANCE**

- A. ThermaCav® Insulation shall not be produced with, or contain, any of the United States EPA regulated CFC compounds listed in the Montreal Protocol of the United Nations Environmental Program.**

#### **1.04 PRODUCT HANDLING**

- A. Protect insulation from physical damage**
- B. Comply with manufacturer's recommendations for handling, storage and protection**
- C. Handle boards carefully so corners are not broken off or boards otherwise damaged**

#### **1.05 WARRANTY**

- A. Provide written warranty that the actual thermal resistance of the extruded polystyrene insulation will not vary by more than 10% from its published thermal resistance**
- B. Warranty period is for 30 years from the date insulation is purchased.**

**PART 2. PRODUCTS**

**2.01 INSULATION**

**A. Material Properties**

- 1. Rigid closed cell extruded polystyrene thermal board insulation with fabricated vertical and horizontal drainage channels covered by filter fabric.**
- 2. Comply with ASTM C578-95, Type IV, density 1.6 lb/cu.ft. min., compressive strength 25 psi (ASTM D 1621-94)**
- 3. Thermal resistance: 5-year aged R-values of 6.0 and 5.6 min. °F-ft<sup>2</sup>-h/Btu<sup>2</sup>/inch at 40°F and 75°F respectively (ASTM C 518-91)**
- 4. Water absorption: Max. 0.1% by volume (ASTM C 272-91(96)).**
- 5. Surface Burning Characteristics:**
  - a. Flame Spread: 15**
  - b. Smoke Developed: 165**

**\*\*\*Select appropriate board thickness below:**

**B. Thickness: 1-3/4"**

**\*\* or\*\***

**B. Thickness: 2-1/4"**

**C. Acceptable product: T. Clear Corporation - ThermaCav® 25 brand insulation.**

**2.02 ADHESIVE**

**A. Adhesive: type recommended by insulation manufacturer**

**B. Acceptable manufacturer's products:**

- 1. ChemRex, Inc. "Contech Brands PL300 Foam Board Adhesive**
- 2. ChemRex, Inc. "Contech Brands Premium Foam Board Adhesive**
- 3. Dacar Products, Inc. "Foamgrab PS"**

**PART 3 – EXECUTION**

**3.01 INSPECTION AND PREPARATION**

- A. Verify that masonry joints are struck flush and that other conditions are satisfactory for proper installation.**
- B. Remove concrete fins and mortar projections that interfere with placement of insulation boards.**

**3.02 INSTALLATION**

- A. Apply 2” diameter daubs of adhesive spaced approximately 12” o.c. both ways on inside face of insulation board.**
- B. Butter all edges of insulation board with adhesive to provide continuous vapor barrier.**
- C. Fit insulation between wall ties and other obstructions with joints staggered and edges butted tightly.**
  - 1. Press units firmly against inside wythe of masonry or other construction.**
  - 2. Wedge insulation from outside wythe of construction with small fragments of masonry materials spaced 24” o.c. both ways.**
  - 3. Make insulation continuous. Fill all voids.**

**3.03 CLEAN-UP**

- A. Remove and dispose of excess insulation, wrappings and other waste materials.**