



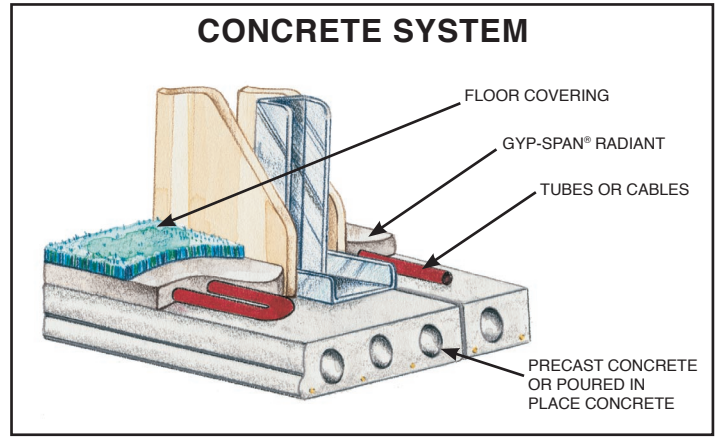
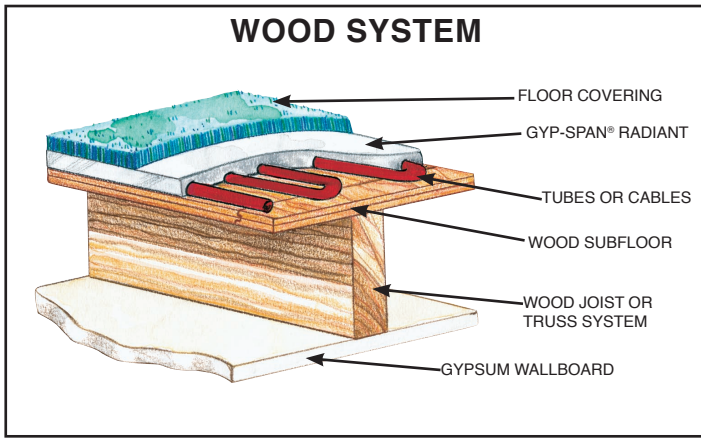
Gyp-Span[®]

RADIANT

***GYP-SPAN**[®] RADIANT is a high strength, crack-resistant gypsum concrete designed for use over hot water tubes or electric cables.*

***GYP-SPAN**[®] RADIANT locks radiant tubes in place in order to evenly distribute heat throughout, providing a smooth, flat and warm surface ready for finished floor coverings.*

- Meets ASTM F2419, Methods listed in TCA Handbook
- Efficient thermal mass for uniform heat transfer
- No hot spots, air bubbles or shrinkage cracks
- Compressive strengths up to 3200 psi
- More than 84 UL Listings
 - Improves STC and IIC ratings
 - Installed only by Licensed Applicators



Recommended Specifications

PART I GENERAL

- 1.1 Scope – Specify to meet project requirements
 - A. Work included:
 1. **GYP-SPAN® RADIANT**
 2. Hacker Floor Primer
 3. Hacker Floor Sealer
 4. Hacker TopCoat SP (Surface Prep)
- 1.2 Qualifications
 - A. **GYP-SPAN® RADIANT** shall be installed by Licensed Applicators of Hacker Industries, Inc., using approved mixing and pumping equipment.
 - B. **GYP-SPAN® RADIANT** shall be delivered in original, unopened bags and protected from exposure to the elements after delivery. Do not allow bags to get wet.
 - C. Install before or after drywall, as specified.
 - D. Before, during, and after installation of **GYP-SPAN® RADIANT**, the building interior must be continuously ventilated and heated to a minimum of 50°F (10°C).
 - E. Compressive strength can be specified from 2000 psi to 3200 psi (approx. 13.8 to 22.8 MPa).
 - F. All materials specified herein shall be approved by Hacker Industries, Inc.

PART II PRODUCTS

- 2.1 Materials
 - A. Gypsum Concrete: **GYP-SPAN® RADIANT** as supplied by Hacker Industries, Inc.
 - B. Hacker Floor Primer and Sealer
 - C. Hacker TopCoat SP, if required
 - D. Sand: 1/8" (approx. 3mm) or less washed plaster or mortar sand meeting requirements of Hacker Industries, Inc. Sand Guidelines.
 - E. Mix Water: Potable and free from impurities.

PART III EXECUTION

- 3.1 Condition of Subfloor
 - A. The General Contractor is responsible for providing a structurally sound (L/360) subfloor, broom cleaned, dry and free of oil, grease or other contaminants.
 - B. Before installation, the General Contractor shall inspect and approve the condition of the subfloor.
- 3.2 Preparation of Subfloor
 - A. All cracks and voids shall be filled with a quick-setting taping compound to prevent leakage.
 - B. Plywood/OSB: Spray one coat Hacker Primer using one gallon (approx. 3.8L) per 500 square feet (approx. 46 sq.m).
 - C. Other substrata: Conditions may vary. Consult Hacker Industries, Inc. for recommended floor preparation.
- 3.3 Mixing Instructions
 - A. 4 to 6 gallons (approx. 15.1 to 22.7 L) of water and sand as specified per 80 pound (36.3 kg) bag of **GYP-SPAN® RADIANT**. Do not overwater. Water amount will change with wetness of sand.
 - B. **GYP-SPAN® RADIANT** mix proportions and methods shall be in strict accordance with Hacker recommendations.
- 3.4 Underlayment Application
 - A. Application: **GYP-SPAN® RADIANT** can be installed in one or two lifts. The min. thickness over radiant heating system is 3/4" (19mm) over the top of the tubes or cables. Place as continuously as possible until installation is complete.
 - B. Protection: After installation, temporary wood planking shall be placed by General Contractor wherever the underlayment will be subject to wheeled or concentrated loads.

- C. Drying: Prior to the installation of finished floor goods, **GYP-SPAN® RADIANT** must be free from any moisture. The General Contractor shall provide continuous ventilation and adequate heat to rapidly remove moisture from the area until the underlayment is dry. Consult flooring contractor for recommended procedures to test for dryness.
 - D. **GYP-SPAN® RADIANT** is suitable for interior applications only and must be covered by a finished floor covering.
- 3.5 Preparation for Installation of Floor Coverings
 - A. Sealing: Any areas where the underlayment surface has been damaged shall be cleaned and sealed regardless of floor covering specified. Floor covering manufacturers' specifications and requirements supercede these recommendations.
 - B. Floor Covering Procedures: Please see Hacker Industries, Inc.'s "Guidelines for Installing Finished Floor Coverings." The guideline is not a warranty and should be used as a guideline only. Also see ASTM F2419.
 - 3.6 Field Quality Control
 - A. Slump Test: **GYP-SPAN® RADIANT** shall be tested for slump as it is being installed using a 2" by 4" (approx. 51mm by 102mm) cylinder. The patty size should be 7-1/2" (approx. 191mm) plus or minus 1/2" (approx 13mm) in diameter.
 - B. Field Samples: Testing of molded cube samples shall be in accordance with ASTM C472 modified using split brass molds. Prior to independent sampling, contact Hacker Industries, Inc., to insure proper ASTM methods are followed.

Hacker Industries, Inc.

610 Newport Center Drive, Suite 250
 Newport Beach, CA 92660 USA
 (949) 729-3101 FAX: (949) 729-3108
 Toll Free: (800) 642-3455 FAX: (800) 906-8548
 e-mail: info@HackerIndustries.com
 www.HackerIndustries.com

© 1/2007 Hacker Industries, Inc.
 FIRM-FILL®, GYP-SPAN® and the associated logos are the registered trademarks of Hacker Industries, Inc., Newport Beach, CA.

For the Licensed Applicator in your area, please call our toll-free number, (800) 642-3455.