

### Note to Architects

These are notes for the specification of Hacker Floor Underlayments in section 03540 – Cementitious Underlayments. For additional information or CSI formatted specifications, contact Hacker Industries, Inc. or a Licensed Applicator in your area.

1. Supplier: Hacker Industries, Inc., Newport Beach, California.
2. Installation of Hacker Floor Underlayments shall be by a Licensed Applicator of Hacker Industries, Inc., using mixing and pumping equipment approved by Hacker Industries, Inc.
3. Hacker Floor Underlayments are designed only for use as a non-wearing, interior surface ready for finished floor goods and shall not be installed below grade.
4. Hacker Floor Underlayments can be installed before or after the installation of drywall.
5. Before, during and after installation of Hacker Floor Underlayments the building interior shall be ventilated and heated (minimum 50°F or 10°C). The General Contractor shall provide mechanical ventilation and heat.
6. The subfloor shall be structurally sound (maximum of L/360 deflection), broom cleaned and free from oil, grease or other contaminants.
7. All cracks and voids shall be filled with a quick-setting taping compound to prevent leakage.
8. Before installation, the General Contractor shall inspect and approve the condition of the subfloor and any required elevations.
9. The minimum thickness of Hacker Floor Underlayments varies with the type of subfloor, the underlayment specified, and the individual job conditions. Over wood subfloors, a minimum of 3/4" (approx. 19mm) of Hacker Floor Underlayments is required. Over concrete, Hacker Floor Underlayments can be feather edged and poured up to 3-1/2"(89mm). In radiant heat systems, 3/4" above radiant heat tubes or cables.
10. After installation, temporary wood planking shall be placed wherever the underlayment will be subject to heavy-wheeled traffic or concentrated loads.
11. Hacker Floor Underlayments are but one component of an effective sound and fire control system. Care shall be taken in the installation of all construction components to assure the ultimate design performance.
12. Hacker Floor Underlayments shall be tested for slump as they are being installed using a 2" (51mm) by 4" (102mm) cylinder. The patty size should be as specified in Hacker Industries, Inc.'s most current specifications.
13. All testing should be done in accordance with proper ASTM procedures. Prior to independent sampling, contact Hacker Industries, Inc. to ensure proper ASTM methods are followed. If requested prior to application, test results shall be available to the architect, owner, and/or contractor from the Licensed Applicator.
14. Certification: Upon completion of this portion of work, and as a condition of its acceptance, a certificate can be requested by the architect from Hacker Industries, Inc., signed by the Licensed Applicator, stating that the material used in this work complies with the specified requirements.

### Code Certification

ICC-ES Legacy Report ER-4147; City of Los Angeles Research Report No. 24540; Metropolitan Dade County, Florida No. 96-0516.03; FHA-HUD 1255.

UL Designs (see table on previous page).  
UL of Canada Design Numbers L512, M505, M506, M507, M508, M509.

### Warranty

Hacker Industries, Inc. warrants Hacker Floor Underlayments to be free from manufacturing defects and, when properly prepared and installed according to approved specified methods, Hacker Floor Underlayments will attain minimum physical specifications as stated by Hacker Industries, Inc.'s most current literature. Hacker Industries, Inc. does not install Hacker Floor Underlayments and cannot be held responsible for the results of the application. Hacker Industries, Inc.'s obligation shall be limited to the replacement of the bagged product only and is subject to notice and inspection requirements.

*This warranty is in lieu of all other warranties expressed or implied including the warranties of merchantability and fitness for a particular purpose and all other obligations or liabilities.*

### Quality Control

Hacker Floor Underlayments are installed by trained, Licensed Applicators who adhere to Hacker Industries, Inc.'s stringent Quality Control Standards, which include compressive strength testing, field quality audits and technical updates to assure consistency in all Hacker Floor Underlayments.

# SUPPLYING THE BUILDING INDUSTRY SOUND RATED, FIRE RESISTANT AND DURABLE CEMENTITIOUS FLOOR UNDERLAYMENTS FOR OVER 20 YEARS

A BILLION SQUARE FEET  
INSTALLED NATIONWIDE IN  
RESIDENTIAL, COMMERCIAL AND  
MULTI-FAMILY PROJECTS



**Hacker Industries, Inc.**

610 Newport Center Drive, Suite 250  
Newport Beach, CA 92660 USA

**Firm-Fill Gyp-Span**

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**Firm-Fill**  
Gypsum Concretes

**Gyp-Span**  
Radiant





## Let Our Products FLOOR You®



Why specify poured gypsum concrete? Poured gypsum concretes are an optimal blend of strength and finish. Gypsum concrete floor underlayments provide a smooth, hard surface for finished floor coverings while offering exceptional compressive strengths matched with superior acoustical and fire resistant properties.

Hacker Industries, Inc.'s line of FIRM-FILL® Gypsum Concretes and GYP-SPAN® Radiant lead the industry in reliability and customer satisfaction in new construction, renovation and repair projects. Ideal for commercial, single-family and multi-family construction, Hacker Floor Underlayments are available nationwide from a network of trained, Licensed Applicators to ensure consistency in performance and quality.

## Premium Products

### FIRM-FILL® Gypsum Concrete

Premier product for application in multi and single-family housing for sound and fire-rated assemblies. Compressive strengths from 1200 to 2000 psi (8.3 to 13.8 MPa).

### FIRM-FILL® 2010

A versatile product for use over wood subfloors to provide additional surface hardness and higher compressive strengths from 1600 to 2500 psi (11.0 to 17.2 MPa).

### FIRM-FILL® 3310

An innovative gypsum concrete specially designed to decrease the amount of water use; offers a quicker drying time without compromising the rock-solid floor strength. Compressive strengths from 2000 to 3300 psi (13.8 to 22.8 MPa).

### FIRM-FILL® High Strength

Resurfaces cracked or damaged concrete to new condition with outstanding bonding characteristics; compressive strengths from 2500 to 3800 psi (17.2 to 26.2 MPa).

### FIRM-FILL® 4010

An exceptionally durable cementitious underlayment for thin capping of concrete for projects requiring the highest compressive strength; up to 5500 psi (37.9 MPa).

### GYP-SPAN® Radiant

Efficient thermal mass for even distribution of heat without hot spots, air bubbles or shrinkage cracks. Compressive strengths from 2000 to 3200 psi (13.8 to 22.1 MPa).

### HACKER SOUND MAT II

Designed to reduce sound transmission in multi-family projects, commercial buildings and custom homes. Provides a quieter environment by increasing STC and IIC ratings.

In addition to its premier line of gypsum underlayments, Hacker Industries now supplies two self-levelers ideal for resurfacing concrete floors in renovation projects - **TRUE-SCREED® CLU** and **DYNA-SCREED™ SLU**. Call (800) 642-3455 for information and specifications.



## System Benefits

- Perfect balance of cost and performance
- Integral part of 1 to 4 hour floor/ceiling assemblies; listed in 83 UL designs



- No shrinkage cracks
- Superior bonding characteristics
- Available from plants throughout the United States

- Flamespread Index 0; Fuel Contribution 0; Smoke Density 0; per ASTM E-84

- No double-plating required and decreased dead loads; stiffens subfloors

- Strong, long-lasting surface for virtually all types of finished floor coverings

- Methods listed in the TCA Handbook

- Mixed and pumped in place on the job site; up to 40,000 sq. ft. installed per day

- Surface can be walked on in 90-minutes; ready for the next trade the following day

- Variety of thicknesses from 1/8" to 3-1/2"; can be feather edged for smooth transitions

- Level uneven or irregular subfloors

- Reduce sound transmission; improve STC and IIC ratings. Specify Hacker Sound Mat II under a Hacker Floor Underlayment for optimal acoustical performance

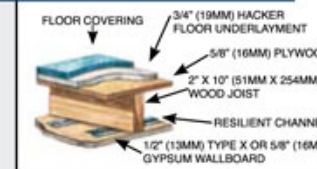
- Meet ASTM F2419, Standard Practice for the Installation of Thick Poured Gypsum Concrete Underlayments and the Preparation of the Surface to Receive Resilient Flooring

- Proven performance with over a billion square feet installed across North America

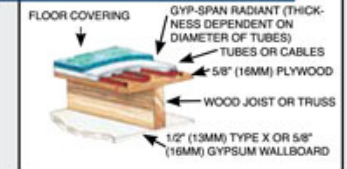
- Our Products Will FLOOR You®

## Floor Systems

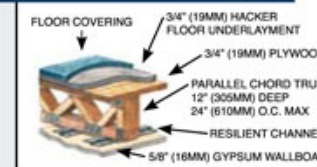
### WOOD SYSTEMS



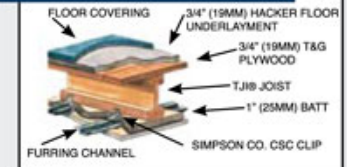
### RADIANT SYSTEMS



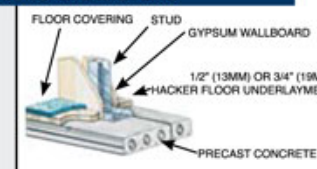
### TRUSS PLATE INSTITUTE



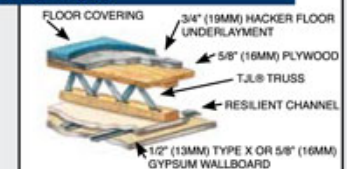
### TJI® JOIST



### CONCRETE SYSTEMS



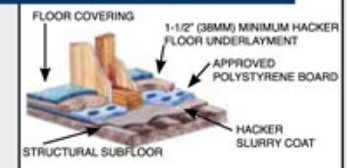
### TJL® TRUSS



### RENOVATION



### POLYSTYRENE SYSTEMS



### STEEL JOIST



### SOUND MAT SYSTEMS



## Underwriters Laboratories Design Numbers

J917	J919	J920	J924	J927	J931	J957	J966	J991
J994	K906	L001	L004	L005	L006	L201	L202	L206
L208	L209	L210	L211	L212	L501	L502	L503	L504
L505	L506	L507	L508	L509	L510	L511	L512	L513
L514	L515	L516	L517	L518	L519	L520	L521	L522
L523	L524	L525	L526	L527	L528	L529	L530	L532
L533	L534	L535	L536	L537	L538	L539	L540	L541
L542	L543	L545	L546	L547	L548	L549	L550	L551
L552	L553	L555	L556	L557	L558	L559	L560	L562
L563	L571							