



# FIRM-FILL® SCM-250

## Product Description

FIRM-FILL® SCM-250 is a corrugated U-groove, random monofilament sound control mat. It is engineered to mitigate impact noise (IIC) between floors. It is able to lower both structural and airborne transmission by converting and storing vibrational energy. It's nominal 1/4" (6 mm) thickness makes it ideal for projects with floor thickness limitations such as multi-residential wood-framed construction.

FIRM-FILL® SCM-250 is color coded red to aid in proper installation and facilitate inspections. It is designed for use with FIRM-FILL® Brand Gypsum Underlayments to provide a complete fire and sound control system.

TECHNICAL DATA	PROPERTIES	ASTM
Thickness (Nominal)	1/4" (6 mm) (Minimum Gypsum Thickness 1")	
Width	60" (152.4 cm)	
Area per Roll	400 ft <sup>2</sup> (37.16 m <sup>2</sup> )	
Roll Weight	39 lbs (17.7 kg)	
Steiner Tunnel	Class A	E84
Robinson Wheel	Extra-Heavy at 1" (25 mm)	C627

## Related Products

FIRM-FILL® SCM-250 is used in conjunction with: FIRM-FILL® Gypsum Underlayments, Hacker Reinforcement, FIRM-FILL® SCM Tape, Hacker Floor Sealer, Hacker Perimeter Isolation, and Hacker TopCoat® SP (Surface Prep). For more products, visit [www.hackerindustries.com/products.shtml](http://www.hackerindustries.com/products.shtml).

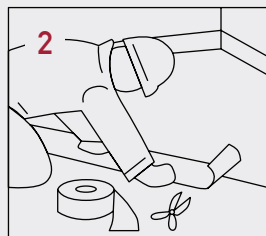
## Compliance

- ICC-ESR-3386
- IAPMO UES Evaluation Report No.474
- HUD 1255e

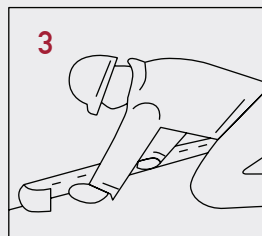
## Installation



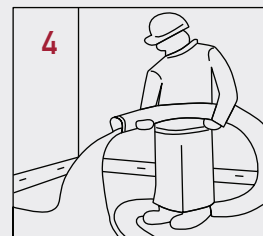
1 Lay down sound mat over the entire subfloor, colored side down



2 Seams between sound mat rolls are adhered with tape.

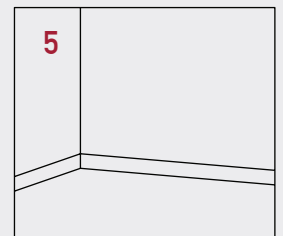


3 Isolation strips are installed, then taped, around the perimeter of the whole room and around any vertical penetrations of the floor.



4 Sound mat is topped with a Hacker Underlayment. Depth will be dependent on the project requirements.

For a smooth finish, installers use a darby tool to ensure uniform depth.



5 Finished floor coverings can be installed when the gypsum concrete is completely dry. Consult flooring contractor for acceptable levels of moisture and recommended procedures for testing dryness.

# FIRM-FILL® SCM-250



Class A fire-rated product;  
Code Compliant;  
over 120 UL Listings



Ideal for light commercial and  
multi-family construction



Lightweight and easy to handle



Cost-effective way to address  
noise concerns and improve  
IIC ratings



Minimal deflection, no creep  
or long-term degradation



Installed only by our trained  
Licensed Applicators across  
North America

## Sound Testing & UL Fire Rated Designs

### UL FIRE RATED DESIGNS

L003, 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, L533, L534, L535, L536, L537, L538, L539, L540, L541, L542, L543, L545, L546, L547, L549, L550, L551, L556, L557, L558, L560, L562, L563, L564, L565, L569, L570, L573, L574, L576, L577, L579, L581, L583, L585, L587, L588, L589, L590, L592, L593, L598

M500, M501, M502, M503, M504, M505, M506, M508, M509, M511, M513, M514, M515, M517, M519, M520, M521, M525, M526, M530, M531, M536, M538, M540, M544, M545, M546, M550, M553

J917, J919, J920, J924, J927, J931, J957, J958, J991, J994

Published acoustic and fire systems tests were conducted under controlled laboratory or field conditions and reflect results applicable only to those specific assemblies. For more information on acoustical assemblies, visit

[www.hackerindustries.com/acoustical-design-guide-download.shtml](http://www.hackerindustries.com/acoustical-design-guide-download.shtml).

## Limitations

1. Do not use in exterior locations or below-grade.
2. Shall not be used without a FIRM-FILL® Gypsum Concrete Underlayment.
3. Do not install where continuous exposure to moisture is a possibility.
4. Structure shall be designed so that deflection does not exceed L/360 live or dead load. Certain floor coverings such as marble, limestone, travertine and wood may have more restrictive deflection limits. Consult the appropriate floor covering manufacturer for recommendations.
5. FIRM-FILL® SCM-250 shall be installed with a perimeter isolation strip.
6. Do not use mechanical fasteners to install FIRM-FILL® SCM-250, as mechanical fasteners conduct impact sound, reducing acoustical isolation.
7. FIRM-FILL® SCM-250 is but one component of an effective sound and fire control system. Care must be taken in the installation of all components to assure the ultimate design performance.

## WARNING

Laboratory tests are not a guarantee of field performance because of the issues noted above and many other design errors that may occur. Please consult a professional acoustical consultant to assure plans are proper and that the floor/ceiling assembly can perform to expectations.

## NOTES

The information in this document is subject to change without notice. Hacker Industries, Inc., and/or its affiliates assume no responsibility for any errors that may inadvertently appear in this document. Consult Hacker Industries, Inc., for updated information.

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