



FIRM-FILL® SCM-400

Product Description

FIRM-FILL® SCM-400 is a random monofilament sound control mat engineered to mitigate impact noise (IIC) between floors. It is designed for use in luxury grade multi-family and hospitality projects for increased sound performance. It has a nominal 3/8" (10 mm) thickness ideal for projects with floor thickness limitations.

FIRM-FILL® SCM-400 is color-coded purple to ensure choosing the proper thickness for installation. It is designed for use with FIRM-FILL® Brand Gypsum Underlayments to provide a complete fire and sound control system.

TECHNICAL DATA

PROPERTIES

Core Thickness (Nominal)	3/8" (10 mm) (Minimum Gypsum Thickness 1 1/4")
Width	60" (152.4 cm)
Coverage per Roll	400 ft² (37.16 m²)
Roll Weight	50 lbs (22 kg)
Steiner Tunnel	Class A
Robinson Wheel	Extra-Heavy at 1 1/4" (31.75 mm) Light Commercial at 1" (25 mm)

Related Products

FIRM-FILL® SCM-400 should be specified to use in conjunction with FIRM-FILL® Gypsum Underlayments. Hacker Industries, Inc. also supplies Hacker Reinforcement, FIRM-FILL® SCM Tape, Hacker Floor Sealer, Hacker Perimeter Isolation, and Hacker TopCoat® SP (Surface Prep). For more products, visit hackerindustries.com/products.shtml.

Compliance

- ICC-ESL-1452
- ICC-ESR-3386
- HUD 1255

Installation



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



2 Lay down sound mat over the entire subfloor, colored side down.



3 Seams between sound mat rolls are adhered with tape.



4 Sound mat is topped with a Hacker Underlayment. For depth, please refer to Hacker Industries, Inc.'s *Thickness Guidelines*.



5 Finished floor coverings can be installed when the gypsum concrete is completely dry.

FIRM-FILL® SCM-400



Class A fire rated product;
Code Compliant; over 130
UL Listings



Ideal for luxury-grade multi-
family and hospitality projects



Lightweight and easy
to install correctly



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, L532, L533, L534, L535, L536, L537, L538, L539, L540, L541, L542, L543, L545, L546, L547, L549, L550, L551, L556, L557, L558, L560, L562, L563, L564, L569, L570, L574, L576, L577, L579, L581, L583, L585, L587, L588, L589, L590, L592, L593, L598

M500, M501, M502, M503, M504, M505, M506, M508, M509, M510, M511, M513, M514, M515, M517, M519, M520, M521, M525, M526, M530, M531, M538, M540, M544, M545, M546, M550, M553, M562

G230, G516, G524, G553, G561, G565, G566, G587, G594, G595

H502, H516

J917, J920, J924, J927, J931, J957, 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 <https://hackerindustries.com/pdfs/hacker-industries-acoustical-design-guide.pdf>.

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-400 shall be installed with a perimeter isolation strip.
6. Do not use mechanical fasteners to install FIRM-FILL® SCM-400, as mechanical fasteners conduct impact sound, reducing acoustical isolation.
7. FIRM-FILL® SCM-400 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.

WARRANTY

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