

## **MR-MANUFACTURER**

THERMAFIBER® Sound Attenuation Fire Blankets (SAFB) are manufactured by ThermaFiber LLC. United States Gypsum Company is sales agent.

## **PP-PRODUCT PRESENTATION**

THERMAFIBER Sound Attenuation Fire Blankets (SAFB) are effective barriers to sound transmission for improved privacy and productivity in the workplace. They are particularly useful in partitions requiring fire ratings and as overlayment for ceilings to improve acoustics.

Depending on the particular assembly and application, partition STC ratings have been improved up to nine points by installing THERMAFIBER SAFB in the stud cavity. The insulation also has been shown to improve MTC ratings for low-frequency sound attenuation, isolating sounds from machinery, mechanical equipment and music.

**THERMAFIBER SAFB** are superior to glass fiber in sound attenuation. In fact, low-density glass fiber insulation must be nearly twice as thick as standard THERMAFIBER SAFB to provide the same attenuation.

## **UA-USES, APPLICATIONS**

Standard THERMAFIBER SAFB Assemblies offer outstanding performance in a variety of wall assemblies.

\* THERMAFIBER 3" SAFB with 2 layers 5/8" SHEETROCK brand Gypsum Panels, FIRECODE C Core, resilient attached one side, 3 layers same panels direct attached other side.

**Sound test TL-87-153\***: 61 STC, 56 MTC.

**UL Design U455\***: 3-hour rating.

\* THERMAFIBER 3" SAFB with 1 layer 5/8" SHEETROCK brand Gypsum Panels, FIRECODE C Core, resilient attached one side, 1 layer same panels direct attached other side.

**Sound test BBN-760903\***: 50 STC.

**UL Design U311\***: 1-hour rating.

\* THERMAFIBER 1-1/2" SAFB with 2 layers 1/2" SHEETROCK brand Gypsum Panels, FIRECODE C Core, resilient attached both sides.

**Sound test SA-800421\***: 55 STC.

**UL Design U412\***: 2-hour rating.

Standard THERMAFIBER SAFB Assemblies also offer outstanding performance in floor-ceiling assemblies.

\* THERMAFIBER 3" SAFB with 2 layers 5/8" SHEETROCK brand Gypsum Panels, FIRECODE C Core, resilient attached on ceiling side, gypsum Type F pumped flooring, carpet and pad on floor side.

**Sound test TL-90-40\***: 59 STC, 54 MTC.

**UL Design I541\***: 2-hour rating.

\* With IMPERIAL Gypsum Base of same thickness and core formulation, and veneer plaster, fire performance is the same and sound performance is approximately the same as that with SHEETROCK brand Gypsum Panels.

**Creased THERMAFIBER SAFB** Assemblies offer the most economical drywall sound systems

in the 50 to 55 STC range. These fire-rated systems are ideal for party and corridor walls in hotels, motels, offices, and multi-family dwellings. For example, a single-layer drywall partition with Creased THERMAFIBER SAFB has the same STC rating as an unbalanced drywall partition with standard SAFB.

\* THERMAFIBER 3" Creased SAFB with 1 layer 5/8" gypsum panels direct attached on each side.

**Sound test TL-85-128 (with SHEETROCK brand Gypsum Panels, FIRECODE C Core):** 51 STC.

**Sound test SA-860620 (with IMPERIAL Gypsum Base, FIRECODE C Core, and veneer plaster):** 51 STC.

**UL Design U465:** 1-hour rating.

\* THERMAFIBER 3" Creased SAFB with 1 layer 5/8" gypsum panels resilient attached one side, 1 layer direct attached gypsum panels other side.

**Sound test SA-850415 (with SHEETROCK brand Gypsum Panels, FIRECODE C Core):** 55 STC.

**Sound test SA-860635 (with IMPERIAL Gypsum Base, FIRECODE C Core, and veneer plaster):** 55 STC.

**UL Design U451:** 1-hour rating.

**High-Performance Systems** offer the highest, most efficient fire ratings. In the past, if a design specified a 2-hr. fire rating, a double layer drywall system was required. Now, with the new 3/4" SHEETROCK brand Gypsum Panels, ULTRACODE Core, and 3" THERMAFIBER SAFB in the stud cavities, a 2-hr. fire rating is provided with a single-layer system. This system also provides an STC of 50. With double layers of 3/4+ SHEETROCK brand Gypsum Panels, ULTRACODE Core, and 2" THERMAFIBER SAFB in the stud cavities, a 4-hr. fire rating can be obtained. The double layer system provides an STC of 56. A third system is a USG Cavity Shaft Wall partition, which provides a 2-hr. fire rating and STC 52.

\* **Steel Stud Partition**-THERMAFIBER 3" SAFB in a cavity of 3-1/2" or 3-5/8" steel studs with 1 layer of 3/4" SHEETROCK brand Gypsum Panels, ULTRACODE Core, on each side.

**Sound test USG-910617\*:** 50 STC.

**UL Design U491\*:** 2-hour rating.

\* **Cavity Shaft Wall**-THERMAFIBER 3" SAFB in a cavity of 4" USG Steel C-H Studs 24" o.c. with 1 layer of 3/4" SHEETROCK brand Gypsum Panels, ULTRACODE Core, on one side and 1 layer 1" SHEETROCK brand Gypsum Liner Panels on other side.

**Sound test USG-910613\*:** 52 STC.

**UL Design U492\*:** 2-hour rating.

\* **Steel Stud Partition**-THERMAFIBER 2" SAFB in a cavity of 2-1/2" steel studs with 2 layers of 3/4" SHEETROCK brand Gypsum Panels, ULTRACODE Core, on each side.

**Sound test USG-910907\*:** 56 STC.

**UL Design U490\*:** 4-hour rating.

\* With IMPERIAL Gypsum Base of same thickness and core formulation, and veneer plaster, fire performance is the same and sound performance is approximately the same as that with SHEETROCK brand Gypsum Panels.

## **AI-ASSEMBLY, INSTALLATION**

Install THERMAFIBER Sound Attenuation Fire Blankets in stud cavities of sound-rated partitions and where required to achieve fire-rated design. Friction fit securely between studs. Butt ends of blankets closely together and fill all voids.

The creased THERMAFIBER SAFB system is a patented insulation blanket assembly that is 1" wider than regular blankets. After the blanket is installed in the partition cavity, a 1" vertical slit is field-cut partially through the center of the blanket, allowing it to be creased. Compressing the extra width into the stud cavity buckles the center, exerting pressure against both studs and drywall. This pressure dampens sound vibrations and boosts the partition's STC rating.

#### **MF-MATERIALS, FINISHES**

THERMAFIBER SAFB is a paperless, semi-rigid spun mineral fiber mat. Each blanket has a dense, highly complex labyrinthine structure composed of fibers which produce millions of sound-retarding air pockets.

#### **CS-COATINGS, SURFACING**

Not applicable.

#### **TS-TECHNICAL SUPPORT**

For further information on specifications, design criteria and product performance, order catalogs *SA707 THERMAFIBER Life-Safety Fire Containment Systems* and *IW885 THERMAFIBER SAFB Sound Attenuation Fire Blankets* by calling toll-free 1-800-USG-4YOU (874-4968).

#### **CC-CODES, CERTIFICATION**

Meets ASTM C665.

#### **OM-OPERATION, MAINTENANCE**

Contact local ThermaFiber LLC or U.S. Gypsum Company Sales Office with any questions about maintenance and replacement recommendations.