

## SAFE'N'SOUND®





## Sound control and fire safety from one batt Insulation.

ROCKWOOL SAFE'n'SOUND® is a batt insulation designed specifically for interior wall and floor/ceiling applications. This stone wool insulation is made from natural stone and recycled content. It's a green product that provides superior sound absorbency and fire protection for overall comfort and safety.

Because SAFE'n'SOUND® is designed for interior applications, it has not been engineered as a thermal insulation but as a fire barrier and for soundproofing. Stone wool in general has excellent fire ratings, does not burn and can add valuable time for evacuation in the event that a fire occurs. Its higher density properties also make it an ideal solution for minimizing sound traveling between rooms.

#### Water repellent & won't sustain mold

- ROCKWOOL SAFE'n'SOUND® is resistant to water, rot, mold, mildew and bacterial growth
- Contributes to a safer and healthier indoor environment
- GREENGUARD® certified, receiving the highest designation for indoor air quality





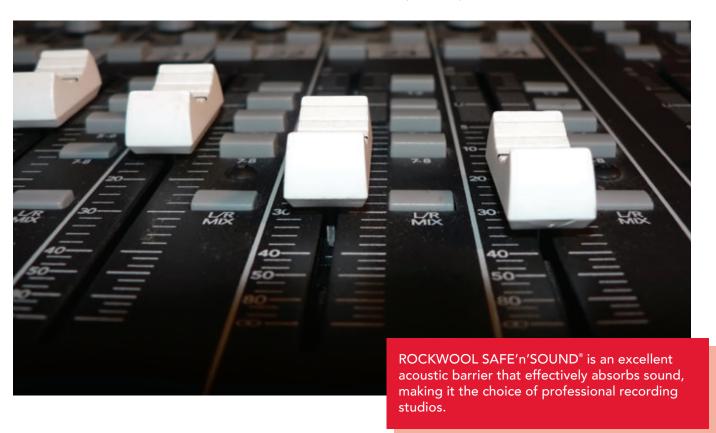
#### Fire resistance enhances home safety

- Combination of natural stone and recycled content makes ROCKWOOL insulation an excellent fire barrier
- Does not develop smoke or promote flame spread, even when directly exposed to fire
- Can withstand temperatures up to 1177°C (2150°F) providing occupants valuable extra time in case of a fire



#### Higher density means a better fit

- ROCKWOOL SAFE'n'SOUND® Batts are simple to cut with a serrated knife (such as a bread knife)
- Clean, straight cuts provide optimal fit around electrical boxes, wiring, and pipes minimizing air flow
- Superior friction fit between studs completely fills the wall cavity preventing insulation from sagging – unlike competitors' products



## Typical Assemblies for ROCKWOOL SAFE'n'SOUND®.

Top View



#### Single stud interior wall

(Wood Studs – 16" On Center)

Using ROCKWOOL SAFE'n'SOUND®, 5/8" drywall (type x) and resilient channels at 16" provides:

- Fire Rating: 1 hour
- Sound Transmission Class (STC): 45

#### SAFE'n'SOUND® Wall Components

(shown from outside to inside)

- 1. 5/8" Type X Gypsum
- 2. 3" SAFE'n'SOUND®
- 3. Resilient Channel
- 4. 5/8" Type X Gypsum Board

#### Side View



#### Interior ceiling/floor

(2 x 10 Joists – 16" On Center)

Using ROCKWOOL SAFE'n'SOUND®, 5/8" drywall (type x) and resilient channels at 24" provides:

- Fire Rating: 30 minutes
- Sound Transmission Class (STC): 50

#### SAFE'n'SOUND° Ceiling/Floor Components

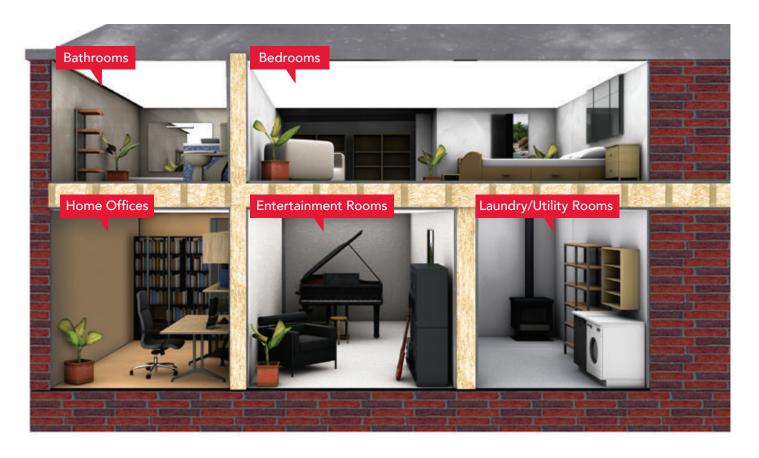
(shown from top to bottom)

- 1. Plywood Floor
- 2. Air Space
- 3. Two layers of SAFE'n'SOUND®
- 4. Resilient Channel
- 5. Gypsum Board





Because it doesn't burn, SAFE'n'SOUND® can delay the spread of fire for added safety.



#### Sound control delivers peace and quiet

- Install SAFE'n'SOUND® in interior walls between rooms and in ceilings between floors
- Higher-density batts more effectively reduce airflow thereby decreasing sound transmission
- Provides higher sound absorption against lowfrequency (bass) ranges, which are most difficult to block
- Typical household applications include home theater, basements (ceilings), home office, laundry room, bathroom and furnace room



# Specify ROCKWOOL SAFE'n'SOUND® for every home.

### Home life has changed, and sound dampening is more important than ever

Life is getting louder around the home. Televisions, home theaters, computers and video games blare from almost every room. Family cell phones constantly ring. More people work from home offices and entertainment rooms are the norm.

More and more, sound dampening is a must-have requirement for any modern family home. And, it's an ideal revenue-generating opportunity to offer ROCKWOOL SAFE'n'SOUND® – the premium acoustic insulation for interior walls and for ceilings between floors.

### Satisfy your customers by creating a quieter home

Don't wait for your home buyers to ask about ways to make their homes quieter, safer and more comfortable. Make peace and quiet and fire protection available on every new build with ROCKWOOL SAFE'n'SOUND\*.

Unlike other insulation, ROCKWOOL SAFE'n'SOUND® provides higher sound absorption against low-frequency (bass) ranges.



#### **Compliance and performance**

System Description	Sound Transmission Class (STC)	Fire Resistance
5/8" gypsum boards 3 5/8" steel studs spaced 24" centers ROCKWOOL SAFE'n'SOUND®	52	1 Hour

Above results are based upon testing using Type X gypsum board. For additional designs, please contact ROCKWOOL Technical Services.

#### **Acoustical performance**

ASTM C423 CO-EFFICIENTS AT FREQUENCIES

System Description	Thickness	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	NRC
ROCKWOOL SAFE'n'SOUND®	3"	0.52	0.96	1.18	1.07	1.05	1.05	1.05

#### **Compliance and performance**

CAN/ULC-S702-09	Mineral Fiber Thermal Insulation for Buildings	Type 1, Complies		
ASTM C 665	Mineral Fiber Blanket Thermal Insulation	Type 1, Complies		
CAN4-S114	Determination of Non-Combustibility	Non-Combustible		
ASTM E 136	Surface Burning Characteristics	Non-Combustible		
CAN/ULC \$102	Surface Burning Characteristics	Flame Spread = 0 Smoke Developed = 0		
ASTM E 84 (UL 723)	Surface Burning Characteristics	Flame Spread = 0 Smoke Developed = 0		
CAN/ULC S102	Smolder Resistance	0.09%		

#### **Dimensions**

Steel Stud	Wood Stud
3" x 16.25" x 48"	3" x 15.25" x 47"
76 mm x 413 mm x 1219 mm	76 mm x 387 mm x 1194 mm
With flexible edges	With flexible edges
3" x 24.25" x 48"	3" x 23" x 47"
76 mm x 616 mm x 1219 mm	76 mm x 584 mm x 1194 mm
With flexible edges	With flexible edges

#### **Density**

2 5 lhs/ft <sup>3</sup>	40 kg/m³
2.5 lbs/ft³	40 kg/m³

ROCKWOOL leads the way with sustainable, eco-friendly products in the building industry and contains natural, inorganic materials made with recycled content.

At the ROCKWOOL Group, we are committed to enriching the lives of everyone who comes into contact with our solutions. Our expertise is perfectly suited to tackle many of today's biggest sustainability and development challenges, from energy consumption and noise pollution to fire resilience, water scarcity and flooding. Our range of products reflects the diversity of the world's needs, while supporting our stakeholders in reducing their own carbon footprint.

Stone wool is a versatile material and forms the basis of all our businesses. With approx. 10,500 passionate colleagues in 38 countries, we are the world leader in stone wool solutions, from building insulation to acoustic ceilings, external cladding systems to horticultural solutions, engineered fibres for industrial use to insulation for the process industry and marine & offshore.

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#### **ROCKWOOL**