



Bradford
soundscreen™

SOUNDSCREEN™

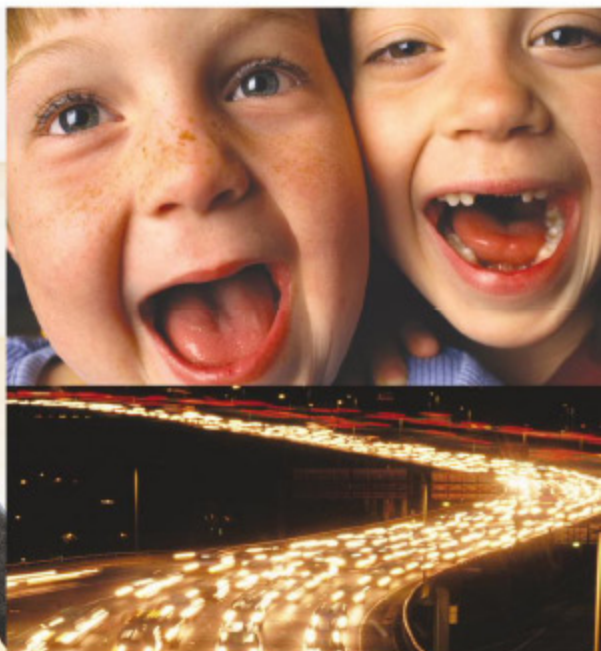
Peace and quiet where you need it most



Bradford™
for smarter environments

CSR

You care about your home environment and your family. You want to create a comfortable, peaceful and safe home where you can enjoy life without the worry of noisy neighbours and high energy bills. You want the peace of mind that your home has enhanced fire protection. You want Bradford SoundScreen™, the high performance insulation with superior acoustic and fire insulation properties.



The ultimate in home insulation

Bradford SoundScreen is Australia's only rockwool fibre based home insulation. Made by spinning molten rock into fine fibres, which are formed into batts, its increased density and unique formulation give it excellent acoustic, thermal and fire insulation properties.

Bradford SoundScreen has been engineered to provide the following unique benefits compared with traditional glasswool or polyester insulation.

- **Enhanced acoustic performance** – By including SoundScreen you will greatly reduce the transfer of noise from outside and within your home - making it quieter and more comfortable for your family.
- **Enhanced thermal performance** – SoundScreen provides the same R value at a lower thickness than traditional products. This means you can include higher thermal performance in tight spaces such as walls and cathedral ceilings.

- **Enhanced fire resistance** – Rockwool is the most popular insulation for fire protection in buildings and industrial applications. A SoundScreen insulated wall will give you up to 30 minutes fire protection.

Noise does annoy

Doctors and psychologists agree that noise has the ability to raise stress, disrupt sleep, and generally reduce your quality of life.

There are a lot of reasons for the growing problem of noise pollution.

We have been subjected to increases in external noise from aircraft and traffic activity. Smaller blocks with larger houses also mean our neighbours are closer. Plus, there are increased noise levels within the home due to the higher proportion of hard surfaces, open plan living, more powerful home theatre systems, ensuite bathrooms and the ever growing number of appliances.

Recommended acoustic systems

The combined effect of these trends highlights the need for noise control both inside and outside the home. That's why Bradford Insulation has developed SoundScreen to help you control sound in your new home.

Understanding sound

Sound power is measured in decibels (dB) on a logarithmic scale which means that a 3dB reduction is actually a 50% decrease in sound power.

A measure called Weighted Sound Reduction Index (R_w) has been developed to measure the effectiveness of noise reduction in different types of construction.

The higher the R_w value the more noise is absorbed and the quieter your home will be. An increase of one R_w unit is approximately equal to a reduction of one decibel in noise level.

Stopping noise entering your home

When you come home and close the door you want your home to be a place you and your family can relax without being disturbed by the noises of the world outside.

The extra density of rockwool gives SoundScreen high levels of sound absorbance whilst providing the level of thermal performance required to meet energy efficiency provisions under the local building codes. By including SoundScreen in your external walls you'll reduce traffic noise and potential disturbance from the neighbours.

Australian Standards recommend a level of less than 40 decibels of external sound entering living rooms, and less than 35 decibels entering bedrooms. These levels will allow you to comfortably carry on a conversation, listen to TV at a low volume, and sleep soundly.



SoundScreen systems for exterior walls

	Brick veneer on 90mm studs	Standard	SoundScreen	SoundScreen High Performance
	Insulation	R1.5 Gold Insulation	SoundScreen Plus R2.0	SoundScreen Plus R2.5
	Plasterboard	10mm Plasterboard	10mm Plasterboard	10mm Plasterboard
	Sound Absorption Performance R_w	56	60	61

Keep noise in its place - inside your home

But sometimes the worst noise comes from within. Home theatres, excited teenagers and even ensuites can produce noises you'd rather not hear around your home.


Including SoundScreen in interior walls can greatly reduce the transmission of noise between rooms and areas of your home, allowing you to get the peace and quiet you deserve without cramping the rest of the family's style.

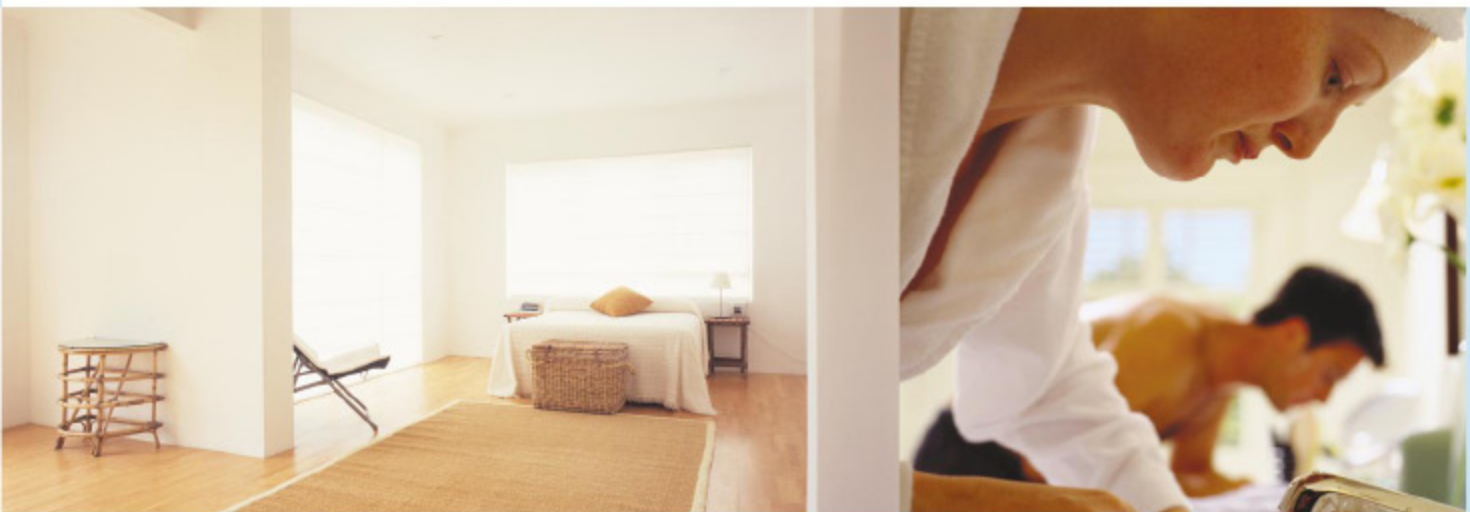
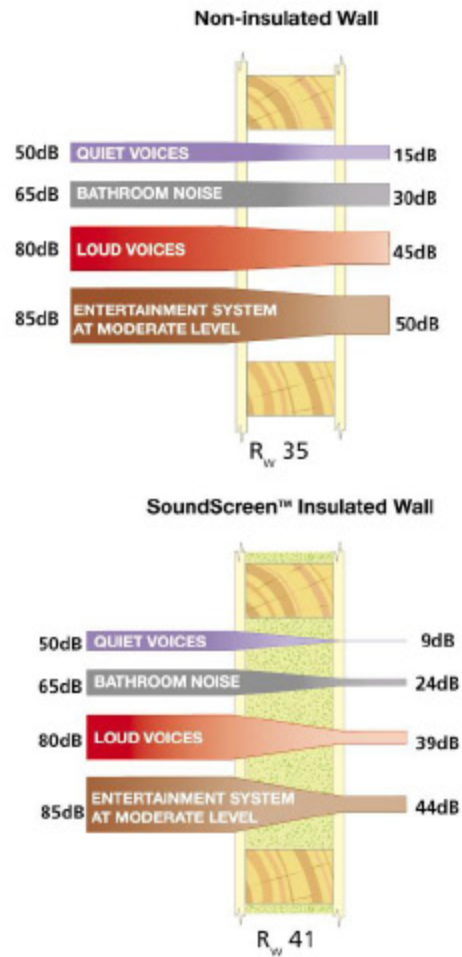
A wall system including SoundScreen can absorb as much as 75% of the sound power to effectively reduce noise to acceptable levels.

SoundScreen is available for both standard 70mm and 90mm stud sizes. The adjacent diagram shows the reductions that can be achieved using SoundScreen in a 90mm stud wall.

To achieve even greater reductions replacing the standard plasterboard with a high density acoustic plasterboard is likely to improve the performance by up to an additional $3R_w$

SoundScreen systems for internal walls

	Stud Size	70mm studs	70mm studs	90mm studs	90mm studs
	System	Standard	SoundScreen	Standard	SoundScreen
	Insulation	Nil	SoundScreen 70	Nil	SoundScreen 90
	Plasterboard	10mm Plasterboard	10mm Plasterboard	10mm Plasterboard	10mm Plasterboard
	Sound Absorption Performance R_w	33	39	35	41





Interior floors

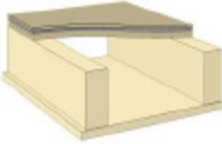
One area often forgotten for sound insulation is between the floors of your home. Airborne noise can travel from the rumpus room to the nursery above from the kids bedrooms to the study below. Structural noise of people thumping around on the upstairs floors can also be a real annoyance.

Sound impact performance is measured by the amount of noise transferred through the structure. The lower the value of the sound impact performance index, the less noise is transferred through the structure.

SoundScreen included above the internal ground floor ceiling can effectively absorb the airborne elements of the noise while the inclusion of 'isolating resilient mounts' in the ceiling system will greatly reduce the transmission of impact noise.



SoundScreen systems for interior floors

	Carpet on particle flooring on 245mm joists at 600mm centres	Standard	SoundScreen	SoundScreen High Performance
	Insulation	Nil	SoundScreen 90	SoundScreen 90
Plasterboard	10mm Plasterboard	10mm Plasterboard	13mm Acoustic Plasterboard	
Resilient Mount	Nil	Nil	Yes	
Sound Absorption Performance R_w	39	41	51	
Sound Impact Performance $L_n T_w$	46	43	32	



**a safer
home for
the family**



A safer home

Rockwool is a proven performer against fire. It doesn't burn or contribute to the spread of a fire. When tested to AS1530.3 Early Fire Hazard, it achieves the best possible ratings.

Including SoundScreen in fire prone areas of your home, such as ceilings and around kitchens, could give your family potentially life-saving extra minutes in the event of a fire.

Setting the standard

Bradford SoundScreen products are manufactured in Australia under ISO9001 quality standards and have been tested to comply with Australian Standard AS4859.1, which ensures you get the thermal performance that's stated on the pack. It's your guarantee of comfort.

Guaranteed for life

We're so confident about the way Bradford SoundScreen performs that we're willing to guarantee it for the life of your home - in writing - backed by CSR. Now that's peace of mind.

Contact:



To find out more about making your home more comfortable for your family, ask for a copy of our FREE SoundScreen demonstration DVD, or contact Bradford on 1300 850 305.