Peace and Quiet

New CSR Exterior SOUNDCONTROL dramatically reduces outside noise

Peace and quiet where you need it most

Most people want a home that is a haven of peace and quiet, an escape from the pressures of modern living. Sound control has become a critical issue in residential dwellings. Noise pollution from industry, transport and the neighbourhood is a fact of life in many houses, making it much harder to "wind down" and relax at home. It has even been implicated in sleep disorders and other health issues such as hypertension, heart disease and mental illness.

CSR Exterior SoundControl systems provide a solution which works with almost any home design to dramatically reduce external noise. Now it's possible to have a peaceful, quiet home.

To choose the right option for your circumstances and specify this to your builder, complete the four steps that follow. All the information you need to complete each step is in this brochure.

Top quality specialist products

CSR has been synonymous with high performance building materials for over half a century. All systems in the SoundControl range are constructed using top quality products readily available from major Australian manufacturing companies. Every CSR product complies with the relevant Australian Standards, so you can feel comfortable that your home is in safe hands.

4 easy steps

Step 1. Identify the major source of noise pollution that threatens your home: street traffic; motorway or freeway noise; rail traffic, aircraft noise; or neighbourhood noise (barking dogs, alarms, parties, lawn mowers, building renovations, air-conditioners etc).

Step 2. Identify the external noise level that you expect to experience in your home. For instance, neighbourhood noise pollution could range from light (air conditioners, swimming pools) to severe (loud parties, barking dogs, lawn mowers).

Step 3. Identify the building's construction type. CSR Exterior SoundControl systems can be used with the three most common construction types. These are:

Single brick veneer – This is a house frame with single bricks on the outside of the house only – no interior bricks.

Lightweight cement panel – This is becoming increasingly popular. It is the same as above, with cement panels replacing the brickwork.

Fibre cement façade – Exterior fibre cement sheet or panels over the house frame.

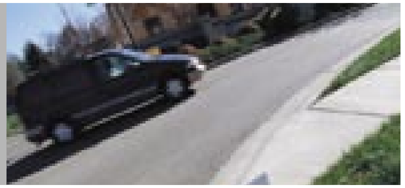
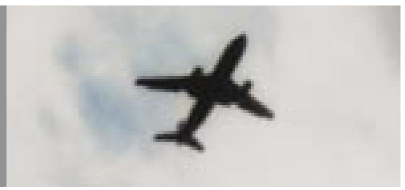
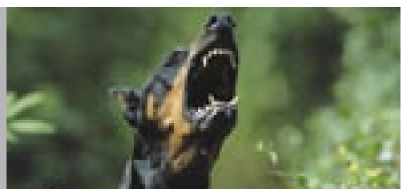
Step 4. Identify the system we recommend for you on the table on the left hand page.

You can take a look at your chosen SoundControl system and the products that you will need and then talk to your builder about creating a quiet, sound controlled home using the recommended system.

There's a sound control system that's perfect for your home

Steps 1 to 4: Identify your system

Choose the CSR Exterior SoundControl system that we recommend for your home.

		CONSTRUCTION TYPE		
Noise Problem	**Noise Level**	**PGH Single Brick Veneer**	**Hebel Cement Panel**	**Cemintel Fibre Cement Façade**
Street traffic 	Inner City	Brick Veneer System 2	Hebel System 2	N/A
	Noisy Suburban	Brick Veneer System 2	Hebel System 2	Cemintel System 2
	Moderate Suburban	Brick Veneer System 1	Hebel System 1	Cemintel System 1
Freeway 	Immediate (15m)	N/A	Hebel System 2	N/A
	Close (40m)	Brick Veneer System 2	Hebel System 2	N/A
	Nearby (100m)	Brick Veneer System 1	Hebel System 1	Cemintel System 2
Train 	Immediate (55m)	Brick Veneer System 2	Hebel System 2	N/A
	Close (150m)	Brick Veneer System 2	Hebel System 2	Cemintel System 2
	Nearby (300m)	Brick Veneer System 1	Hebel System 1	Cemintel System 1
Aircraft 	Close to airport	Brick Veneer System 2	Hebel System 2	N/A
	Moderate aircraft noise	Brick Veneer System 2	Hebel System 2	N/A
	Audible aircraft noise	Brick Veneer System 1	Hebel System 1	Cemintel System 2
Neighbourhood noise 	Severe	Brick Veneer System 2	Hebel System 2	N/A
	Moderate	Brick Veneer System 1	Hebel System 1	Cemintel System 2
	Light	Brick Veneer System 1	Hebel System 1	Cemintel System 1

The table above provides a general guide. individual site conditions will vary, so discuss your system selection with your builder.

SoundControl Systems

System Components	
1	Monier™ Horizon Roof Tiles
2	Bradford SoundScreen™ R2.5
3	1 x 10mm Gyprock Soundchek™ plasterboard direct fixed to frame
4	90mm Timber or Steel framing
5	1 x 10mm Gyprock Soundchek™ plasterboard direct fixed to frame
6	Trend® Awning Windows with 6.38mm laminated glass (Glazing max. 20% of wall area)
7	Bradford SoundScreen™ R1.6
8	PGH™ Sandstock bricks
9	Hume Lincoln™ solid core door (doors up to 5% of wall area)
10	Raven® RP10 Door Perimeter Seals
11	Raven® RP99 Door Bottom Seal
12	Concrete Slab Floor

Brick Veneer System 1

System Components	
1	Wunderlich™ Nullarbor Roof Tiles
2	Bradford EnviroSeal™
3	Bradford SoundScreen™ R3.0
4	2 x 10mm Gyprock Soundchek™ plasterboard fixed to resilient mount and furring channel system
5	90mm Timber or Steel framing
6	Trend® Awning Windows with 6.76mm double glazed laminated glass (Glazing max. 20% of wall area)
7	2 x 10mm Gyprock Soundchek™ plasterboard direct fixed to frame
8	Bradford SoundScreen™ R2.0
9	Bradford EnviroSeal™
10	PGH™ Ultra brick with Ultra Plus Render
11	Hume Ultimo™ solid core door (doors up to 5% of wall area)
12	Raven® RP47 Door Perimeter Seals
13	Raven® RP38 Door Bottom Seal
14	Concrete Slab Floor

Brick Veneer System 2

System Components	
1	Monier™ Horizon Roof Tiles
2	Bradford SoundScreen™ R2.5
3	1 x 10mm Gyprock Soundchek™ plasterboard direct fixed to frame
4	90mm Timber or Steel framing
5	1 x 10mm Gyprock Soundchek™ plasterboard direct fixed to frame
6	Trend® Awning Windows with 6.38mm laminated glass (Glazing max. 20% of wall area)
7	Bradford SoundScreen™ R1.6
8	Hebel PowerPanel™ Wall System
9	Hume Lincoln™ solid core door (doors up to 5% of wall area)
10	Raven® RP10 Door Perimeter Seals
11	Raven® RP99 Door Bottom Seal
12	Concrete Slab Floor

Hebel System 1

CSR has been synonymous with high performance building materials for over half a century. All systems in the SoundControl range are constructed using top quality products readily available from major Australian manufacturing companies. Every CSR product complies with the relevant Australian Standards.

Gyprock® Soundchek™

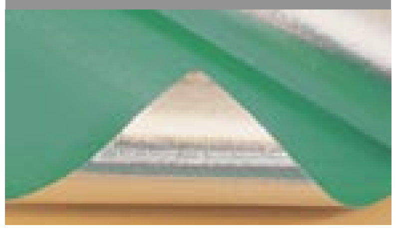
A 10mm thick, high-density, sound resistant plasterboard for wall and ceiling systems. Can be used in combination with resilient mounts and insulation batts.

Bradford Soundscreen™

Insulation made from highly effective, acoustically optimised rockwool. Soundscreen also provides outstanding thermal insulation.

Bradford Enviroseal™

Foil products designed to provide acoustic deflection and insulation to protect the inside environment from the outside climate. Also provides dust exclusion, fire safety and weatherproofing.

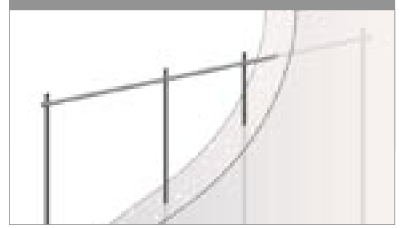


Cemintel™ Residential ExpressWall

8mm fibre cement sheeting with regular expressed sealed joints. Combine with standard domestic framing to create a lightweight wall system.

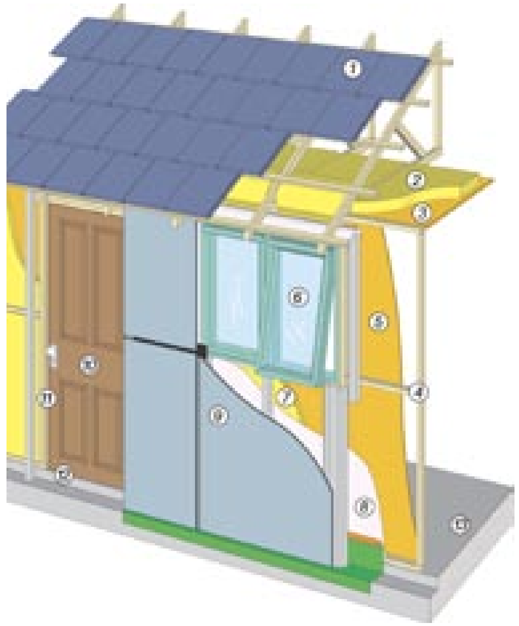
Hebel Powerpanel™

75mm reinforced panels made from autoclaved aerated concrete. Has good acoustic insulation properties and is lightweight and versatile, with excellent thermal and fire resistant properties.



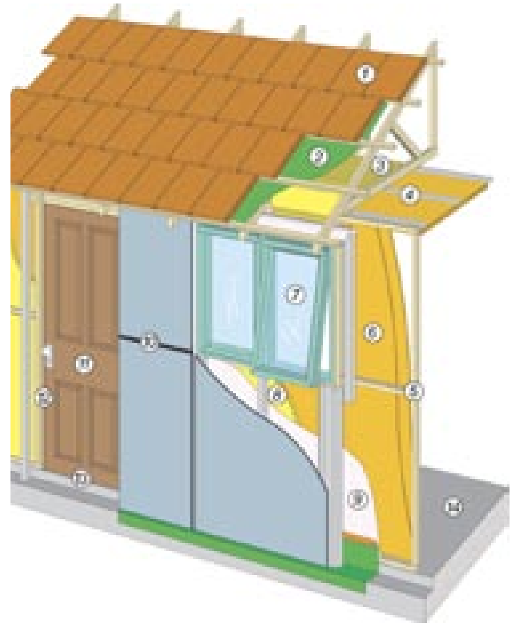
Hebel System 2

System Components	
1	Wunderlich™ Nullarbor Roof Tiles
2	Bradford EnviroSeal™
3	Bradford SoundScreen™ R3.0
4	2 x 10mm Gyprock Soundchek™ plasterboard fixed to resilient mount and furring channel system
5	90mm Timber or Steel framing
6	2 x 10mm Gyprock Soundchek™ plasterboard direct fixed to frame
7	Trend® Awning Windows with 6.76mm double glazed laminated glass (Glazing max. 20% of wall area)
8	Bradford SoundScreen™ R2.0
9	Bradford EnviroSeal™
10	Hebel PowerPanel™ Wall System
11	Hume Ultimo™ solid core door (doors up to 5% of wall area)
12	Raven® RP47 Door Perimeter Seals
13	Raven® RP38 Door Bottom Seal
14	Concrete Slab Floor



Cemintel System 1

System Components	
1	Monier™ Horizon Roof Tiles
2	Bradford SoundScreen™ R2.5
3	1 x 10mm Gyprock Soundchek™ plasterboard direct fixed to frame
4	90mm Timber or Steel framing
5	1 x 10mm Gyprock Soundchek™ plasterboard direct fixed to frame
6	Trend® Awning Windows with 6.38mm laminated glass (Glazing max. 20% of wall area)
7	Bradford SoundScreen™ R1.6
8	DuPont Tyvek HomeWrap™
9	Cemintel Residential ExpressWall™ system
10	Hume Lincoln™ solid core door (doors up to 5% of wall area)
11	Raven® RP10 Door Perimeter Seals
12	Raven® RP99 Door Bottom Seal
13	Concrete Slab Floor



Cemintel System 2

System Components	
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PGH Bricks

PGH Sandstock bricks are dense, quality-controlled bricks with outstanding acoustic properties. For a rendered finish, choose PGH Ultra – a high-density acoustic clay block.

Monier™ and Wunderlich™ roof tiles

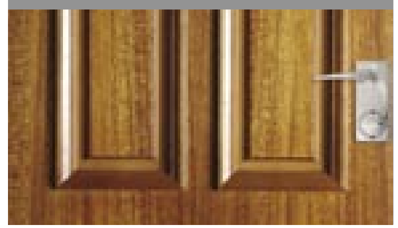
The ultimate noise-reducing terracotta tile. The Nullarbor sits flat in a cross-bond pattern with overlap and tolerance to minimize air gaps. The Horizon is a low profile concrete tile with generous overlap.

Trend® Windows

Awning style windows with a slim frame construction and round sash profile, using Pilkington Smart Glass® 6.38mm laminate or double glazing 6.76mm laminate glass that can be coloured or textured.

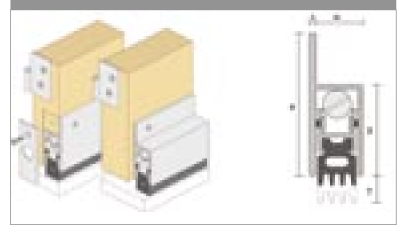
Hume Doors

Hume Doors & Timber, the largest Australian-owned timber door manufacturer, makes sound resistant doors solely from timber purchased from suppliers practicing responsible forest management.



Raven® Door Seals

Raven door seals are a highly effective contributor for minimising noise transmission. They are tested and proven in the field and laboratory against sound, weather, smoke and fire.

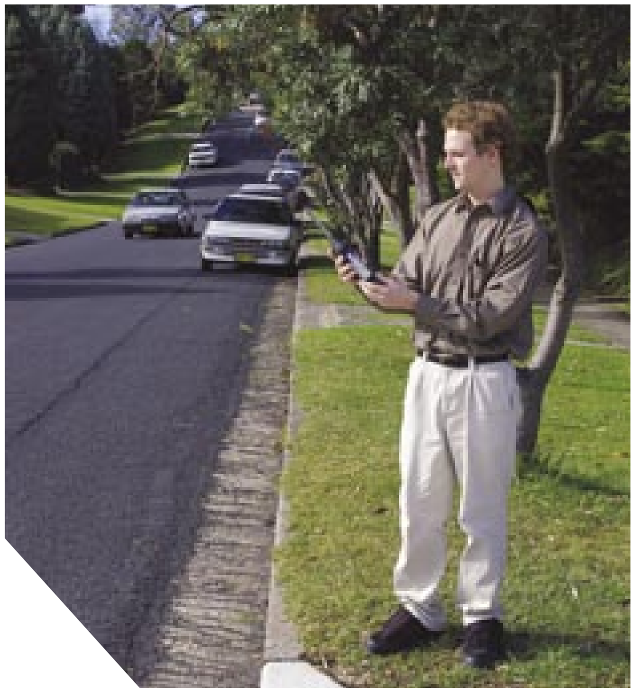


The proven sound solution

Each CSR Exterior SoundControl system has been thoroughly assessed by PKA Acoustic Consulting. This has involved testing the correctly configured systems over time – taking samples of the decibel level (loudness), pitch and direction in a range of conditions. These results were then compared with normal building materials.

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

CSR Exterior SoundControl systems have been found to not only meet Australian Standards, but to easily exceed them.



Measuring sound levels in a suburban street.

cemintel fibre cement systems

GYPROCK™

Bradford™ for smarter environments

MONIER™ Living in style.

WUNDERLICH™ The lasting beauty of terracotta

Hebel for future living lightweight wall & floor systems

PGH BRICKS & PAVERS

TREND® WINDOWS & DOORS

RAVEN®

HUME DOORS & TIMBER

Each of these companies provides a guarantee on the performance of their products. You can feel certain that the system you have installed can be relied upon for years to come.

For more information call the CSR Gyprock Enquiry Line on **1300 306 556**
or visit **www.gyprock.com.au** or **www.csr.com.au**

CSR

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