FREE DOWNLOAD

HOW TO SOLVE YOUR NOISE ISSUE

MODULARWALLS®

HOW TO SOLVE YOUR NOISE ISSUE

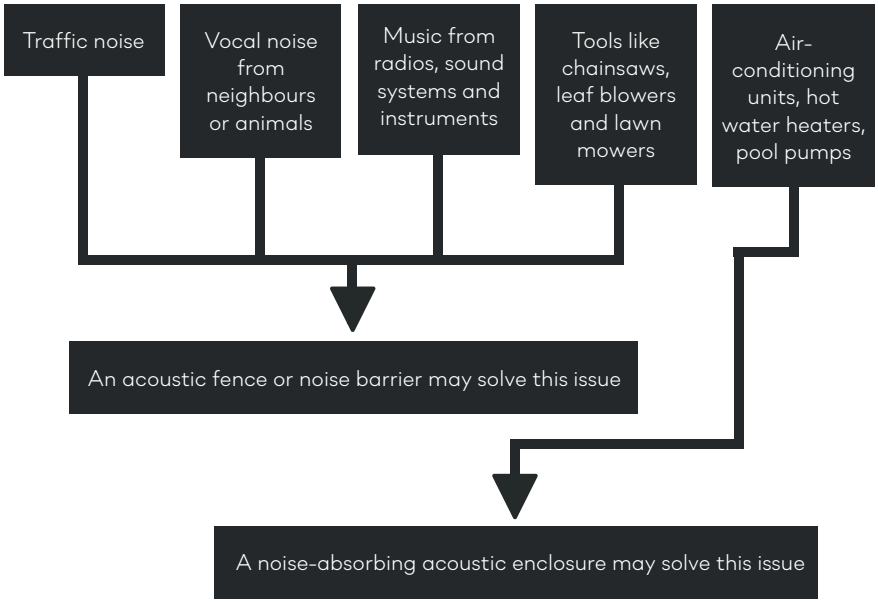
STEP ONE: IDENTIFYING YOUR NOISE SOURCE

To find the right noise reduction solution for your needs, you must first identify your noise source.

Tick which noise source you are most affected by:

- ☐ Traffic noise
- ☐ Vocal noise from neighbours or animals
- ☐ Music from radios, sound systems and instruments
- ☐ Tools like chainsaws, leaf blowers and lawn mowers
- ☐ Air-conditioning units, hot water heaters, pool pumps

Using the below chart, you can now map your noise issue to the appropriate solution:



STEP ONE: IDENTIFYING YOUR NOISE SOURCE

Understanding your noise type

It is also important to understand what types of noise can be reduced, and which cannot be.

Airborne noise is any noise travelling through the air, which acoustic fencing or acoustic enclosures can potentially take care of.

Impact noise is passed through materials – think of banging doors, scraping furniture, vibrations from loud music – which a fence may not do as much for.

STEP TWO: MEASURING YOUR NOISE ISSUE

So, we've now established the source and type of noise we need to reduce, as well as which solution offers the greatest potential of reducing that noise; that's a huge step forwards!

The next step is knowing what your noise reduction needs are, exactly. To find the perfect acoustic solution for you, it's really important to first measure the amount of noise you're dealing with, in decibels. This way, you can compare solutions and actually understand what sort of reduction you're looking at.

The easiest ways to measure noise are:

Smart Phone Apps

If you have a smart phone, you can easily download an app and measure noise that way. Simply open your App Store, search 'noise meter' and find an app that meets your needs; we recommended using the highest rated choices, even if they cost a few bucks!

Hire Or Buy A Noise Meter

You can also pop down to your local Kennards or tool rental company and hire a noise meter. Since it's such a specialist tool, we recommend hiring over buying.

Engage An Acoustic Engineer

If you're really overwhelmed or your noise issue is very challenging, you can also engage an acoustic engineer to evaluate your site.

STEP TWO: MEASURING YOUR NOISE ISSUE

When measuring your noise issue, ensure you take the following measurements:

1. Standing right next to the noise source.
2. Standing where your common outdoor living areas are.
3. Standing inside your home (only if you also experience the noise inside).

Enter your measurements in the fields below:

Standing right next to the noise source:	
Standing where your common outdoorliving areas are:	
Standing inside your home (only if you also experience the noise inside):	

How to use these measurements to find the right solution

An average home noise level is around 40 decibels, or 30 decibels for inside bedrooms whilst sleeping. So, if you're recording a noise meter reading of around 60dB, you need to aim for a 20dB reduction to achieve average noise levels again.

STEP 3: DESIGNING YOUR NOISE SOLUTION

Congrats; this is the final step needed to solve your noise issue. Grab a tape measure (or use the Measure app on your smart phone), find the cheat sheetyou need, pop in your information and invest in your peace and quiet today.

Traffic Noise
Solution: Noise Barrier

To effectively tackle traffic noise, the wall needs to be as close as possible to the road, providing a physical barrier between house and noise – if you live on the high side of road, you may need a taller wall.

Also, the closer you are to the noise wall, the better it'll perform; noise moves in straight lines for the first 10m, and then changes into vertical waves. However, the fence or wall can still be effective at 20-30m if you go higher.

What is your noise meter reading?:		
How far is **your house** from the road?:		m
How far is **your boundary line** from the road?:		m
How far is **your house** from the **boundary line closest** to the road?:		m
Are you on a high side of the road, low side of the road, or even with the road?:		
Using the above information, how high does your noise barrier need to be?:		m
How long does your noise barrier need to be?:		m

STEP 3: DESIGNING YOUR NOISE SOLUTION

Vocal noise (from neighbours or animals),
Music (from radios, sound systems and instruments)
and Tools (chainsaws, leaf blowers and lawn mowers).
Solution: Acoustic Fence

What is your noise meter reading?:		
How far is **your house** from the noise source?:		m
How far is **your boundary line** from the noise source?:		m
How far is **your house** from the **boundary line closest** to the noise source?:		m
Are you on a high side, low side or even with the noise source?:		m
How long does your acoustic fence need to be? If you need multiple boundaries fenced, please use total metreage:		m

Air-Conditioning Units, Hot Water Heaters, Pool Pumps
Solution: Noise-Absorbing Acoustic Enclosure

What is your noise meter reading?:		
What exactly is the noise source? :		
Is the noise source on your property? :		
How far is your house from the noise source?:		
Please enter the measurements of the item generating the noise:		
Height:		mm
Width:		mm
Depth:		mm

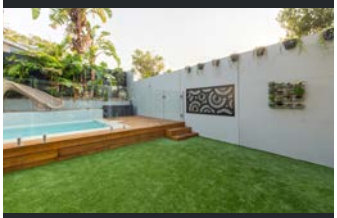
STEP 4: CALCULATE INSTANT ONLINE QUOTE ESTIMATES

Interested to see how much this project will cost? Get the answers you need to start drafting up a budget today.

Traffic Noise Barriers

Use the information in your booklet to use our Quick Quote Calculator; for traffic noise barriers, we recommend TrendWall, VogueWall or EstateWall.

TrendWall



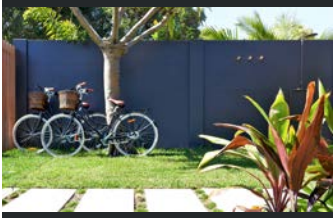
Panel thickness:
75mm

Post:
Aluminium
100mm x 100mm

Height:
Up to 3.0m

Retaining:
Retain up to 750mm with TerraFirm75 panel

VogueWall



Panel thickness:
75mm

Post:
Classic
250mm x 150mm

Height:
Up to 3.0m

Retaining:
Retain up to 750mm with TerraFirm75 panel

EstateWall

Panel thickness:
75mm

Post:
Classic
350mm x 235mm

Height:
Up to 3.0m

Retaining:
Retain up to 750mm with TerraFirm75 panel

STEP 4: CALCULATE INSTANT ONLINE QUOTE ESTIMATES

Acoustic Fencing

Use the information in your booklet to use our Quick Quote Calculator; for acoustic fences, we recommend SlimWall, SlimWall Aluminium or TrendWall.

SlimWall

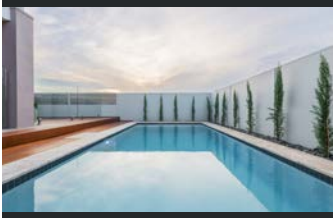
Panel thickness:
50mm

Post:
Aluminium
90mm x 90mm

Height:
Up to 2.4m

Retaining:
Retain up to 500mm with TerraFirm50 panel

SlimWall Aluminium

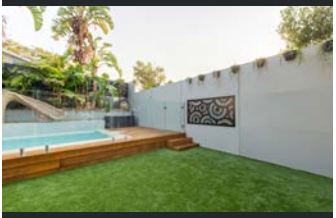


Panel thickness:
50mm

Post:
Aluminium
75mm x 75mm

Height:
Up to 2.1m

TrendWall



Panel thickness:
75mm

Post:
Aluminium
100mm x 100mm

Height:
Up to 3.0m

Retaining:
Retain up to 750mm with TerraFirm75 panel

Acoustic Enclosures

Let our team custom-design an AcoustiSorb acoustic enclosure for your noise issue.

Email this completed booklet to sales@modularwalls.com.au and they'll get back to you with some ballpark pricing.