

WAVEBAR[®]

Flexible Noise Barrier Range



WAVEBAR[®] flexible noise barrier is the easiest and most effective means to reduce noise through walls, floors and ceilings in buildings, automobiles, trucks, boats and ships. WAVEBAR provides ideal performance in muffling explosions and reduces environmental noise from jack-hammers, drilling rigs and pile drivers, even in open cut and tunnel mining operations.

WAVEBAR is a specially engineered material consisting of a mineral loaded polymer supported by a reinforcing fabric.

The limp, flexible nature of WAVEBAR, combined with its high mass, provides a resonance free barrier to both low and high frequency noise. The internal damping characteristics of WAVEBAR make it especially suited to use in stiff structures where coincidence and resonance effects are a concern.

WAVEBAR's excellent drapability and thin section, combined with ease of cutting and fixing add to its appeal in interlining applications in building applications.

WAVEBAR is supplied in a number of easy to use formats, allowing the utmost convenience in forming an effective barrier to low and high frequency noise, in most applications.

WAVEBAR is simply the most convenient, effective and easy to use noise barrier material available in the market. It can be used anywhere that noise needs to be stopped from travelling from one location to another. It can be hung from a temporary frame around noisy equipment or permanently fixed within a structure.



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FEATURES

- Available in a range of weights
 - 2, 4, 6, 8, 10kg/m²
- Easy to install, can be cut with scissors or a knife
- Easy to trim out and fabricate around pipe penetrations, ducting, cabling, studs and bearers.
- High Tensile Strength
- High Tear Strength
- Chemically resistant to oils, alkalis and acids
- Use for long vertical drops
- Can be nailed, screwed, sewn and taped
- Laminate to curved surfaces.
- Drapable
- Australian designed and made.

APPLICATIONS

- Exclusion of traffic and aircraft noises in homes, apartments and offices.
- Portable noise barrier screens
- Partition wall interlining
- Floor and Ceiling interlining
- Acoustic doors
- Soft enclosures for factory fans and machinery housings and enclosures.
- Strip curtains/drapes
- Vehicles and Marine vessels as flooring mats and engine curtains.
- Noise curtains for reduction of noise from jack-hammers, drilling rigs, blasting and pile drivers on building sites
- Mining barrier curtains

BENEFITS

- Low profile, high STC rating
- Low installation cost
- Incorporated thermal insulation in QUADZERO[®] variant.
- Versatility in installation method
- Variants to cover even the most demanding situations.
- Proven performance with excellent industry acceptance.

PRODUCT SELECTION

- Standard Colour – Dark Grey
- Weight: 2, 4, 6, 8 kg/m²

MISCELLANEOUS PROPERTIES

PROPERTY / PRODUCT	2kg	4kg	6kg	8kg
Specific Gravity (g/cm³) <Test Method>	2.2	2.2	2.2	2.2
Thickness mm* <Test Method>	1.6	2.0	2.5	3.5
Recommended Service Temperature (°C)	-10 to 80	-10 –to 80	-10 to 80	-10 to 80
Upper Intermittent Temperature Exposure (°C)	120	120	120	120
FMVSS-302	Complies	Complies	Complies	Complies
SAEJ369a	Complies	Complies	Complies	Complies
Sound Transmission Loss (dB) (T-tested; C-calculated) AS1276	T	T	T	T
100	8	10	16.8	21.1
125	7	11	18	19.7
160	14	15	16	20.5
200	15	16	19	19.4
250	17	17	18	20.6
315	20	20	21	22.4
400	23	20	21	24.5
500	23	22	25	25.3
630	21	24	26	26.5
800	17	25	28	27.9
1000	21	27	29	30.0
1250	21	28	31	31.7
1600	25	30	32	33.5
2000	27	32	34	35.4
2500	29	34	36	36.5
3150	30	36	38	38.4
4000	33	38	41	40.0
5000	35	40	43	41.6
STC	23	26	29	30
Rw <Test Method>	23 (C -1: C _{TR} -3)	26 (C-2: C _{TR} -5)	29 (C0: C _{TR} -3)	30 (C -1: C _{TR} -3)
Ceiling Attenuation Class (CAC)*	44	48	-	50

*CAC for No WAVEBAR ie. Ceiling Tiles only = 35 (Using Armstrong P/L ceiling tiles)
(Tested to: AS1191-1985 Reverberation Room)

CHEMICAL RESISTANCE

MATERIAL	ACETONE	MEK	PETROL	DIESEL	10% HCL SOLUT.	10% NaOH Solution	Carbon tetra-chloride
WAVEBAR	Swells*	Swells*	Good	Good	Good	Good	Swells

* Swells and then returns to normal on drying.

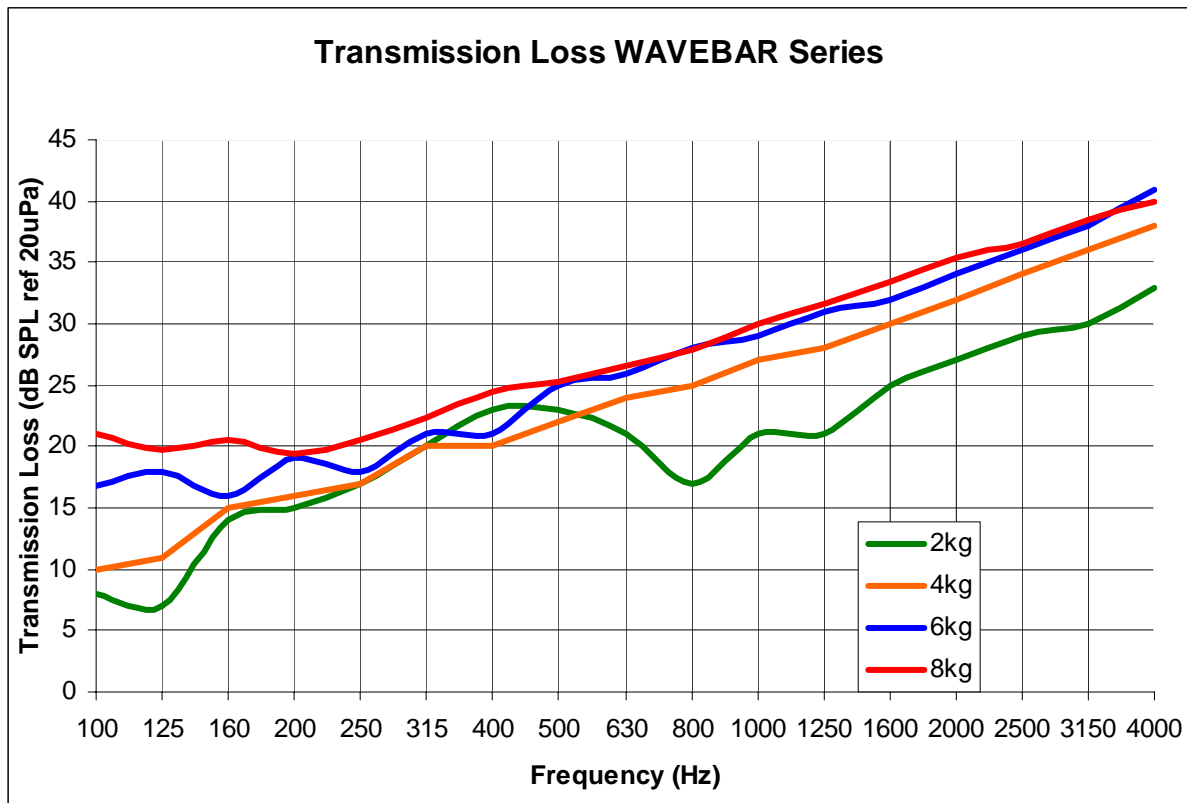
STANDARD PRODUCTS

STANDARD PRODUCT	THICKNESS	ROLL WIDTH	ROLL LENGTH	THICKNESS	ROLL DIAM.	WEIGHT
WAVEBAR 2kg	1.6mm	1380mm	10 lineal meters	1.6mm	200mm	28kg*
WAVEBAR 4kg	2.0mm	1380mm	5 or 10 lineal metres	2.0mm	200mm	56kg*
WAVEBAR 6kg	2.5mm	1380mm	5 lineal metres	2.5mm	200mm	42kg*
WAVEBAR 8kg	3.5mm	1380mm	5 lineal metres	3.5mm	200mm	52kg*

* Rolls above 25 kg require two persons to lift.

Dimensional Tolerance +/- 5%

Other weights available on request.



WARRANTY: The goods are warranted by the manufacturer against defective workmanship and materials. Its obligations pursuant to this express warranty being limited to the repair or replacement of the defective goods or materials as its option. Services supplied by the company are expressly warranted to be rendered with due care and skill. To the extent permitted by law, all implied conditions and warranties, other than those implied by the Trade Practices Act, are expressly excluded.

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NOTES: Specifications are subject to change without notice.

The data listed in this data sheet are typical or average values based on tests conducted by independent laboratories or by the manufacturer. They are indicative only of the results obtained in such tests and should not be considered as guaranteed maximums or minimums. Materials must be tested under actual service to determine their suitability for a particular purpose.

The conclusions drawn from acoustic test results are as interpreted in writing by qualified independent testing authorities. Even so always seek the opinion of your own acoustic engineer as to the meaning of any data presented by the manufacturer as it is applied to any given project or use.

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