

NOISE CONTROL PRODUCTS

TL - Sound Transmission Loss (dB)
Sound Absorption Coefficients (α)
NR - Noise Reduction / IL - Insertion Loss (dB)

SONIC PANELS (Acoustic Lining, Enclosures and Noise Barriers)

Product	Frequency Bands (Hz)								R _w (C;Ctr) dB	NRC	TEST
	63	125	250	500	1K	2K	4K	8K			
225	-	13	15	19	27	38	48	-	24 (0;3)	-	*
	-	0.50	0.60	0.70	0.60	0.60	0.65	-	-	0.8	*
V50	-	16	19	27	39	45	50	-	31 (-1;-5)	-	*
	-	0.25	0.35	0.5	0.7	0.9	1	-	-	1.0	*
V100	-	17	24	40	48	47	51	-	37 (-2;-7)	-	*
	-	0.8	0.85	1	1	1	1	-	-	1.1	*
Super Panel	-	23	36	45	52	53	53	-	47 (-3;-8)	-	*
	-	0.25	0.35	0.5	0.7	0.9	1	-	-	1.0	*

SONIC WALL (Acoustic Enclosures and Noise Barriers)

Product	Frequency Bands (Hz)								R _w (C;Ctr) dB	TEST
	63	125	250	500	1K	2K	4K	8K		
Wall	-	22	24	27	18	45	52	-	28 (-3;-4)	*

SONIC CURTAINS (Temporary Noise Barriers and Enclosures – Clear PVC Strips Curtains)

Product	Frequency Bands (Hz)								R _w (C;Ctr) - Noise Reduction dB	NRC	TEST
	63	125	250	500	1K	2K	4K	8K			
Sonic Curtain 6Kg/m ²	15	17	21	25	32	40	45	-	30 (-1;-4)	-	*
	-	0.26	0.49	0.79	0.85	0.85	0.9	-	-	0.75	*
Sonic Curtain 4Kg/m ²	12	15	17	21	29	36	43	-	27 (-1;-4)	-	*
	-	0.26	0.49	0.79	0.85	0.85	0.9	-	-	0.75	*
	1-3	5	4-6	7-11	13-14	22-26	22-23	26-30	21-29	-	*
Quilt	-	0.26	0.49	0.79	0.85	0.85	0.9	-	-	-	*
	1-2	3	4-7	5-8	9-11	20-22	23-25	25-27	13-24	-	*
Acoustic Tent	2-3	2-3	4-7	6-9	9-11	20-22	23-24	24-27	12-24	-	*
C. Sheet 2mm	-	8	13	14	18	18	19	-	17 (0;-1)	-	*
C. Strips 3mm	-	10	15	17	19	20	20	-	19 (-1;-2)	-	*
C. Strips 4mm	-	11	17	18	18	20	21	-	19 (0;-1)	-	*

ACOUSTIC DOORS

Product	Frequency Bands (Hz)								R _w (C;Ctr) dB	TEST
	63	125	250	500	1K	2K	4K	8K		
Access Single	14	31	41	42	47	47	49	-	46 (-1;-4)	*
Access Double	18	35	41	42	45	46	49	-	45 (-1;-3)	*
Access Rw 52	-	41	46	50	52	53	55	-	52 (-1;-3)	*

ACOUSTIC LOUVRES

Product	Frequency Bands (Hz)								Noise Reduction dB	TEST
	63	125	250	500	1K	2K	4K	8K		
100	-	10	11	14	18	22	21	-	Freq. Dep.	*
200	-	10	12	16	20	21	19	-		*
300	-	10	12	20	26	33	34	-		*
AAL300	9	11	12	17	24	26	24	21		*
200 chevron	-	11	12	21	26	34	34	-		*
400 chevron	-	10	17	24	29	33	31	-		*
600 chevron	-	10	15	24	32	31	29	-		*
AAL600	13	15	18	26	37	42	39	37		*

ATTENUATORS (NR values on demand)

FLOOR UNDERLAYS (Impact Noise)

Product	Thickness	ΔL_w (dB) EN ISO 140-8	$L'_{nT,w}$ (dB) EN ISO 140-7*	TEST
Ethafoam 2222	5	20	52	*
8/4	8	24	-	*
10/5	10	25	-	*

* Reference Floor System: 65mm sand cement screed / 5mm Ethafoam 2222 underlay / 150mm hollow slab (300Kg/m² surface mass)

VIBROACOUSTIC CONTROL ISOLATION

All sort of products for the residential, commercial and industrial applications:

- Spring steel isolators
- Metallic Steel isolators for suspension
- Rubber pads and absorbers
- Rubber plates
- Vibration proof supports
- Elastic supports
- Silentblocks
- Antivibratory muffers
- Concrete or floating benches/floors (including self-rising)

TECHNICAL SPECIFICATIONS

SONIC PANELS

Pre-fabricated panels easy to install/disassemble and to cut to any size. Panels' 'clip together' system and steel capping profiles ensure no noise leakage. Depending on the model the balance between reverberation control and the sound proofing rating will be different.

Made in 0.7mm solid and/or 0.5mm perforated (37% open area) steel and between 25mm to 100mm overall thickness with rock wool 70kg/m³ insulation within the cavity.

SONIC WALL

Pre-fabricated walls with boltless Centralok™ system ensuring easy and speed of assembly. Fully customisable. Smooth stylish 6mm thick fibre cement finish in both sides and solid polystyrene insulation in between. Overall thickness: 75mm

SONIC CURTAINS

Different mass loaded materials ensure optimum Transmission Loss and on field tested Noise Reduction or Insertion Loss for all the models. An acoustic absorptive side (NRC 0.75) helps to reduce sound pressure levels and unwanted reflections/diffractions. Fixing features and sizes for an easy install to i.e standard construction fences. Fully customised if needed.

Strip curtains models ensure high acoustic performance, transparency and easy pass throughout.

ACOUSTIC DOORS

Sizes and features (i.e personal access) fully customisable and ready to install all purposes acoustic doors.

ACOUSTIC LOUVRES and ATTENUATORS

Acoustic louvres with standard pregalvanized steel or fully customisable materials and finishes (with designed Noise Reductions) and silencers (Noise Reductions on demand). All models ensure minimum pressure drop to not compromise mechanical requirements.

NOTE: NATA or field tests and 1/3 octave band values available upon request

ROOM ACOUSTICS PRODUCTS

TL - Sound Transmission Loss (dB)
Sound Absorption Coefficients (α)
Equivalent Sound Absorption Area (m ²) Objects

INDUSTRIAL – OUTDOORS ACOUSTIC ABSORPTION

Product	Frequency bands (Hz)								R _w (C;Ctr) dB	NRC	TEST
	63	125	250	500	1K	2K	4K	8K			
20mm	-	0.04	0.15	0.65	0.95	0.9	0.85	-	-	0.65	*
25mm	-	0.05	0.2	0.7	1	0.95	0.9	-	-	0.7	*
30mm	-	0.05	0.25	0.8	1	0.95	0.9	-	-	0.75	*
40mm	-	0.15	0.6	1	1	1	0.85	-	-	0.9	*
50mm	-	0.2	0.75	1	1	1	0.9	-	-	0.95	*
	-	6	8	14	11	14	27	-	13 (0;-2)		

OFFICE – FIT OUT – RETROFITTING ACOUSTIC ABSORPTION

Product	Frequency bands (Hz)								R _w (C;Ctr) dB	NRC	TEST
	63	125	250	500	1K	2K	4K	8K			
Avenue Interior Systems	63	125	250	500	1K	2K	4K	8K	R _w (C;Ctr) dB	NRC	TEST
ECOStrong	-	0.5	0.65	0.75	0.9	0.9	0.8	-	-	0.75	*
EcoWall	-	0.45	0.6	0.65	0.75	0.8	0.7	-	-	0.75	*
ECOflex	-	0.17	0.33	0.6	0.91	1.07	1.39	-	-	N.A.	*
ECOdesk	-	0.41	0.89	1.36	1.82	2.1	2.16	-	-	N.A.	*

More info: www.avenueis.com.au

TECHNICAL SPECIFICATIONS

INDUSTRIAL PRODUCTS

Lightweight (25 Kg/m³), flame retardant and 30 Kg/m² UV protected) polyethylene based product is the most versatile outdoors acoustic absorbent product. Easy to cut, shape, install and with outstanding acoustic performance.

The ideal product for water (including chlorine), humid and dusty environments.

Light can pass through helping to create unique design spaces.

AVENUE INTERIOR SYSTEMS PRODUCTS

Thermo bonded polyester product with a variety of room acoustics performances, colours and shapes to suits all purposes and needs.

Easy and secure hanging or supporting fittings have been designed allowing you also fast relocations when needed.

New office fitouts, retrofitting, educational and residential buildings are just some of the endless possibilities.

