TECHNICAL
DATA SHEET

LOADED VINYL BARRIER

FLEXIBLE MASS-LOADED VINYL NOISE BARRIER

Product description and typical applications

Loaded Vinyl Barrier is a high-performance, flexible mass-loaded vinyl noise barricade, offering superior acoustic transmission loss. It is specifically developed to meet market requirements for reducing noise in domestic, commercial, industrial and automotive markets. Loaded Vinyl Barrier prevents coincidence dip resonance. The dense core mass layer reflects and absorbs the transmission of sound through walls, ceilings and floors, reducing the critical frequencies generated from mechanical equipment, engine noise and electronic audio technologies such as radio and television. Foil Faced Loaded Vinyl Barrier provides improved fire resistance.

Loaded Vinyl Barrier is easy to cut and fabricate around pipe penetrations, ducting and cabling. It has a high tensile strength and is highly resistant to tearing, thereby enabling long vertical drops in applications requiring a noise barrier where space is limited.

Physical characteristics

Barrier weight kg/m²	Thickness mm	K-value	Roll width mm	Roll length m	Roll weight kg	Ceiling Sound Transmission Test AMA-1-II-1967 (CSTC)	Operating temperature range °C
2	1.2	0.49 (Report No. 09/1182)	1350	10	27	44 (Report No. A-22104-0228)	- 40 to 100 (Continuous) 40 to 120 (Intermittent)
4	2.0			5 or 10	27-54	48 (Report No. A-22104-0228)	
6	3.0			5	41	-	
8	4.0			5	54	50 (Report No. A-22104-0228)	
10	4.9			5	68	-	

Tolerances: Length: -0 /+50mm; Width: - 0 /+5mm; Thickness: +/- 0.5mm; Weight: +/- 5%

Zero Ozone Depletion

Loaded Vinyl Barrier contains no ozone-depleting substances and complies with European and Australian standards for Volatile Organic Compound emissions.

Fletcher® Insulation

Building Better, Together.

Indicative acoustic performance

Frequency (Hz)	2 kg/m²	4 kg/m²	6 kg/m²	8 kg/m²	10 kg/m²
100	3.80	6.80	10.60	13.30	18.90
125	6.44	10.76	13.33	16.19	19.30
160	10.23	14.66	19.41	22.55	22.60
200	9.83	14.05	17.33	20.51	23.40
250	12.03	15.95	19.03	22.29	25.20
315	13.24	17.93	20.23	23.16	26.10
400	14.75	19.66	21.84	25.00	28.10
500	15.79	20.61	23.09	25.99	29.30
630	17.81	22.55	25.69	28.58	30.50
800	19.99	24.99	27.20	30.09	32.30
1000	21.70	26.61	29.63	32.66	34.90
1250	22.71	27.58	30.29	33.43	35.70
1600	23.92	28.50	31.08	34.09	36.40
2000	25.62	30.41	32.87	35.86	38.40
2500	27.70	32.11	34.80	37.56	40.40
3150	29.87	34.26	37.05	39.74	42.70
4000	32.19	36.67	39.28	42.06	45.70
5000	34.60	39.00	41.90	45.00	48.70
Rw	21.00	25.00	28.00	31.00	34.00
STC	21.00	26.00	28.00	31.00	34.00

(Tested at University of Canterbury in accordance with ISO 15186-1 / ISO 10140-4) (Report No.189 Issue 1). Test results based on Loaded Vinyl Barrier without a foil facing.

Flammability properties

Test Method	Index	Results	Description
AS 1530.3 1999 (Report No. 7-526320-CN)	Ignitability Spread of Flame Heat evolved Smoke Developed	0 0 0 1	Method for fire tests on building materials, components and structures.
AS/NZS 3837 ISO 5660-1(Report No. FT5197-TT)	Group Certification	Group 3	Test for heat & smoke release rates for materials & products using an oxygen consumption calorimeter.
BS 6853 Annex B2 (Report No. 2974/R1)	"R" value	R 0.050	Fume measurement test.
BS 6853 Annex D 8.6 (Doc No 195349 Issue: 2)	Ao(max)	Cat 1b	Smoke density test.
BS476 part 7 (Report No. 184498 Issue: 2)	Class1, Class2, Class3	Class 1	Classification of the surface spread of flame.
DIN 5510-2 (Report No. AJD201206359)	S1 to S5/not awarded, SR1, SR2/ ST1 or ST2	S3/SR2/ST2	Flammability Class Smoke/Development Class/ Dripping Class.
DIN 5510-2 Annex C (Report No. AJD201206704)	FED	Pass	Toxicity (FED) requirement of FED≤1.
FMVSS-302 (Report No. 02313BD8)	Burn Rate - mm/min	SE	Automotive burn rate test.

Test results based on Foil Faced Loaded Vinyl Barrier.

Specification notes

The material shall be Fletcher Insulation Loaded Vinyl Barrier __kg/,² (specify optimal barrier weight).

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