

QUADZERO™ LOADED VINYL BARRIER FOIL FACED FLEXIBLE NOISE BARRIER

Description

Quadzero™ Loaded Vinyl Barrier is a high-performance, foil faced, mass-loaded vinyl noise barrier, offering superior acoustic transmission loss and low spread of flame surface covering. It is dense, thin, highly-flexible, tear-resistant and strong, specifically designed to meet market requirements for reducing noise. 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.

Application

Quadzero™ Loaded Vinyl Barrier is suitable for the following applications:

- Inside cavities or over lightweight wall, ceiling and floor constructions, ideal for home theatres, office partitions and meeting rooms.
- Over roof joists to reduce aircraft, rail and traffic noise.
- Applied between the plenum chamber of a floor slab, roof and adjoining partition walls.
- Installed around the outside of metal air ducts to reduce noise break-out.
- Wrapped around noisy pipes, valves and fan casings e.g. fluid or gas pulsation in chemical, petrochemical and waste water treatment plants.
- Automotive firewalls to reduce engine and road noise transmitting through the structure.
- Rail carriages for under floor insulation to reduce track and braking noise.

Product Data

Barrier weight kg/m ²	Thickness mm	K-value W/mK	Roll width mm	Roll length m	Roll weight kg	Ceiling Sound Transmission Test AMA-1-II-1967 (CSTC)	Operating temperature range °C	Product Code
4	2.0	0.49 (Report No. 09/1182)	1350	5	27	48 (Report No. A-22107-0228)	-40 to 100 (Continuous 40 to 120 Intermittent)	330014
6	3.0			5	41	—		330006
8	4.0			5	54	50 (Report No. A-22114-0228)		330008

Tolerances: Length: -0 /+50mm; Width: - 0 /+5mm; Thickness: +/- 0.5mm; Weight: +/- 10%

Fire Hazard Properties

Quadzero™ Loaded Vinyl Barrier exhibits the following characteristics when tested in accordance with the following standards:

Property	Test Method/Standard	Result
Early Fire Hazard Indices Ignitability Index Spread of Flame Index Heat Evolved Index Smoked Developed Index	AS 1530.3 (Report No. 7-530659-CN)	0 0 0 0-1
Weighted summation of toxic fume	BS 6853 Annex B2 (Report No. 2974/R1)	R 0.050
Smoke Density	BS 6853 Annex D 8.6 (Report No. 377170)	Cat 1b
Lateral surface spread of flame	BS476 part 7 (Report No. 377171)	Class 1

Acoustic Performance

Frequency (Hz)	4 kg/m ²	6 kg/m ²	8 kg/m ²
100	6.8	11.6	13.3
125	10.8	13.8	16.2
160	14.7	17.3	22.6
200	14.1	17.2	20.5
250	16.0	18.7	22.3
315	17.9	20.4	23.2
400	19.7	22.7	25.0
500	20.6	24.1	26.0
630	22.6	26.1	28.6
800	25.0	27.7	30.1
1000	26.6	30.2	32.7
1250	27.6	30.3	33.4
1600	28.5	31.2	34.1
2000	30.4	33.6	35.9
2500	32.1	35.4	37.6
3150	34.3	37.7	39.7
4000	36.7	40.6	42.1
5000	39.0	43.3	45.0
Rw	25.0	28.0	31.0
STC	26.0	28.0	31.0

(Tested at University of Canterbury in accordance with ISO 15186-1 / ISO 10140-4) Report numbers: 261C, 262C, 263C, 264C & 265C.

Environmental Properties

Quadzero™ Loaded Vinyl Barrier contains no ozone-depleting substances and comply with European and Australian standards for Volatile Organic Compound (VOC) emissions.

Technical Specification

When specifying, state the following:

The material shall be Fletcher Insulation Quadzero™ Loaded Vinyl Barrier _____kg/m² (specify optimal barrier weight).

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