

# Technical DATA SHEET

## QUADZERO WAVEBAR MASS LOADED NOISE BARRIER

### Product Description

Quadzero is a high-performance, foil faced, mass-loaded vinyl noise barrier, offering superior acoustic transmission loss and low spread of flame surface covering. Quadzero was developed to meet market noise reduction requirements in the domestic, commercial, industrial and OEM sectors. Quadzero is dense, thin, strong, tear-resistant and highly flexible, which provides high transmission loss throughout the various weight ranges. Quadzero products contain no ozone-depleting substances.

### Typical Applications

- Inside cavities or over lightweight wall, ceiling and floor constructions. Ideal for home theatres, office partitions, 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 eg. fluid or gas pulsation in chemical, petrochemical and waste water 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.

### Physical Characteristics

Weight	Roll size	m <sup>2</sup> per roll
2kg/m <sup>2</sup>	1350 x 10 m	13.5
4kg/m <sup>2</sup>	1350 x 5 m	6.75
6kg/m <sup>2</sup>	1350 x 3 m	4.05
8kg/m <sup>2</sup>	1350 x 3 m	4.05
10kg/m <sup>2</sup>	1350 x 5 m	6.75

### Early Fire Hazard Properties

Quadzero achieves the following results when tested in accordance with AS1530.3:

Ignitability Index	0
Spread of Flame Index	0
Heat Evolved Index	0
Smoke Developed Index	0-1

BS476 part 7 (Surface Spread of Flame) – Class 1

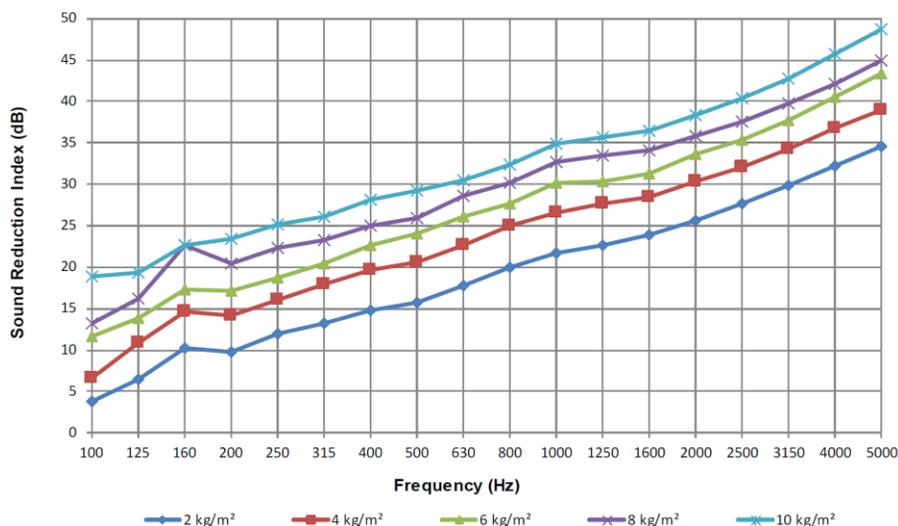
AS 5637.1 (AS 3837 / ISO5660-1) Fire Hazard Properties – Class 3

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## Acoustic Performance

The below table and graph contain the sound reduction index in decibels (dB) for the various mass Quadzero products.

Frequency (Hz)	2 kg/m <sup>2</sup>	4 kg/m <sup>2</sup>	6 kg/m <sup>2</sup>	8 kg/m <sup>2</sup>	10 kg/m <sup>2</sup>
100	3.8	6.7	11.6	13.3	18.9
125	6.4	10.8	13.8	16.2	19.3
160	10.2	14.7	17.3	22.6	22.6
200	9.8	14.1	17.2	20.5	23.4
250	12.0	16.0	18.7	22.3	25.2
315	13.2	17.9	20.4	23.2	26.1
400	14.8	19.7	22.7	25.0	28.1
500	15.8	20.6	24.1	26.0	29.3
630	17.8	22.6	26.1	28.6	30.5
800	20.0	25.0	27.7	30.1	32.3
1000	21.7	26.6	30.2	32.7	34.9
1250	22.7	27.6	30.3	33.4	35.7
1600	23.9	28.5	31.2	34.1	36.4
2000	25.6	30.4	33.6	35.9	38.4
2500	27.7	32.1	35.4	37.6	40.4
3150	29.9	34.3	37.7	39.7	42.7
4000	32.2	36.7	40.6	42.1	45.7
5000	34.6	39.0	43.3	45.0	48.7
R <sub>w</sub>	21	25	28	31	34
STC	21	26	28	31	34



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