

CERTIFICATION

Structural Performance

Matrix Industries MB-01 and MB-04 Acoustic Wall Ties are designed for use in double leaf masonry cavity walls. The ties are designed to reduce structure borne, air borne and impact noise in masonry walls constructed from brick, concrete and AAC blocks.

MB-01 ties are for engagement in the mortar joint of each leaf of a double masonry wall.

MB-04 are for engagement in the mortar joint of one leaf and face fixed to the second leaf of a double masonry wall.

Matrix Industries double leaf stainless steel wall ties were tested by the CSIRO in accordance with AS/NZ 2699.1:2000 (Built-in components for masonry construction – Part 1: Wall Ties) and evaluated using the performance requirements of Australian Standard AS 3700 – 1998 (Masonry Structures).

Certification: The ties satisfy the requirements of AS 3700 for Medium Duty classification at a nominal cavity width of 50mm.

Minimum characteristic strength: 0.40 kN in tension, 0.48 kN in compression
Maximum cavity width for 50mm embedment: 100mm
Spacing: 600 x 600 mm (generally)

Acoustic Performance

Matrix Industries MB-01 double leaf wall ties were field tested to assess the noise reduction. The acoustic consultant's report stated, "The measured difference between non-isolated [46dB(A)] and the isolated rooms [37dB(A)] is 9dB(A)." A summary showing sound pressure levels (SPL) at one third octave bands is available.



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