



ACM 18 SOUND INSULATION PANEL



ACM 18 Sound insulation panel

Van Styn Rijnwoude BV introduces the ACM 18 sound insulation panel.
ACM 18 is an engineered cork, rubber and EVA composite material.

Technical info

- The construction of the tested panel is 8 mm Okoume plywood – 6 mm ACM 18 – 8 mm Okoume plywood
- ACM 18 is available in thickness of 4 mm and 6 mm.
- The weight of the ACM 18 is approximately 965 kg/m³.
- This panel has a very good damping effect and RW value in comparison with an equivalent product.
- The effect of the damping loss factor is shown in the test results.
- Construction is also possible with poplar ply instead of okoumé.

Applications

Floors and walls.

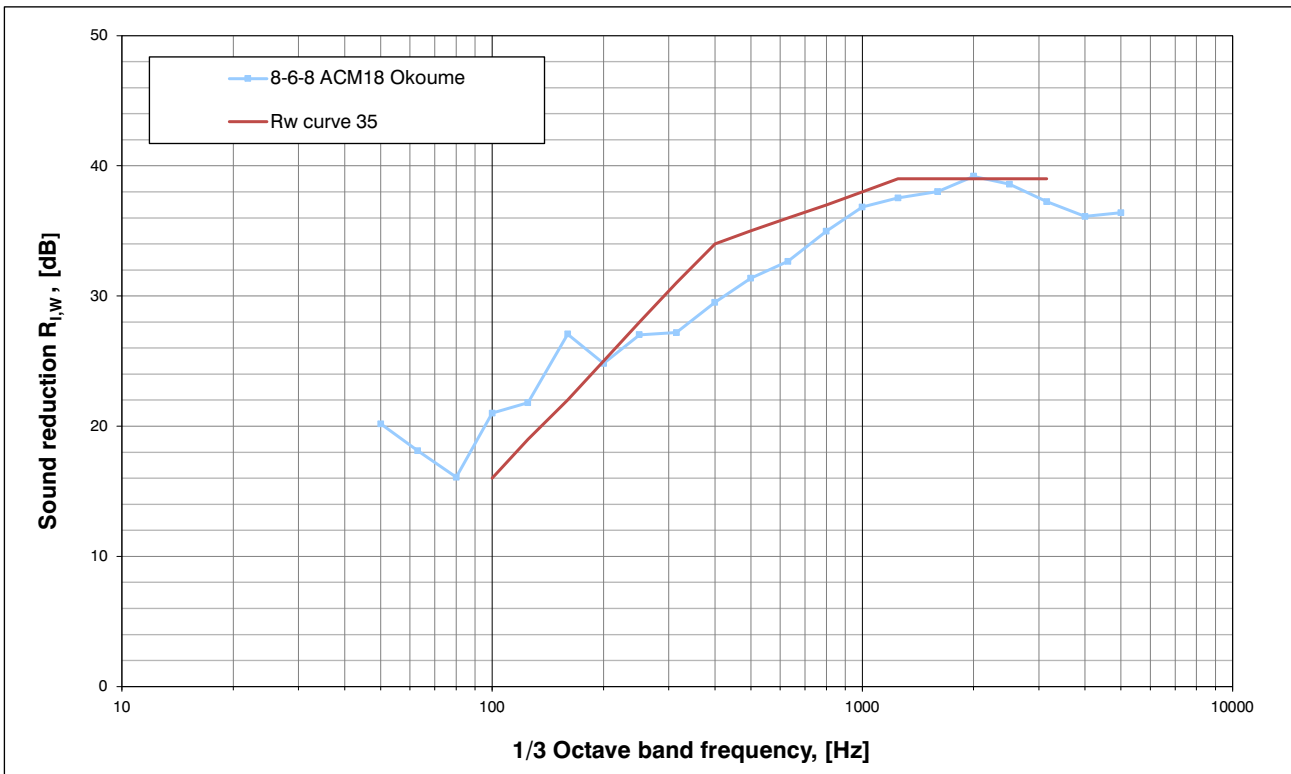


Test results

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Test specimen area : 0.60 m²
 Volume Receiver Room : ~26 m³

Thickness : 22 mm
 Weight : kg



Frequency, f [Hz] 1/3 Octave Band

50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
20.2	18.1	16.1	21.0	21.8	27.1	24.8	27.0	27.2	29.5	31.4	32.7	35.0	36.8	37.5	38.0	39.2	38.6	37.2	36.1	36.4

Reduction, [dB]

Note: In theory the sound reduction index determined using the traditional measurement method (ISO 140-3) is overestimated due to the fact that the sound power radiated into the receiving room is underestimated. To account for this fact, if the aim of the intensity measurements is to simulate measurements according to ISO 140-3, the intensity sound reduction index should be modified by: $R_{i,M} = R_i + K_c$
 K_c is a correction factor based on the volume and total surrounding area in the receiving room used for the standard ISO 140-3 measurements

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