

Airborne sound insulation according to UNE-EN ISO 140-3

Applicant: PUERTAS CORTAFUEGO DE MADERA, S.L.

Tested sample:

Wooden door referenced as PUERTA N° 2 Ei 60, based on MDF boards, cork panels and chipboard boards.

The connection between frame and leaf is covered from the bottom hinge to the telescopic weatherseal with a strip of approximately 10 x 5 cm (length x width) of high density synthetic film.

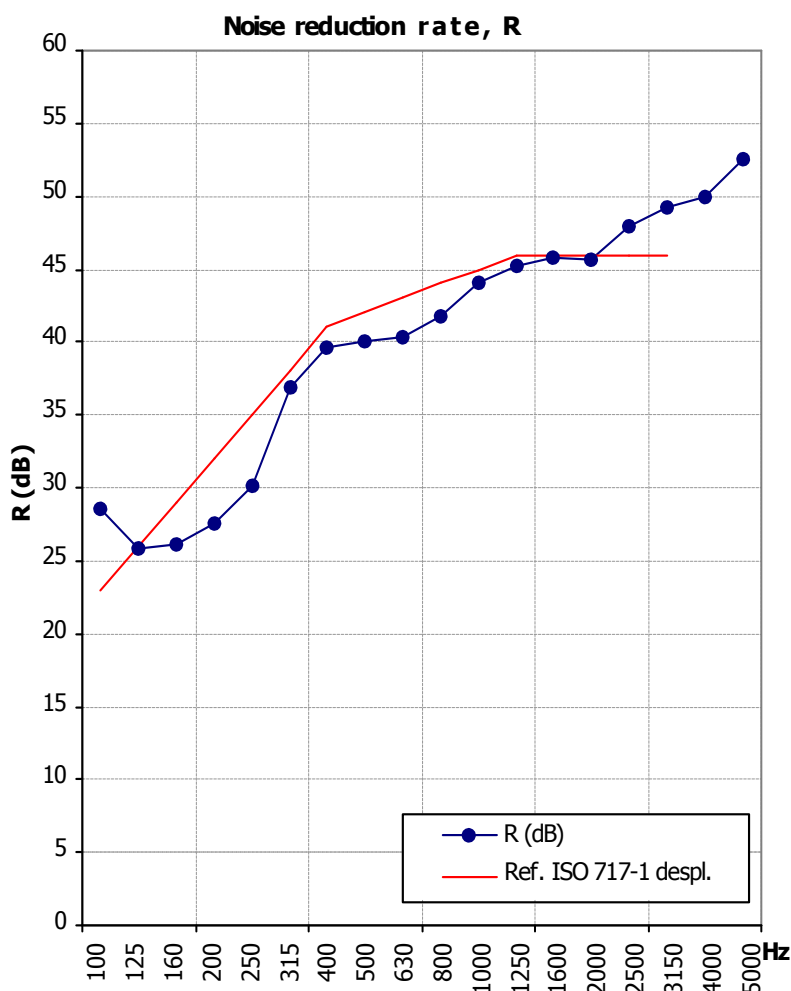
Mass per unit leaf surface area, m , (estimated): 24 Kg/m²

Area, S of the sample: 2,02 m² (0,96 x 2,1 m)

Test date: 1 june 2010



Frequency (Hz)	R (dB)
100	28,6
125	25,8
160	26,1
200	27,5
250	30,1
315	36,9
400	39,6
500	40,1
630	40,4
800	41,8
1000	44,1
1250	45,2
1600	45,8
2000	45,6
2500	47,9
3150	49,2
4000	49,9
5000	52,5



Overall noise reduction index, R_w (C ; C_{tr})	42 (-1; -5) dB
A-weighted overall noise reduction index, R_A :	41,4 dBA
A-weighted overall noise reduction index, for dominant automotive exterior noise, R_{Atr} :	36,8 dBA