

Sound insulation measures according to DIN EN 20 140-3

P-BA 10/20 04

Applicant: Parthos b.v.
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Figure 5

Test object:

A two-shell, adjustable partition wall in a timber panel structure with wicket door (test object S 9368-08), type Palace 110-S (see Figures 1 to 4) with the following components:

- 16 mm Panelling made of coated chipboard, area density: 11.9 kg/m²
- 11 mm Heavy mats (stapled), area density: 16.8 kg/m²
- 59.5 mm 40 mm mineral fibre insulation boards (manufacturer: Rockwool, density approx. 61 kg/m³), loosely inserted, and 10 mm mineral fibre insulation boards (manufacturer: Rockwool, density approx. 45 kg/m³), stapled on heavy mat
- 5.5 mm Heavy mat (stapled), area density: 8.4 kg/m²
- 16 mm Cladding made of coated chipboard, area density: 11.9 kg / m²

The partition wall consisted of a normal element, a door element and a telescopic element with an extendable stroke piece.

Total thickness of the wall: 108 mm

Weighted mass of a normal element (B = 1045 mm): 195.4 kg

For further descriptions and technical data on the mounting of the elements, on the structure of the running rail, and on the type of seals, etc. see the text section of the test report, Table 2 and Figures 2 to 4.

Test surface: 10,5 m²

Test laboratories: Wall test bench

Volume: V_s = 51,4 m³

V_E = 61,9 m³

Type: Test bench

Status: empty

Maximum insulation of the test bench: R'_{max,w} = 75 dB

Test conditions:

Relative Humidity: 29 %

Temperature: 19 °C

Test acoustic: Pink noise

Test date: 10. Dez. 2003

Evaluated sound insulation measures and spectrum adjustment values according to DIN EN ISO 717-1

R_w (C; C_{tr}; C₁₀₀₋₅₀₀₀; C_{tr.100-5000}) ;;
45 (0; -2; 1; -2) dB



Fraunhofer Institut
Bauphysik

The test was carried out in an IBP testing laboratory, accredited according to DIN EN ISO/IEC 17025 by DAP under no. DAP-PL-2135.17

Place, date: Stuttgart, March 29, 2004

Test laboratory manager: