

Sound Reduction Index according to ISO 140-3

Laboratory measurements of airborne sound insulation between rooms

Client: Brickworks Building Products

Date of test: 22/09/2014

Description and identification of the building construction and test arrangement, direction of measurement:

60 mm thick Pronto Panel with:

- 13 mm thick standard plasterboard direct fixed to one side
- 64 mm steel studs built 35 mm from the Panel
- 75 mm thick polyester insulation, 25kg/m³
- 13 mm thick standard plasterboard fixed to the outside of the studs

Area S of separating element: 10,19 m²

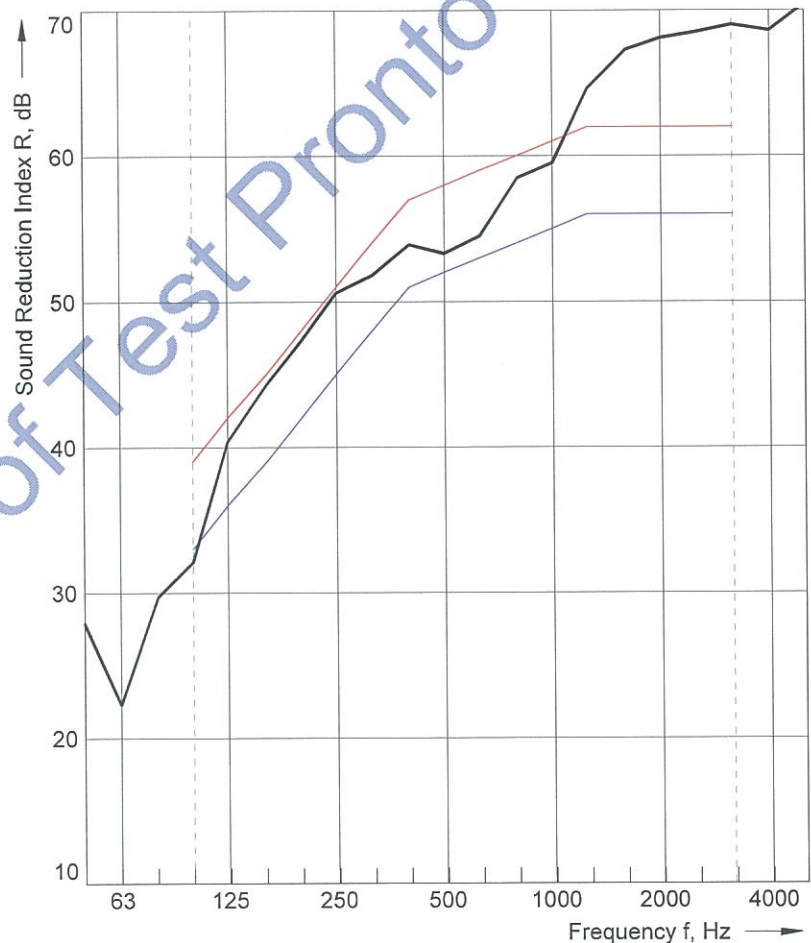
Source room volume: 90 m³

Receiving room volume V: 313,00 m³

Frequency range according to the curve of reference values (ISO 717-1)

Frequency f Hz	R 1/3 Octave dB
50	27.9
63	22.3
80	29.7
100	32.1
125	40.4
160	44.3
200	47.3
250	50.6
315	51.8
400	53.9
500	53.3
630	54.5
800	58.5
1000	59.5
1250	64.6
1600	67.3
2000	68.1
2500	68.5
3150	69.0
4000	68.6
5000	70.4 B

B: R >= value shown



Rating according to ISO 717-1

$R_w (C; C_{tr}) = 58 (-2; -8) \text{ dB}$

Evaluation based on laboratory measurement results obtained in one-third-octave bands by an engineering method

$C_{50-3150} = -5 \text{ dB}; C_{50-5000} = -4 \text{ dB}; C_{100-5000} = -1 \text{ dB};$

$C_{tr,50-3150} = -15 \text{ dB}; C_{tr,50-5000} = -15 \text{ dB}; C_{tr,100-5000} = -8 \text{ dB};$

No. of test report: 5518-1B

Name of test institute: Day Design Pty Ltd

Date: 08/12/2014

Signature: