

### Sound Reduction Index according to BS EN ISO 140-3:1995

Test No. L/3131/1

Date of Test: 25 November 2009

Client: Studio Schemes Ltd

Specimen: Studio Window

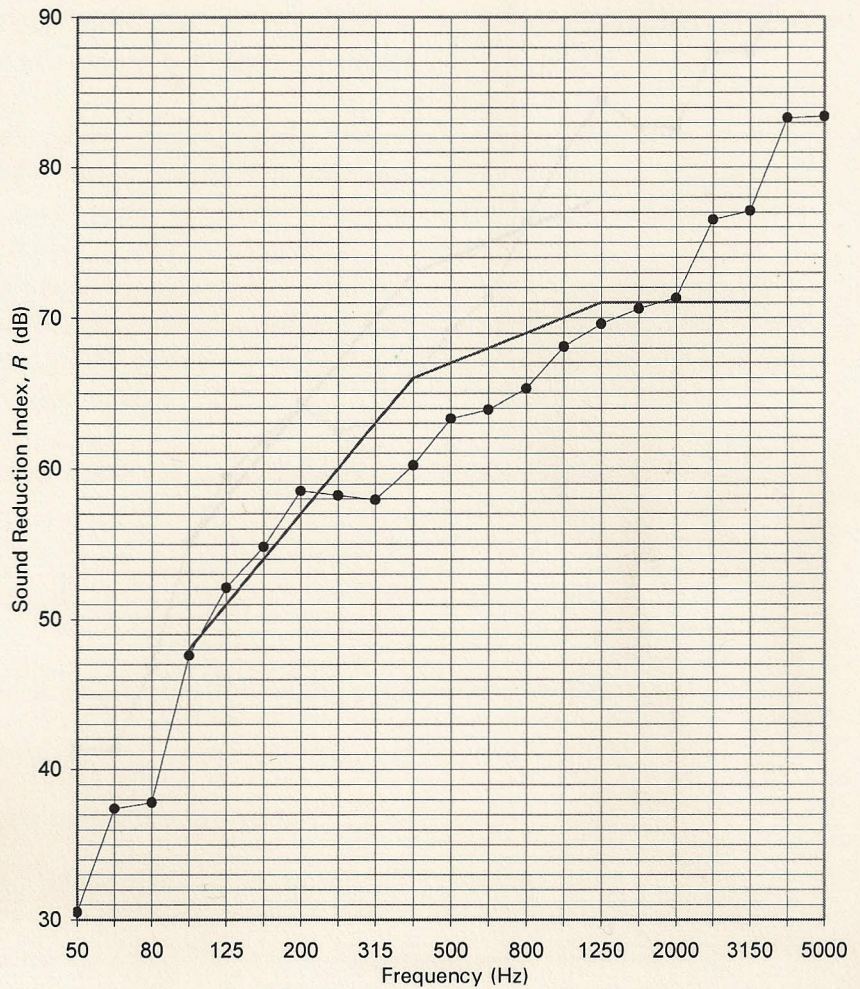
Installed by: Studio Schemes Ltd

Specimen area: 1.50 m<sup>2</sup>

Mass per unit area: 144 kg/m<sup>2</sup>

Chamber Conditions	Volume	Air Temperature	Relative Humidity
Source Chamber	97 m <sup>3</sup>	14°C	80%
Receiving Chamber	201 m <sup>3</sup>	13°C	80%

Frequency (Hz)	R One-third Octave (dB)	R Octave (dB)
50	≥ 30.5	
63	≥ 37.4	≥ 33.8
80	≥ 37.8	
100	≥ 47.6	
125	≥ 52.1	≥ 50.5
160	≥ 54.8	
200	≥ 58.5	
250	≥ 58.2	≥ 58.2
315	≥ 57.9	
400	≥ 60.2	
500	≥ 63.3	≥ 62.1
630	≥ 63.9	
800	≥ 65.3	
1000	68.1	≥ 67.3
1250	69.6	
1600	≥ 70.6	
2000	≥ 71.3	≥ 72.1
2500	≥ 76.5	
3150	≥ 77.1	
4000	≥ 83.3	≥ 80.2
5000	≥ 83.4	
6300		
8000		
10000		



Rating according to BS EN ISO 717-1:1997

$R_w (C; C_{tr}) = 67 (-1; -5) \text{ dB}$      $C_{50-3150} = -4 \text{ dB}$      $C_{50-5000} = -3 \text{ dB}$      $C_{100-5000} = 0 \text{ dB}$   
 $C_{tr,50-3150} = -14 \text{ dB}$      $C_{tr,50-5000} = -14 \text{ dB}$      $C_{tr,100-5000} = -5 \text{ dB}$

Evaluation based on laboratory measurement results obtained by an engineering method

Approved by:

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 Laboratory Supervisor