

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

Test No. L/R3070/A/2

Client: Spiralis Europe Ltd

Specimen: 'Diva' Solid Crosswall Partition including Cavity Insulation and Acoustic Dry Lining Board

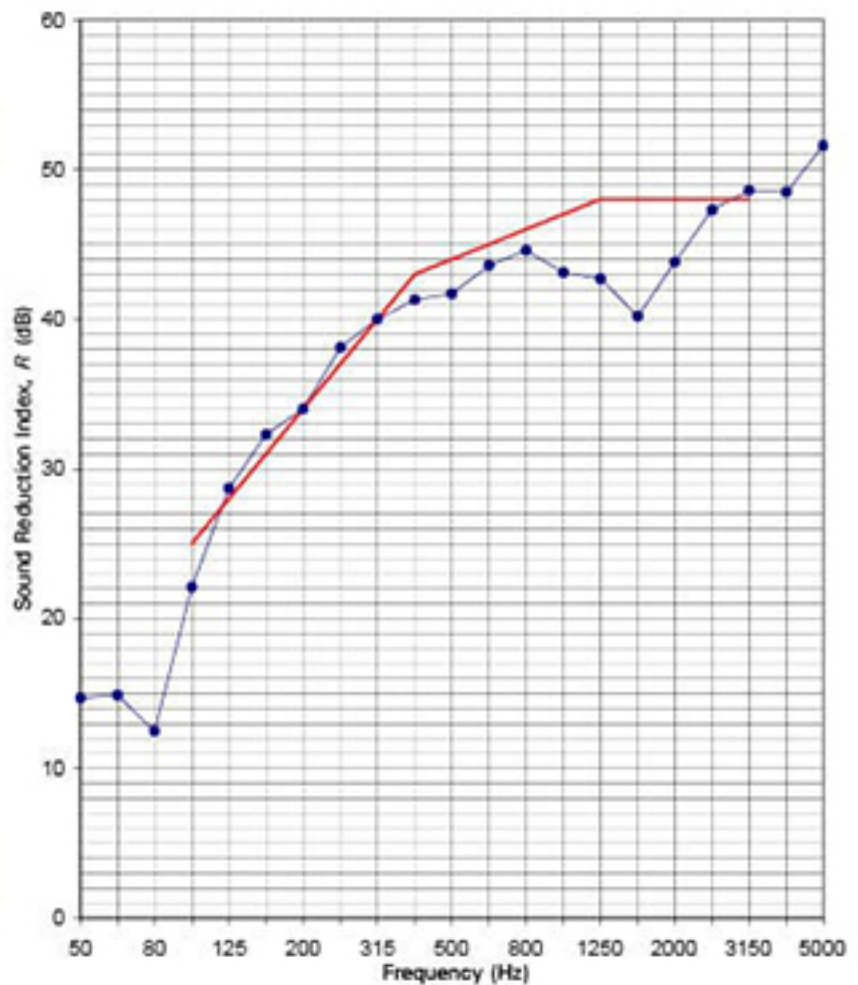
Installed by: Client

Specimen area: 7.9 m<sup>2</sup>

Mass per unit area: 40 kg/m<sup>2</sup>

Chamber Conditions	Volume	Air Temperature	Relative Humidity
Source Chamber	98 m <sup>3</sup>	21 °C	70%
Receiving Chamber	206 m <sup>3</sup>	20 °C	75%

Frequency (Hz)	$\bar{R}$ One-third Octave (dB)	$R$ Octave (dB)
50	14.7	
63	14.9	13.9
80	12.5	
100	22.1	
125	28.7	25.7
160	32.3	
200	34.0	
250	38.1	36.6
315	40.0	
400	41.3	
500	41.7	42.1
630	43.6	
800	44.6	
1000	43.1	43.4
1250	42.7	
1600	40.2	
2000	43.8	42.8
2500	47.3	
3150	48.6	
4000	48.5	49.3
5000	51.6	
6300		
8000		
10000		



Rating according to BS EN ISO 717-1:1997

$R_w (C; C_{tr}) = 44 (-2; -6) \text{ dB}$      $C_{50-3150} = -4 \text{ dB}$      $C_{50-5000} = -3 \text{ dB}$      $C_{100-5000} = -1 \text{ dB}$   
 $C_{tr, 50-3150} = -13 \text{ dB}$      $C_{tr, 50-5000} = -13 \text{ dB}$      $C_{tr, 100-5000} = -6 \text{ dB}$

Evaluation based on laboratory measurement results obtained by an engineering method

## Test Results

Soundproofing index according to the UNI EN ISO 140-3 (1997)

Index rating of soundproofing according to the UNI EN ISO 717-1 (1997)

Description of the test, the specimen and the equipment for tests: cf. description from page 2 to page 8 of this report

Area S Coming: 9.93m<sup>3</sup>

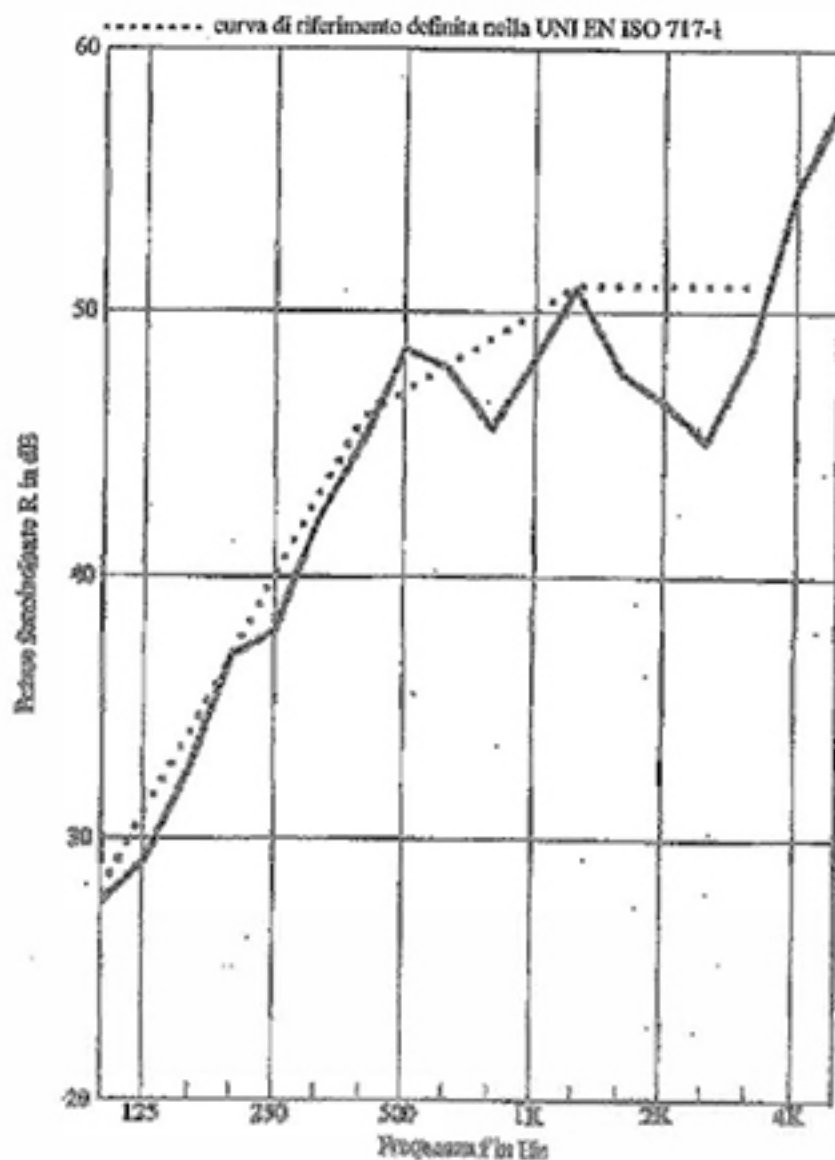
Air temperature in test environments: 23°C

Relative air humidity in test environments: 51.9%

Volume of the issuer room: 50.0m<sup>3</sup>

Volume of the receiving environment room : 60.0m<sup>3</sup>

Frequency	R (one third octave)
100	27,6
125	29,1
160	32,7
200	37,0
250	37,9
315	42,1
400	45,1
500	48,6
630	47,9
800	45,6
1000	48,2
1250	30,9
1600	43,7
2000	45,6
2500	45,1
3150	48,5
4000	54,7
5000	57,9



Rating according to the UNI EN ISO 717-1

$$R_w(C;C_v) = 47 (-2;-3) \text{ dB}$$

Evaluation based on results of laboratory measurements obtained by a technical method.