Airborne sound reduction indices according to ISO 10140-2
Laboratory measurements of airborne sound insulation of building elements

Client: *Ventüer Limited*

Date of test: 28-May-24

Test rooms: Reverberation Chambers A and C

Description and identification of the test specimen and test arrangement:

Sample brand name: *ALV-150* by Ventüer Limited
Sample Description: 150 mm single bank acoustic louvre with 50 mm openings
Dimensions: 1720 mm(H) x 1085 mm(W) x 150 mm (D)
Perimeter sealant: Closed cell foam tape to flange side only

See full test report for louvre details.

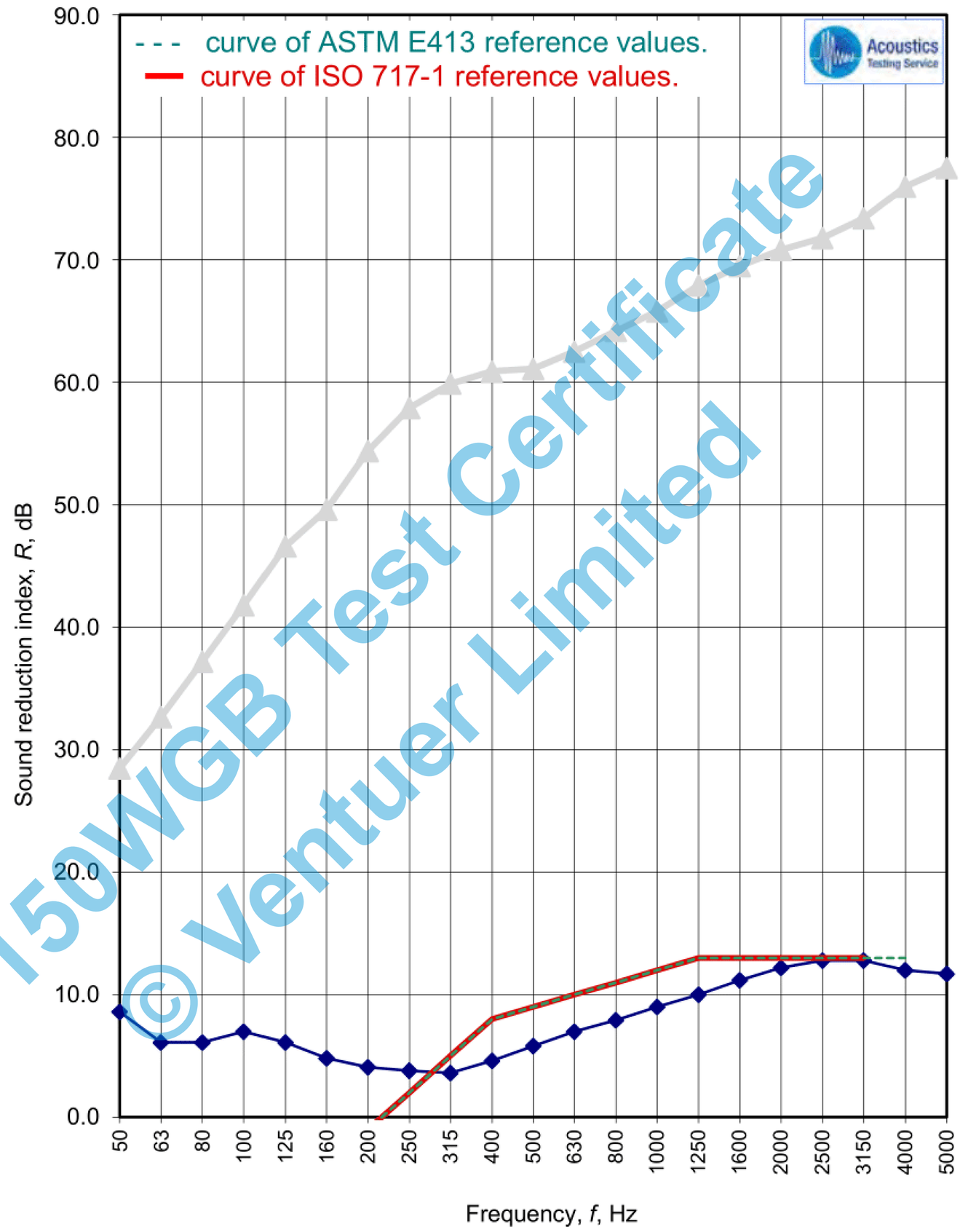
Source chamber was Chamber C and receiving chamber was Chamber A . Test specimen was installed by client. Curing time was: N/A

Comp Files: TL:T2407-1 TL, Source Chamber, Receiving Chamber, Bgr:T2407-1 Bgr, Receiving Chamber. RT:T2407-1 RT

Area *S* of test specimen:	1.87 m^2
Air temp in the test rooms:	17.1 °C
Air humidity in test rooms:	71 %
Source room volume:	208 m^3
Receiving room volume:	203 m^3

Frequency *f* Hz	*R* One-third octave dB
50	8.6
63	6.1
80	6.1
100	**7.0**
125	**6.1**
160	**4.8**
200	**4.1**
250	**3.8**
315	**3.6**
400	**4.6**
500	**5.8**
630	**7.0**
800	**7.9**
1000	**9.0**
1250	**10.0**
1600	**11.2**
2000	**12.2**
2500	**12.8**
3150	**12.8**
4000	**12.0**
5000	11.7

Notes: #N/A = Value not available. **Bold** values are used to calculate STC and R_w.



Rating according to ISO 717-1

$R_w (C;C_{tr})$ = 9 (0 ; -1) dB

$C_{50\text{-}3150}$ = 0 dB $C_{50\text{-}5000}$ = 1 dB $C_{100\text{-}5000}$ = 1 dB

$C_{tr,50\text{-}3150}$ = -1 dB $C_{tr,50\text{-}5000}$ = -1 dB $C_{tr,100\text{-}5000}$ = -1 dB

Rating according to ASTM E413 -87

Sound Transmission Class = 9 dB

Evaluation based on laboratory measurement results obtained by an engineering method.

No. of test report: **T2407-1**

Name of test institute: University of Auckland Acoustics Testing Service.

Date: 14 June 2024

Signature: