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: 2 x *ALV-150* by Ventüer Limited
Sample Description: 150 mm ALV-150 bank acoustic louvre on each side of the 226 mm wall cavity each with 50 mm openings (150mm/226mm/150mm) 526 mm overall system depth
Dimensions: 1720 mm(H) x 1085 mm(W) x 526 mm(D)
Perimeter sealant: Closed cell foam tape to flange side only
See full test report for louvre details.

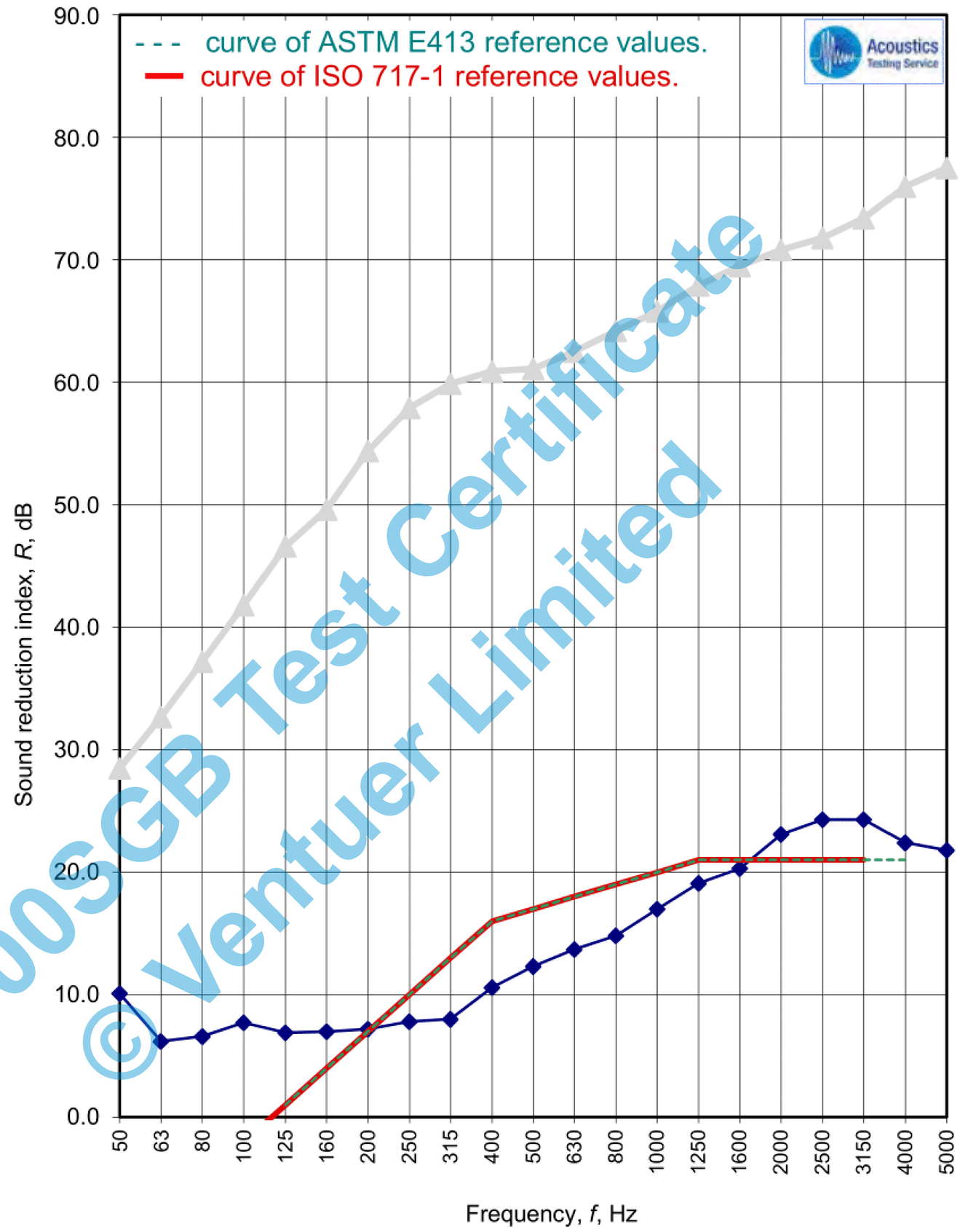
Source chamber was Chamber C and receiving chamber was Chamber A . Test specimen was installed by client. Curing time was: N/A

Comp Files: TL:T2407-3 TL, Source Chamber, Receiving Chamber, Bgr:T2407-3 Bgr, Receiving Chamber. RT:T2407-3 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	10.1
63	6.2
80	6.6
100	**7.7**
125	**6.9**
160	**7.0**
200	**7.2**
250	**7.8**
315	**8.0**
400	**10.6**
500	**12.3**
630	**13.7**
800	**14.8**
1000	**17.0**
1250	**19.1**
1600	**20.3**
2000	**23.1**
2500	**24.3**
3150	**24.3**
4000	**22.4**
5000	21.8

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



Rating according to ISO 717-1

$R_w (C;C_{tr})$ = 17 (-1 ; -4) dB

$C_{50\text{-}3150}$ = -1 dB	$C_{50\text{-}5000}$ = 0 dB	$C_{100\text{-}5000}$ = 0 dB
$C_{tr,50\text{-}3150}$ = -4 dB	$C_{tr,50\text{-}5000}$ = -4 dB	$C_{tr,100\text{-}5000}$ = -4 dB

Rating according to ASTM E413 -87

Sound Transmission Class = 17 dB

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

No. of test report: **T2407-3**

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

Date: 14 June 2024

Signature: