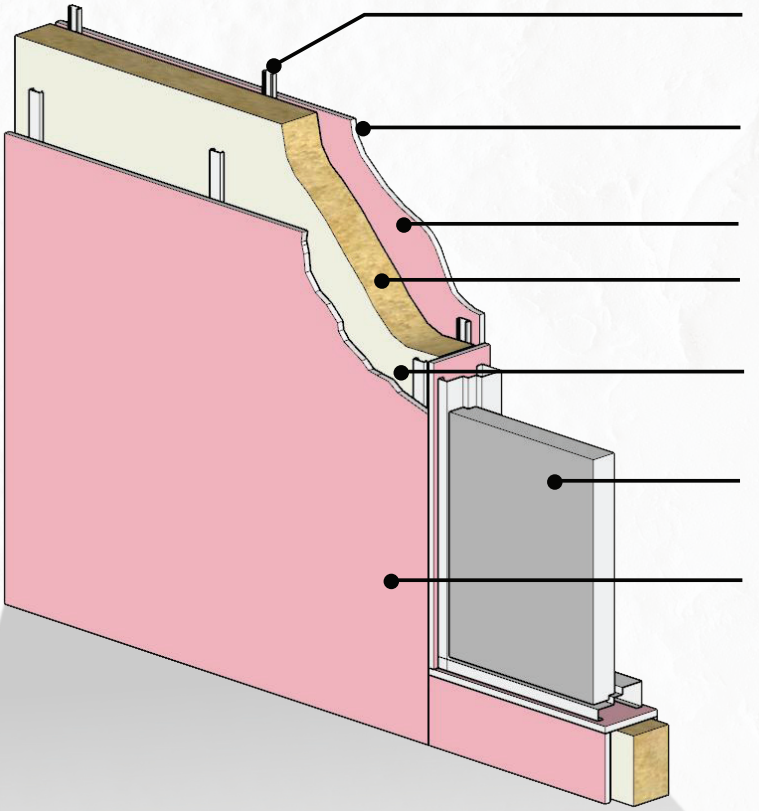
RICCO

CHULA UNISEARCH

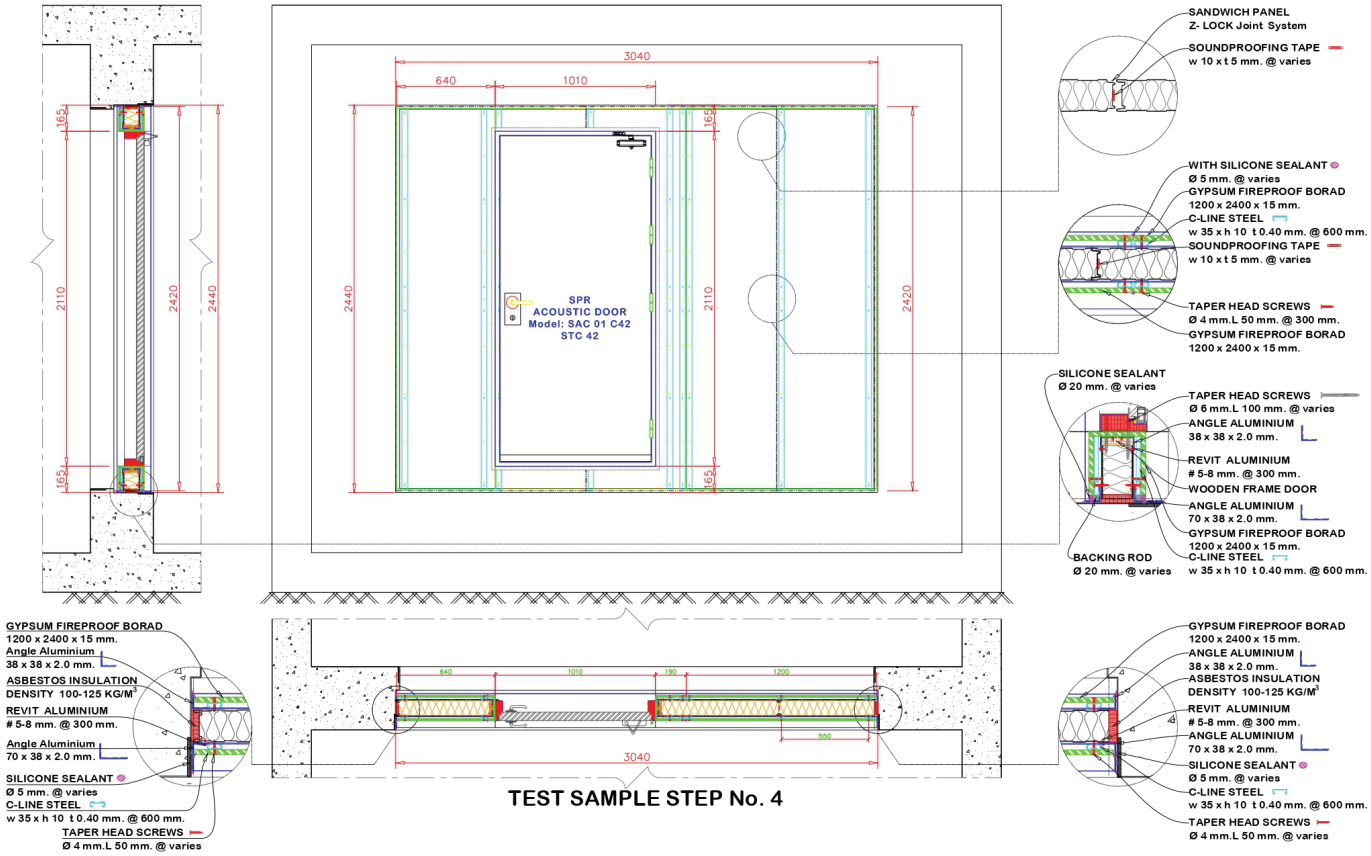
LABORATORY REPORT ON

Airborne Sound Transmission-Loss Measurment of

The Gypsum Board - Sandwich Panel with Door Set



STC 43 - Wall Sound Test With Door Installation



TEST SAMPLE STEP No. 4

SPECIFICATION

INSTALLATION

Table 1. The airborne sound transmission-loss (TL) for each individual 1/3 octave band center frequency and STC rating of test sample.

Test panel: ***RICCO*** sandwich panel (100 mm. thickness) and ***FireBloc*** Gypsum board (15 mm. thickness) with ***SAC 01 C42*** door set.
Client: SUPA RICH Co., Ltd.
Test sample size: 3040mm. x 2440mm.
Date of test: 23 November 2022.
Temperature: 27°c
Relative humidity: 50%

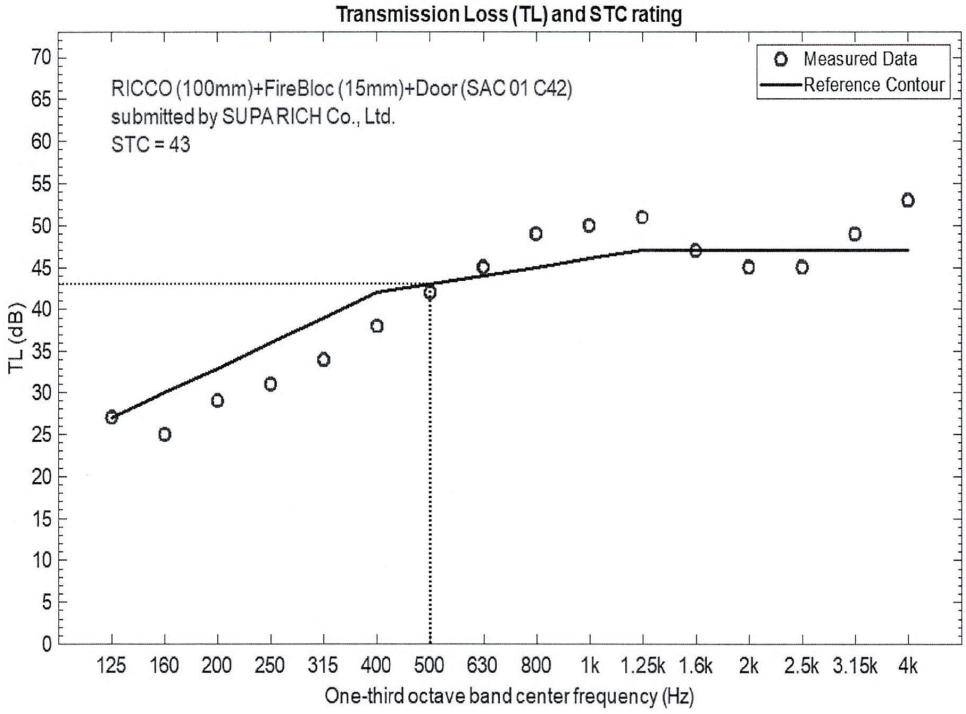
Frequency (Hz)	TL (dB)
125	27
160	25
200	29
250	31
315	34
400	38
500	42
630	45
800	49
1000	50
1250	51
1600	47
2000	45
2500	45
3150	49
4000	53

STC	43
Maximum Deficiency	5 dB
Sum of Deficiency	28 dB

ศูนย์บริการวิชาการ แห่งจุฬาลงกรณ์มหาวิทยาลัย

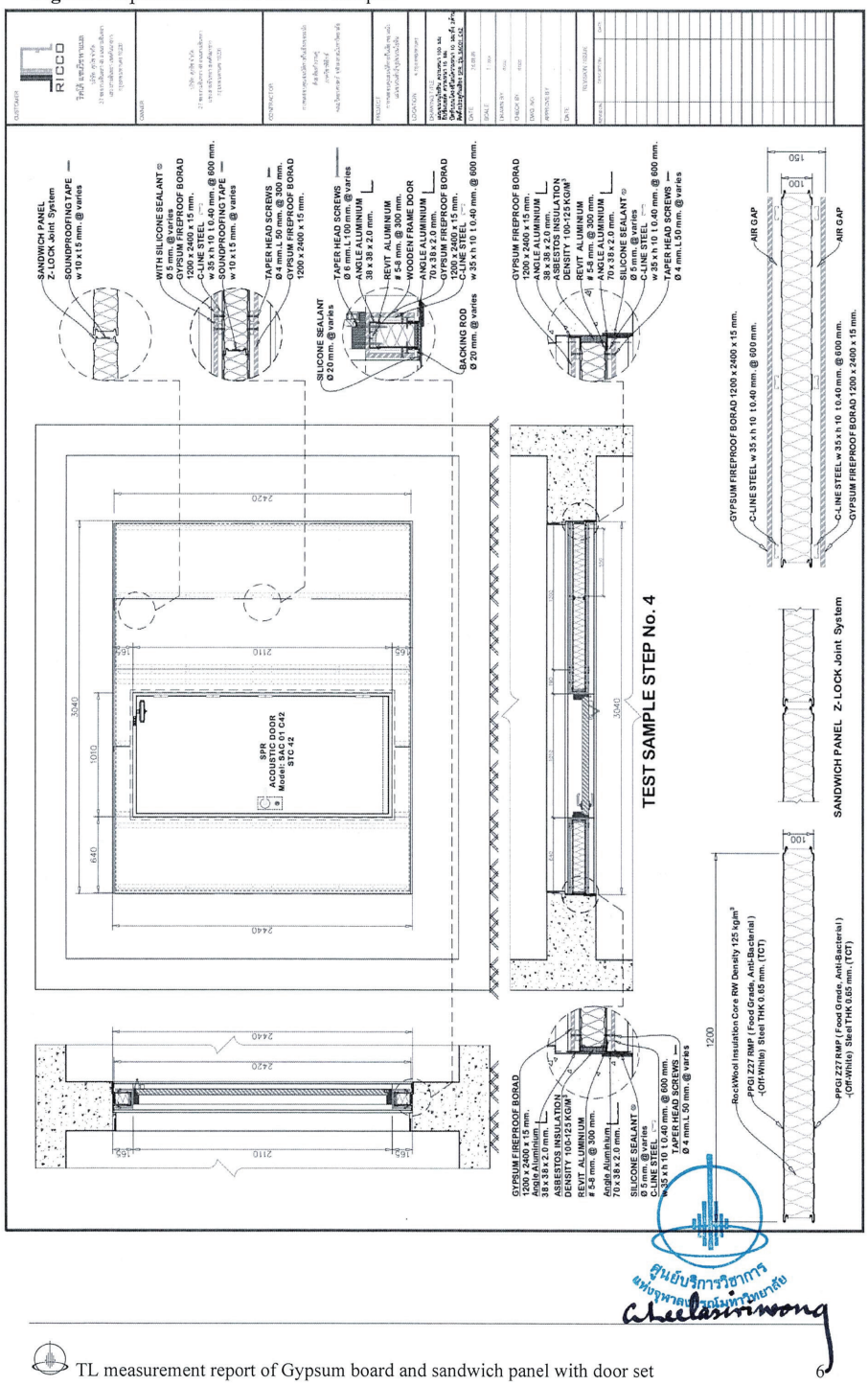
RESULT

Figure 1. The airborne sound transmission-loss (TL) and the STC rating of the test sample.



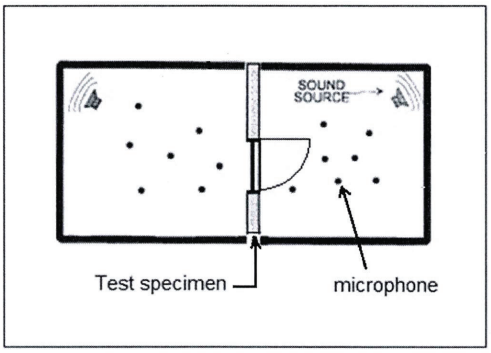
RESULT

Figure 2. Specification of the test sample.



RESULT

Figure 3. Schematic drawing of the measurement set-up in a double-reverberation chamber.



RESULT