

COMPUTATION OF THE SOUND TRANSMISSION LOSS

Modeling and computation done by Saint-Gobain CRDC

Computation hypothesis defined to model a measurement according to EN ISO 140

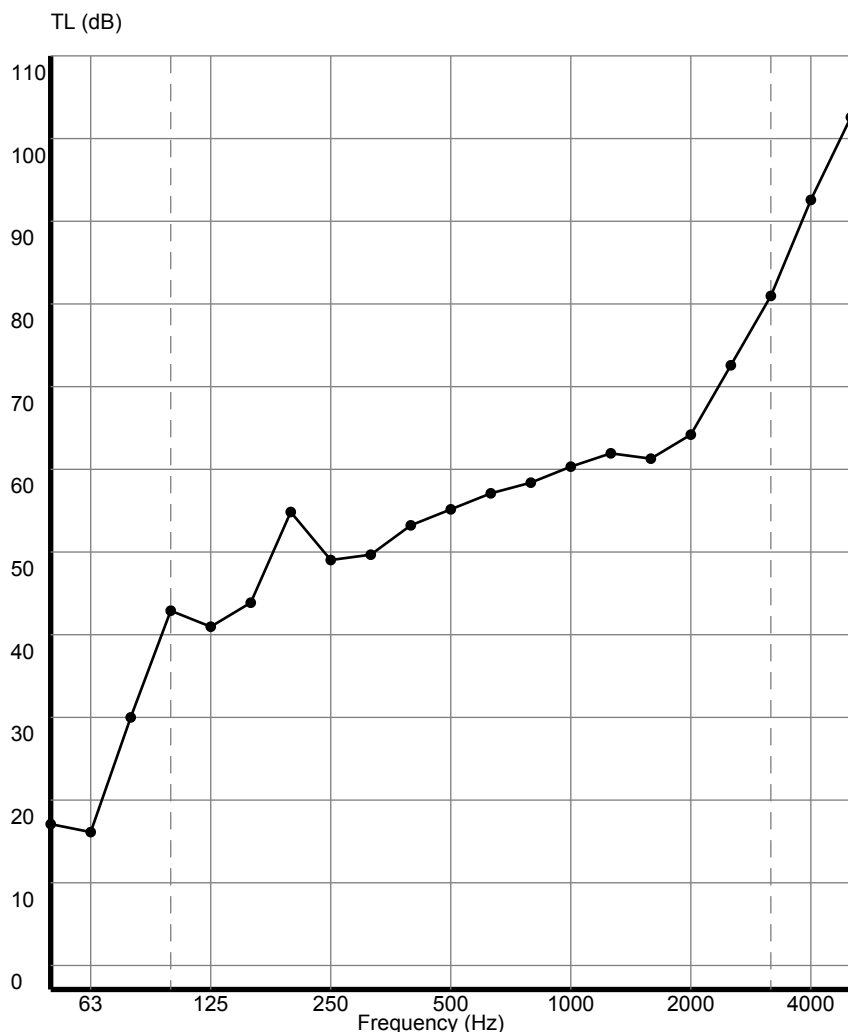
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Glazing : 66.2SIL (32AIR) 55.2SIL (32AIR) 66.2SIL

Ratings: According to ISO 717-1 100Hz - 3150Hz

$$R_w(C;C_{tr}) = 60(-1;-4) \text{ dB} \quad R_A = 59 \text{ dB} \quad R_{A,tr} = 56 \text{ dB}$$

Results: Sound Transmission Loss by third-octave band



Frequency (Hz)	R (dB)
50	19,6
63	18,6
80	32,1
100	44,7
125	42,7
160	45,6
200	56,4
250	50,7
315	51,1
400	54,8
500	56,6
630	58,4
800	59,7
1000	61,5
1250	63,2
1600	62,7
2000	65,4
2500	73,4
3150	81,8
4000	93,1
5000	102,6

Computation details: Composition No. 16012 calculated the 1603/20/17

- Dimensions: 1480mm x 1230mm
- Composition:
 - Glass 1: SGG STADIP SILENCE 66.2
 - Gaz 1: AIR 32
 - Glass 2: SGG STADIP SILENCE 55.2
 - Gaz 2: AIR 32
 - Glass 3: SGG STADIP SILENCE 66.2