Sound reduction index according to PN-EN 20140-3:1999

Laboratory measurements of airborne sound insulation of building elements

Client: **Sokółka Okna i Drzwi Spółka Akcyjna**
ul. Lotników Lewoniewskich 1, 16-100 Sokółka

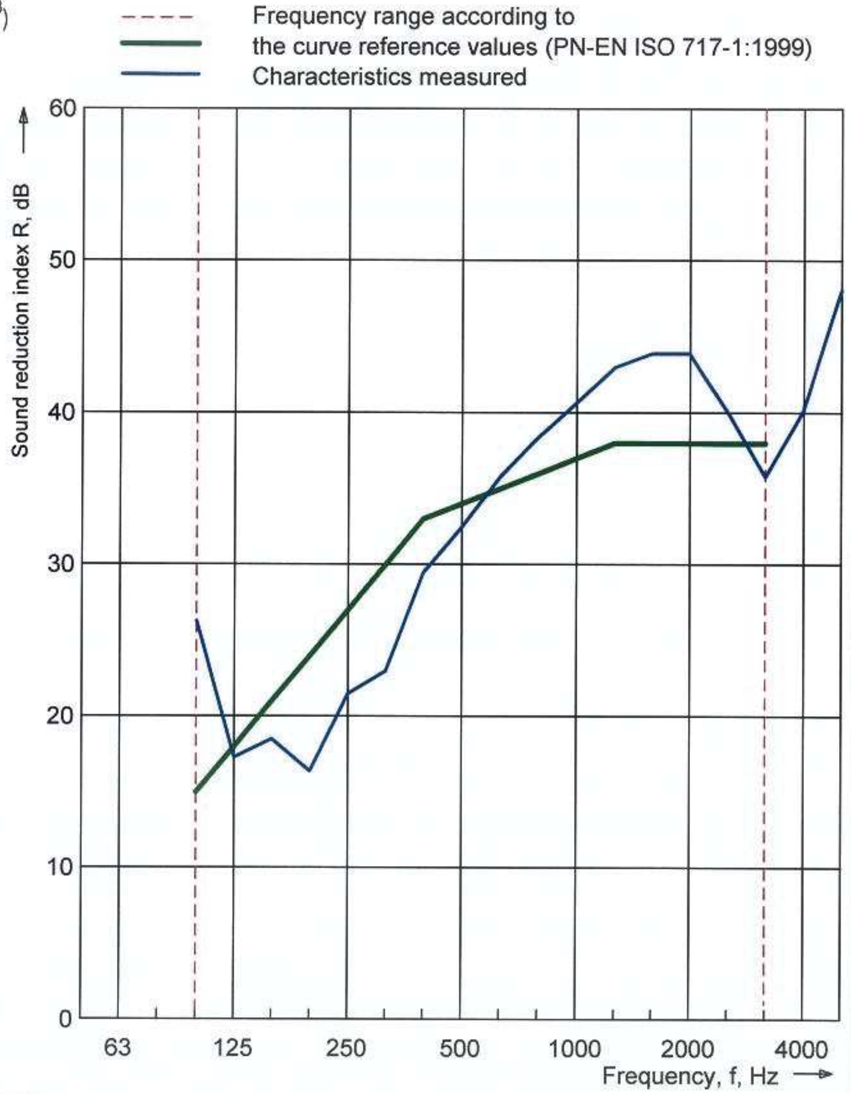
Test specimen mounted by: **Client**

Description of the test facility, test specimen and test arrangement:
Sliding wood-aluminum doors ECO SLIDE
- dimentions w x h: 1900 x 2120 mm
- glazing: 4LE / 16Ar / 4 / 16Ar / 4LE
Sample no. 1/LA00-6016/15/R09NA

Area of test specimen: **4,13** m^2
Air permeability coefficient: --.-- $m^3/(m \cdot h \cdot daPa^{2/3})$

Test room:	source	receive
Volume, m^3:	**87,5**	**51,6**
Air temperature, °C:	**19,2**	**20,4**
Air humidity, %:	**42,8**	**45,5**

Frequency f [Hz]	*R* 1/3 octave [dB]
50	---.-
63	---.-
80	---.-
100	26,3
125	17,3
160	18,5
200	16,4
250	21,5
315	23,0
400	29,5
500	32,5
630	35,8
800	38,4
1000	40,7
1250	43,0
1600	43,9
2000	43,9
2500	40,1
3150	35,8
4000	40,2
5000	48,1



Rating according to PN-EN ISO 717-1:1999

$R_w(C;C_{tr})$ = **34 (-2; -6) dB**

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

$C_{tr,50-3150}$ = --- dB $C_{tr,50-5000}$ = --- dB $C_{tr,100-5000}$ = -6 dB

Evaluation based on laboratory measurement results obtained by engineering method