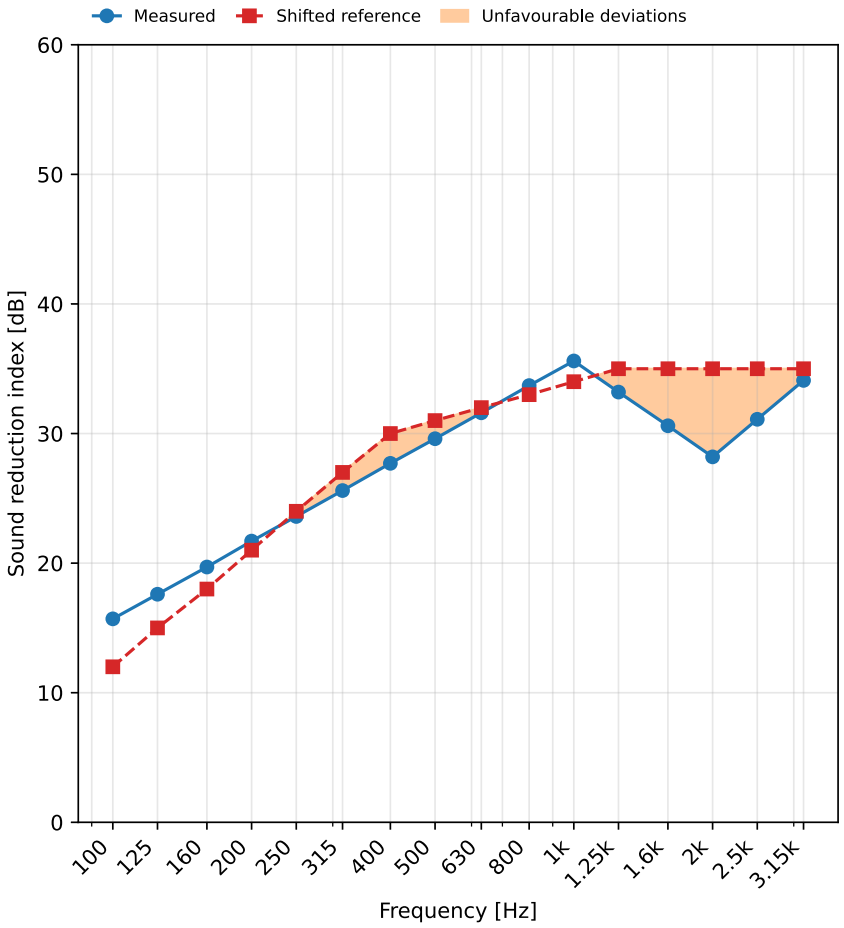
Airborne sound insulation rating

ISO 10140-2 laboratory measurement of sound insulation. Rating per ISO 717-1:2020.

Client:	Example client	Sample area S [m²]:	1.23
Manufacturer:	Example glassworks	Description:	6 mm float glass pane
Test room:	Transmission suite (example)	Date of test:	2026-07-18
Source room volume [m³]:	53	Source room temp. [°C]:	21.6
Source room humidity [%]:	35.3	Receiving room volume [m³]:	51
Receiving room temp. [°C]:	20.9	Receiving room humidity [%]:	37.4
Ambient pressure [kPa]:	101.9	Mass per unit area [kg/m²]:	15
Mounting:	Elastic perimeter, single glazing		

One-third-octave R [dB]

Frequency f [Hz]	R [dB]
100	15.7
125	17.6
160	19.7
200	21.7
250	23.6
315	25.6
400	27.7
500	29.6
630	31.6
800	33.7
1000	35.6
1250	33.2
1600	30.6
2000	28.2
2500	31.1
3150	34.1



R_w (C; C_{tr}) = **31 (-1; -3) dB**

Result vs requirement: R_w = 31 dB, required ≥ 30 dB → **PASS**

Laboratory: Phonometry reference example
Report no.: EXAMPLE-717-1
Date: 2026-07-18
Operator: phonometry Signature: _____

■ The results relate only to the tested specimen.

Generated by phonometry.