Filter class compliance

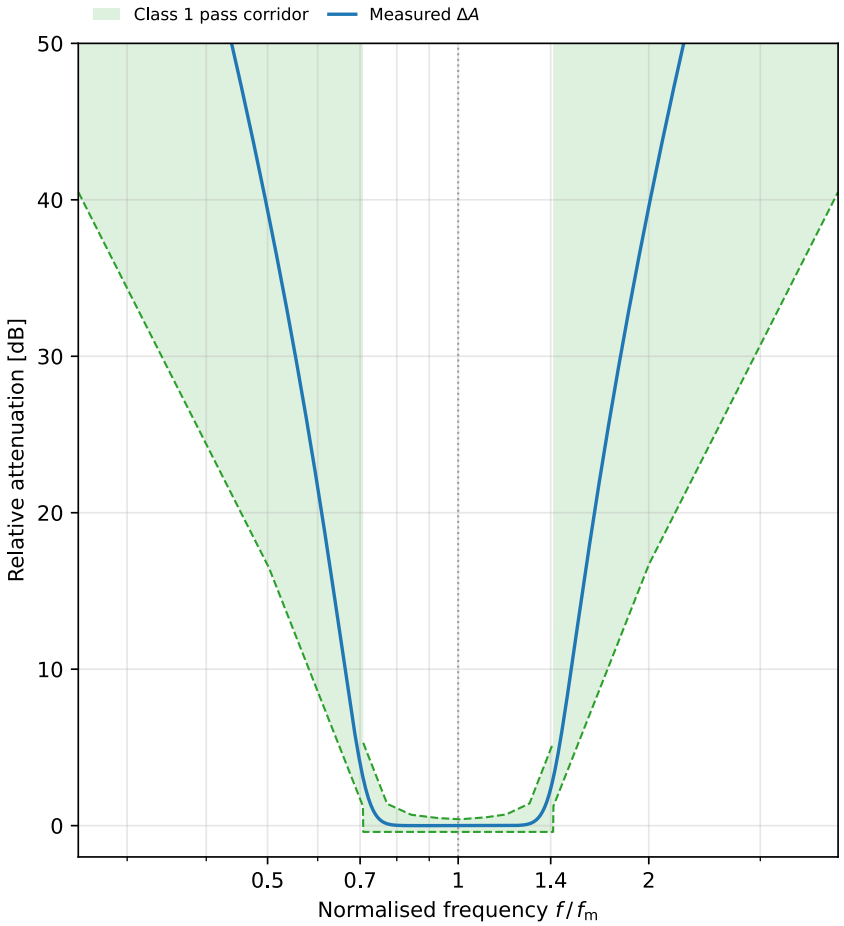
IEC 61260-1:2014 type test. Conformance to IEC 61260-1:2014, Table 1, 5.12 and 5.16.

Client:	Example client	Filter / instrument:	1/1-octave filter bank
Manufacturer:	Example instruments	Test facility:	Electroacoustics laboratory (example)
Date of test:	2026-07-20		

1/1-octave bank, sampling rate f_s = 48000 Hz; relative attenuation referenced to the mid-band level (IEC 61260-1 Formula 8).

Per-band classification

125 Hz	Class 1 (+0.36 dB)
250 Hz	Class 1 (+0.36 dB)
500 Hz	Class 1 (+0.36 dB)
1 kHz	Class 1 (+0.36 dB)
2 kHz	Class 1 (+0.36 dB)
4 kHz	Class 1 (+0.36 dB)



Requirements of IEC 61260-1:2014, graded as IEC 61260-2:2016 tests them

Relative attenuation (5.10, Table 1)	Class 1 (+0.40 dB)
Effective bandwidth deviation (5.12)	Class 1 (+0.36 dB), +0.04 to +0.04 dB
Summation of output signals (5.16)	Class 1 (+0.64 dB), +0.00 to +0.16 dB

Class **1** - COMPLIES (margin +0.36 dB)

Stop-band limits verified up to half the sampling frequency, above which a digital filter has no frequency to respond at; the Table 1 limits there are not demonstrated, so the stated class attests the verified frequency range.

Result vs requirement: Achieved class 1, required class 1 → **PASS**

Laboratory: Phonometry reference example
Report no.: EXAMPLE-61260
Date: 2026-07-20
Operator: phonometry Signature: _____

■ The results relate only to the tested specimen.