

Technical Information, February 2021

Exolon® Silent Sound & Exolon® Silent Sound AR

Overview test results for European NRD-Code

Exolon® Silent Sound sheets do show extreme good results in all the tests that are described in the European code for Noise Reduction Devices. Exolon® Silent Sound is therefore the best choice when it comes to find a safe and durable solution in transparent parts of NRD's (Noise Reduction Device). Even in the most severe circumstances, like very low freezing temperatures, the virtual unbreakable Exolon® Silent Sound will perform without any loss of its material characteristics!

EN 1793-2 DIN EN ISO 717-1 and 140-3

Weighted sound reduction index and spectrum adaption terms according to DIN EN ISO 717-1 & 140-3.

Product tested (EN DIN ISO 140-3)	Rw in dB	RLR (DIN EN 1793- 2) in dB	ΔL A,R,Str (ZTV- LSW 88) in dB
Exolon® Silent Sound 8mm	32	27 (B3)	28
Exolon® Silent Sound 10mm	34	29 (B3)	30
Exolon® Silent Sound 12mm	36	31 (B3)	32
Exolon® Silent Sound 15mm	36	32 (B3)	33
Exolon® Silent Sound 18mm	37	34 (B3)	34
Exolon® Silent Sound 20mm	37	34 (B3)	35

DIN EN ISO 10140-2 is the new standard (instead of EN 140-3) for the measurements of airborne sound insulation in laboratories since December 2010. There is only one notable change compared with the old standard, now one must have to quote static pressure in the test report. The test procedure and the calculation of the results are identical.

EN 1794-1 Annex C: Impact of stones (Hammer)

Product	Result
Exolon® Silent Sound 8mm	Passed
Exolon® Silent Sound 10mm	Passed
Exolon® Silent Sound 12mm	Passed
Exolon® Silent Sound 15mm	Passed
Exolon® Silent Sound 18mm	Passed
Exolon® Silent Sound 20mm	Passed

EN 1794-2 Annex A: Resistance to brushwood fire (Baskets)

Product	Result
Exolon® Silent Sound 8mm	Class 2
Exolon® Silent Sound 10mm	Class 2
Exolon® Silent Sound 12mm	Class 2
Exolon® Silent Sound 15mm	Class 2
Exolon® Silent Sound 18mm	Class 2
Exolon® Silent Sound 20mm	Class 1

EN 1794-2 Annex B: Danger of falling debris (Pendulum)

Product	Result
Exolon® Silent Sound 8mm	Class 3
Exolon® Silent Sound 10mm	Class 3
Exolon® Silent Sound 12mm	Class 3
Exolon® Silent Sound 15mm	Class 6
Exolon® Silent Sound 18mm	Class 6
Exolon® Silent Sound 20mm	Class 4

Results of 8mm to 18mm are according the former version of the code of the year 2003. The 20mm is according the new version of the year 2010, which is the same as class 6 in the 2003 version.

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