

Elastilon underlay material has been tested with regard to impact sound



2-layer parquet on Elastilon Strong 3 mm.

For years, OSBE, Dutch producer of parquet underlays and acoustic mats, has been testing its products at the acoustic laboratory of Peutz. This institute also operates laboratories in Germany and France. The latest test series examined the reduction of impact sound (foot traffic) using different parquet

products. First of all, three Elastilon products (Elastilon Basic 3 mm, Elastilon Strong 3 mm and Elastilon Basic 5 mm) were tested without any top layer - in accordance with Swiss regulations. Here an improvement of 15 to 23 dB could be attained. Taking the effect of a carpet as a comparative figure, 11dB was the outcome. Then Elastilon Strong 3 mm was tested with three different parquet products: - solid tapis-parquet Equi 10 mm from Dutch producer Lieverdink, - Listoncino 2-layer parquet 10 mm from Italian producer Cosmo, - 2-layer parquet Lopark Royal Plus 11 mm and Royal Maxi 12 mm from German producer Lorenz. For the construction below the parquet, three variants were tested: first of all Elastilon underlay Strong 3 mm alone, then in combination with an Ewifoam underlay Universal 3 mm as well as an additional 10 mm soft fibre board. The results of 15 tests are shown in the chart. A standard tapping machine with a 250 g ham-

mer was used as a noise generator. In the room below the impact sound was recorded by a microphone and analysed by a computer. The concrete ceiling between the two laboratory rooms measured 14 mm in thickness.

Impact sound test		
test	testmaterial	reduction (db)
1.	Elastilon Basic, 3mm	15
2.	Elastilon Strong, 3mm	16
3.	Elastilon Basic, 5mm	23
4.	carpet, 7mm (heavy quality)	11
5.	Equi solid 10 mm on Elastilon Strong 3 mm	9
6.	Equi 10 mm on Elastilon Strong 3 mm plus Ewifoam Universal 3 mm	9
7.	Equi 10 mm on Elastilon Strong 3 mm plus Ewifoam-Universal 3 mm with 10 mm soft fibre board	12
8.	Cosmo 2-layer 10 mm on Elastilon Strong 3 mm plus Ewifoam-Universal 3 mm with 10 mm soft fibre board	13
9.	Cosmo 2-layer 10 mm on Elastilon Strong 3 mm plus Ewifoam-Universal 3mm	11
10.	Cosmo 2-layer 10 mm on Elastilon Strong 3 mm	11
11.	Lopark Royal Maxi 12 mm on Elastilon Strong 3 mm plus Ewifoam-Universal 3 mm with 10 mm soft fibre board	10
12.	Lopark Royal Plus 11 mm on Elastilon Strong 3 mm plus Ewifoam-Universal 3 mm with 10 mm soft fibre board	11
13.	Lopark Royal Plus 11 mm on Elastilon Strong 3 mm plus Ewifoam-Universal 3mm	9
14.	Lopark Royal Plus 11 mm on Elastilon Strong 3 mm	8
15.	Equi 10 mm on Elastilon Strong 3 mm plus Akoestilon 1,1 mm	11

One result of the testing is of special importance for OSBE: the cell-composition of its Elastilon-underlays could not be destroyed by the hammer machine- even when used upon the bare underlay.

The overall conclusion of the testing was commented on by the producer as follows: "Only four tests remained below 10 dB. We consider this a splendid result."