



## HARO POLYURETHANE CUSHION LAYER

The product used for the resilient layer for the HARO Sports Helsinki wood sports floors is polyurethane cushion layer is bound together with a urethane adhesive. This type of cushion layer has been designed for longevity of the product. It has been used under our area elastic sports floors since 1972 with no failures due to the degradation of the cushion layer.

The wood floor system is an area elastic product that does not allow the cushion layer to be crushed past the point where it will be damaged. The thickness of the cushion layer is 15mm. The normal deflection of the wood floor under normal load is a maximum of less than 6mm. So the cushion layer does not receive any excessive crushing that will diminish the products performance over time.

Also, under RAL testing in Germany, we have to do a DIN 18032 part 2 test on a random previously installed every year. The oldest floor tested to date is about 20 years old and the test results are within a couple of percent of the laboratory test results. This means that the resilient layer in the sports floor system does not change over time. We also ran a test in co-operation with the renowned technical college in Rosenheim, where we got the approval of the extraordinary long performance of the elastic layer.

In one of the tests one wheel loaded with 500 kg was placed on the floor for 2 hours and removed afterwards. During the test the deformation was measured under pressure and during the relief time. The deformation was curve showed that the sports floor relaxes almost completely; the deformation disappears except for a few tens of millimetres. Even after this excessive load the sports floor goes back into its former position and features the same performance again.