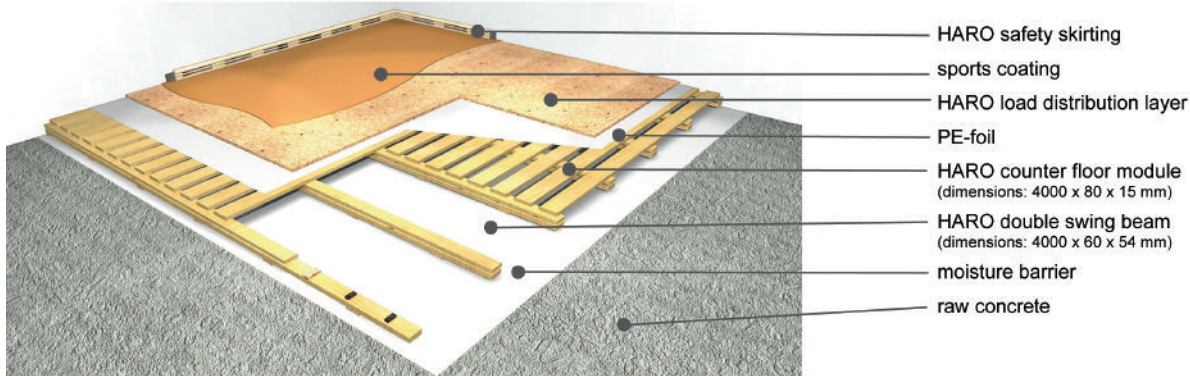


# HARO Sports Floors

Dominating the game.

## MUNICH 35/50

Type: Area-elastic sports floor  
Usage: sports and multi purpose



Underfloor heating compatible

Installation from the top edge of raw concrete	Model Munich 35	Model Munich 50
<b>HARO double swing beam</b> pre-fabricated, laid out in longitudinal direction, made of spruce Spacing centre to centre: 444 mm		54 mm
<b>HARO counter floor module</b> as load distribution layer, nailed crosswise onto the double swing beam, made of spruce. The timber is: <ul style="list-style-type: none"> <li>• parallel edged</li> <li>• planed all-over</li> <li>• kiln dried</li> </ul> Spacing centre to centre: OSB board 119 mm plywood board 120 mm		15 mm
<b>PE-foil,</b> 10% overlapped, loosely laid out		0,03 mm
<b>Load distribution panel</b> consisting of HARO OSB-boards screwed onto the counterfloor. Dimensions: 2500 x 1250 mm	12 mm	
<b>Load distribution panel</b> consisting of HARO multiplex plywood BFU 100, according to DIN 68705, part 3, screwed onto the counterfloor. Dimension: 2440 x 1220 mm		12 mm
<b>Overall height of construction</b> (without sports coating)		81 mm
Performance Values acc. DIN 18032 Part II	Munich 35	Munich 50
<b>Shock absorption, % ≥ 53 (min. value)</b>	62 %	60 %
<b>Vertical deformation, mm ≥ 2,3 (min. value)</b>	2,9 mm	2,3 mm
<b>Behavior under rolling load, 1500 N</b>	✓	✓
<b>Ball reflection, % ≥ 90 (min. value)</b>	95 %	92 %
<b>Area deflection, % ≤ 15 (av. value)</b>	11,3 %	14,2 %
<b>Concrete slab tolerances</b> according to DIN 18202:1997-04, figure 3	3 mm (1/8") in a radius of 1 meter (3' 3") 9 mm (3/8") in a radius of 4 meter (13' 1") 12 mm (1/2") in a radius of 10 meter (39' 4") 15 mm (5/8") in a radius of 15 meter (49' 2")	

Models MUNICH 35 and 50 entirely meet and exceed the EN 14904, DIN V 18032-2; April 2001 and are subject to the annual quality control RAL GZ 942. Model Munich 50 is also subject to the Austrian standard OISS directive 08/2005

