

## KTL SPORT PRO II SYSTEM – 2 LAYER SYSTEM



KTL SPORT PRO II - 2 LAYER SYSTEM is an area-elastic sports floor, based on 22mm solid hardwood 2-strip parquet boards, nailed to the resilient 1-layer PRO II batten system, which is installed onto un-elastic under battens, levelled over concrete subfloor. Total construction height, excluding packing material is 136 mm. Can be raised to 250mm.

The sports performance of this floor features high shock absorbency and resilience combined with ultimate stability under foot, designed for multi-purpose use with focus on ball games, badminton and gymnastics. Tested and conforms fully to EN 14904, Class A4. The elastic shock pads features build-in deformation control, securing maximum loading capacity - also towards heavy equipment, combined with long-term protection of the floor resilience.

### COMPOSITION OF FLOOR SYSTEM

#### 1. Floor boards:

22 x 130 x 2180mm solid 2-strip parquet boards, secretly nailed onto battens according to a specified 10-board measurement and a board pattern.

Wood species:

Ash, Beech, Hevea, Maple, Oak.

Grades: Premium/Select

Surface: Matt lacquer (standard factory lacquer) and semi-gloss

#### 2. Nails:

2.2 x 45mm machine nails

#### 3. Sports Batten System:

KTL SPORT PRO II,  
(Mrk.: KTL/SBS/22/64/363/500)  
Batten in Laminated Veneer Lumber (LVL) of pine in 30 x 58 x 3500mm, with resilient shock pads in sports shoes, pre-fixed into a grooved backside at c/c 500mm.

Batten distance:

c/c 363.3mm (Ash/Beech/Maple)

c/c 311.4mm (Hevea/Oak).

#### 4. Under batten:

Raiser batten, c/c 500 mm, e.g. 40x63x3600 mm with 9mm veneer for extra packings per max 600 mm. Upper battens are fixed to the under battens by stabling through the shock pads into the under battens.

#### 5. Packings:

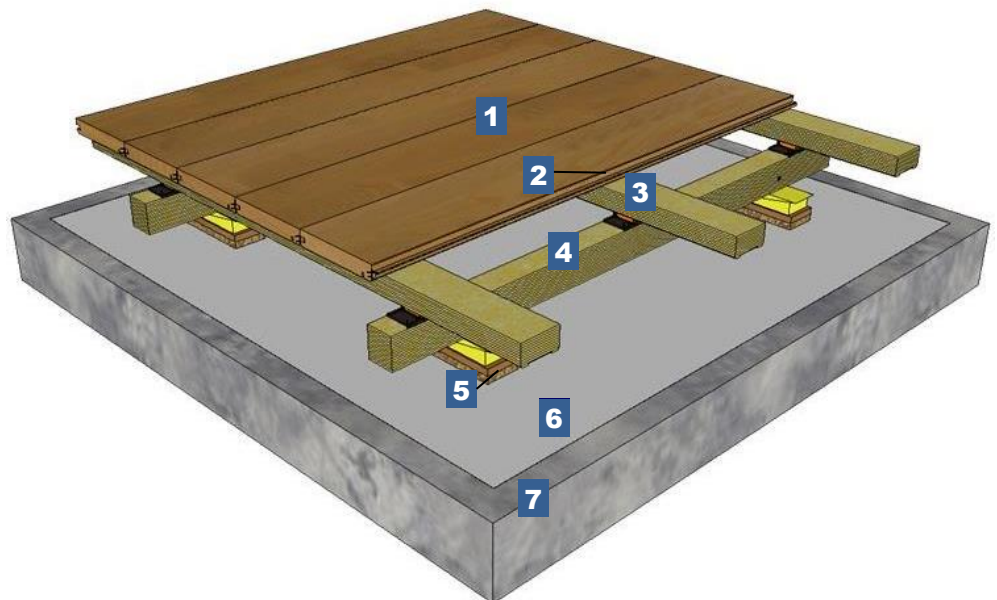
Plastic wedges, bitumen paper, plywood or other stable material. The packing is fixed on the sports shoes using 2 pcs. of stables.

#### 6. Moisture barrier:

Min. 0.20 mm PE-folio

#### 7. Subfloor:

Concrete



#### Material consumption at 100 m2:

	Batten distance, c/c 363mm	Batten distance, c/c 311mm
■ Floor boards:	100 m2 + 2% waste	100 m2 + 2% waste
■ Nails, 2.2x45mm:	Approach. 1850 pcs.	Approach. 2250 pcs.
■ PRO II Sports Battens:	290 rm.	330 rm.
■ Shock pads (incl.)	550 pcs.	650 pcs
■ Stables:	1100 pcs.	1300 pcs.
■ Under battens, un-elastic	200 rm.	200 rm.
■ Packings for 40x63mm	340 pcs.	340 pcs.
■ Loose tongue:	1 x length of floor (m)	1 x length of floor (m)
■ PVAC glue:	0.1 litre	0.1 litre
■ Moisture barrier:	110 m2 incl. overlap	110 m2 incl. overlap
■ Line marking:	Line marking can be applied directly onto the factory finish, using a special 2-pack water-based paint system, ready for use after curing.	
■ Maintenance lacquering:	When maintenance lacquering is required, the floor is buffed, before the maintenance coat of lacquer is applied onto the surface. Verify adhesion of the maintenance lacquer before starting the job.	

#### MANUFACTURER

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KTL SPORTS FLOORING  
SPECIFICATION  
PRO II 2-LAYER SYSTEM  
E 4.0  
23-03-2017 (UK)



## Performance:

## Sports functional features of KTL SPORT PRO II – 2 LAYER SYSTEM

Test method	EN Standards	EN demands acc to Class A4	Test results at c/c = 363mm*
Shock absorption [%]	EN 14904:2006	55 – 75	<b>63</b>
Standard deviation [mm]	EN 14904:2006	2.3 – 5.0	<b>2.6</b>
Ball rebound [%]	EN 12335:2004	≥ 90	<b>95</b>
Rolling load [N]	EN 1569	Min. 1500	<b>&gt; 1500</b>
Friction	EN 13036-4	80 – 110	<b>80 - 90</b>
Other Tests			
Friction	DIN 18032	0.4 – 0.6	<b>0.41</b>
Loading Capacity	EN 1533	4.0 kN	<b>5.0/6.0 kN</b>

\*) Tested by Technological Institute, DK.

## SPECIFICATION OF KTL SPORT PRO II – 2 LAYER SYSTEM

## Floor boards:

22 x 130 x 2180mm solid 2-strip parquet boards of [Ash/Beech/Hevea/Maple/Oak] in the grade [Premium/Select], composed from two rows of finger joined staves, assembled by a longitudinal glued centre joint. The boards are profiled with tongue and groove on all 4 sides.

Boards are secretly nailed onto the sub-construction, using 2.2 x 45mm machine nails.

2-layer system  
(Total height > 120mm)

Batten in Laminated Veneer Lumber (LVL) of pine in 30 x 58 x 3500mm, with resilient shock pads in sports shoes, grooved into the backside, c/c 500mm, installed onto battens at c/c distance of [363mm/311mm for Ash/Beech/Maple or 311mm for Hevea/Oak], fixed with stables onto raised levelled and non-elastic under battens of LVL [45x40mm or 63x40mm] packed by means of [wedges, bitumen paper and/or plywood] to required overall construction height of [x mm]. Recommended height, H: 120-250mm.

## References:

- KTL SPORT brochure.
- KTL product datasheet for parquet floor boards.
- KTL laying instruction on PRO II system.
- KTL cleaning and maintenance for sports floors.
- [www.ktlfloor.com](http://www.ktlfloor.com) or contact Technical Service at KTL for consultancy.