

## KTL SPORT PRO II 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 2-layer PRO II 2-layer batten system, 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) or semi-gloss factory finish.

#### 2. Nails:

2.2 x 45mm machine nails.

#### 3. Upper batten:

KTL SPORT PRO II,  
(Mrk.: KTL/SBS/22/64/311/437)  
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 437mm. Batten distance: c/c 311.4mm

#### 4. Under batten:

LVL batten, c/c 437.5 mm, 40 x 63 x 3737mm with 9mm ply feet and possible levelling materials every 622.8 mm. Upper battens are fixed to the under battens by stabling through the shock pads into the under battens.

#### 5. Packings:

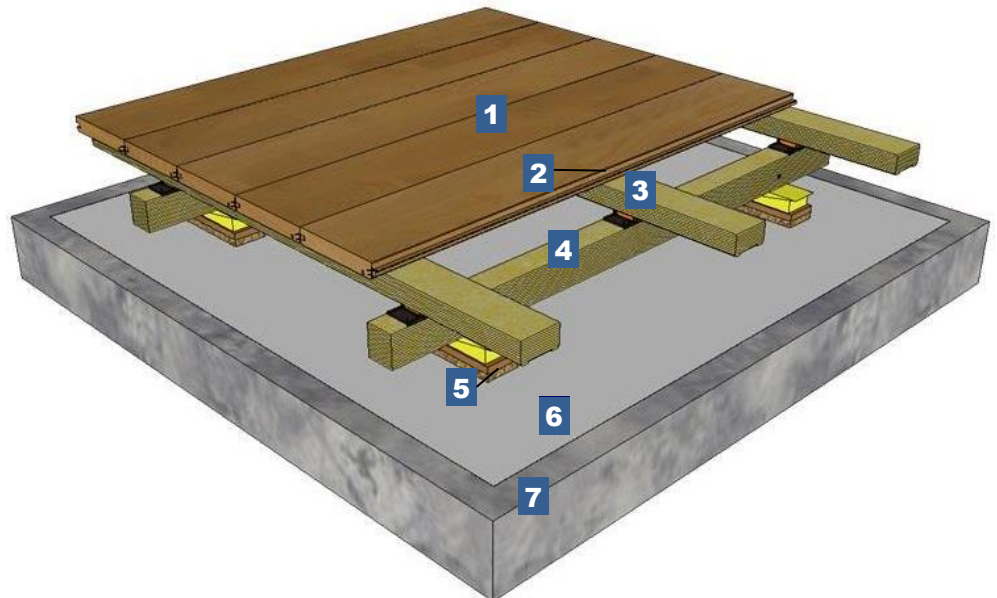
Plastic wedges, bitumen paper, plywood or other stable material. The packing is fixed to the 9mm ply feet using 2 pcs. of stables.

#### 6. Moisture barrier:

Min. 0.20 mm PE-folio

#### 7. Subfloor:

Concrete



#### Material consumption at 100 m<sup>2</sup>:

- Floor boards:
- Nails, 2.2x45mm:
- PRO II upper battens, 30x58x3500mm:
- Shock pads (incl.):
- Stables:
- Under battens, 40x63x3737mm:
- Packings for 40x63mm:
- Loose tongue:
- PVAC glue:
- Moisture barrier:

#### Batten distance, c/c 311.4mm

- 100 m<sup>2</sup> + 2% waste
- Approach. 2250 pcs.
- 338 rm.
- 740 pcs
- 1500 pcs.
- 230 rm.
- 370 pcs.
- 1 x length of floor (m)
- 0.1 litre
- 110 m<sup>2</sup> 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

KTL INTERNATIONAL SDN BHD  
Lot 121 & 123, Jalan Enam,  
Komplek Perabot Olak Lempit,  
4270 Banting, Selangor, Malaysia

#### SALES & SUPPORT

KTL Domestic +60 3 3149 3128  
KTL Export +60 1 22676366  
KTL Europe +45 4432 8450  
[www.ktlsport.com](http://www.ktlsport.com) • [sales@ktlfloor.com](mailto:sales@ktlfloor.com)

#### KTL SPORTS FLOORING

SPECIFICATION  
PRO II 2-LAYER SYSTEM  
E 5.2  
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, c/c
			311.4mm
Shock absorption [%]	EN 14904:2006	55 – 75	<b>64</b>
Standard deviation [mm]	EN 14904:2006	2.3 – 5.0	<b>2.5</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 [kN]	EN 1533	4.0	<b>6.0</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 jointed 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 > 136mm)

Batten in Laminated Veneer Lumber (LVL) of pine in 30 x 58 x 3500mm, c/c 311mm, with resilient shock pads in sports shoes, grooved into the backside every 437.5mm, fixed with staples onto under battens, 40x63x3737mm, packed under 9mm feet, c/c 622.8mm, by means of plywood, wedges, bitumen paper, to required overall construction height of [x mm]. The ply feet under the lower battens are staggered 50% (311.4mm) between rows. Height, H: 136 to around 250mm.

## References:

- KTL SPORT brochure.
- KTL product datasheet for parquet floor boards.
- KTL laying instruction on PRO II 2-layer system.
- KTL cleaning and maintenance for sports floors.
- [www.ktlfloor.com](http://www.ktlfloor.com) or contact Technical Service at KTL for consultancy.

## MANUFACTURER

KTL INTERNATIONAL SDN BHD  
Lot 121 & 123, Jalan Enam,  
Komplek Perabot Olak Lempit,  
4270 Banting, Selangor, Malaysia

## SALES &amp; SUPPORT

KTL Domestic +60 3 3149 3128  
KTL Export +60 1 22676366  
KTL Europe +45 4432 8450  
[www.ktlfloor.com](http://www.ktlfloor.com) • sales@ktlfloor.com

## KTL SPORTS FLOORING

SPECIFICATION  
PRO II 2-LAYER SYSTEM  
E 5.2  
23-03-2017 (UK)