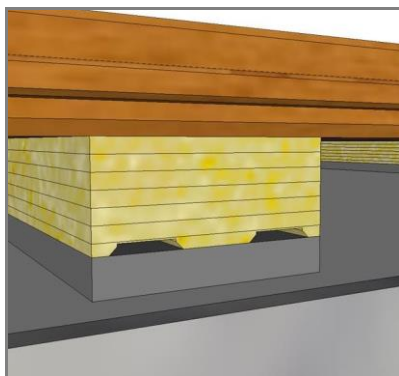


## KTL SPORT MULTIFLEX ADVANCED SYSTEM



KTL SPORT MULTIFLEX ADVANCED is an area-elastic sports floor, based on 22mm solid hardwood 2-strip parquet boards, nailed to a resilient 1-layer batten system, installed floating on levelled concrete or wooden based subfloor. Total construction height incl. floor board is 52mm.

The sports performance of this floor features medium shock absorbency and resilience, high ball bounce 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 A3.

The battens feature build-in progressive shock absorbency through the double grooved profile, securing resilience at both low and heavy dynamic impacts.

### 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 and 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 MULTIFLEX ADVANCED, (Mrk.: KTL/SBF/22/52/363)

Batten profile in Laminated Veneer Lumber (LVL) of pine in 20x48x3600mm, continuously supported by 10x48mm elastic foam strips, glued to a double grooved batten underside.

Batten distance (standard):

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

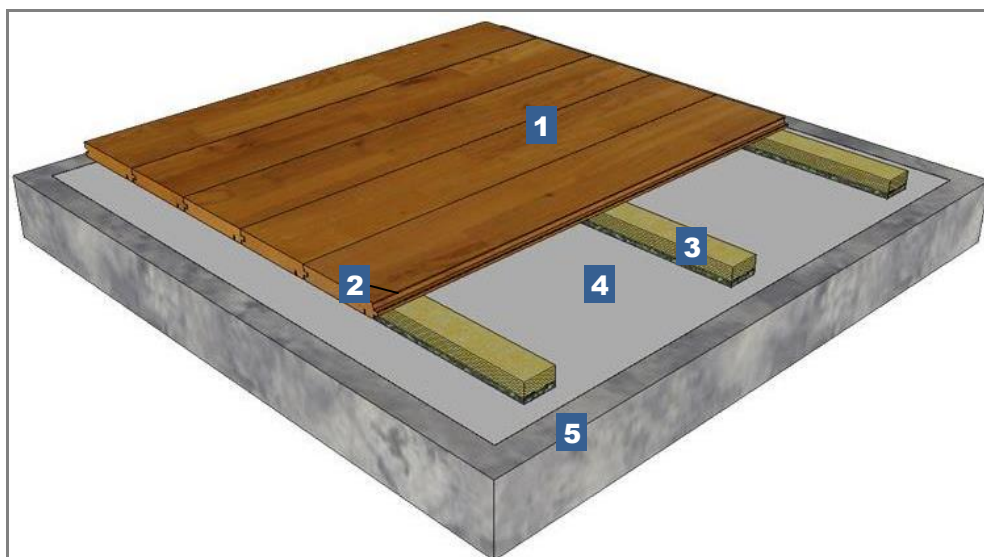
c/c 311.4mm (Hevea/Oak)

#### 4. Moisture barrier:

Min. 0.20 mm PE-folio (on concrete)

#### 5. Subfloor:

Concrete, alternatively existing wooden subfloor, levelled to a minimum deviation of max. ± 2mm on a 2m straight edge.



### 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.
■ Sports Battens:	290 rm.	330 rm.
■ 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, and is ready for use after hardening.	
■ Maintenance lacquer:	When maintenance lacquering is later 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

KTL SPORTS FLOORING  
SPECIFICATION  
MULTIFLEX ADVANCED SYSTEM  
E 2.0  
22-10-2015 (UK)

**Performance:**

**Sports functional features of KTL SPORT MULTIFLEX ADVANCED SYSTEM**

Test method	EN Standards	EN demands acc to Class A3	Test results at c/c = 363mm*
Shock absorption [%]	EN 14904:2006	40 – 55	<b>53</b>
Standard deviation [mm]	EN 14904:2006	1.8 - 2.5	<b>2.0</b>
Ball rebound [%]	EN 12335:2004	≥ 90	<b>98</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>4.0/5.0 kN</b>

\*) Tested by Technological Institute, DK.

**SPECIFICATION OF KTL SPORT MULTIFLEX ADVANCED 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 glued 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 sub construction using 2.2 x 45mm machine nails.

**Sub-construction:**

Battens in Laminated Veneer Lumber (LVL) of pine in 20 x 48 x 3600mm, continuously supported by 10x48mm elastic foam strips, glued to the double grooved batten underside, installed floating on levelled [concrete/wooden floor/existing sports floor] at a batten distance, c/c [363mm/311mm for Ash/Beech/Maple or 311mm for Hevea/Oak]. Total construction height incl. floor boards is 52mm.

**References:**

- KTL SPORT brochure.
- KTL product datasheets for parquet floor boards.
- KTL checklist re. choice of sport floor (wood specie, loading capacities, building heights) and KTL requirements re. site conditions and workmanship.
- KTL Laying instruction MultiFlex Advance system.
- KTL Cleaning and maintenance for sports floors.
- [www.ktlfloor.com](http://www.ktlfloor.com) or contact Technical Service at KTL for consultancy.