



# PROFESSIONAL SPORTS FLOORING

# COMBI FLOORS



## KTL is an innovator and supplier of professional Sports Floor Systems

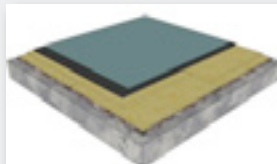
In addition to our wide range of sports flooring systems in solid hardwood, we have developed a new range of resilient subfloors, which in combination with a top coat of Linoleum, Polyurethane (PU) or Vinyl (PVC) can be transformed into a sports floor with a specific performance tailored to your needs.

### KIM TECK LEE Group of Companies

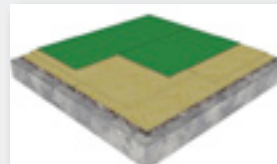
**Head Office & Factory**  
 Lot 121, Jalan 6, Olak Lempit Industries Park  
 42700 Banting, Selangor, Malaysia  
 Phone Domestic: +603 3149 3128  
 Fax: +603 3149 3494  
 Phone Export: +6012 267 6366  
 Email: sales@ktlfloor.com

**KTL Europe**  
 Walgerholm 7  
 DK-3500 Vaerloese  
 Denmark  
 Phone: +45 4432 8450  
 Email: tech@ktlfloor.com

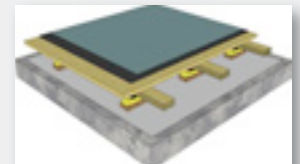
[www.ktlsport.com](http://www.ktlsport.com)



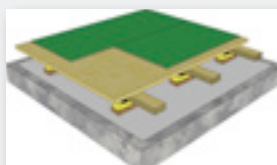
KTL COMB I + PU



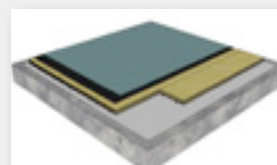
KTL COMB I + Sports Vinyl



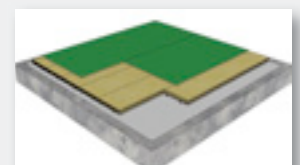
KTL COMB II + PU



KTL COMB II + Sports Vinyl



Optifloor + PU



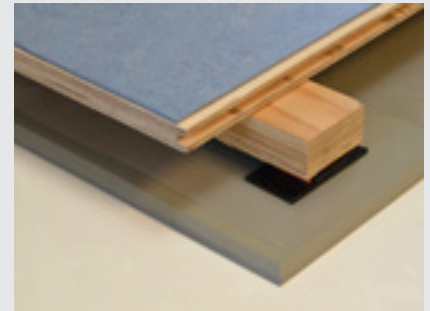
Optifloor + Sports Vinyl

# KTL COMBI FLOORS

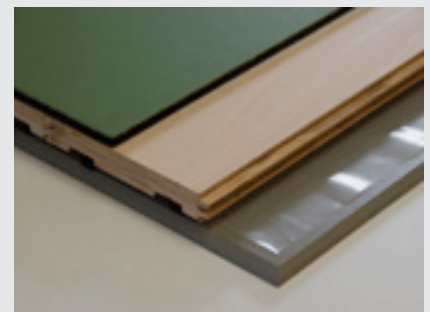
- COMB I base: 2x9mm layer of birch plywood sheets over 15mm bonded, foam installed over level subfloor
- With a top coat of 6.5mm sports vinyl, glued with welded joints the system is featuring high performance combi-elastic characteristics acc. to EN 14904, Class C4
- Total construction height is 40mm



- COMB II base: 18mm birch plywood fixed to PRO II battens, incl. high density shock pads with deformation control, installed as raised floors over uneven subfloors
- With a top coat of 4mm linoleum, glued with welded joints, the system is featuring high performance area-elastic characteristics acc. to EN 14904, Class A4
- Total construction height is 64mm



- Optifloor: 21mm birch plywood boards, incl. a 2-step rubber strip system on the backside, jointed by edge gluing and installed over even subfloors
- With a top coat of 7+2mm polyurethane, glued without any joints, the system is featuring high performance combi-elastic characteristics acc. to EN 14904, Class C4
- Surface renovation possible
- Total construction height is 35mm



TEST METHOD	EN STANDARD	EN DEMANDS ACC TO CLASSES		TEST RESULTS						
		A4 / C4	A3 / C3	COMB I base+*	COMB I + PVC 6.5	COMB I + PU 7+2	COMB II base+*	COMB II + PVC 6.5	COMB II + PU 7+2	Optifloor + PU 7+2
				A3	C4	C4	A4	C4	C4	C4
Shock absorption [%]	EN 14904: 2006	55 – 75	40 – 55	53	59	59	62	65	64	63
Standard deviation [mm]		2.3 – 5.0	1.8 – 3.5	3.0	3.9	4.1	2.7	3.7	3.7	3.2
Standard deviation top layer [mm]		C4: 0.5-2.0	C3: 0.5-2.0	-	1.3	1.0	-	1.3	1.0	1.0
Ball rebound [%]	EN 12335: 2004	≥ 90		99	98	98	95	94	95	94
Rolling load [N]	EN 1569	Min. 1500		> 1500	> 1500	> 1500	> 1500	> 1500	> 1500	> 1500
Friction	EN 13036-4	80 – 110		80-110	88	90	80-110	88	90	90

\* ) Base floor of plywood + a non-elastic floor covering, e.g. linoleum or 2mm PU