Airflex Smash Wooden Flooring

Heads	Description
Product Intro	Wooden Flooring is one of the most suitable species for sport Wooden Flooring. With the light pale colour, stability, and moderate density, this is one of the best product for Indoor Sports Flooring solutions
Species	Hevea
System thickness	75 mm (Comprising of 20mm Top Solid Wood followed by 45mm Pine Wood Runner and 10mm Power Rubber Pad)
Product Top Finished	Square Edge & UV Prefinished with Back Side Coating (Polished used of Klumpps from Germany which is sweat and saliva resistance according to DIN 53160-1/2)
Construction	
Site Reference Images	
Recommended Usage	Sports Hall, Dance Rooms, Yoga Rooms, Fitness Centres, Gymnasium, Basket Ball Court, Squash Court, Badminton Court and recreational areas
Product Size and Packaging	Wooden Flooring Strip Size: 20 x 120 x 1800 mm (2-Strip) 1 Box will have 6 Strips which equals to : 1.296 Sqm 4 Sided Tongue and Groove System Placement of Runners with 350mm Spacing Centre to Centre Placement of Rubber pads on every 300mm
Grade	**Available in 2 Grades (AB & ABCD Mixed Grade)** **AB grade** is mostly clear with some small knots **ABCD mixed grade** means a mixture of clear and knotty piece 

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Key features of Raw Material and Sports Features	**100% sustainable and manageable plantation resources** Our raw material come from local rubber plantation farm with the eco-friendly manufacturing process **Kilned and dried technology** Our factory use high technology drying process to protect the quality of wood, and maintaining the suitable moisture content **Non-Toxic Pest Prevention** We use non-toxic pest and fungi and fungi prevention which not cause harmful to user as well as kids and pets **Water based, Non-VOC coating material making it Environmental friendly** We use water-based wood stains, non VOC paints and non VOC coating with no heavy metal and mercury that cause harmful to health & environment **Area elastic** Area elastic floors deflect any impact over a much wider area and have much greater shock absorption and vertical deformation than a typical point elastic system **E-ZERO Glue (D4)** Since we concern the effect of Formaldehyde, we use E-zero (E-0) glue (D4) which is certified by international standard
Warranty	6 Years against any manufacturing defects Life Span - Over 15-20 Years (if properly maintained)

Technical Test	**International Standards**	**Classification**
Gloss Value	DIN EN ISO 2813	33 - 34%
Inflammability	DIN 4102	B1
Cross Cut Test	DIN EN ISO 2409	GT 0
Abrasion Resistance	DIN EN 438-2 (500g load per wheel S 33)	IP – 600cycle FP – 700cycle
Abrasion Resistance	ASTM D 4060 (500g load per wheel CS 17)	IP > 25000
Scratch Resistance Pencil Hardness	ISO 15184	3H
Scratch Resistance Coin Test	Hamberger planner	27N
Scratch Resistance Surface	Steel wool test, Type 2	No Scratch / No Marking
Resistance to Indentation	DIN EN 438 Part2 – 14	>= 2 Newton
Impact Resistance	DIN EN 438 Part2 – 12	>= 2 Newton
Heat Resistance	EN 12722	120 ° C / Rating 5
Reaction to Fire	EN 13226	Efl
CE Certification	-	Yes

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SPORTS FLOORING TECHNICAL SPECIFICATION

Product Intro.	8.0 MM Thick Heterogeneous Sports Vinyl Flooring	6.7 MM Thick Heterogeneous Sports Vinyl Flooring	4.0 MM Thick Heterogeneous Sports Vinyl Flooring
Site Reference Images			
Multi Color Options Available (All Colors can be made available against Project Order's)-Colors are approximate representations, plesae check shade cards for exact representation			
Warranty for Manufacturing Defects	10 Years	10 Years	5 Years
Importing time in case not in stock	8 to 12 Weeks	8 to 12 Weeks	8 to 12 Weeks

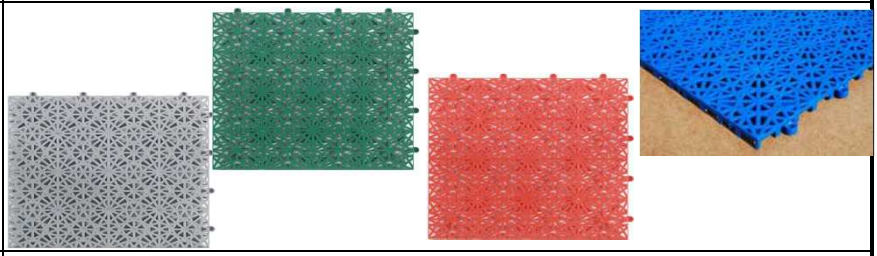
Surface	TECH Surface	TECH Surface	CLP
Backing	Closed cell double foam	Closed cell double foam	Closed cell PVC foam
Total Thickness	8.0	6.7	4.0
Weight	4.2	3.8	2.3
Width	2	2	2
Standard roll length	15 ± 10%	15 ± 10%	20 ± 10%
CLASSIFICATION			
Product specification	Vinyl indoor sport floor EN 14904 (category P1)	Vinyl indoor sport floor, EN 14904 (category P1)	EN 651 Vinyl floor covering for indoor sport purposes Meets the requirement of EN 14904 on a sub-construction
Impact sound insulation	21	22	17
Thermal resistance	0.08	0.07	0.03
Reaction to fire	meets European norms EN 13501-1: C_{fl}-s1	meets European norms EN 13501-1: C_{fl}-s2	meets European norms EN 13501-1: C_{fl}-s1
Formaldehyde emission	No formaldehyde	No formaldehyde	No formaldehyde
Pentachlorphenol	No pentachlorphenol	No pentachlorphenol	No pentachlorphenol
SPORTS PROPERTIES			
Friction	80-110	80-110	-
Shock absorption	34	33	-
Vertical deformation	1.3	0.8	-
Ball rebound	98	99	> 90
Specular gloss	< 30	< 30	< 30
TECHNICAL CHARACTERISTICS			
Dimensional stability	± 0.2	± 0.2	± 0.2
Indentation resistance	0.49	0.19	0.35
Resistance to rolling load	1500	1500	-
Colour fastness	6	6	6
Chemical resistance	no change	no change	no change
Abrasion resistance	< 250-T group	< 250-T group	T group
OTHERS			
Antimicrobal treatment	GraboSAN	GraboSAN	GraboSAN
Enviromental attributes	No periodic renewal neeeded; Solvent and heavy metal free	No periodic renewal neeeded; Solvent and heavy metal free	No periodic renewal neeeded; Solvent and heavy metal free

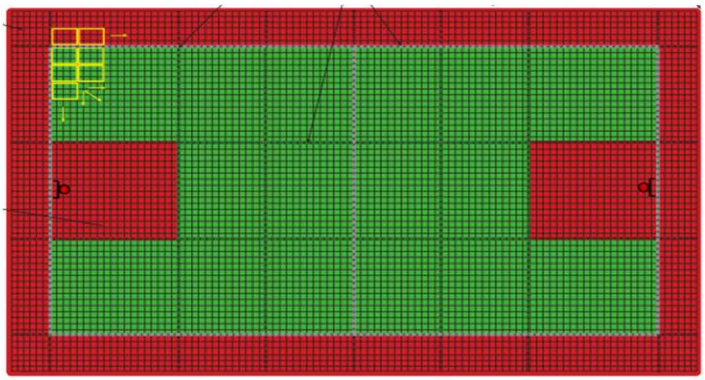
Acrylic Flooring Technical Specifications

Descriptions	
Product Intro	5 Layer **Upto** 2.0 MM Thick ITF Approved Acrylic System
Site Reference Images	
Suitable Area	Outdoor (can be used Indoors)
Areas of Usage (The product can be used for any outdoor sport such as tennis, basketball, volleyball, handball, badminton etc)	Any outdoor court where speed is more critical and where no cushioning is required
Certifications	ITF Certified
Benefits	Durable & Required Minimal Maintenance, All weather suitable /Friendly, UV Ray resistant
Time taken for importing product if not in stock	8 weeks if product has to be imported
Color Options Available in Stock (Most of Time)	
Limited warranty	1 year warranty against manufacturing defects on Asphalt Base such as delamination or drastic decoloration of the product
Maintenance Guidelines	**Weekly, or as required:** The surface should be cleared of all dirt or leaves using a brush, Chewing gum should be removed immediately / **Annually:** The surface may be cleaned with a high pressure power washer
Subfloor	Asphalt preferred/concrete possible but not as good
Thickness	Upto 2 MM
Weight	2.67 kg/m2
Product Brief Details (Layers with Line Marking)	5 Layer System with Acrylic latex to repair Subfloor Minor Cracks, followed by Primer Layer to improve bonding of acrylic paint with subfloor, Acrylic Resurfacer Layer for filling and smoothing subfloor following by Dual Layers of 100 % acrylic base color coat followed by Top Color coat to protect flooring against UV Rays FINAL OVERLINE MARKING WITH ACRYLIC PAINT

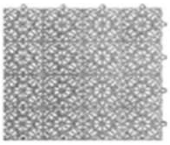
Annexure -D

PP TILES SPORTS FLOORING TECHNICAL SPECIFICATION

DESCRIPTION	Suspended Modular PP Tiles Flooring	
Product Intro.	Multi Purpose PP Tiles	
Product Picture		
Site Reference Images	 	
Application Area	Best for Multi-Purpose Areas, and other High Impact Sports like basketball	
Benefits	*Can withstand all types of climates and environments *For indoors and outdoors. *Easy to install/move. *Requires minimal maintenance *Ergonomic – good for joints and backs *Correct bounce across the whole court *Extremely durable *Excellent drainage capability *Allows the surface beneath to breathe *All-weather court – dries quickly after rain. *Soundproofing properties *Ideal on worn asphalt and cracked concrete	
Standard Color Options		
Other Color Options		
Warranty for Manufacturing Defects	10 Years (Pls refer Warranty Card as well)	
Importing time in case not in stock	8 to 12 Weeks	8 to 12 Weeks

Referece Design for a Standard Basketball Court (Size 32m L x 19m W)	

TECHNICAL INFORMATION



MULTISPORT

Material:	PP	ISO2076	Environmentally friendly recyclable UV-stabilized polypropylene with mineral additive.
Size of tile: /Plattans storlek:		EN427	303,3 x 303,3 mm.
Thickness of tile: /Plattans tjocklek:		EN428	14,1 mm.
Wieght: /Vikt:		EN430	1 tile: 0,342 kg. 5 m²: 19,55 kg (Maxi-pack). 4x3 tiles: 4,53 kg (Preassembled sheets).
Point load: /Punktbelastning:		QUALIFIED TEST BY BERGO	500 ton / 1 m² = 5000 kg/dm²
Light fastness: /Ljusbeständighet:		EN 14836 (>3) ISO 105-B02 (1-8) ISO 105-A02	4-5 7-8 4/5
Weather Fastness /UV-Floorida test (1-5):		ASTM D1435 ASTM G154 Cycle A	4/5
Slip resistance: /Halkmotstånd:		EN13036-4 SS EN-13893 DIN 51130	108 PTV >0,4 R10
Impact resistance: /Slagtålighet:		ISO179/1eA ASTM D746	+23 °C = 20 kJ/m² / -20 °C = 5 kJ/m² C15 kJ/m²
Fire category /Brandklassning:		EN ISO 11925-2	E_n
CE certification:	CE	EN 14041	0402-CPD-P605080A
Shock absorbtion: /Stötupptagning	EN 14877	EN 14808	6 %
Vertical deformation: /Svikt	EN 14877	EN 14809	0,3 mm
Vertical ball behaviour: /Bollstuds	EN 14877	EN 12235	98 %
Resistance to wear: /Nötningsmotstånd	EN 14877	EN ISO 5470-1	0,1 g / 1000 cycles
Water infiltration rate (broken-through pattern): /Vattengenomsläpplighet	EN 14877	EN 12616	Requirement very well achieved. Uppfyller kraven med god marginal.

		Results	FIBA* requirements	Pass/Fail
Friction:	EN 13036-4	97	80-110	Pass
Shock absorbtion:	EN 14808	29 %	≥ 25	Pass
Vertical deformation:	EN 14809	2.3 mm	≤ 3,5	Pass
Vertical ball rebound:	EN 12235	97 %	≥ 90	Pass

Meets the standards of FIBA

* FIBA requirements for levels 2 and 3: Mobile synthetic flooring

Packaging:	Quantity / packaging unit:	Quantity / pallet:	Size of pallet:
Maxi-pack carton	5 m² = 55 tiles	1 pallet = 36 cartons =180 m2	1,30 x 0,98 x 2,60 m =3,3 m3, 754 kg gross weight
Preassembled sections	1 section = 4 x 3 tiles = 1,1 m²	1 pallet = 75 sections = 81,8 m²	1,26 x 0,96 x 1,21 m = 1,46 m3, 339 kg gross weight
Bulk		1 pallet = 84 m²	1,30 x 0,98 x 1,22 m = 1,55 m³, 330 kg gross weight

EXPLANATION OF EXPANSION IN VARIOUS TEMPERATURES/FÖRKLARING TILL UTVIDGNING I OLIKA TEMPERATURER

Expansion: 0,015 % per 10 °C

Formula for the size of the expansion: (0,0015 x length of the floor) x (number of increased degrees /10) / Formel för själva expansionens (utvidgningens) storlek: (0,0015 x längden av golvet) x (temperaturökning (i grader)/10)
Formula for the length of the floor after the expansion: Earlier length + Length of the expansion

Example / Exempel	Length of floor / Längd på golvet	Calculation / Uträkning	Expansion	Length of floor after expansion / Längd på golvet efter expansion
0°C–10°C	10 m	0,00075 x 10 m x (10°C/10) = 0,0075 m (=0,75 cm)	0,75 cm	10,0075 m
0°C–30°C	10 m	0,00075 x 10 m x (30°C/10) = 0,0225 m (=2,25 cm)	2,25 cm	10,0225 m
20°C–40°C	20 m	0,00075 x 20 m x (20°C/10)= 0,03 m x (= 3 cm)	3,0 cm	20,03 m

10 YEAR GUARANTEE

ISO 9001 SFK

05 PP

CE 07

DE GRÖNA PUNKT

Meets the standards of FIBA

SYSTEM 1