

**TRIOFLOR<sup>®</sup>**

**TRIOFLOR<sup>®</sup>**

**TrioFlex<sup>™</sup>**

Sports Flooring



**TRIOFLOR GROUP CO., LTD.**

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November 2019



# **TRIOFLEX**

## **ORIGINAL INDOOR SPORTS FLOORING SOLUTION**

TRIOFLEX is an original brand specialized in PVC sports flooring, all series are made of pure PVC, with kinds of pattern designs, bright colors and patented Glaze+ surface treatment, offers you the best sport surface.

TRIOFLEX sports flooring has been approved by ITF, BWF and ITTF, and it is the first and the only manufacturer in China who got the Floorscore certificate, which is the top standard of indoor air quality test.

TRIOFLEX is the official floor supplier of the 2017&2019 ITTF World Team Cup, 2017-2020 ITTF Pan American Cup, and 2017-2020 ITTF Pan American Championships.

TRIOFLEX cares about the players' feelings, health and safety, the aim is to make every player enjoy the sports freely.

TRIOFLEX has been insisting on being professional, environmental and innovative, it will bring you new experience of playing constantly.

## **NO TRIOFLEX NO SPORTS**

International event

Sports hall

School

Gymnasium

Fitness Center

Theme park



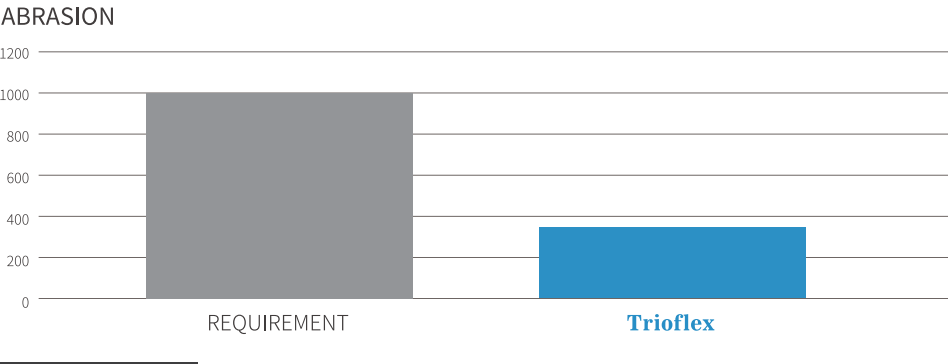
# WHY YOU SHOULD CHOOSE TRIOFLEX

## SAFETY

TRIOFLEX adopted the pure PVC material with even texture and high density of form layer. The super elasticity and resilience force makes sure the flooring is safe enough to play freely. The professional flooring design makes the friction coefficient kept between 0.45-0.60, the anti-slip and strong grip force prevent the players from injuries.

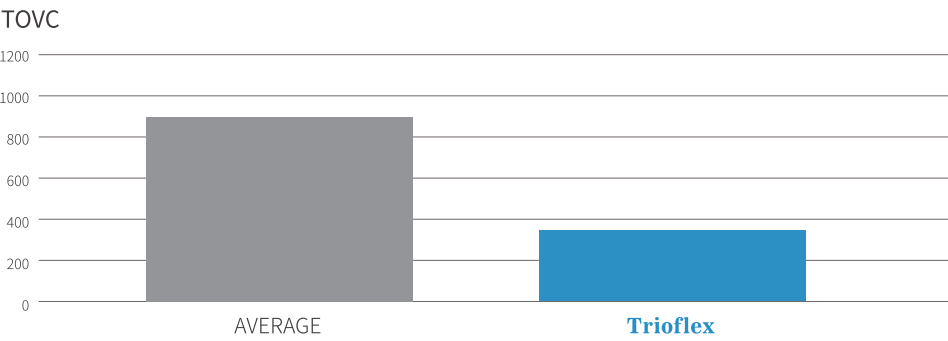
## ABRANSION LOSS

Trio flex was tested strictly according to EN14904 standard. For abrasion resistance test, under EN14904 standard, the abrasion loss is ≤ 350mg after 1000 rounds at the speed of 60 rounds/min with load of 2.5N, while the TRIOFLOR PVC sports flooring's abrasion loss is only 19.9mg, means the TRIOFLOR flooring is much more durable and anti-ware, it brings much longer life span than other brands.



## INDOOR AIR QUALITY

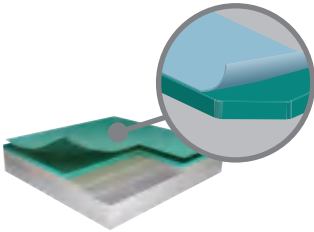
TRIOFLOR adopted the environmental-friendly material and fully adapted EU standard DOTP plasticizer. The TVOC emission is less than 350µg /m³ with no harm to players, and largely rednces the risk of asthma and other allergies.



# TECHNICAL SOLUTIONS

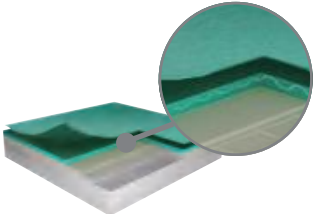
## GS tech

Trio flex patent surface treatment, solved the shoes mark problem, making the flooring easy to clean and maintain, largely reduced the maintenance cost.



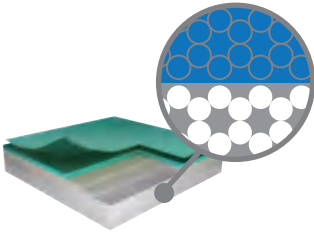
## DW tech

The reinforced unwoven polyester mesh, matched the super tenacity unwoven glass fiber layer, makes the flooring very stable on size, and the size changing rate under 0.1%, no shrinking.



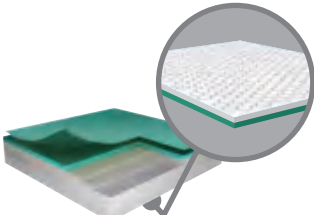
## HD tech

The low foaming rate of 2.2-2.5, make the flooring with best shock absorption, which is much higher than other brands based on same thickness.



## AM tech

The hexagon design of backing, with strong grip force prevent the flooring moving.

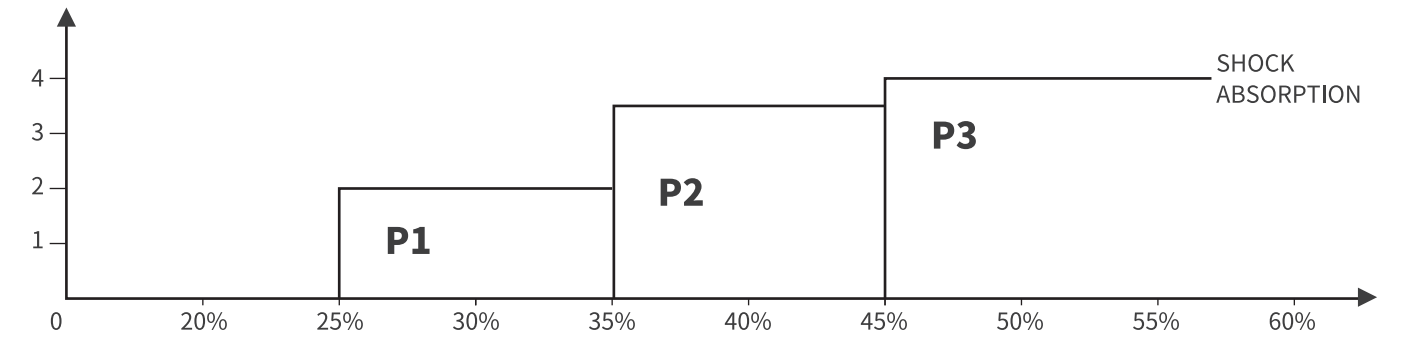


# INTERNATIONAL QUALITY STANDARD

## EN14904

EN14904	DESCRIPTION	STANDARD	REQUIREMENT	UNITS
sports properties	vertical deformation	EN 14809	≤ 3.5	mm
	shock absorption (force reduction)	EN 14808	≥ 25	%
	friction coefficient	EN 13036-4	80-110	-
technical characteristics	ball bounce	EN 12235	≥ 90	%
	indentation resistance	EN 1516	≤ 0.5	mm
	wheel resistance	EN 1569	≥ 1500	N
	impact resistance	EN 1517	≥ 8	N/m
	abrasion resistance	ENISO 5470-1	≤ 1000	mg
	gloss	ENISO 2813	≤ 30	%
	flatness	EN 13036-7	<6mm/3m	-
	fire rating	EN 13501-1	Cf1-S1	-
classification	formaldehyde emission	EN 717-1/2	≥ E1	-
	pentachlorophenol	EN 12673	<0.1	%

## VERTICAL DEFORMATION



P1,P2,P3:PVC sports flooring shock absorption classes as per the European standard.

# INDOOR AIR QUALITY

## FLOORSCORE

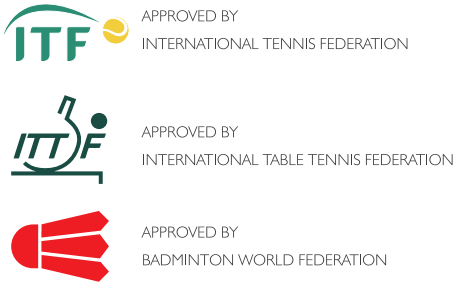
Compound name	CAS NO.	Allowable value	Standard Classroom Estimated Value	Standard Office Estimated Value	UNITS
noname	111-84-2	-	<20	<20	µg/m3
decane	124-18-5	-	<40	<40	µg/m3
n-hendecane	1120-21-4	-	<20	<20	µg/m3
phenol	108-95-2	100	pass	pass	µg/m3
2-(2-methoxyethoxy) ethanol	111-77-3	-	<20	<20	µg/m3
butylbiglycol	112-34-5	-	<10	<10	µg/m3
formaldehyde	50-00-0	9	pass	pass	µg/m3
acetaldehyde	75-07-0	70	pass	pass	µg/m3
unidentified compound	-	-	<150	<150	µg/m3
TVOC	-	-	<350	<350	µg/m3

Indoor air quality is the Key factors for judging PVC sports floor.

FLOORSCORE is the most authoritative indoor air quality standard



### International Sports Association Certification



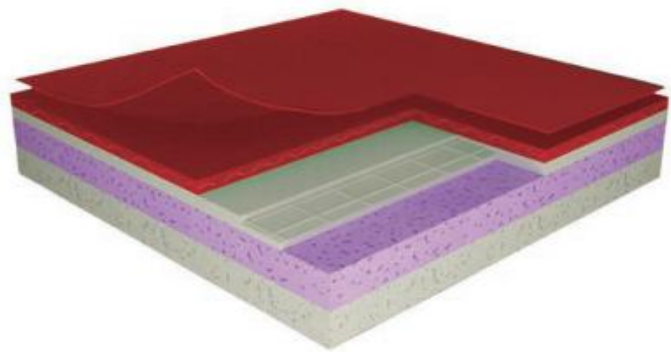
### International Quality System Certification



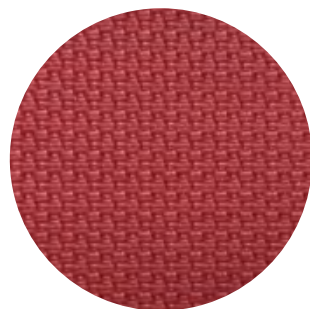




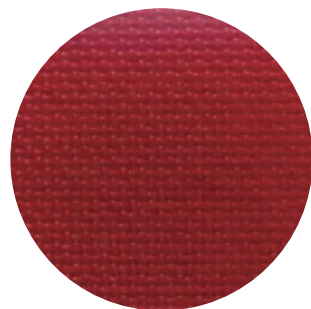
# TABLE TENNIS FLOORING



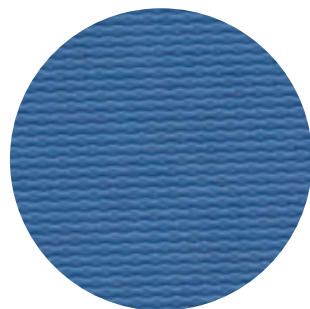
**GS**tech  
**HD**tech  
**AM**tech



SH5.0



SP5.0



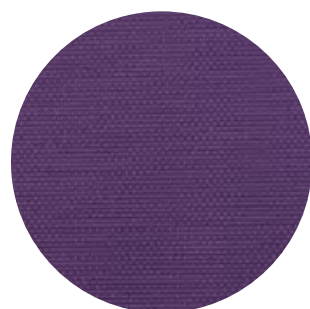
SP5.0B



SU5.0



SU5.0B

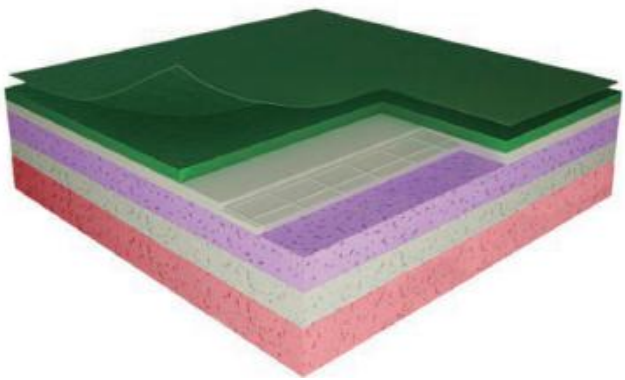


SU5.0P

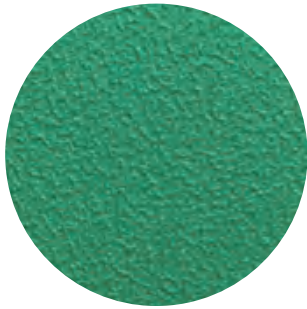




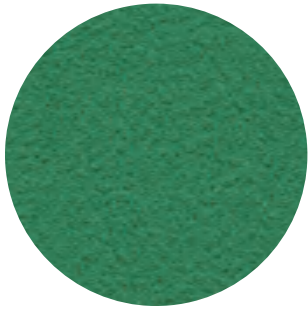
# BADMINTON FLOORING



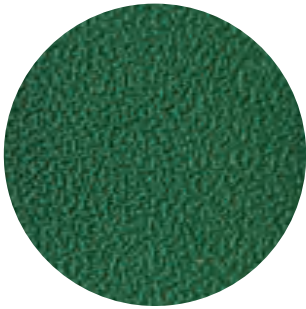
**GS**tech  
**HD**tech  
**AM**tech



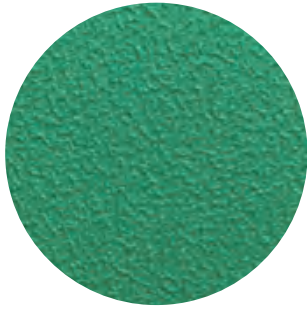
RC4.5



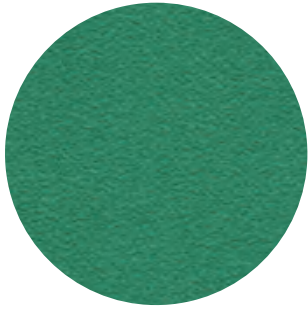
RE4.5



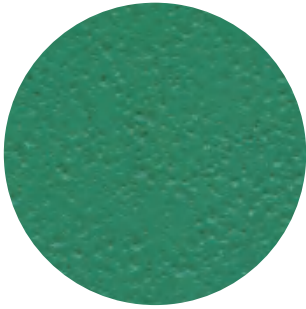
RH5.0



RS5.0



EX7.0



CM4.0







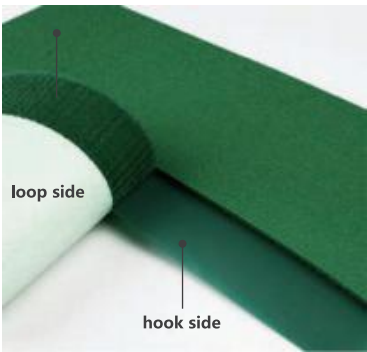
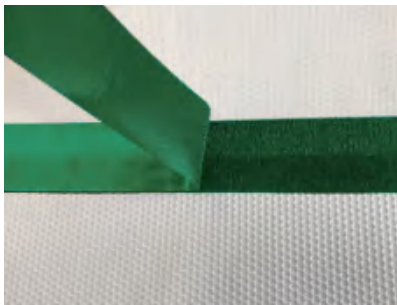
# PORTABLE BADMINTON FLOORING

## Product description

The total thickness of this product is 4.0mm with composited process, it increases the wear resistance more than 30% by PUR surface treatment.

Product structre thickness: wear layer 1.2mm, relief layer 0.8mm, sealed foam layer 2.0mm.

Be convenient to installing repeatedly, delivery, storage, suitable for removable courts. Shrinkage material used as stable layers, to ensure the assembly and disassembly repeated up to 1,000 times.



Bonding strength of velcro tape up to 2kg/cm2, prevent cracking during exercise. Loop side is down to install, and hook side is up to install, the advantage of this design is preventing excessive residue of dust or debris on sticker.

## Advantages

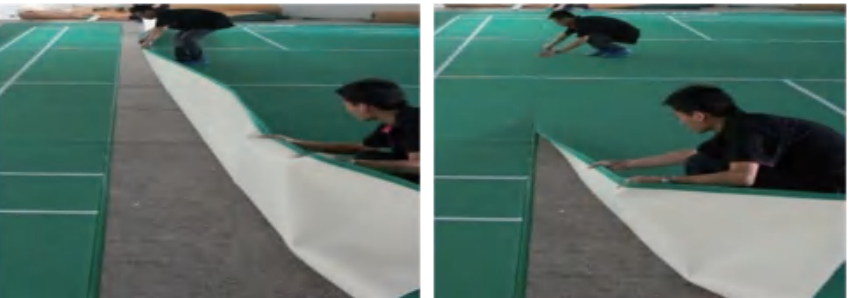
1.Be convenient to installing repeatedly, delivery, storage, suitable for removable courts.



2.It is not necessary to welding, court is more beautiful.

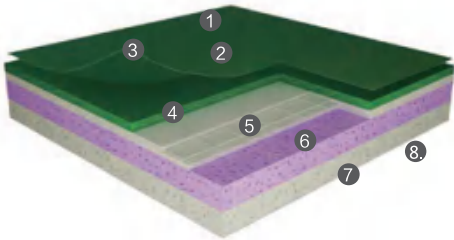


3.Easy installation, unskilled persons could also finish assembly quickly.



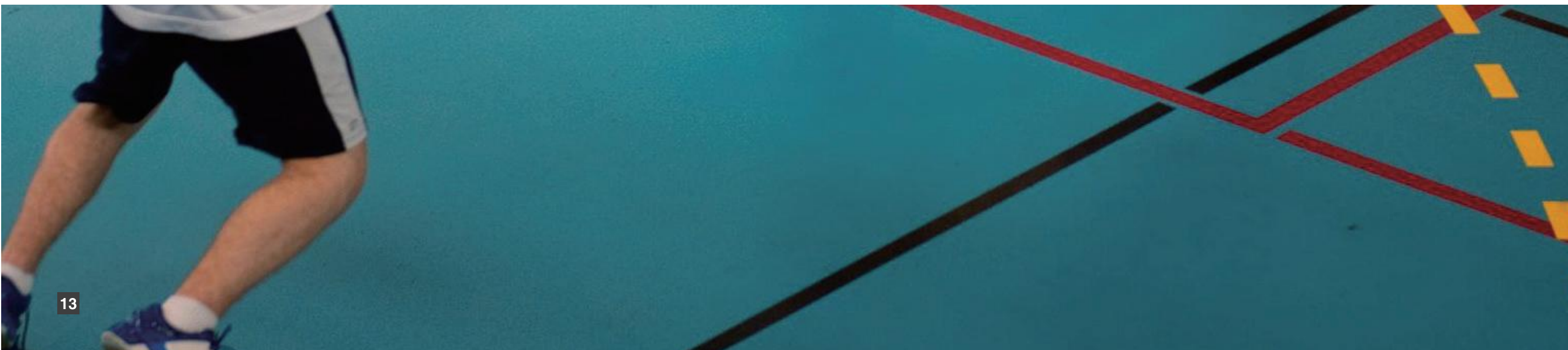
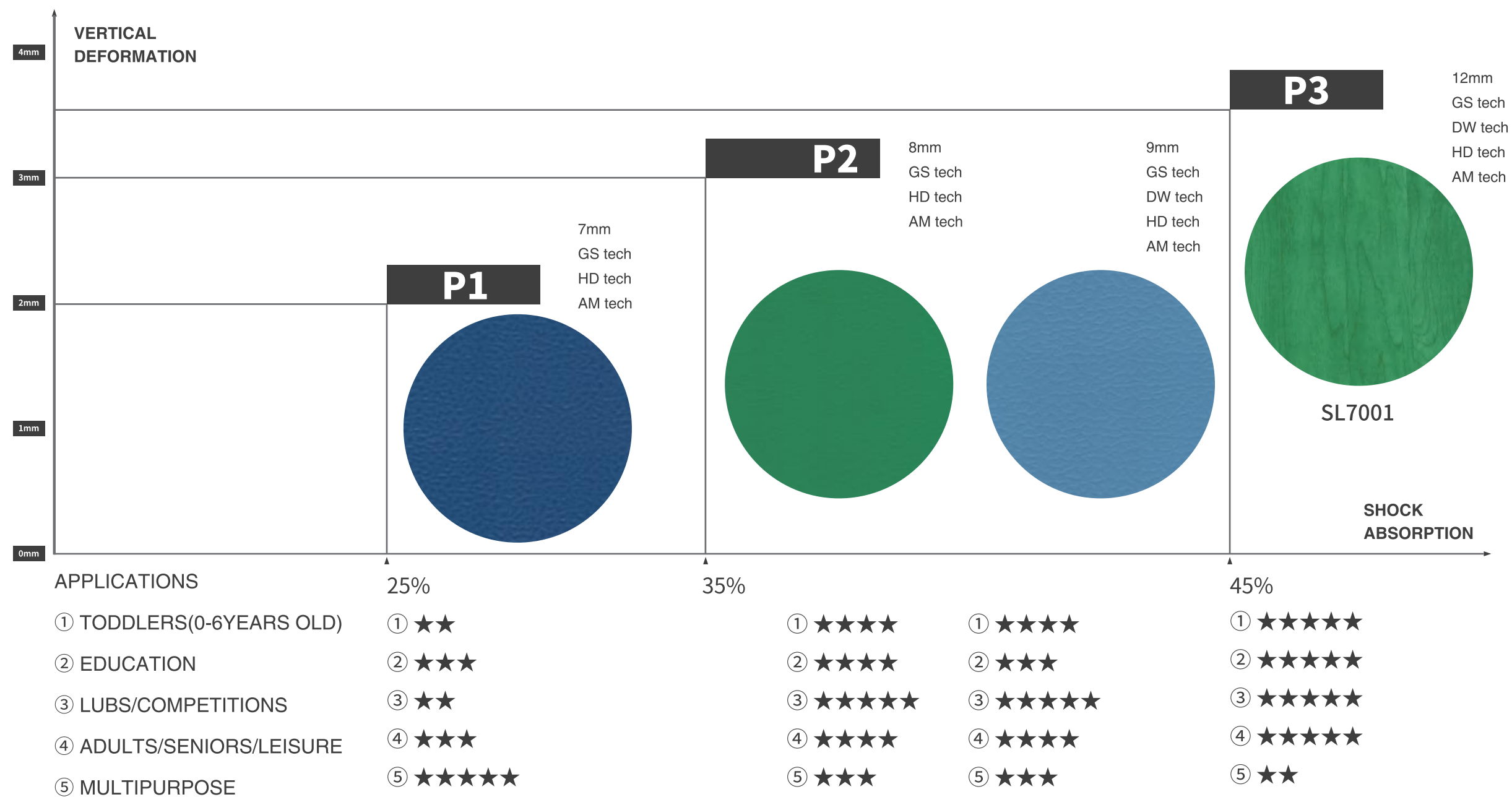
## Technical Data

- ① Glaze+ surface treatment, no scratch, easy cleaning;
- ② Crystal Sanding embossing excellent grip and balance performance;
- ③ Good resistance to abrasion and skid, 1.5mm PVC wear layer;
- ④ High dimensional stability (<0.1%) due to tight plastic coated nonwovens;
- ⑤ Fiberglass grid fabric strengthen as another support;
- ⑥ Brilliant vibration absorption to reduce sports injuries;
- ⑦ Damp proof and hexagonal backing design.
- ⑧ Extremely convenient installation, easy to achieve removability.



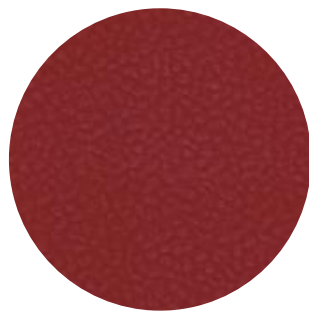
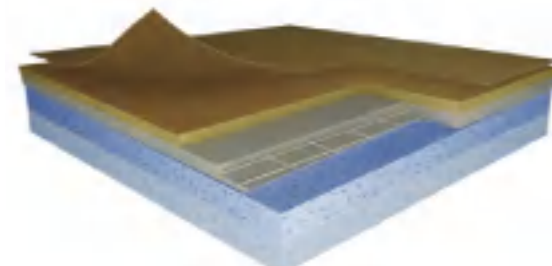
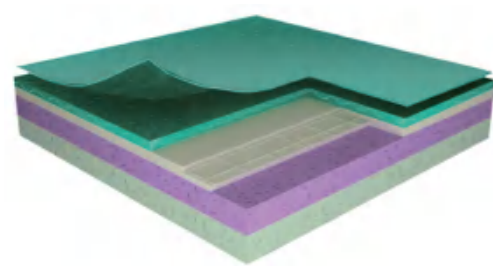
Product series:	RM 4.0 (Competition level)
Specification:	15m×4.0mm×4 pieces
Guarantee period :	6 years
Vibration absorption :	25%
Wear resistance :	≤ 100mg
Sliding coefficien:	98

# MULTIPURPOSE FLOORING

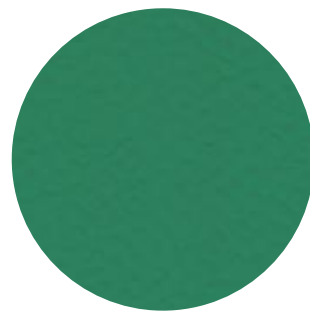




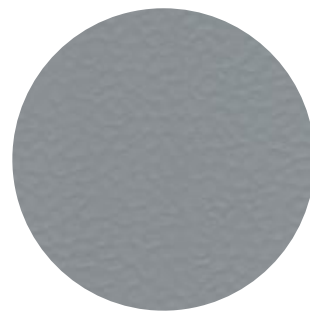
# MULTIPURPOSE FLOORING



9183 Dark red



9570 Green



9758 Light grey



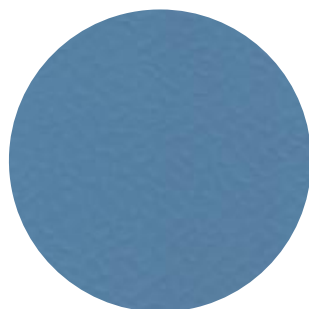
8105 Maple



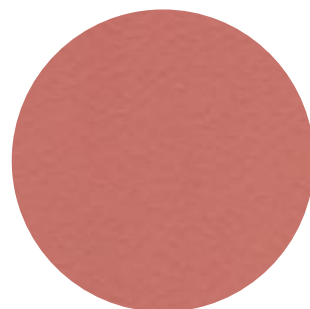
8106 Oak



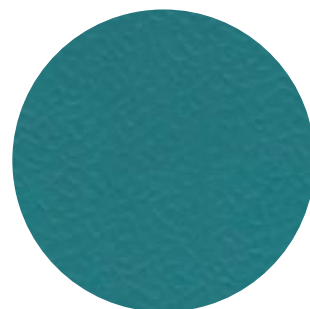
8107 Wanut



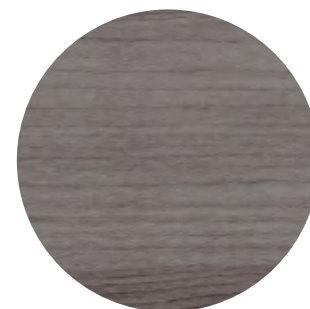
9445 Light blue



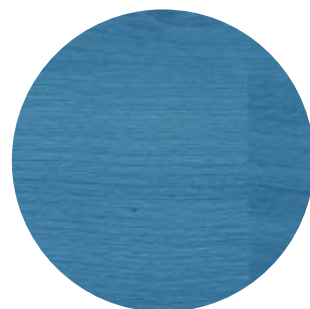
9146 Pink



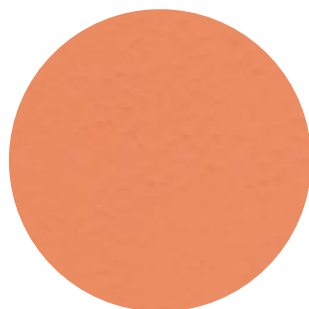
9431 Ocean blue



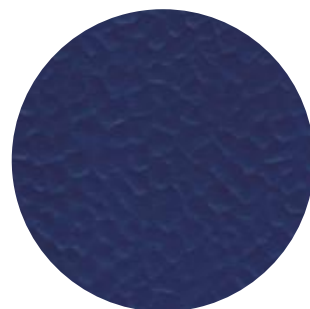
8108 Grey Oak



8109 Blue wood



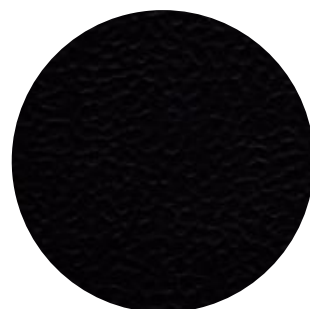
9134 Orange



9430 Dark blue



9432 Dark grey



9433 Black

**P1** 7mm

**GS**tech

**HD**tech

**AM**tech

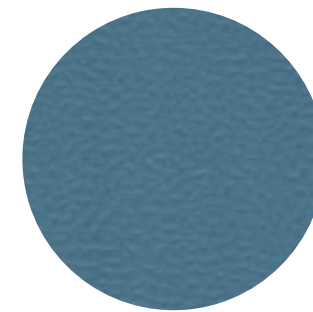
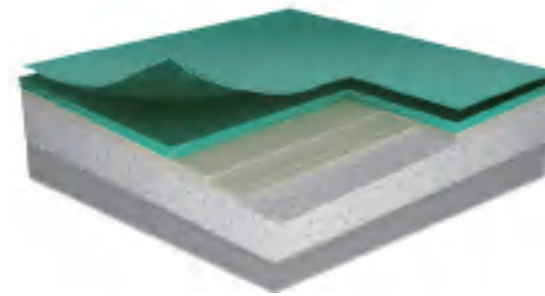
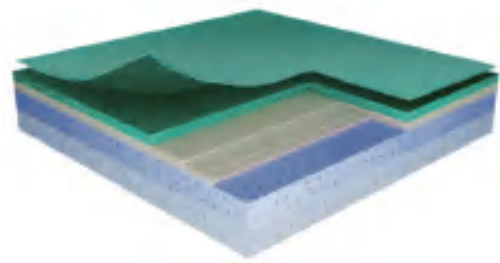


**P2** 8mm

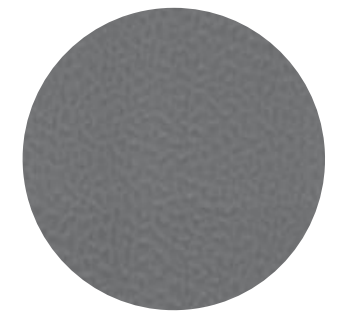
**GS**tech

**HD**tech

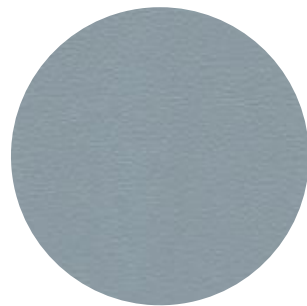
**AM**tech



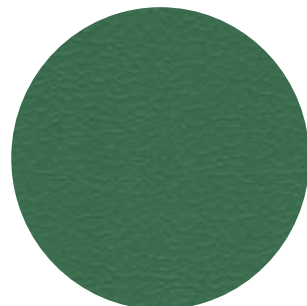
CH9001



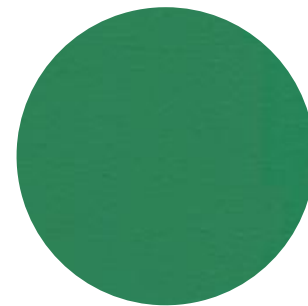
CH9002



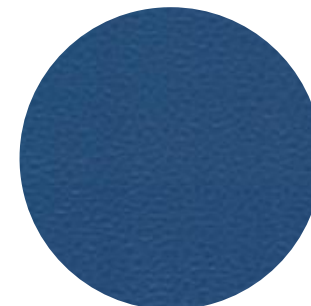
9401 Light grey



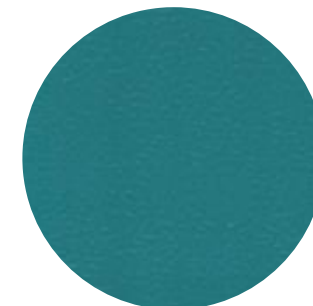
9202 Olive grey



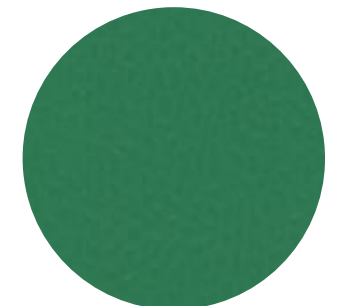
9201 Green



CH9004



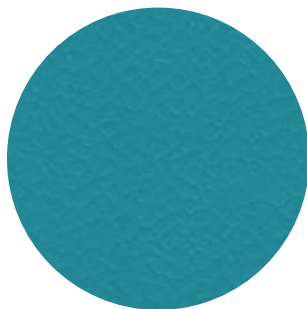
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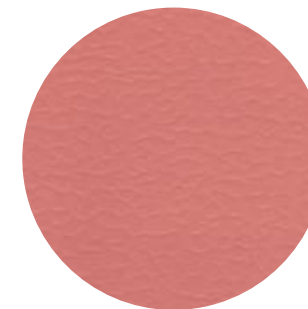
CH9007



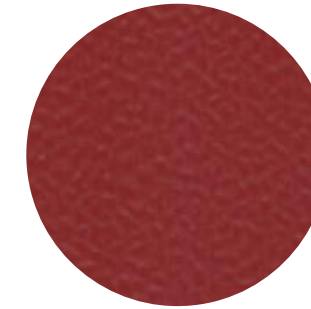
9301 Dark red



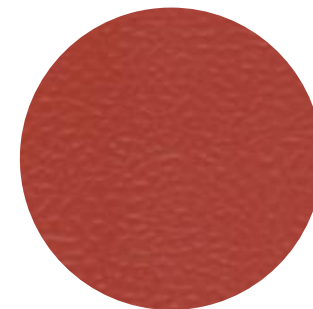
9102 Ocean blue



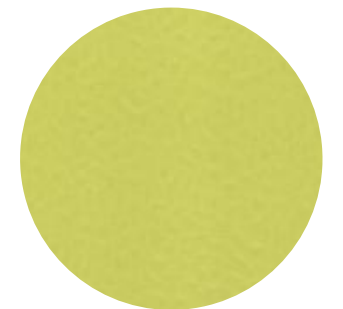
9302 Pink



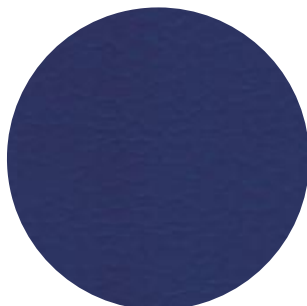
CH9009



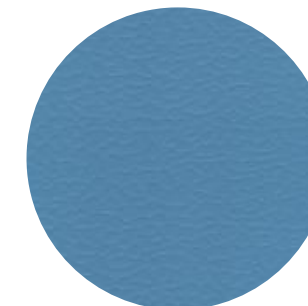
CH9010



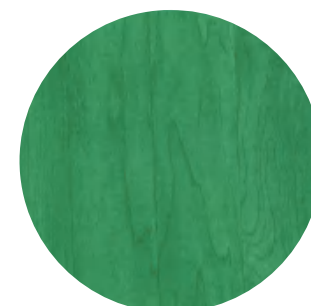
CH9011



9101 Dark blue



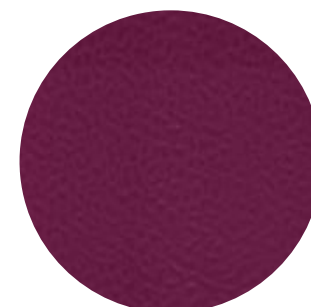
9103 Light blue



SL9001



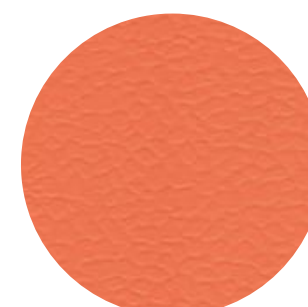
SL9002



CH9017



SL9005



9303 Orange

**P2** 9mm

**GS**tech

**DW**tech

**HD**tech

**AM**tech

**P3** 12mm

**GS**tech

**DW**tech

**HD**tech

**AM**tech



ITEM	STANDARD	REQUIREMENT	TableTennis		
			SH5.0	SP5.0	SU5.0
STRUCTURAL PARAMETERS					
Thickness	EN428	mm	5.0	5.0	5.0
Width	EN426	m	1.8	1.8	1.8
Length	EN426	m	15/20	15/20	15/20
SPORT PROPERTIES					
Shock Absorption	EN14808	≥20	≤25	≤25	≤25
Vertical Deformation	EN14809	≤5mm	≤2	≤2	≤2
Sliding Coefficient	EN13036-4	80-110	80-110		
Ball Bounce	EN12235	≥90	≥90	≥90	≥90
TECHNICAL CHARACTERISTICS					
Abrasion Resistance	ENIS05470-1	≤1000mg	≤100	≤100	≤100
Impact Resistance	EN1517	≥8N/m	≥8	≥8	≥8
Indentation Resistance	EN1516	≤0.5mm	≤0.5	≤0.5	≤0.5
Environmental protection characteristics					
TVOC (96 hours)	ASTM standard D5116-06&ISO16000-9:2011	<912ug/m³	≤350	≤350	≤350
VCM (vinyl chloride monomer)	GB18586-2001	≤5mg/kg	N.D.	N.D.	N.D.
Soluble Heavy Metal Pb	GB18586-2001	≤20mg/m²	N.D.	N.D.	N.D.
Soluble Heavy Metal Cd	GB18586-2001	≤20mg/m²	N.D.	N.D.	N.D.
CLASSIFICATION					
FIRE	EN13501-1	-	Cfl-s1	Cfl-s1	Bfl-s1
CE MARKING					
CE	-	-	CE	CE	CE

Badminton				Multipurpose			
RE4.5	RH5.0	RS5.0	EX7.0	MF-7	MF-8	MF-9	MF-12
4.5	5.0	5.0	7.0	7.0	8.0	9.0	12
1.8	1.8	1.8	1.8	1.8	1.5/1.8	1.8/2	1.8/2
15	15	15	15	MAX20	MAX20	MAX15	MAX15
≤25	≤25	≤25	P1	P1	P2	P2	P3
≤2	≤2	≤2	≤2	≤2	≤2	≤2	≤2
80-110	80-110	80-110	80-110	80-110	80-110	80-110	80-110
≥90	≥90	≥90	≥90	≥90	≥90	≥90	≥90
≤100	≤100	≤100	≤100	≤100	≤100	≤100	≤100
≥8	≥8	≥8	≥8	≥8	≥8	≥8	≥8
≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.25	≤0.25
≤350	≤350	≤350	≤350	≤350	≤350	≤350	≤350
N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Bfl-s1	Cfl-s1	Bfl-s1	Bfl-s1	Bfl-s1	Bfl-s1	Bfl-s1	Bfl-s1
CE	CE	CE	CE	CE	CE	CE	CE

# Vinyl Sports Flooring Expert

