



**Grabo**  
**sport**  
FLOORING

**The ultimate flooring,  
the ultimate performance**

THE ULTIMATE FLOORING, THE ULTIMATE PERFORMANCE

Why

**GRABO**  
sports  
flooring?

**Wide range of products / applications**

- Solutions for competition, training and leisure.
- More options for several applications, from kindergarten, through fitness halls, to high competition level sport facilities.
- 2-10 mm thick sport floorings, special coverings and accessories.



Our products are made by technological procedures without using solvents or heavy metals  
> **less environmental impact.**



Due to its special top layer periodical renewal is not necessary. Therefore they can be use continuously, reduced life cycle costs, less chemicals and less energy consumption  
> **environmentally sound product with reduced maintenance costs.**



GraboSAN treatment stops the growth of germs  
> **reduced risk of contamination in case of injuries.**



High energy absorption due to the bottom foam layer  
> **comfort and protection.**  
Optimized deformation shape through the upper foam layer  
> **easy direction change.**



**Reduced risk of injury**

*Optimum vertical deformation*

**Comfort and protection**

**Easy change of direction**

*Coefficient of friction between 0,4-0,7*

**Optimal balance of grip and slide**



**Long term protection**

*Excellent shock absorption*

**Genuine joint and cartilage protection**

**Superior for ballsports**

*Outstanding ball rebound*

**Imposing sporting performance**



**Environmental attributes**

- 100 % recyclable
- Phtalathe free technology
- No waste products
- Compliant with REACH legislation
- ISO 14001 certified company



**Benefits of installation**

- Available in rolls
- Light weight products
- Less welding
- Damp proof underlay option





# Floor coverings for MULTISPORT HALLS

## OUR RECOMMENDATION

MULTISPORT HALLS	MEGA	EXTREME	SUPREME	ELITE
Competition	●	●	●	○
City sport halls	●	●	●	●
Leisure	●	●	●	●

○ -good   ● -recommended   ● -best solution

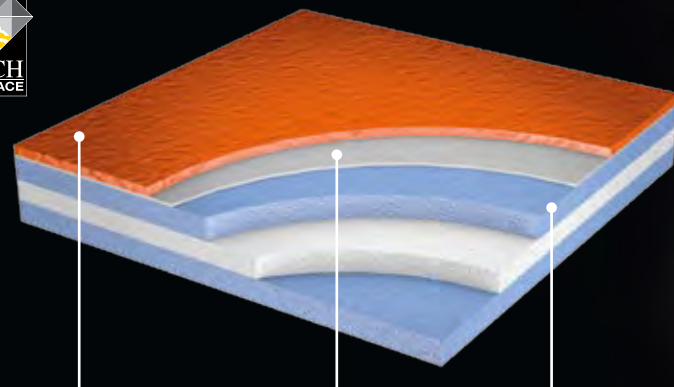
## BENEFITS

- High shock absorption due to its Combined Foam Backing > **Long term joint and cartilage protection**
- Stable construction and outstanding ball rebound > **Ideal for game ball sports**
- Excellent foam quality, optimal vertical deformation > **Reduced risk of injury**, higher underfoot comfort
- Unique TECH SURFACE wear layer
  - It contains PUR and Al<sub>2</sub>O<sub>3</sub>
  - **High wear resistance** due to its micronised Al<sub>2</sub>O<sub>3</sub> particles
  - PUR provides **easy to clean** properties
  - Coefficient of friction between 0,4-0,7 > **Easy direction change**
  - No periodical polishing required > **Less energy consumption, less maintenance cost**
  - Optimal specular gloss
- Due to its graboSAN treatment > **Stops the growth of germs**
- 2 m wide rolls > **Less welding and joints**



## GRABOSPORT MEGA

highly protective **P2** floor  
EN 14904



**TECH SURFACE**  
Wear layer

Glass fiber  
reinforcement

Combined Foam  
Backing



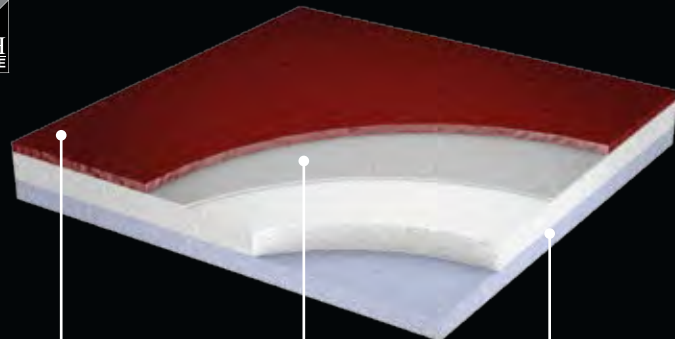
10,0  
mm

15 years  
guarantee

## GRABOSPORT

## EXTREME / SUPREME / ELITE

highly protective **P1** floors  
EN 14904



**TECH SURFACE**  
Wear layer

Glass fiber  
reinforcement

Combined Foam  
Backing



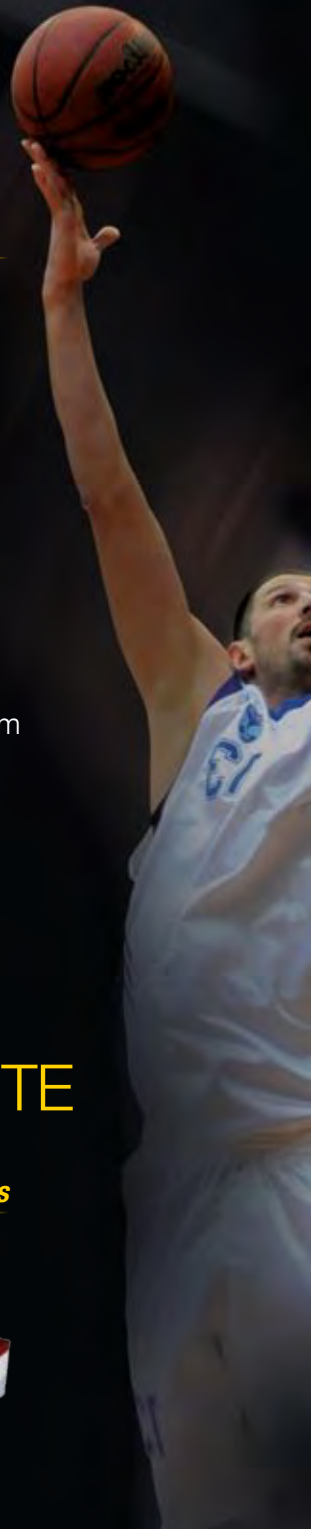
Elite  
6,0  
mm

Supreme  
6,7  
mm

Extreme  
8,0  
mm

Extreme/Supreme  
15

Elite  
10 years  
guarantee





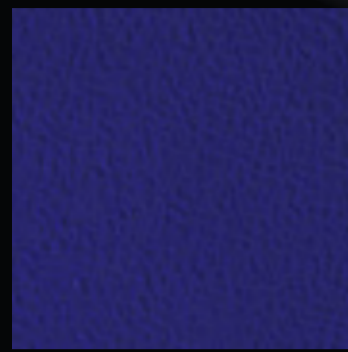
Colours of  
**MEGA / EXTREME  
SUPREME / ELITE**



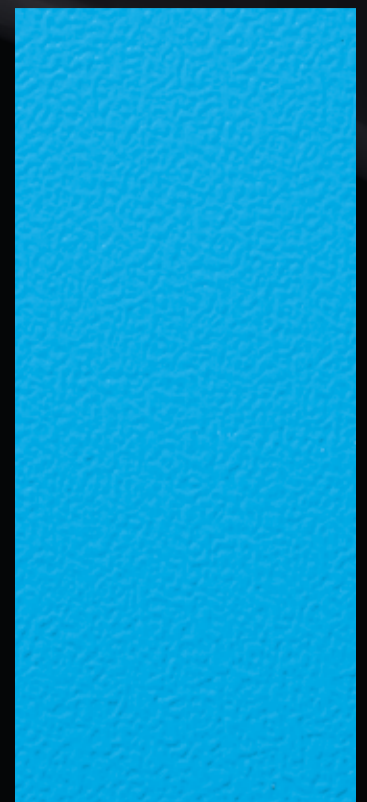
4289 Mega / Extreme  
Supreme / Elite



1360 Mega / Extreme  
Supreme / Elite



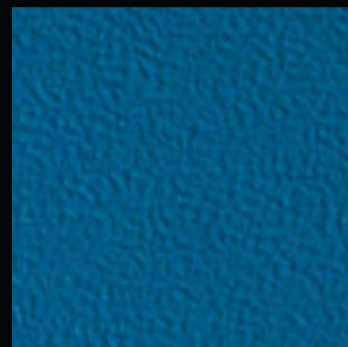
6470 Extreme / Supreme



6115 Supreme



7143 Extreme / Supreme



6170 Mega / Extreme  
Supreme / Elite



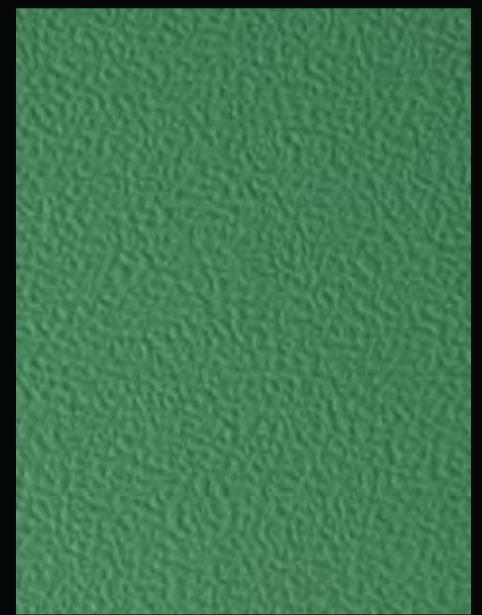
3096 Mega / Extreme  
Supreme / Elite



3338 Mega / Extreme  
Supreme / Elite



7539 Supreme



7483 Mega / Extreme  
Supreme / Elite



2089 Supreme



2000-378 Extreme / Supreme



2561-378\* Extreme / Supreme



3151-378 Mega / Extreme / Supreme / Elite



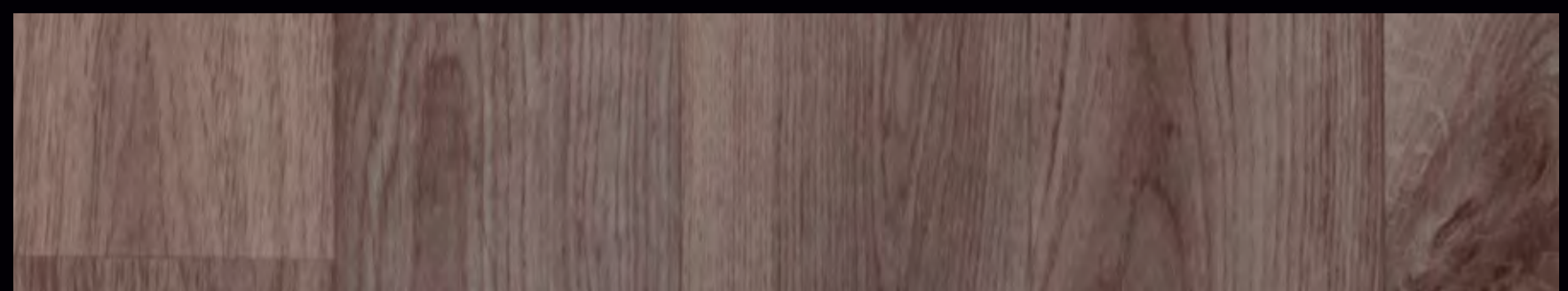
2519-371 Mega / Extreme / Supreme / Elite



2209-371 Extreme / Supreme



2181-371 Supreme



1171-371 Supreme

\*min. order 1000m<sup>2</sup>



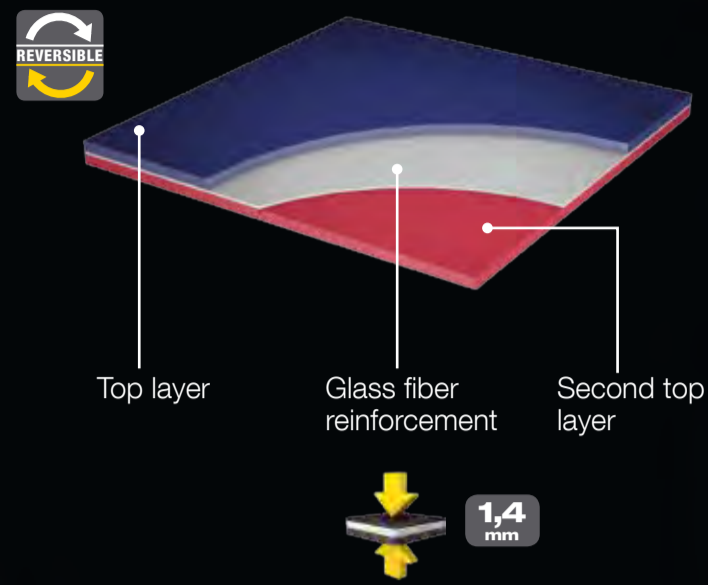


OUR RECOMMENDATION

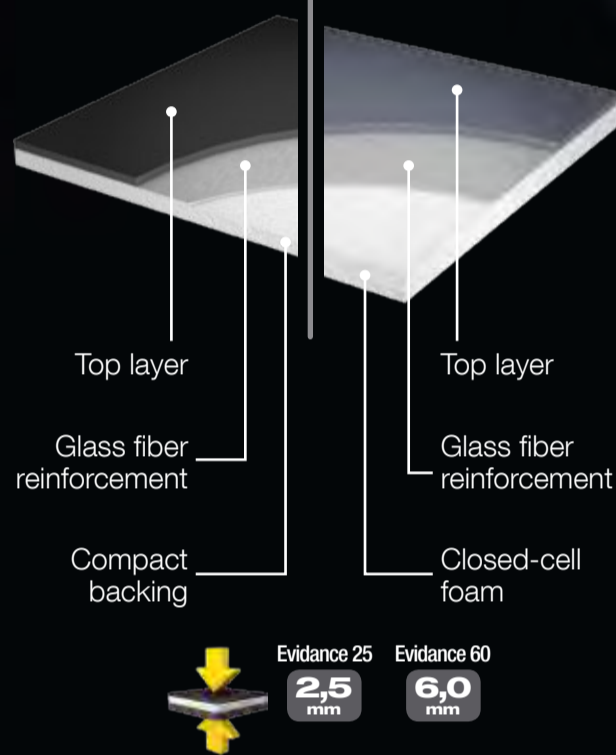
DANCE TYPE	DUETT	EVIDANCE 25	EVIDANCE 60	STAMINA
Ballet	●	○		○
Hip-hop / jazz	●	●	●	○
Contemporary	●	●	●	○
Social		●		●
Multidance		●		

○ -good   ● -recommended   ● -best solution

DUETT



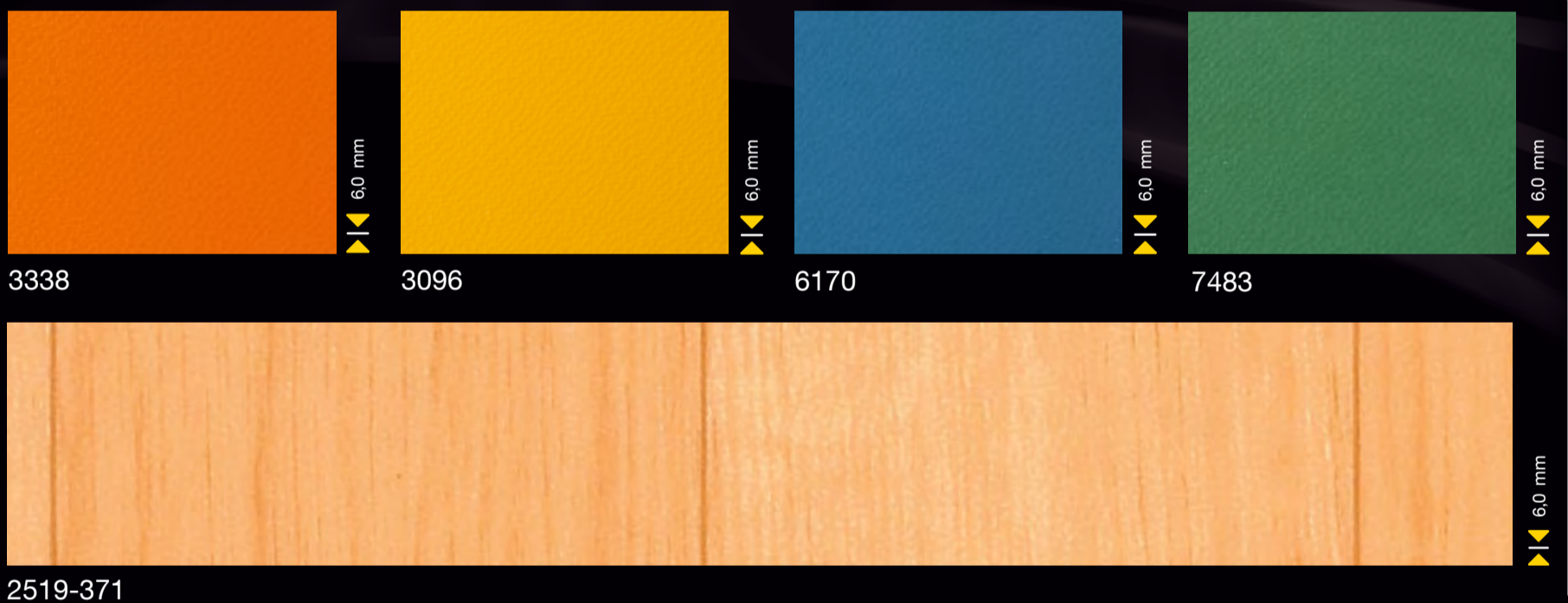
EVIDANCE 25   EVIDANCE 60



BENEFITS

- Solution *for several type of dances*
- Double sided ballet floor
- Can be used permanently, or without gluing, temporarily
- Its glass fibre reinforcement provides *excellent dimensional stability*
- One can rolled-in and rolled-out many time without any damages
- **100 % recyclable**
- Light weight and flexibility - *Easy to handle*

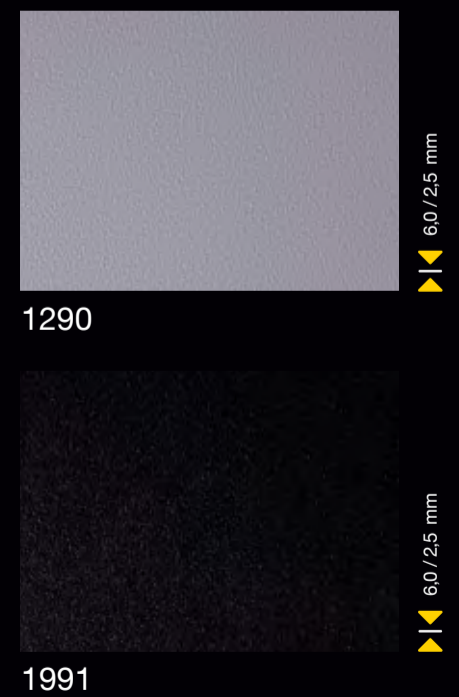
Colours of GYMFIT 60



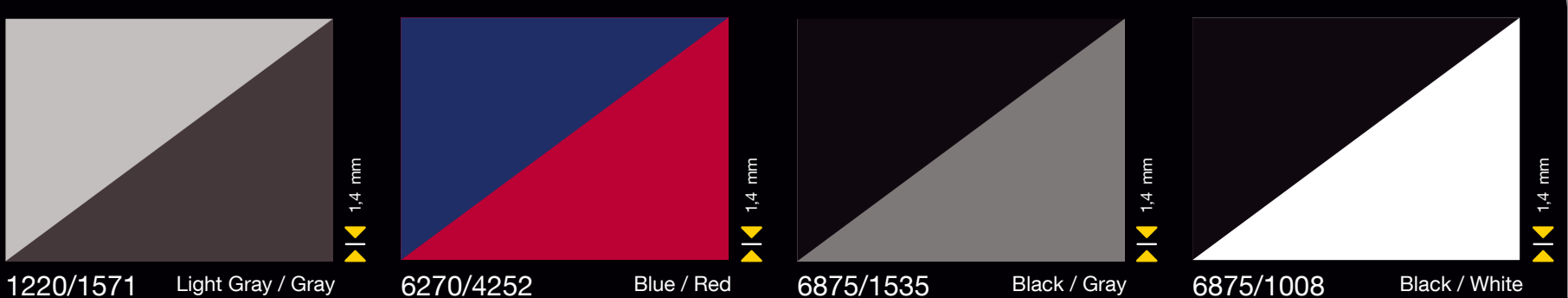
Colours of PRIMA & STAMINA



Colours of EVIDANCE



Colours of DUETT





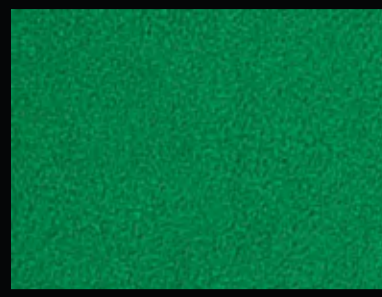




Colours of **GYMFIT 50**



4000-647



4000-675



4000-635



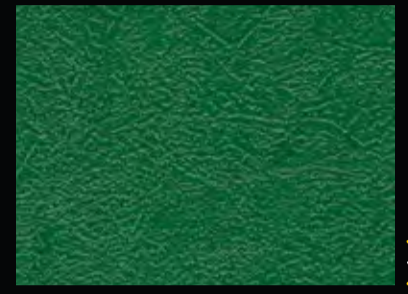
4000-661



4000-630



4000-616



4000-677



4231-674



4217-671

Colours of **START**



4181-651



4000-665



4000-659



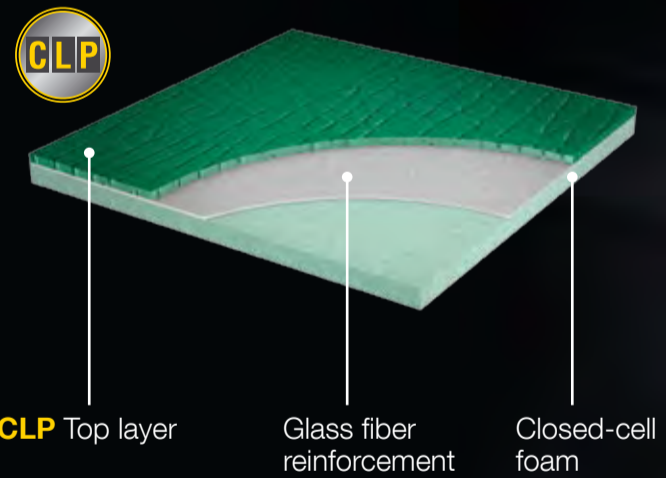
4000-660

OUR RECOMMENDATION

	EXTREME	SUPREME	ELITE	ROCKET	GYMFIT 50	START
Badminton	●	●	●	●	●	●
Table tennis				●	●	●

○ -good   ● -recommended   ● -best solution

GRABO  
**ROCKET**



CLP Top layer   Glass fiber reinforcement   Closed-cell foam



Colours of **ROCKET**



4387



7533

BENEFITS

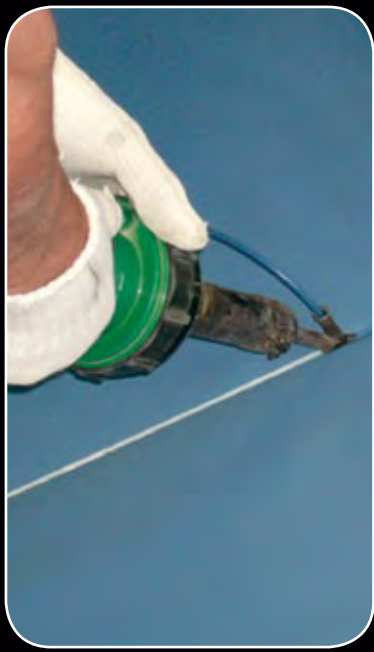
- Coefficient of friction between 0,4-0,7  
› **Quick and easy direction change**
- Light weight (Rocket, Start);  
› Easy to roll in and out  
› **Suitable to use temporarily**
- Optimal specular gloss
- Solvent, heavy metal and phtalathe free formulation; Low VOC  
› **Environmentally sound solution**
- **100 % recyclable**
- Contains pre-consumer recycled materials





# ACCESSORIES

## GRABO WELD



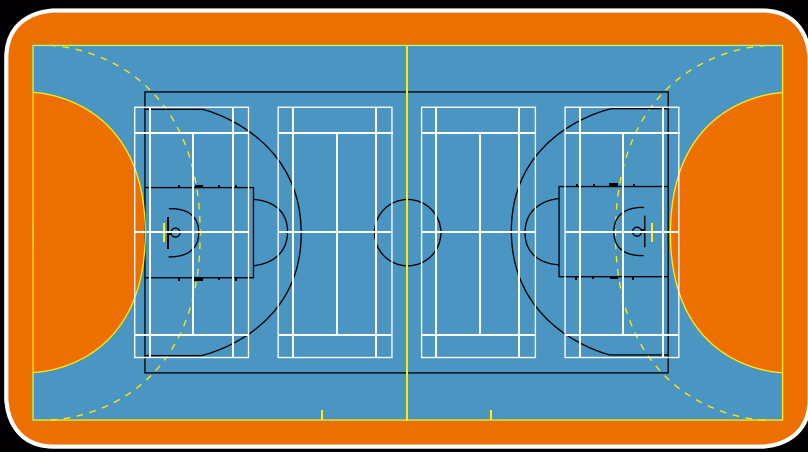
Welding rod, matching to grabo sports flooring designs, guarantees impermeable joints by hot welding.

Diameter	4,5 mm
Roll length	100 m

## GRABO COLOR

Paints for marking sports ground lines.

**Required quantity:** 1l for 100 m long and 5 cm wide line.



Flooring	Recommended welding rod
2000	2000
2519 / 4217-671	2066
2561	2561
2209	2219
4000-630	3086
3096	3096
3338	3338
4000-665	3573
4000-635	3553
4000-647	4725
4289	4289
4387	4387
1360	1360
4000-616	6322
1171-371	1246
1286	1286
7483	7483
2089	2243
4181-651	2216
3151	3151
2181-371	2181
6115	6115
6170 / 4000-659	6170
4000-661	6161
6470	6470
7143	7143
7533 / 4000-675	7533
4000-660	7507
7539	7539
4000-677	7577

Type of the Court	Length of the Marking Line (m)	Color of Paint
Badminton	110	white
Basketball	210	black / dark blue
Floorball	60	white
Handball	230	yellow
Indoor football	210	yellow
Indoor hockey	180	white / light blue / yellow
Netball	150	red
Tennis	150	white / red / yellow
Volleyball	80	green / white

# SPECIALITIES

## GRABO VAPOREX



Damp proof membrane for protection against moisture and for quicker installation.

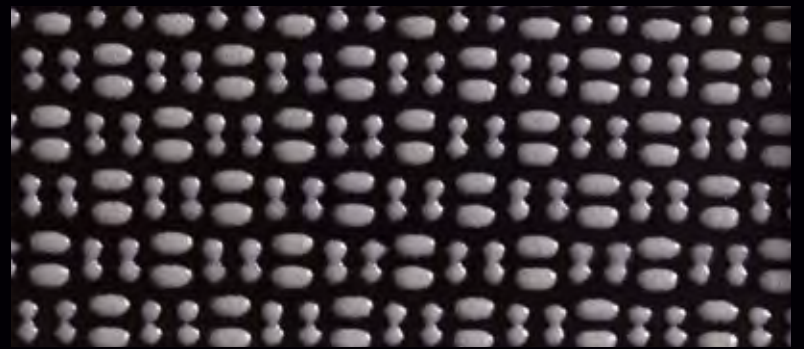
TECHNICAL DATA	VAPOREX T	VAPOREX-40	VAPOREX
Width EN426	200 cm	145 cm	145 cm
Standard roll length EN426	35 m±10%	25 m±10%	25 m±10% 45 m±10%
Thickness EN428	1,3 mm	4,0 mm	1,4 mm



4250-991 Vaporex T



1991-S-01/1 Vaporex 40



1991-S-03/1 Vaporex

## GRABO PROTECTSPORT



Protects the sport flooring during non-sportive events. Easy to roll up and down.

TECHNICAL DATA	PROTECTSPORT	PROTECTSPORT T
Width EN426	140 cm	200 cm
Standard roll length EN426	25 m±10%	35 m±10%
Thickness EN428	1,5 mm	1,0 mm



7522 ProtectSport



1784 ProtectSport



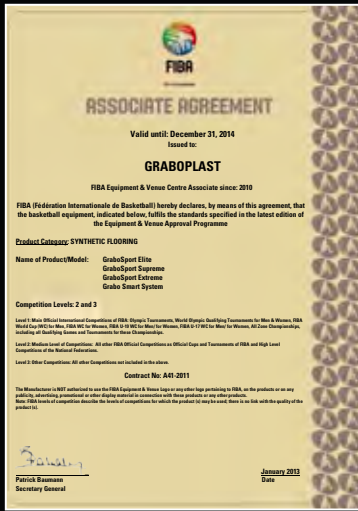
# REFERENCES

Aristotello University's gym – Thessaloniki / Greece    Gymnasium's sport hall – Elda / Spain    Sports courts – Jawornik / Poland  
 Boston / USA    Sportsvillage – Dubai / UAE    University CVUT – Prague / Czech Republic    School – Istanbul / Turkey  
 Pirejos Sport Hall – Coruña / Spain    School – Mekong / Vietnam    Chrysler Training Center – Mexico City / Mexico  
 Sports Complex – Pokrovskoe School sports hall – Moscow / Russia    Golf & Fitness Club – Scitua / Spain  
 Monte San Marriott M / Mexico City / Mexico  
 Sports Hall – Viljeuf / France    Sportshall – Nganjuk Municipality, East Java / Indonesia  
 Medical Centre – Jeddah / Saudi Arabia    Al Murooj Res Complex Gym – Dubai / UAE    Corsika School – Singapore  
 Sports Hall – Lys le Lannoye / France    Golf club – Moscow / Russia    City sports hall – Zarasai / Lithuania  
 Romania Podolsky fitness club – Kiev / Ukraine    City Sports Hall – Florianopolis / Brazil    school – Zarasai / Lithuania  
 Sports hall – Orsk Gai / Kazakhstan    City Sports Hall – Krakow / Poland    Aupark Shopping Center – Bratislava / Slovakia  
 ix County Cherry Run    Sportarena – Minsk / Belarus    People's Park Sport Arena – Palembang, Sumatra / Indonesia  
 Elementary school    Municipal    Primary school – Nagysáp / Hungary  
 Pannonia Elem    Bury Gramma    ale Primary Sc    Hotel Slov    4 th high sch    Vasas-Boxing h    / Italy    Arabia    / UAE    – Oroso / Spain    I – Budapest / Hungary  
 all – Cordoba / Spain    Victoria Acade    Language School – N. Zámky / Slovakia    Multifunc    Wuxi Chonming Lu Prim. School – Wuxi / China  
 MEF Education high school – Izmir / Turkey    FK Saturn Sports Hall – Jegorevszk / Russia





THE ULTIMATE FLOORING, THE ULTIMATE PERFORMANCE



## APPLICATION

Multisport halls \*

- competition level

- universities / colleges

- schools

Aerobic / Yoga / Dance

Badminton

Ballett / Dance

Billiards / Snooker

Body building

Cardio training

Fencing

Floorball

Gymnastics

Indoor hockey

Kindergarten

Locker room

Martial arts

Squash

Table tennis

Tennis

Wheelchair sports

	GRABOSPORT MEGA	GRABOSPORT EXTREME	GRABOSPORT SUPREME	GRABOSPORT ELITE	GRABOSPORT PRIMA	GRABOFLEX GYMFIT 60	GRABOFLEX GYMFIT 50	GRABOFLEX START	GRABO ROCKET	GRABO STAMINA	DUETT	EVIDENCE 25	EVIDENCE 60
Multisport halls *													
- competition level	●	●	●	○									
- universities / colleges	●	●	●	●									
- schools	●	●	●	●	●	●	●	●	○				
Aerobic / Yoga / Dance	●	●	●	●	●	●	●	○	●			○	●
Badminton		●	●	●	●	●	●	●	●				
Ballett / Dance							○	○		○	●	●	
Billiards / Snooker										●			
Body building									●				
Cardio training						○	●	○		●			
Fencing	●	●	●	●	●	●	●	●	●				
Floorball	●	●	●	●	●	●	●	○	○				
Gymnastics	●	●	●	●	●	●	●	○	○				●
Indoor hockey	●	●	●	●	●	●	●		○				
Kindergarten	●	●	●	●	●	●	●	●	●				●
Locker room						○	●	●	○	●		●	○
Martial arts				●	●	●	●	●	●	○			
Squash				○	○	○	○	○	○				
Table tennis						○	●	●	●				
Tennis			●	●	●				○				
Wheelchair sports				○	○	○	●	●	●	●	●		



MAGYAR OLIMPIAI  
BIZOTTSÁG  
HUNGARIAN OLYMPIC  
COMMITTEE



MAGYAR KÉZILABDA  
SZÖVETSÉG  
HUNGARIAN  
HANDBALL  
FEDERATION



MAGYAR KOSÁRLABDÁZÓK  
ORSZÁGOS SZÖVETSÉGE  
HUNGARIAN BASKETBALL  
FEDERATION



MAGYAR RÖPLABDA  
SZÖVETSÉG  
HUNGARIAN VOLLEYBALL  
FEDERATION

\* e.g. Handball, Basketball, Volleyball, Futsal, Netball etc.

○ - good ● - recommended ● - best solution



# THE ULTIMATE FLOORING, THE ULTIMATE PERFORMANCE

MULTISPORT

## TECHNICAL DATA

			GRABOSPORT MEGA	GRABOSPORT EXTREME	GRABOSPORT SUPREME	GRABOSPORT ELITE	GRABOSPORT PRIMA	GRABO ROCKET	GRABOFLEX GYMFIT 60	GRABOFLEX GYMFIT 50	GRABOFLEX START	GRABO STAMINA	
DESCRIPTION	Thickness	mm	EN 428	10,0	8,0	6,7	6,0	4,5	3,8	6,0	5,0	4,0	2,0
	Weight	kg/m <sup>2</sup>	EN 430	5,3	4,2	3,8	3,7	2,8	2,5	3,5	2,9	2,7	2,8
	Width	m	EN 426	2	2	2	2	2	2	2	2	2	2
	Standard roll length	fm	EN 426	13	15	15	15	20	16; 20	15	20	20	20
	Maximal roll length	fm	EN 426	15	21	23	25	25	30	25	25	25	25

			EN 14904	EN 14904	EN 14904	EN 14904	EN 651	EN 651	EN 651	EN 651	EN 651	EN 649	
CLASSIFICATION	Product specification		EN 14904	EN 14904	EN 14904	EN 14904	EN 651	EN 651	EN 651	EN 651	EN 651	EN 649	
	Impact sound insulation	ΔL <sub>w</sub> (dB)	EN ISO 717-2 EN ISO 140-8	21	21	22	21	21		16			
	Thermal resistance	m <sup>2</sup> K/W		0,10	0,08	0,07	0,06	0,04	0,03	0,05	0,04	0,03	0,01
	Flammability		NFP 92-512	M3	M3	M3	M3			M3	M3		
			EN 13501-1 ÖNORM B3810/B3800/2 ISO 3795	Cfl - S1 B1 - Q1 100	Cfl - S1 B1 - Q1 100	Cfl - S1 B1 - Q1 100	Cfl - S1 B1 - Q1 100	Cfl - S1 B1 - Q1 100	Cfl - S1 B1 - Q1 100	Cfl - S1 B1 - Q1 100	Cfl - S1 B1 - Q1 100	Cfl - S1 B1 - Q1 100	Cfl - S1 B1 - Q1 100

			EN13036-4	80-110	80-110	80-110	80-110	80-110	80-110	80-110	80-110	80-110	80-110
SPORT PROPERTIES	Rotational friction		Pr EN 14903	0,4-0,6	0,4-0,6	0,4-0,6	0,4-0,6			0,4-0,6			0,4-0,6
	Shock absorption	%	DIN 18032	41	34	31	30	22		21	17	12	
	Shock absorption	%	EN 14808	38	31	28	27	19		18	14	9	
	Vertical deformation	mm	EN 14809	1,5	1,1	1,08	0,96	0,7			0,33	0,4	
	Ball rebound	%	EN 12235	97	100	98	99	98	> 90	98	100	100	> 90
	Specular gloss		EN 2813	≤ 30	≤ 30	≤ 30	≤ 30	≤ 30	≤ 30	≤ 30	≤ 30	≤ 30	≤ 30

			EN 434	+/-0,2%	+/-0,2%	+/-0,2%	+/-0,2%	+/-0,2%	+/-0,2%	+/-0,2%	+/-0,2%	+/-0,2%	+/-0,2%	
TECHNICAL CHARACTERISTIC	Dimensional stability	max	EN 434	+/-0,2%	+/-0,2%	+/-0,2%	+/-0,2%	+/-0,2%	+/-0,2%	+/-0,2%	+/-0,2%	+/-0,2%	+/-0,2%	
	Indentation resistance	mm	EN 1516	<0,5	<0,5	<0,5	<0,5	<0,5	<0,5	<0,5	<0,5	<0,5	<0,5	
	Resistance to a rolling load	1500 N	EN 1569	1500	1500	1500	1500	1500			1500		1500	
	Colour fastness		ISO 105 B02	6	6	6	6	6	6	6	6	6	6	
	Resistance to chemicals	benzine, 50% ethanol, 5% fatty alcohol sulfate, 5% acetic acid	EN 423	no change										
	Abrasion resistance (H18 wheel)	≤ 1000 mg / 1000 cycles	EN ISO 5470-1	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
	Abrasion group		EN 660-1	T	T	T	T	T	T	T	T	T	T	T



Graboplast  
Floor Covering Manufacturers Ltd.  
H-9023 Győr, Fehérvári út 16/b. Telefon: (+36) 96 506-100  
www.graboplast.hu