

Grabo
sport
FLOORING



ULTIMATE FLOORING

The ultimate flooring,
the ultimate performance





THE ULTIMATE FLOORING,

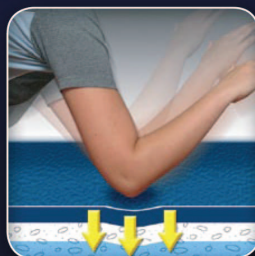
Why GRABO sports flooring?

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 vinyl floor coverings are 100% recyclable.
No waste incineration.
No deposition.



Reduced risk of injury

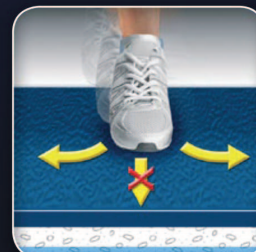
Optimum vertical deformation
Comfort and protection



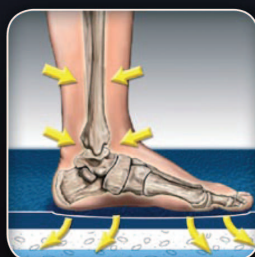
REACH Conform
The most healthy and environment-friendly solution.

Easy change of direction

Coefficient of friction between 0,4-0,7
Optimal balance of grip and slide



We reuse almost 100% of our manufacturing wastes.
Less emission.



Long term protection

Excellent shock absorption
Genuine joint and cartilage protection



Thanks to our new technology, our products contain recycled raw materials.

Superior for ballsports

Outstanding ball rebound
Imposing sporting performance



THE ULTIMATE PERFORMANCE



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



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



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.



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

Environmental attributes

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

Benefits of installation

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



MAGYAR OLIMPIAI BIZOTTSÁG
 HUNGARIAN OLYMPIC COMMITTEE



MAGYAR KOSÁRLABDÁZÓK ORSZÁGOS SZÖVETSEGE
 HUNGARIAN BASKETBALL FEDERATION



MAGYAR KEZILABDA SZÖVETSEG
 HUNGARIAN HANDBALL FEDERATION



MAGYAR RÖPLABDA SZÖVETSEG
 HUNGARIAN VOLLEYBALL FEDERATION



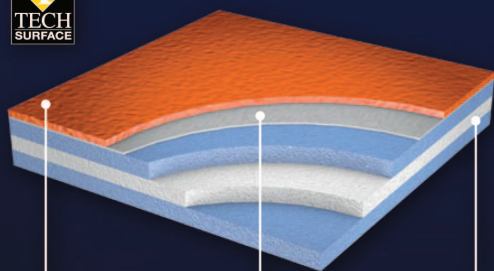
ISP
 www.ISP-Germany.com
 Institut für Sportstättenprüfung



MULTISPORT FLOORS

GRABOSPORT

MEGA highly protective **P2** floor
EN 14904



TECH SURFACE
Wear layer

Glass fiber
reinforcement

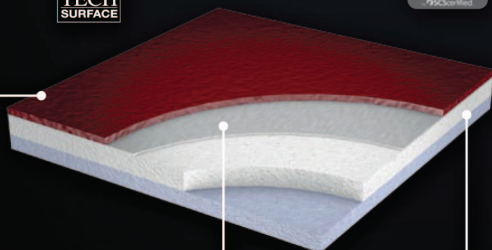
Combined
Foam Backing

GRABOSPORT

EXTREME / SUPREME / ELITE



highly protective **P1** floors
EN 14904



TECH SURFACE
Wear layer

Glass fiber
reinforcement

Combined
Foam Backing

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 Al₂O₃
 - High wear resistance due to its micronised Al₂O₃ 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

RECOMMENDED USAGE:

- Multisport halls
- Floorball
- Fencing
- Gymnastics

THICKNESS



Mega	Elite	Supreme	Extreme
100 mm	60 mm	6,7 mm	80 mm

GUARANTEE

Mega		
Extreme	15 years	Elite 10 years
Supreme		



Colours of MEGA / EXTREME / SUPREME / ELITE



6,7 mm

2089 Supreme



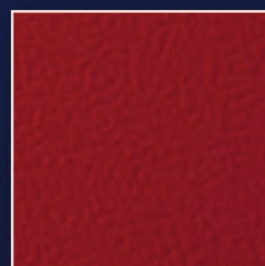
10,0 / 8,0 / 6,7 / 6,0 mm

3096 Mega / Extreme Supreme / Elite



10,0 / 8,0 / 6,7 / 6,0 mm

3338 Mega / Extreme Supreme / Elite



10,0 / 8,0 / 6,7 / 6,0 mm

4289 Mega / Extreme Supreme / Elite



6,7 mm

7539 Supreme



10,0 / 8,0 / 6,7 / 6,0 mm

7483 Mega / Extreme Supreme / Elite



8,0 / 6,7 mm

7143 Extreme / Supreme



10,0 / 8,0 / 6,7 / 6,0 mm

1360 Mega / Extreme Supreme / Elite



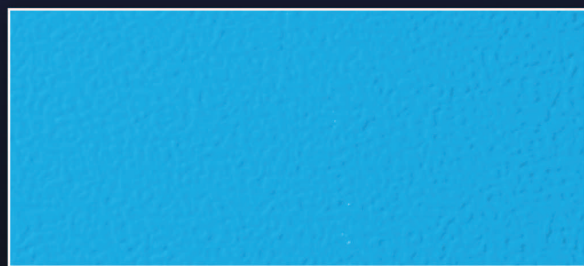
10,0 / 8,0 / 6,7 / 6,0 mm

6170 Mega / Extreme Supreme / Elite



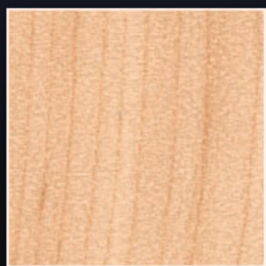
8,0 / 6,7 mm

6470 Extreme / Supreme



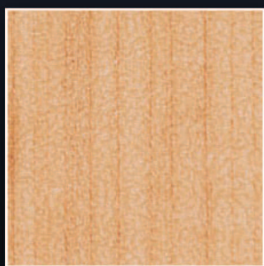
6,7 mm

6115 Supreme



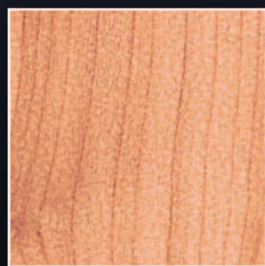
8,0 / 6,7 mm

2000-378 Extreme Supreme



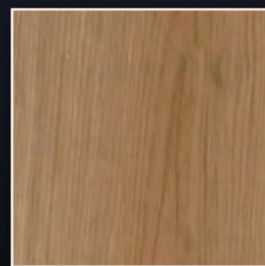
8,0 / 6,7 mm

2561-378* Extreme Supreme



10,0 / 8,0 / 6,7 / 6,0 mm

3151-378 Mega / Extreme Supreme / Elite



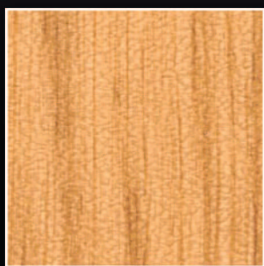
6,7 mm

2181-371 Supreme



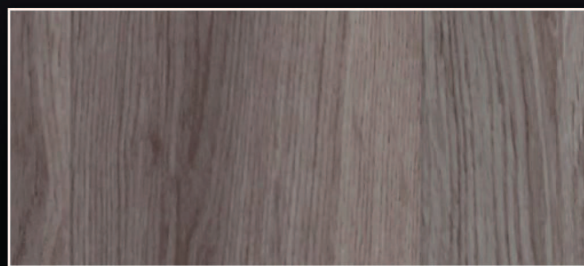
10,0 / 8,0 / 6,7 / 6,0 mm

2519-371 Mega / Extreme Supreme / Elite



8,0 / 6,7 mm

2209-371 Extreme Supreme



6,7 mm

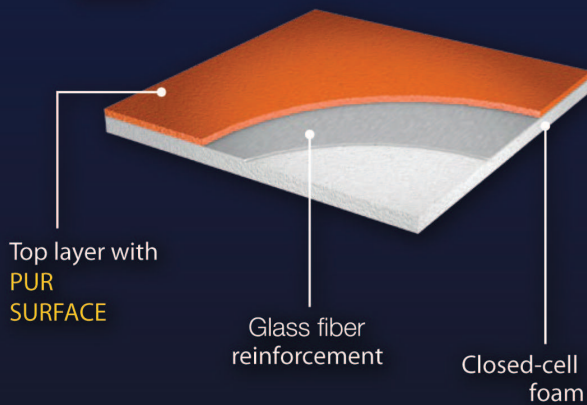
1171-371 Supreme

*min. order 1000m²



GRABOFLEX

GYMFIT 60



BENEFITS

- Coefficient of friction between 0,4-0,7
 › Optimal balance of grip and slide
- Easy to clean without periodical polishing
 › Less energy consumption, less maintenance cost
- Optimal specular gloss
- Solvent and heavy metal free products
- 100 % recyclable
- Contains pre-consumer recycled materials
- Light weight and flexibility; Available in rolls
 › Easy and quick installation
- 2 m wide rolls › Less welding and joints

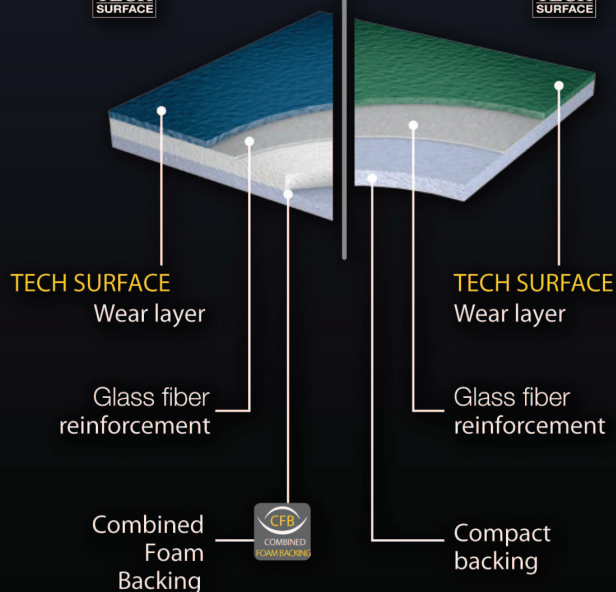
GRABOSPORT

PRIMA



GRABO

STAMINA



RECOMMENDED USAGE:

- Fitness halls
- Schools
- Gymnastics
- Kindergarten

THICKNESS

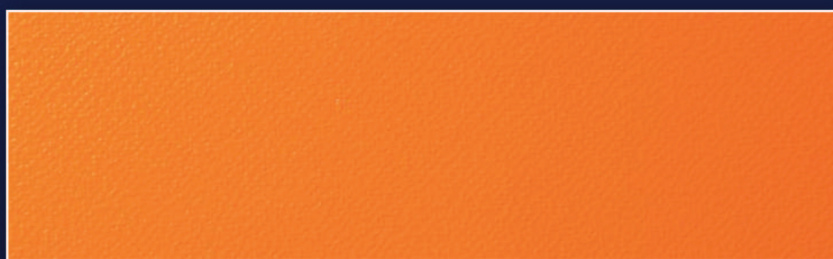
	Gymfit 60 6,0 mm	Prima 4,5 mm	Stamina 2,0 mm
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GUA R ANTEE

Gymfit 60	7 years	Prima Stamina	10 years
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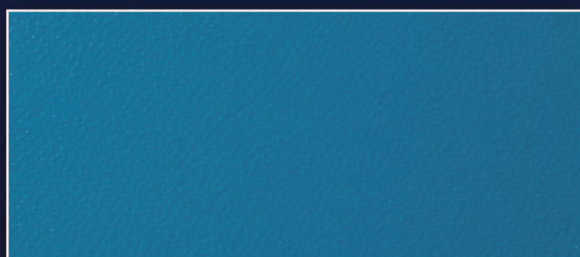
Colours of GYMFIT 60



3338



3096



6170



7483



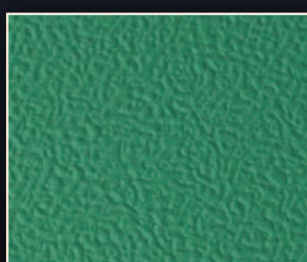
2519-371

Colours of PRIMA & STAMINA



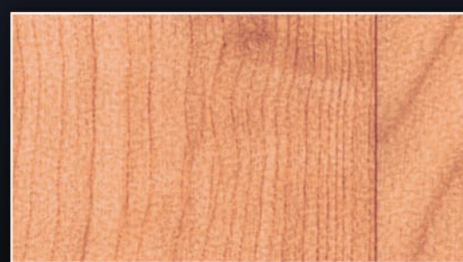
3338

Prima / Stamina



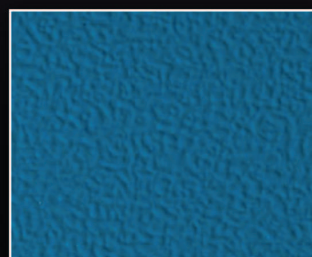
7483

Prima / Stamina



3151-378*

Prima / Stamina



6170

Prima / Stamina



2519-371

Prima / Stamina

*min. order 1000 m²



GRABOFLEX
GYMFIT 50



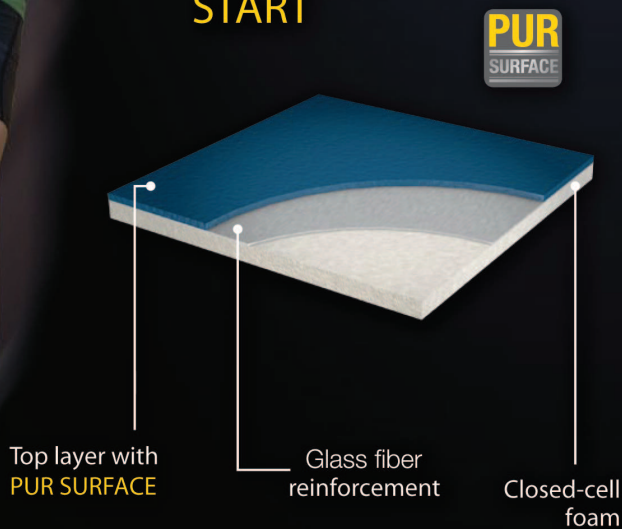
BENEFITS

- Coefficient of friction between 0,4-0,7
 > Easy direction change
- No periodical polishing required
 > Less energy consumption, less maintenance cost
- Optimal specular gloss
- Solvent, heavy metal and phtalathe free formulation; Low VOC
 > Environmentally sound solution
- 100 % recyclable
- Contains pre-consumer recycled materials
- Light weight and flexibility; Available in rolls
 > Easy and quick installation
- 2 m wide rolls > Less welding and joints

RECOMMENDED USAGE:

- Schools
- Martial arts
- Kindergarten
- Wheelchair sports

GRABOFLEX
START



THICKNESS



GUA R ANTEE

Gymfit 50 **7** years Start **10** years

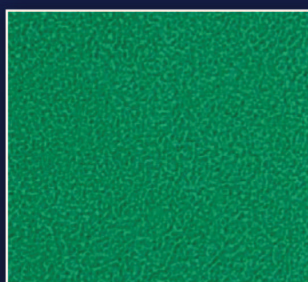


Colours of **GYMFIT 50**



4000-647

5.0 mm



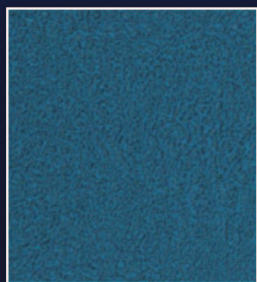
4000-675

5.0 mm



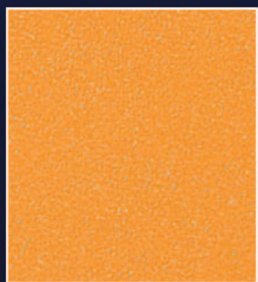
4000-635

5.0 mm



4000-661

5.0 mm



4000-630

5.0 mm



4000-616

5.0 mm



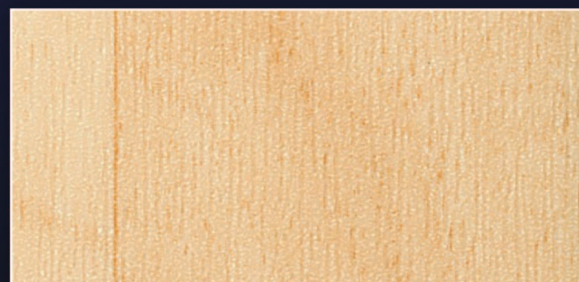
4000-677

5.0 mm



4231-674

5.0 mm



4217-671

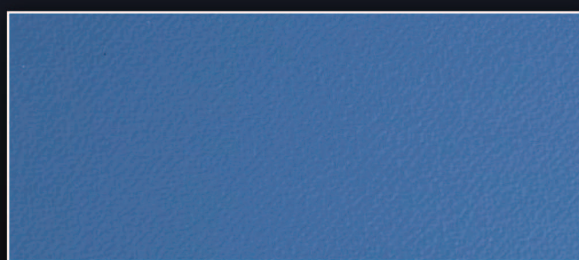
5.0 mm

Colours of **START**



4000-665

4.0 mm



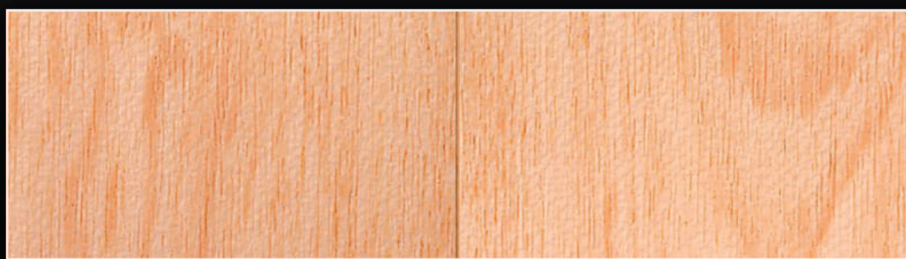
4000-659

4.0 mm



4000-660

4.0 mm



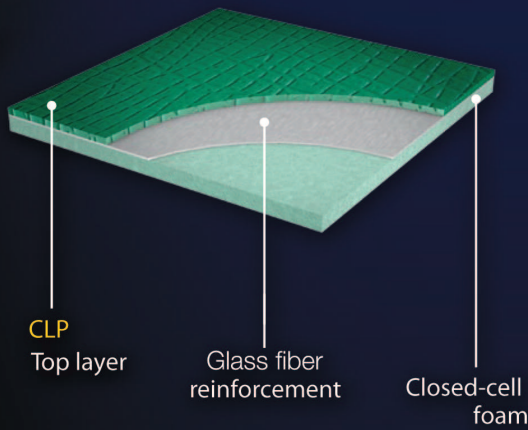
4181-651

4.0 mm



BADMINTON AND TABLE TENNIS

GRABO
ROCKET



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 phthalate free formulation; Low VOC
 > Environmentally sound solution
- 100 % recyclable
- Contains pre-consumer recycled materials

RECOMMENDED USAGE:

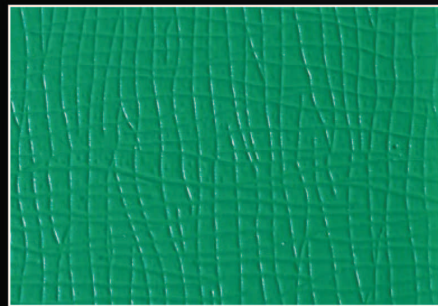
- Badminton
- Table tennis
- Kindergarten
- Aerobic / Yoga

Colours of ROCKET



4387

3,8 mm



7533

3,8 mm

THICKNESS



GUARANTEE

7 years



DANCE FLOORS

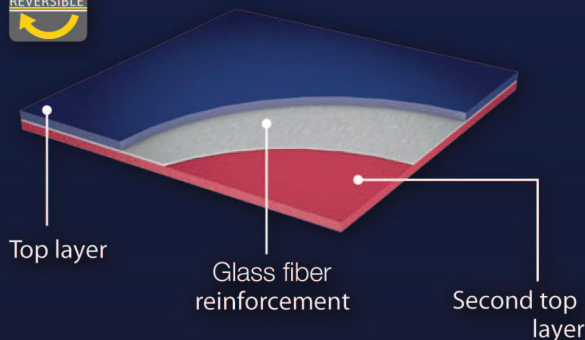
BENEFITS

- 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

RECOMMENDED USAGE:

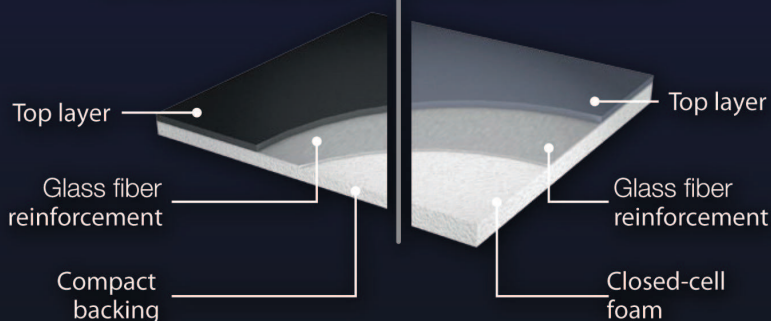
- Contemporary
- Ballett
- Hip-Hop / Jazz
- Social

DUETT



EVIDANCE 25

EVIDANCE 60



THICKNESS



Duett	Evidence 25	Evidence 60
14 mm	25 mm	60 mm

Colours of DUETT



1220/1571 Light Gray / Gray



6270/4252 Blue / Red



6875/1535 Black / Gray



6875/1008 Black / White

Colours of EVIDANCE



1290



1991



SPECIALITIES

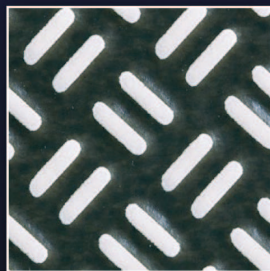
GRABO

VAPOREX



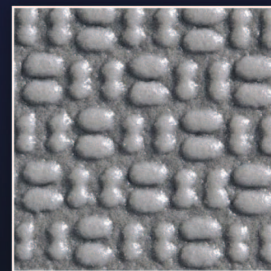
Damp proof membrane for protection against moisture and for quicker installation.

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



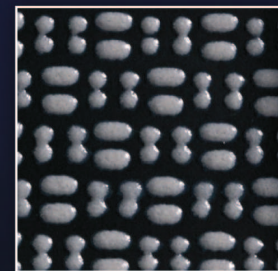
4250-991 Vaporex T

1,3 mm



1991-S-01/1 Vaporex 40

4,0 mm

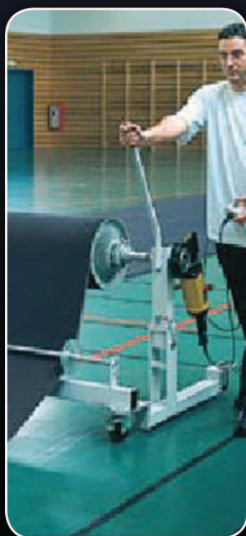


1991-S-03/1 Vaporex

1,4 mm

GRABO

PROTECTSPORT



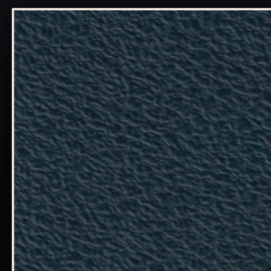
Protects the sport flooring during non-sportive events. Easy to roll up and down.

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

1,5 mm



1784 ProtectSport

1,5 mm



5000-510 ProtectSport T

1,0 mm

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.

Yellow



Blue



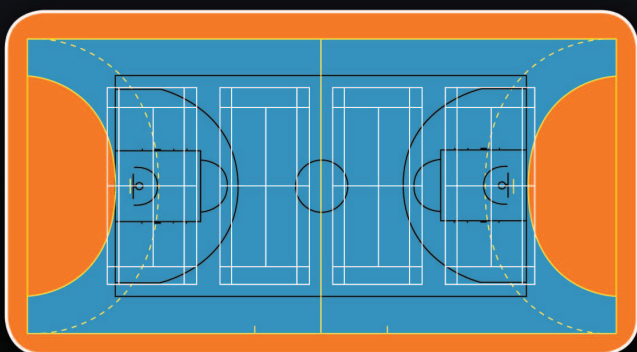
Red



White



Black



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



APPLICATION

Multisport halls *

- competition level

- universities / colleges

- schools

Dance halls

- ballett

- hip-Hop / jazz

- contemporary

- social

Aerobic / Yoga

Badminton

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
- competition level	●	●	●	○									
- universities / colleges	●	●	●	●									
- schools	●	●	●	●	●	●	●	●	○				
- ballett							○	○		○	●	●	
- hip-Hop / jazz										○	●	●	●
- contemporary										○	●	●	●
- social										●		●	
Aerobic / Yoga	●	●	●	●	●	●	●	○	●			○	●
Badminton		●	●	●	●	●	●	●	●				
Billiards / Snooker										●			
Body building										●			
Cardio training						○	●	○		●			
Fencing	●	●	●	●	●	●	●	●	●				
Floorball	●	●	●	●	●	●	●	○	○				
Gymnastics	●	●	●	●	●	●	●	○	○				●
Indoor hockey	●	●	●	●	●	●	●		○				
Kindergarten	●	●	●	●	●	●	●	●	●				●
Locker room						○	●	●	○	●		●	○
Martial arts				●	●	●	●	●	●	○			
Squash				○	○	○	○	○	○				
Table tennis						○	●	●	●				
Tennis			●	●	●				○				
Wheelchair sports				○	○	○	●	●	●	●			

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

○ - good ● - recommended ● - best solution

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 ²	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

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	ΔLw (dB)	EN ISO 717-2 EN ISO 140-8	21	21	22	21	21			16		
Thermal resistance	m ² K/W		0,10	0,08	0,07	0,06	0,04	0,03	0,05	0,04	0,03	0,01
Flammability		NF P 92-512	M3	M3	M3	M3			M3	M3		
		EN 13501-1	Cfl - S1	Cfl - S1	Cfl - S1	Cfl - S1	Cfl - S1		Cfl - S1	Cfl - S1	Cfl - S1	Cfl - S1
		ÖNORM B3810/B3800/2	B1-Q1	B1-Q1	B1-Q1	B1-Q1			B1-Q1	B1-Q1		
		ISO 3795	100	100	100	100	100	100	100	100	100	100

SPORT PROPERTIES

Rotational friction		EN13036-4 PrEN 14903	80-110 0,4-0,6	80-110 0,4-0,6	80-110 0,4-0,6	80-110 0,4-0,6	80-110	80-110	80-110	80-110	80-110	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

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
Abrasion group		EN 660-1	T	T	T	T	T	T	T	T	T	T





REGULER PRODUCTION

PROJECT PRODUCTION*

	Colors	welding rod	Colors
Elite	3151-378-273	3151	2181-371-273
	2519-371-273	2066	2000-378-273
	3338-00-273	3338	1171-371-273
	6170-00-273	6170	2209-371-273
	7483-00-273	7483	6470-00-273
	1360-00-273	1360	7143-00-273
	3096-00-273	3096	2089-00-273
	4289-00-273	4289	6115-00-273
			7539-00-273
Supreme	2209-371-273	2219	2561-378-273
	2519-371-273	2066	
	1171-371-273	1246	
	2181-371-273	2181	
	2000-378-273	2000	
	3151-378-273	3151	
	6470-00-273	6470	
	3338-00-273	3338	
	6170-00-273	6170	
	7483-00-273	7483	
	4289-00-273	4289	
	7143-00-273	7143	
	3096-00-273	3096	
	1360-00-273	1360	
	2089-00-273	2243	
6115-00-273	6115		
7539-00-273	7539		
Extreme	2209-371-273	2219	2561-378-273
	2519-371-273	2066	1171-371-273
	2000-378-273	2000	2181-371-273
	3151-378-273	3151	
	1360-00-273	1360	1008-00-273
	3096-00-273	3096	6115-00-273
	3338-00-273	3338	2089-00-273
	4289-00-273	4289	7539-00-273
	6170-00-273	6170	
	6470-00-273	6470	
	7143-00-273	7143	
	7483-00-273	7483	
Mega	3151-378-273	3151	2209-371-273
	2519-371-273	2066	1171-371-273
	3338-00-273	3338	2181-371-273
	6170-00-273	6170	2000-378-273
	7483-00-273	7483	1008-00-273
	1360-00-273	1360	6470-00-273
	3096-00-273	3096	7143-00-273
	4289-00-273	4289	2089-00-273
			6115-00-273
		7539-00-273	
Stamina	2519-371-273	2066	2000-378-273
	3338-00-273	3338	2209-371-273
	7483-00-273	7483	1171-371-273
	6170-00-273	6170	2181-371-273
			3151-378-273
			1360-00-273
			6470-00-273
			4289-00-273
			7143-00-273
			3096-00-273
			2089-00-273
		6115-00-273	
		7539-00-273	



*Project production conditions: Please ask the territorially competent sales manager

<http://graboplast.com/en/content/Contact/sales.html>