



Grabo
sport

FLOORING

The ultimate flooring,
the ultimate performance

COMPETITION

Extreme/Supreme

MULTIFUNCTIONAL SPORT HALLS, UNIVERSITIES

Extreme/Supreme/Elite

SCHOOLS, KINDERGARTENS

Supreme/Elite/Gymfit 60/Gymfit 50/Start

AEROBIC, GYMNASTICS

Elite/Gymfit 60/Gymfit 50

CARDIO TRAINING, MARTIAL ARTS

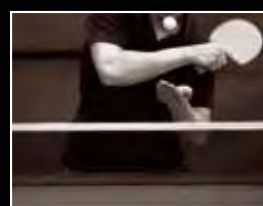
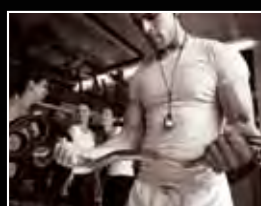
Gymfit 50/Gymfit 25

BODY BUILDING

Gymfit 25/Stamina

BADMINTON, TABLE TENNIS

Rocket/Gymfit 50/Start



Enviromental attributes

• NO HARMFUL MATERIALS

Our floorings are free from solvents and heavy metals.

• LESS ENVIROMENTAL IMPACT

Due to reduced maintenance requirements: less water, cleaning agents, wastewater and less energy for cleaning.

No polish required, no energy consumption.

• REDUCED LIFE CYCLE COST

Extended lifespan and reduced maintenance requirements result in an enviromentally sound and cost effective product.



Benefits of installation

• EASY AND QUICK LAYING

- light weight
- availability in rolls

• LESS WELDING

2 m wide rolls more aesthetic overall appearance



Innovative Surfaces

Graboplast has 3 surface solutions: **TECH Surface**, **PUR Surface** and **CLP**. When creating these, our aim was to develop top layers with better durability and better cleanability.



TECH SURFACE

This patented procedure we use in our graboSport range and Stamina. These products are easy to clean and durable due to PUR and micronised Al_2O_3 particles.



PUR SURFACE

PUR Surface is our latest development which we apply in our Gymfit range. It contributes to the attractive look of these floorings and simplifies their cleaning.



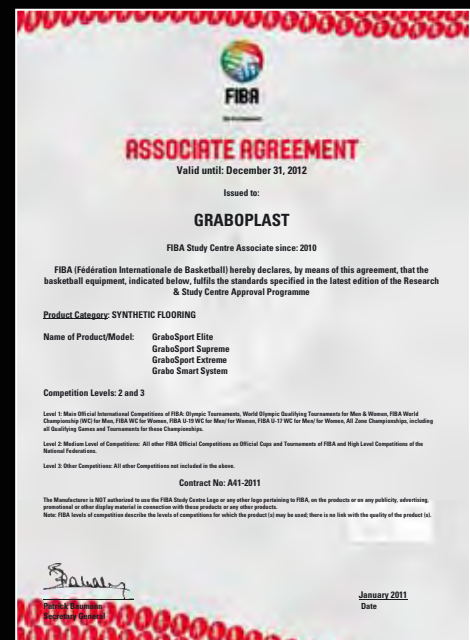
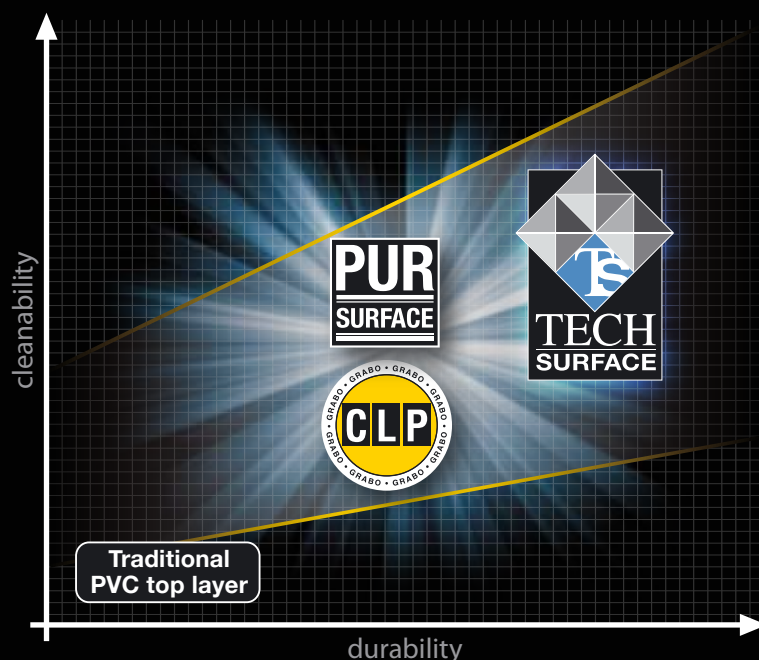
CLP

CLP is a special cross linked polymer in the cross-section of the wear layer which makes the cleaning easier and increases the life expectancy of the floor.

	TECH Surface	PUR Surface	CLP
Extreme	✓		
Supreme	✓		
Elite	✓		
Gymfit 60		✓	
Gymfit 50		✓	
Gymfit 25		✓	
Start			✓
Rocket			✓
Stamina	✓		



Lifetime properties



Our engineers have reinvented the conventional product construction and have created a revolutionary new wear layer. This is TECH Surface: wear layer hardened by Grabo patented procedure. Due to its special composition TECH Surface provides high durability and easy



to clean properties during the whole lifetime of the product. **It contains micronised Al_2O_3 particles for wear resistance and polyurethane (PUR) for the cleanability.**

We use this type of wear layer in our graboSport range and Stamina.

Main features

- **LONG LIFE EXPECTANCY**

TECH Surface wear layer contains micronised Al_2O_3 particles that increase its abrasion resistance.

- **EASY MAINTENANCE**

No polish required. PUR provides easy to clean properties, and you can reduce the maintenance costs.



- **EXCELLENT CHEMICAL RESISTANCE**

Can be cleaned with ordinary cleaning agents without any problem.

- **HYGIENIC**

GraboSport floorings are treated with graboSAN to stop the growth of germs, thus reducing the risk of contamination caused by bacteria in case of injuries.



- **SOLVENT FREE**

Made by technological procedures without using solvents.



Sport and protective benefits of graboSport range



Reduced risk of injury

Optimum vertical deformation

Comfortable underfoot



Long term protection

Excellent shock absorption

Genuine joint and cartilage protection



Easy direction change

Coefficient of friction between 0,4-0,7

Optimal balance of grip and slide



Superior for ball sports

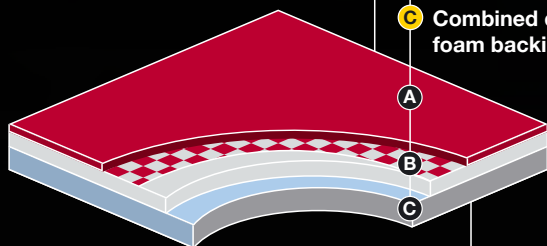
Outstanding ball rebound
Imposing sporting performance



graboSport Extreme Supreme Elite



- A TECH Surface
- B Glass fiber reinforcement
- C Combined double-foam backing



	Extreme	Supreme	Elite
Width EN426	200 cm	200 cm	200 cm
Standard roll length EN426	15 m ± 10%	15 m ± 10%	20 m ± 10%
Thickness EN428	8,0 mm	6,7 mm	6,0 mm

complying with EN 14904



Extreme
Supreme



Elite



grabo Stamina



- A TECH Surface
- B Glass fiber reinforcement
- C Compact backing



Width EN426	200 cm
Standard roll length EN426	20 m ± 10%
Thickness EN428	2,0 mm

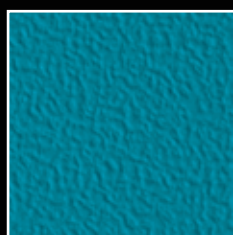
complying with EN 14904 on subfloor



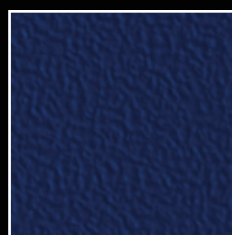
7483 8,0 mm 6,7 mm
6,0 mm 2,0 mm



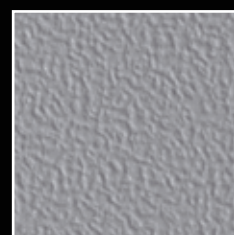
6170 8,0 mm 6,7 mm
6,0 mm 2,0 mm



7143 8,0 mm
6,7 mm



6470 8,0 mm
6,7 mm



1360 8,0 mm
6,7 mm



3096 8,0 mm
6,7 mm



3338 8,0 mm 6,7 mm
6,0 mm 2,0 mm



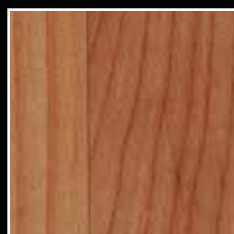
4289 8,0 mm
6,7 mm



2000-378 8,0 mm
6,7 mm



2561-378 8,0 mm
6,7 mm



3151-378 8,0 mm 6,7 mm
6,0 mm 2,0 mm



6107-378 8,0 mm
6,7 mm



2519-371 8,0 mm 6,7 mm
6,0 mm 2,0 mm



2209-371 8,0 mm
6,7 mm



3111-371 8,0 mm
6,7 mm

The universal Gymfit floor coverings can be found in a wide range of places, from home gym rooms through professional fitness centers to multi-purpose school gyms.

Whatever the specific application may be, **easy maintenance** is one of the primary requirements a floor covering should meet. Through the most recent development, the

PUR
SURFACE

Gymfit series have got a **protective PUR** (polyurethane) surface that contributes to the attractive look of these floorings and further simplifies their cleaning and maintenance due to:

- continuous, pore-free and thus dirt-resistant surface;
- low surface tension that helps to remove the dust and dirt and to keep the floor clean.

graboflex

Gymfit 60
Gymfit 50
Gymfit 25

PUR SURFACE

200cm width
SOLVENT FREE
NO WAX

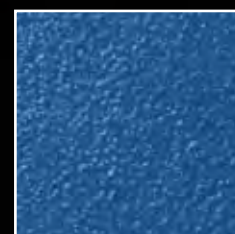
A Top layer with PUR
B Glass fiber reinforcement
C PVC Foam

	Gymfit 60	Gymfit 50	Gymfit 25
Width EN426	200 cm	200 cm	200 cm
Standard roll length EN426	15 m ± 10%	20 m ± 10%	25 m ± 10%
Thickness EN428	6,0 mm	5,0 mm	2,5 mm

7



4000-675 2,5 mm
5,0 mm
6,0 mm



4000-661 2,5 mm
5,0 mm
6,0 mm



4000-635 2,5 mm
5,0 mm
6,0 mm



4000-647 5,0 mm



4000-630 5,0 mm



4217-671 5,0 mm



Our aim is to keep the main technical parameters during the whole lifetime of the flooring. In order to reach it, we have developed an innovative top layer composition called Cross Linked Polymer System (**CLP**).

Due to the high density of the chemical cross links, on one hand CLP reduces the



adhesion of the contamination on the surface, **improving the cleanability**, on the other hand **increases the wear resistance** thus the lifespan of the flooring. Thanks to CLP our floors preserve their surface properties (slip, cleanability, gloss) for a long time.



graboflex Start



- A CLP Top layer
- B Glass fiber reinforcement
- C PVC Foam



Width EN426	200 cm
Standard roll length EN426	20 m ± 10%
Thickness EN428	4,0 mm



grabo Rocket



- A CLP Top layer
- B Glass fiber reinforcement
- C PVC Foam



Width EN426	200 cm
Standard roll length EN426	15 m ± 10% 20 m ± 10%
Thickness EN428	3,8 mm



Sport flooring specially for badminton and for table tennis



4000-659



4000-660



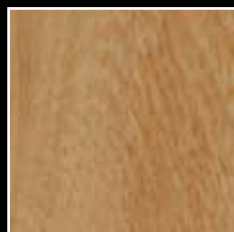
4387



7533



4000-665



4181-651



grabo Evidence 25 Evidence 60

Hard wearing floor covering with an embossed non-slip surface. Ideal solution for all kind of dances. Available also with fom backing for the higher shock absorption i.e. better cartilage protection.

- A** Top layer
- B** Glass fiber reinforcement
- C** Foam

Evidence 25

Evidence 60

- A** Top layer
- B** Glass fiber reinforcement
- C** Compact backing

	Evidence 25	Evidence 60
Width of rolls EN426	200 cm	200 cm
Standard roll length EN426	20 m $\pm$ 10%	20 m $\pm$ 10%
Thickness EN428	2,5 mm	6,0 mm



1290

2,5 6,0 mm



1991

2,5 6,0 mm

grabo Vaporex

Damp proof membrane for protection from moisture and for quicker installation



	Vaporex	Vaporex 40
Width EN426	145 cm	145 cm
Standard roll length EN426	25 m $\pm$ 10% 45 m $\pm$ 10%	25 m $\pm$ 10%
Thickness EN428	1,4 mm	4,0 mm

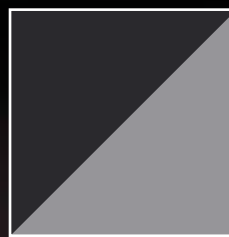
grabo Broadway 17

Reversible floor for dance/ballet performances. The glass fiber reinforcement provides dimensional stability e.g. you can roll-in roll-out and change sides as many times as you want

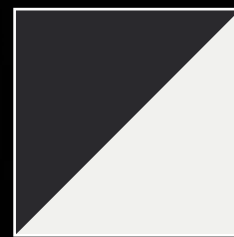
- A** Top layer
- B** Glass fiber reinforcement
- C** Second top layer



Width EN426	200 cm
Standard roll length EN426	15 m $\pm$ 10% 20 m $\pm$ 10%
Thickness EN428	1,7 mm



1991/1535 (black/gray)



1991/1001 (black/white)



6271/1991 (blue/black)



grabo ProtectSport

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



1784

ProtectSport



7522

ProtectSport



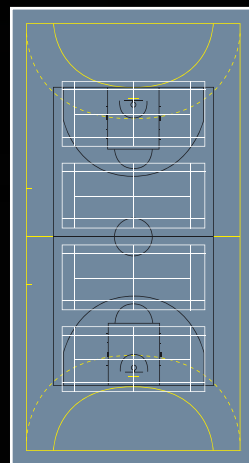
5000-510

ProtectSport T

	ProtectSport	ProtectSport T
Width of rolls EN426	140 cm	200 cm
Standard roll length EN426	25 m ± 10%	35 m ± 10%
Thickness EN428	1,5 mm	1,0 mm

grabo Color

Paints for marking sports ground lines



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



grabo Weld

Welding rod, matching to graboSport flooring designs, guarantees a waterproof joint at installation



Diameter	4,5 mm
Roll length	100 m

Flooring	Recommended welding rod	
2000		2000
2519		2529
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
7483		7483

Flooring	Recommended welding rod	
4217-671		2066
4181-651		2216
3151		3151
3111		3648
6170		6170
4000-661 4000-659		6161
6107		6107
6470		6470
7143		7143
7533 4000-675		7533
4000-660		7507

References

GYMFIT

Becan Primary School - Singapore
Private fitness club – Moscow / Russia
Turgeliu high school – Salchininkai / Lithuania
Hotel Slovan, fitness room – Brno / Czech Republic
Municipal Gymnasium – Skidras / Greece
National Ed. Ministry high school – Düzce / Turkey
Wuxi Chonming Lu Prim. School – Wuxi / China
E. Rojo gym – Madrid / Spain
Gymhall – Xian / China
Badminton club – Kosice / Slovakia
Sportshall – Wuhan / China
Sports hall – Treppo Carnico / Italy
University CVUT – Prague / Czech Republic
MEF Education high school – Izmir / Turkey
Sz. Györgyi primary school – Győr / Hungary
Government Club – Nanjing / China
City Sports hall – Velky Krtis / Slovakia
City sports hall- fitness room- Dubnany / Czech Republic
G. Galilei gym – Verona / Italy
Primary school – Böhönye / Hungary
Primary school – Bszentgyörgy / Hungary
Greendale Primary School - Singapore
Sports complex – La Fontina / Italy
Sports hall Ruzyně – Prague / Czech Republic
Aupark Shopping Center – Bratislava / Slovakia
Golf club - Moscow / Russia
4 th high school – Larisas / Greece
Fitness center – Ankara / Turkey
Multifunctional sports hall – Moscow / Russia
Multifunctional sports hall – Krakow / Poland
City sports hall – Castronuno / Spain
Multifunctional sports hall – Tresto-Ospedaletto / Italy
Primary school – Nagysáp / Hungary
Dusetu high school – Zarasai / Lithuania
Primary school – Győrzámoly / Hungary

ELITE

Victoria Sports Hall - Shanghai / China
Elementary school and gyms – Bucuresti / Romania
Military post's gym – Algir / Algeria
Military sport center – Pleseck / Russia
Veterinary university – Brno / Czech Republic
Sportshall – Nanjing / China
Golf club – Dubai / UAE
Institut Couzot – Dinant / Belgium
Sport gymnasium – El Algnian / Spain
Elementary school – Táplánszentkereszt / Hungary
Gym of Gymnastic Association – Deskatis / Greece
Kálvária u. primary school – Győr / Hungary
San Antonio Gym – Caceres / Spain
Elementary school – Mezőkocsonya / Hungary
Hungarian Language School – N. Zámky / Slovakia
Jiling Laboratory High School – Chanchun / China
Sport center – Astrachan / Russia
Elementary school – Iharosberény / Hungary
Fitness club – Pösneck / Germany
The Waldorf school – Lexington / USA
Daimler-Chrysler Training Center – Alabama / USA
Sports courts – Jawornik / Poland
City sports hall – Dunakiliti / Hungary
Municipal gym – Marano / Italy
Sports Palace – Natisone / Italy
La Lobilla Sports Complex – Estepona / Spain
Police gymnasium – Tarvisio / Italy
Industrial secondary school – Oradea / Romania
Multifunctional Sports Hall – Elista / Russia
Fitness center – Yekaterinburg / Russia
City Sports Hall - Putnok / Hungary
Table tennis hall – Dubnany / Czech Republic
Elementary school – Murakeresztúr / Hungary
Aristotelio University's gym – Thessaloniki / Greece
Erzsébet v. Elementary school – Budapest / Hungary
Elementary school – Szügy / Hungary

SUPREME

FK Saturn Sports Hall - Jegorevszk / Russia
Multifunctional sport halls - Moscow / Russia
Wellesbourne school – Wellesbourne / England
Torre del Camo Sports Hall - Cordoba / Spain
Elementary school – Sándorfalva / Hungary
Sportarena - Minsk / Belorussia
Development Center – Colombus / USA
Salle de sports – Ciney / Belgium
Elementary school – Békéscsaba / Hungary
Sports hall – Villejuif / France
Sports hall – Lys le Lannoye / France
Encinarejos Sport Hall - Cordoba / Spain
City Sports Hall - Balassagyarmat / Hungary
City sport hall – Hämeenlinna / Finland
Sports hall - Sucy en Brie / France
City Sports Hall - Florianapolis / Brasilia
De Marinalede City Sports Hall - Sevilla / Spain
Military police of Furiani – Furiani / Corsika
City Sports Hall - Elblag / Poland
Sports hall – Lappeenranta / Finland
Grammar-school - Szentendre / Hungary
Private gymnasium – Dubai / UAE
City Sports Hall – Novosibirsk / Russia

EXTREME

Villanova sport hall – Barcelona / Spain
Zonguldak University – Ankara / Turkey
Jeddah Medical Centre - Saudi Arabia
College Basse Wavre – Wavre / Belgium
La Rambla Sports Hall - Cordoba / Spain
Multifunctional sport hall – Valladolid / Spain
Worlds gym – Newnan / USA
Elementary school – Bacau / Romania
Elementary school – Iasi / Romania
SZK Gorizont Sports Hall - Zvenigorod / Russia
BHG Sports Hall - Budapest / Hungary
Elementary school – Pannonhalma / Hungary
KOC High School – Istanbul / Turkey
City sports hall – Dubnany / Czech Republic
Abu Dhabi Municipal School / UAE
Apáczai Cs. J. High school - Győr / Hungary
Pannonia Elementary school – Budapest / Hungary
Elementary school – Gelse / Hungary
Anafen High School – Istanbul / Turkey
City Sports Hall - Meknés / Morocco
Gymnasium's sport hall – Elda / Spain
Marina Besos Sport Hall - Barcelona / Spain
Multi-use gym - Larkmead / England
Community Hall – Berente / Hungary
Salle Couverte Ominsport Al Massira - Meknés / Morocco
City Sports Hall - Gyomaendrőd / Hungary
Elementary school – Komló / Hungary
Elementary school – Zomba / Hungary
Kiss Á Elementary school – Balassagyarmat / Hungary
Krudy Gy. Grammar-school - Győr / Hungary
Tamási Á. Grammar-school – Budapest / Hungary
City Sports Hall - Turguju / Roumania
Elementary school – Brno / Czech Republic
Scituate Racquet & Fitness – Scituate / USA
Széchenyi I. University - Győr / Hungary
Al Murooj Complex – Dubai / UAE
Salle de Sports – Grivegnée / Belgium



Bethesda, USA



La Coruna, Spain



Elblag, Poland



Meknés, Morocco



Liuzhou, China

Application

	Multisport halls e.g. Handball, Basketball, Volleyball, Futsal, Netball	• competition level	• universities/colleges	• schools	Aerobic/Yoga/Dance	Badminton	Ballet/Dance	Billiards/Snooker	Body building	Cardio training	Fencing	Floorball	Gymnastics	Indoor hockey	Kindergarten	Locker room	Martial arts	Squash	Table tennis	Tennis	Wheelchair sports
graboSport Extreme		●	●	●	●						●	●	●	●							
graboSport Supreme		●	●	●	●						●	●	●	●						●	
graboSport Elite		●	●	●	●	●					●	●	●	●	●		●	●		●	●
graboflex Gymfit 60				●	●	●					●	●	●	●	●		●	●	●		●
graboflex Gymfit 50				●	●	●	●			●	●	●	●	●	●	●	●	●	●		●
graboflex Gymfit 25							●	●	●	●	●					●	●				●
graboflex Start				●	●	●	●				●	●	●		●	●	●	●	●		●
grabo Rocket			●	●	●						●	●	●	●	●		●	●	●	●	●
grabo Stamina							●	●	●	●						●	●				●
Broadway 17							●														
Evidence 25					●		●														
Evidence 60					●								●		●	●					

Technical data

			graboSport Extreme	graboSport Supreme	graboSport Elite	grabo Rocket	graboflex Gymfit 60	graboflex Gymfit 50	graboflex Gymfit 25	graboflex Start	grabo Stamina
Standard length *(lm)		EN 426	15	15	15	15; 20	15	20	25	20	20
Width(m)		EN 426	2	2	2	2	2	2	2	2	2
Thickness (mm)		EN 428	8,0	6,7	6,0	3,8	6,0	5,0	2,5	4,0	2,0
Shock absorption (%)		DIN 18032	37	36	31						
Shock absorption (%)	25-75	EN 14808	34	33	28						
Vertical deformation (mm)	≤ 5	EN 14809	1,2	0,8	1,1			0,33			
Vertical ball behavior (%)	≥ 90	EN 12235	99	99	97			100			
Rotational friction	80-110	EN 13036-4	80-110	80-110	80-110		80-110	80-110	80-110		
Specular gloss	≤ 30	EN 2813	<30	<30	<30		<30	<30	<30		
Resistance to wear (mg/1000 cycl.)	≤ 1000	EN ISO 5470-1	<250	<250	<250		<250	<250	<250		
Resistance to indentation (mm)	≤ 0,5	EN 1516	0,46	0,19	0,26		0,23	0,13	0,19		
Resistance to a rolling load (N)	min.1500	EN 1569	1500	1500	1500		1500	1500	1500		
Deceleration	≤ 102g	NF P 90-104	64 g	67 g	85 g						
Ball rebound (m/s)	≥ 0,3	NF P 90-104	0,44	0,47	0,38						
Indentation (mm)	≤ 0,5	NFT 54 209	0,38	0,50	0,42						
Sliding	80<G<105	P 90-106	103	105	103						
Abrasion resistance (g)	< 0,8	NF P 90-102	0,22	0,22	0,15						
Brightness	< 12	NFT 30-064	<12	<12	<12						
Flammability		NF P 92-512	M3	M3	M3		M3	M3	M3		
		EN 13501-1	C _{fl} - S1	C _{fl} - S1	C _{fl} - S1	C _{fl} - S1	C _{fl} - S1	C _{fl} - S1	C _{fl} - S1	C _{fl} - S1	C _{fl} - S1
		ÖNORM B 3810 & 3800/1	B1 - Q1	B1 - Q1	B1 - Q1	B1 - Q1	B1 - Q1	B1 - Q1	B1 - Q1	B1 - Q1	B1 - Q1
		ISO 3795	100	100	100	100	100	100	100	100	100
Dimensional stability (+/-%)		EN 434	0,2	0,2	0,2	0,2	0,2	0,2	0,2	0,2	0,2
Colour fastness		ISO 105B02	>6	>6	>6	>6	>6	>6	>6	>6	>6
Resistance to chemicals		EN 423	no change								