

Gerflor





# **TABLE OF CONTENTS**



# **GERFLOR**





# INDOOR SYNTHETIC FLOORS: THE BEST PERFORMING PRODUCTS ON THE MARKET

Taraflex® has been one of the pioneer in 1947 when developping synthetic floors and is today the world leading brand for indoor sports floor.

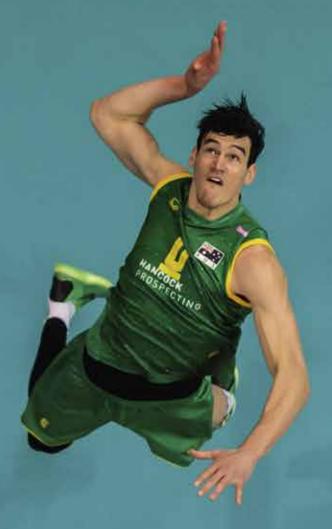
With a complete range of products, Gerflor offers the perfect solution adapted to all users and usages, from low impact activities through to elite and performance sports.

Gerflor sets itself the highest standards when it comes to the environmental quality of its products.

TARAFLEX® SPORT FLOORS ARE RECOGNISED ALL OVER THE WORLD

Every day more than million children play on a Taraflex® sports floor.

3500 high level competitions per year are played on a Taraflex® sports floor.



# WHERE CHAMPIONS PLAY



HARDWOOD FLOORING SYSTEMS:

MORE THAN 100 YEARS

OF EXPERIENCE



Founded in 1872, Connor Sports® is the market leader in portable and permanent hardwood sports flooring systems.

Connor Sports® professional engineers lead the industry in new product design and development, setting the standard for innovative solutions in sports surfacing. In 1914, Connor Sports® installed the first basketball court in the USA. In the late 90's, Boston Celtics selected Connor Sports® to repurpose their famed parquet into a portable flooring system.



OUTDOOR PLAY AREAS:
WORLD'S LEADING OUTDOOR
SPORT SURFACE



In 1974, Sport Court® created the outdoor game court. Since then, over 150,000 courts have been installed worldwide.

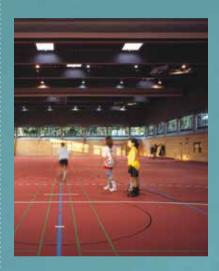
Sport Court®'s superior outdoor play surface is designed to:

- keep athletes safe
- allow for year-round sports activity
  - eliminate costly annual maintenance



INDOOR SPORT AREAS:

HISTORIC LEADER
IN LINOLEUM SPORT FLOORING



DLW Linoleum has been manufacturing high class sport linoleum for over 30 years and is proud to deliver uncompromising product quality.

Adapted to both specific and multi-function use, linoleum high performance floors are a great option to address various applications, from kindergartens to multipurpose halls and fitness centres.

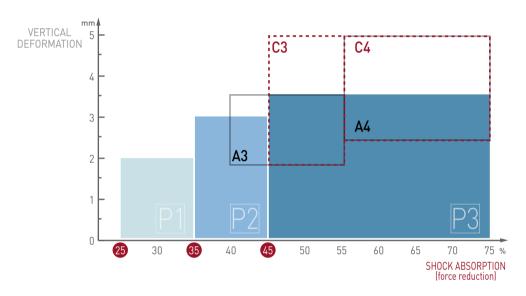
Thanks to its acknowledged sustainable features, millions of square metres of sport linoleum have been installed over the years and still convince new generations of users.

# **HOW ARE TARAFLEX®**

#### EN 14904 EUROPEAN SPORTS FLOORING STANDARD

#### ➤ 3 types of sports floors:

- Point-elastic floors such as Taraflex® (Taraflex® Evolution, Taraflex® Performance, Taraflex® Comfort and Taraflex® Multi-Use).
- A Area-elastic floors such as sprung wooden floors.
- Combined floors, providing a combination of point-elastic and area-elastic floor features.



EN 14904 Standard: minimum performance requirements to be met by indoor sports floors

#### Standard values:

The EN 14904 standard determines force reduction classes for all floors. The objective is to draw attention to the necessity of installing safe, comfortable floors that reduce the risk of injuries.

EN 14904	DESCRIPTION	STANDARD	REQUIREMENT	UNITS	
	Vertical deformation	EN 14809	≤ 3.5	mm	
SPORTS	Shock absorption (Force Reduction)	EN 14808	≥ 25	%	
PROPERTIES	Friction coefficient	EN 13036-4	80 - 110	-	
	Ball bounce	EN 12 235	≥ 90	%	
	Indentation resistance	EN 1516	≤ 0.5	mm	
	Wheel resistance	EN 1569	≥ 1500	N	
TECHNICAL	Impact resistance	EN 1517	≥ 8	N/m	
CHARACTERISTICS	Abrasion resistance	EN ISO 5470-1	≤ 1000	mg	
	Gloss	EN ISO 2813	≤ 30	%	
	Flatness	EN 13036-7	< 6mm/3m	-	
CLASSIFICATION	Fire rating	EN 13501-1	C <sub>fl</sub> -s <sub>1</sub>	-	
	Formaldehyde emission	EN 717-1/2	≽ E1	-	
	Pentachlorophenol emission	EN 12673	< 0.1	%	

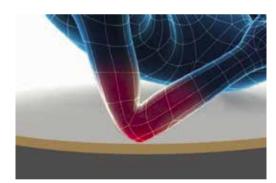
# **FLOORS DEFINED?**

## **IPI: IMPACT PROTECTION INDEX**

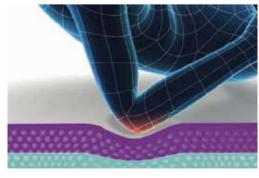
- ▶ **PROTECTION** is the property of the floor that reduces **immediate injuries** when falling, diving, sliding on the floor for all users (children, adults, athletes...)
- NOW WE CAN MEASURE IT!

  Accelerometric impactor to measure the level of protection of sports floors (AC P 90-205).
- THE HIGHER THE [P] (Impact Protection Index), THE HIGHER THE PROTECTION (less pain, fewer bones injuries...)

P = IMPACT PROTECTION INDEX						
≤ 50%	low protection					
50% < IPI ≤ 80%	medium protection					
> 80%	high protection					



Small surface impact area, **low IPI floors**, high risks of immediate injuries.



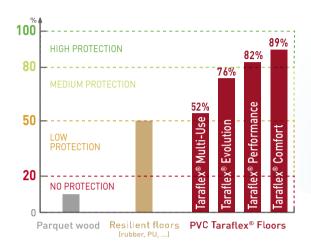
High impact surface area, high IPI floors.



# **WHY SHOULD YOU**

FOR **PROTECTION** 

The floor that brings immediate protection on impact to all users when falling, diving or sliding on the floor.



Gerflor offers Taraflex® Comfort, a P3 floor with the highest level of comfort on the market.

# FOR ITS SUSTAINABILITY COMMITMENT





Indoor air quality

to 15%



Proactive post manufacturing waste management



A second life programme for post installation waste



Reduced maintenance costs



Selected and responsible raw materials

\*REACH is the European regulation on registering, assessing and authorising chemical products within the European Union









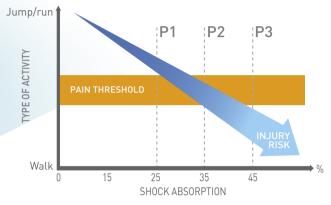




# **CHOOSE TARAFLEX®?**

2 FOR SAFETY

Shock absorption **minimises the force** of impact on the body and reduces long term injury risk.



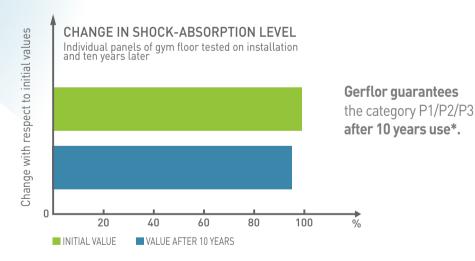
With a complete range of shock absorption P1/P2/P3, Gerflor provides the right solution and the best safety for every user.

**FLEX**®

1947

3 FOR DURABILITY

Taraflex® technologies ensure long-lasting **HIGH PERFORMANCE** 



\*Gerflor's internal ageing tests

Partner of major sports events









# THE SECRETS



An intelligent surface with the unique and patented triple action Protecsol®:

- A friction-burn free surface, on which the temperature during a fall is reduced by 25%.

a fibreglass grid. ▶ Best solution to maximise both slide and grip. ▶ High durability

▶ Cost effective and easy to maintain. 3 CXP HD

Taraflex® Double Density Technology

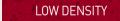
2 D-Max W

**D-Max**<sup>™</sup> surface is a UNIQUE complex made

up of calendered PVC sheets reinforced with

Outstanding dimensional stability

#### **4 DIFFERENT FOAMS**



Lightness



**Elasticity** 



**Energy restitution** 



#### 3 TYPES OF PRODUCTS.

#### **Performance** & Safety





**TARAFLEX® EVOLUTION** TARAFLEX® PERFORMANCE

#### Indentation resistance & Performance





**TARAFLEX® MULTI-USE** 

#### Safety & Protection



CXP HD & Polyolefin foam

**TARAFLEX® COMFORT** 

# OF TARAFLEX® SPORTS FLOORING

# O Dry-Tex\*System

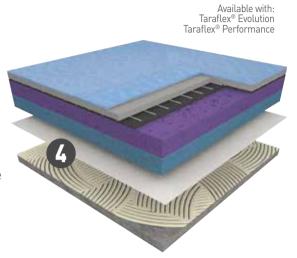
Solution for damp subfloors



▶ DTx™ textile material with CXP HD foam backing



▶ **GERPUR** proprietary mono component adhesive that reacts to humidity: the higher the moisture, the quicker the bonding!



- ➤ Cost-effective no need for additional moisture barriers (DPM's) saving both labour and material costs
- ▶ Time-effective no need to wait for the slab to dry out
- ► **Greater durability and performance** unbeatable bonding strength to the subfloor

INSTALLATION CRITERIA:					
MOISTURE	No limit*				
FLATNESS	< 6mm / 3m				
SURFACE	Hydraulic concrete**				

\*No surface water on the slab / \*\*for more information contact us



# **HOW TO CHOOSE**

# MULTI SPORT

#### **HIGH SPORT PERFORMANCE & COMFORT**

CLUB, COMPETITION & EDUCATION



# TARAFLEX® PERFORMANCE

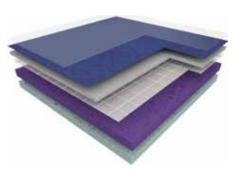




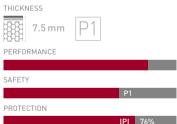
ALSO AVAILABLE WITH Dry-Tex™

#### **VERSATILITY**

CLUB, COMPETITION & EDUCATION



# TARAFLEX® **EVOLUTION**

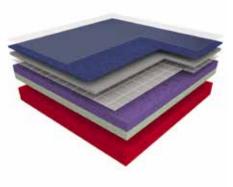




ALSO AVAILABLE WITH Dry-Tex™

#### **MAXIMUM PROTECTION & SAFETY**

EDUCATION



# TARAFLEX® COMFORT





# THE RIGHT FLOOR?

# MULTI PURPOSE

# PERFORMANCE & VERY HIGH INDENTATION RESISTANCE SPORT AND NON-SPORT ACTIVITIES TARAFLEX® MULTI-USE THICKNESS 6.2 mm PERFORMANCE SAFETY PROTECTION





# **HEAVY DUTY** MULTI PURPOSE





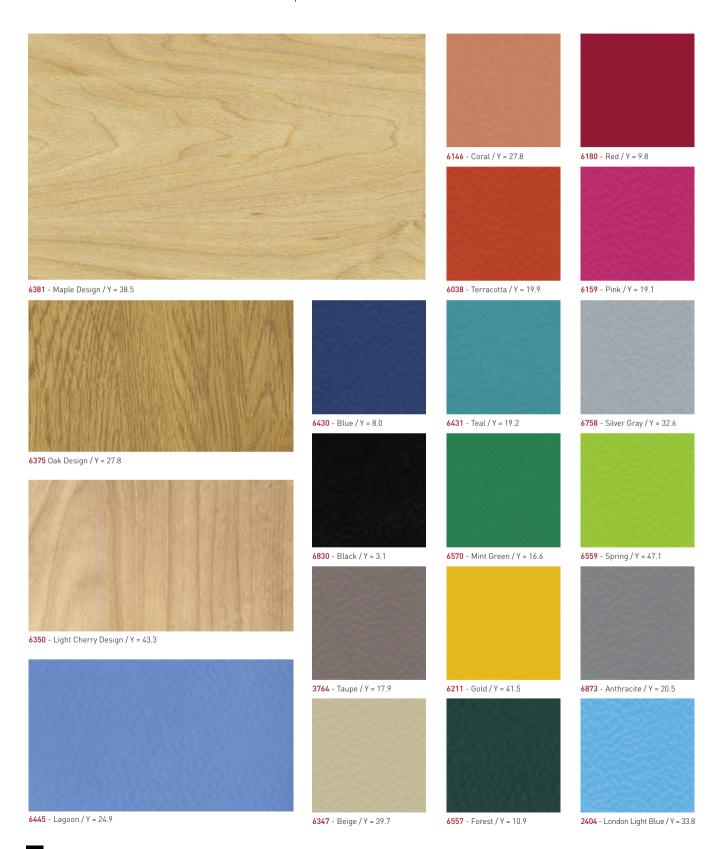
# A LARGE PALETTE

# NATURAL AND VIBRANT COLOURS FOR MULTISPORTS

#### ALL COLOURS ARE AVAILABLE WITH

TARAFLEX® SURFACE
TARAFLEX® PERFORMANCE

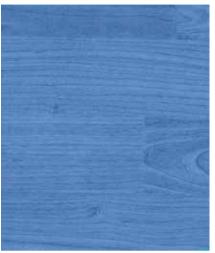
TARAFLEX® COMFORT AND TARAFLEX® EVOLUTION



# **OF COLOURS AND DESIGNS**

#### **MODERN AND URBAN DESIGNS FOR MULTI-ACTIVITIES**

ALL COLOURS ARE AVAILABLE WITH TARAFLEX® MULTI-USE







**4453** - Wood Blue / Y = 17.9

8840 - Wood Black / Y = 17.2

3708 - Wood Grey / Y = 34.2







4331 - Wood Natural / Y = 29.9

2790 - Polished Concrete Dark Grey / Y = 15.3



8069 - Wood Chocolate / Y = 9.4



2791 - Polished Concrete Light Grey / Y = 27.4

# **INNOVATIVE SERVICES**

#### **WHAT WILL YOURS BE?**

# MY TARAFLEX®

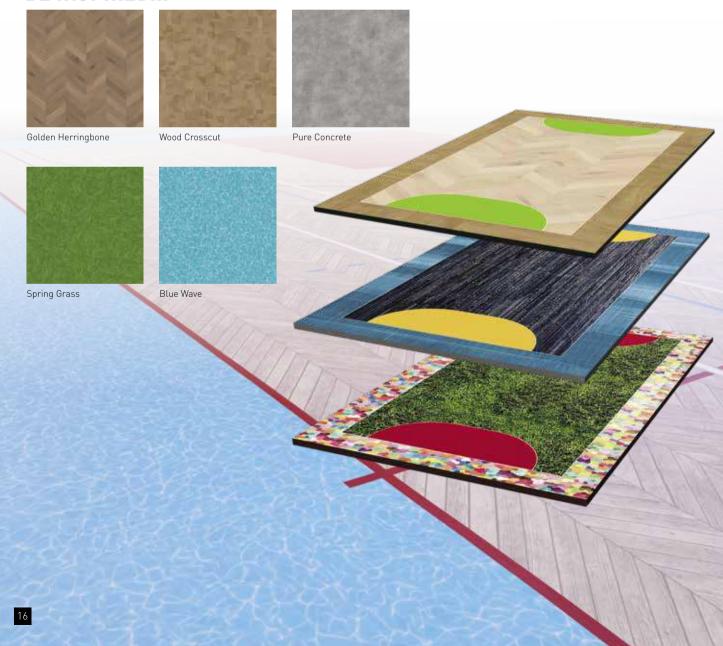
#### CUSTOMISE YOUR SPORT HALL USING THE DIGITAL PRINTING PROCESS

AVAILABLE WITH ALL TARAFLEX® FLOORS\*: TARAFLEX® SURFACE, TARAFLEX® PERFORMANCE, TARAFLEX® EVOLUTION, TARAFLEX® COMFORT, TARAFLEX® MULTI-USE

\* for more details please contact your local Gerflor representative

Get started on our website: mytaraflex.gerflor.com

#### **BE INSPIRED...**



# TO MAKE YOUR FLOOR UNIQUE

# 3D COURT DESIGNER

#### FOR A 3D VISUALISATION OF YOUR PROJECT



Choose your surface: monosport or multisports



Choose your colours



Visualise your sport hall

Available on: courtdesigner.gerflor.com



# **INTERIOR DESIGNER**

#### FOR A REALISTIC VIEW OF YOUR ENVIRONMMENT

- Download your picture and include the floor
- Or change the floor colours in selected pictures







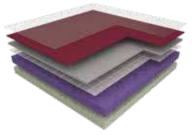
Available on: interiordesigner.gerflor.com



# **RACKET SPORTS**

- Racket sport floors should offer an excellent compromise between slide and grip for lateral moves, accelerations and changes of direction.
- Gerflor offers a complete range of solutions for racket sports with different types of installation methods (portable and permanent floors) to meet player's expectations and facilities needs.

#### TARAFLEX® TABLE TENNIS



#### PERMANENT SOLUTION

4.5 mm





#### ENGINEERED AND DEVELOPED IN PARTNERSHIP WITH THE INTERNATIONAL TABLE TENNIS FEDERATION (ITTE)

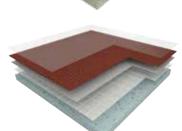




PERMANENT SOLUTION



SOLUTION 6109 Framboise



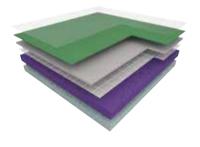
PORTABLE SOLUTION

THICKNESS





#### TARAFLEX® BADMINTON



#### PERMANENT SOLUTION

PORTABLE SOLUTION

THICKNESS

3.9 mm







#### THE ULTIMATE FLOOR FOR **BADMINTON MOVEMENTS**

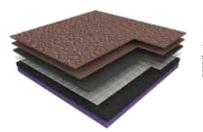






SOLUTION 6570 Mint Green

# TARAFLEX® TENNIS



#### PERMANENT SOLUTION





#### THE IDEAL AND SAFEST TENNIS SURFACE FOR ALL PLAYERS











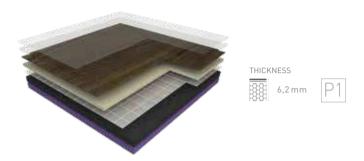
6118 Paris 6478 Purple

# **SPECIFIC APPLICATIONS**

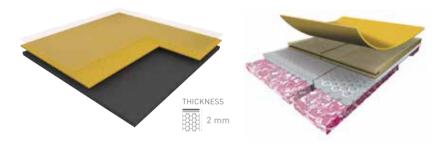
# **DISABILITY AND ROLLING SPORTS**

▶ Taraflex® Sports Floorings are recognised all over the world for all types of sports. Cushioned floors, with high IPI values offer the best solution for sitting sports.

#### TARAFLEX® MULTI-USE



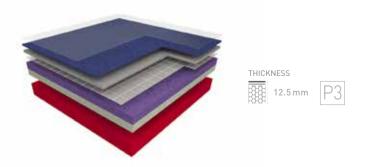
#### TARAFLEX® SURFACE



# THE IDEAL COMBINATION BETWEEN SPORTS PERFORMANCE AND RESISTANCE TO ROLLING LOADS



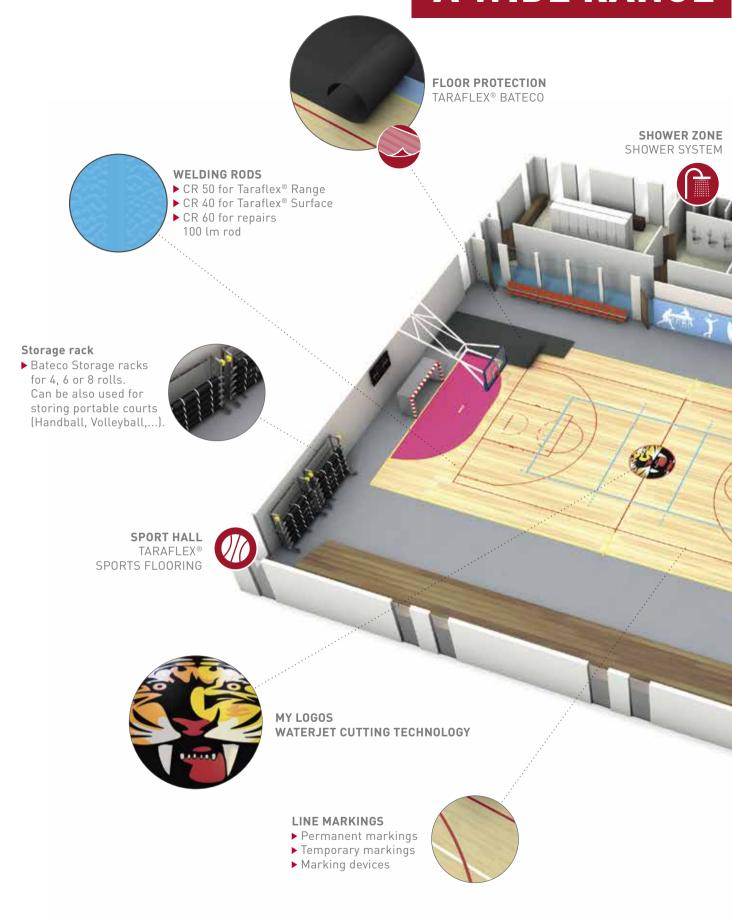
#### TARAFLEX® COMFORT



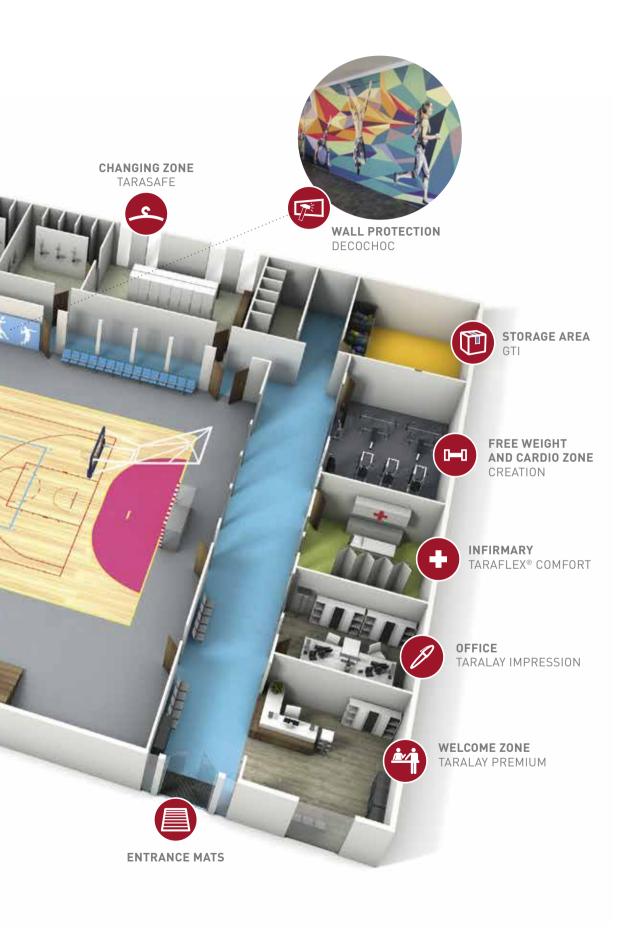
# THE PERFECT SOLUTION FOR SAFETY AND PROTECTION



# A WIDE RANGE



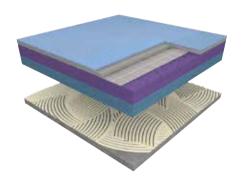
# **OF COMPLEMENTARY SOLUTIONS**



# AN EFFICIENT

## HOW TO CHOOSE YOUR INSTALLATION METHOD?

#### **GLUED INSTALLATION**

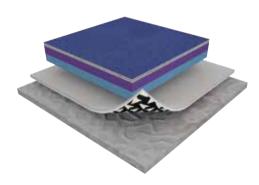


#### **FOR SOUND SURFACES**

► Cost-effective solution that has proven itself over 60 years

Installation criteria:					
Moisture	RH < 80% (BS 8203) or < 4.5% humidity (CCM)				
Flatness	< 6mm / 3m				
Surface	Hydraulic concrete				

#### **INSTALLATION ON ISOLSPORT**

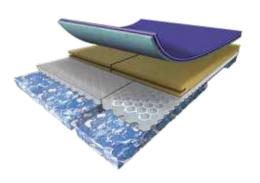


#### **FOR DAMP SURFACES**

- ► Free-Floating
- ▶ Minimises risks from rising dampness

Installation criteria:					
Moisture	RH < 92% (BS 8203) or < 7% humidity (CCM)				
Flatness	< 6mm / 3m				
Surface	Hydraulic concrete / Porous subfloor				

#### **INSTALLATION OVER UNDER-CARRIAGE SYSTEM**



#### FOR OPTIMISED SPORT PERFORMANCES

- ► Installation on all types of under-carriage systems, even those **exposed** to rising dampness.
- ▶ Better flatness tolerances for wooden sub-assemblies are better than those under the EN 14904 Standard.

# **INSTALLATION AND MAINTENANCE**

## HOW TO TAKE CARE OF YOUR FLOOR?

	MAINTENANCE TYPE	MAINTENANCE RATING	TOOLS TO BE USED	CLEANING <b>Products</b>	MAINTENANCE Guidelines			
INITIAL	MECHANICAL CLEANING	-	or or if dirty	Neutral detergent or alkaline detergent if dirty (ex: Dynathech Trophy*)	Rotary cleaning machine or scrubbed machine equipped with water vacuum			
DAILY MAINTENANCE	MANUAL CLEANING	1x per day		-	Broom without water			
WEEKLY MAINTENANCE	MECHANICAL CLEANING IF MANUAL DAILY CLEANING	2x/week (1x for small halls)	or or light green	Neutral detergent or alkaline detergent if dirty (ex: Dynathech Trophy*)	Wet broom     Mechanical cleaning			
DEEP-DOWN CLEANING	MECHANICAL CLEANING	Every school breaks (or every 2 months)	or or light green	Special detergent for scuffing and resin (ex: Traciflex*)	Pour detergent over shoe scuffings / resin marks Wait 10 minutes Clean mechanically			
* Product distributed by Gerflor								



# **ALL YOU NEED**

Description	Standard	Requirement	Units	Taraflex <sup>®</sup> Surface	Taraflex <sup>®</sup> Surface Mask	Taraflex <sup>®</sup> Multi-Use	Taraflex <sup>®</sup> Evolution	Taraflex <sup>®</sup> Performance	Taraflex <sup>®</sup> Comfort
Dry-Tex™ System	-	-	-	-	-	-	D	D	-
Product Description								1	
Surface treatment	-	-	-	Triple-Action Protecsol®	Triple-Action Protecsol®	Triple-Action Protecsol®	Triple-Action Protecsol®	Triple-Action Protecsol®	Triple-Action Protecsol®
Surface complex	-	-	-	D-Max™	100% PVC	D-Max <sup>™</sup>	D-Max™	D-Max™	D-Max™
Foam	-	-	-	-	-	CXP-HD+™	CXP-HD™	CXP-HD™	CXP-HD™
Thickness	EN ISO 24346	-	mm	2	2	6.2	7.5	9	12.5
Weight	EN ISO 23997	-	kg/m²	2.9	2.58	4.2	4.7	5.4	5.1
Length*	EN ISO 24341	-	lm	26.5 Max	20 Max	26.5 Max	26.5 Max	26.5 Max	26.5 Max
Width	EN ISO 24341	-	lm	1.5	2	1.5	1.5	1.5	-
Sport Properties									
Shock absorption	EN 14808	≥ 25	%	-	-	P1	P1	P2	P3
Impact Protection Index (IPI)	AC-P90-205	-	%	-	-	52	76	82	89
Vertical deformation	EN 14809	≤ 3.5	mm	€2	€2	€2	€2	€3	≤ 3.5
Sliding coefficient	EN 13036-4	80 to 110	-	80 to 110	80 to 110	80 to 110	80 to 110	80 to 110	80 to 110
Ball bounce	EN 12235	≥ 90	%	≥ 90	≥ 90	≥ 90	≥ 90	≥ 90	≥ 90
Ball speed	ITF	-	-	-	-	-	-	-	-
<b>Technical Characteristics</b>									
Abrasion resistance	EN ISO 5470-1	≤ 1000	mg	≤ 350	≤ 350	≤ 350	≤ 350	≤ 350	≤ 350
Impact resistance	EN 1517	≥8	N/m	≥8	≥8	>8	>8	≥8	≥8
Indentation resistance	EN 1516	≤ 0.5	mm	≤ 0.5	< 0.5	< 0.5	≤ 0.5	≤ 0.5	≤ 0.5
Classification									
Fire	EN 13501-1	-	-	B <sub>fl</sub> -s1	B <sub>fl</sub> -s1	C <sub>fl</sub> -s1	C <sub>fl</sub> -s1	C <sub>fl</sub> -s1	C <sub>fl</sub> -s1
Anti-bacterial activity [E. coli - S. aureus - MRSA] [1]	ISO 22196	-	-			> 99%	inhibits growth		
CE Marking									
C€	EN 14 904	-	-	Fire Sliding Coefficient Abrasion Resistance Rolling load Resistance Rolling load Resistance  Fire Shock Absorption Sliding Coefficient Abrasion Resistance Rolling load Resistance					

The proposed specifications fall within the tolerance limits usually accepted in this sector whilst still complying with standards.

 $<sup>^{</sup> ext{(1)}}$ The implementation of an effective cleaning method is the best defence against infection

<sup>\*</sup> For different roll lengths please contact us

# **TO KNOW**

		Taraflex <sup>®</sup> Badminton			Taraflex® Table Tennis	Taraflex <sup>®</sup>	Taraflex <sup>®</sup>		
Taraflex <sup>®</sup> Tennis	Portable	4.5	7.5	Portable	4.5	6.2	Bateco	Isolsport	
-	-	-	D	-	-	-	-	- 1	
-	Triple-Action Protecsol®	PUR Protect®	Triple-Action Protecsol®	Triple-Action Protecsol®	PUR Protect®	Triple-Action Protecsol®	-	-	
D-Max™	100% Pur PVC	100% Pur PVC	D-Max™	100% Pur PVC	100% Pur PVC	D-Max™	-	-	
CXP-HD + ™	-	-	CXP-HD™	-	-	CXP-HD+™	-	-	
6.2	3.9	4.5	7 .5	3.7	4.5	6.2	1.5	1.65	
3.8	1.95	2.6	4.7	1.9	2.6	4.2	2.05	1.35	
24 STD	16 STD	20.5 STD	26.5 Max	16 STD	20.5 STD	20.5 STD	30 Max	45 Max	
1.5	3 x 2.7	1.5	1.5	1.5	1.5	1.5	1.5	2	
P1	-	-	P1	-	-	P1	-	-	
52	-	-	76	-	-	52	-	-	
€ 2	≤ 2	≤ 2	≤ 2	≤ 2	≤ 2	≤2	-	-	
80 to 110	80 to 110	80 to 110	80 to 110	80 to 110	80 to 110	80 to 110	-	-	
≥ 90	-	≥ 90	-	-	≥ 90	≥ 90	-	-	
Class 5 (Fast)	-	-	-	-	-	-	-	-	
≤ 350	≤ 350	≤ 350	≤ 350	≤ 350	≤ 350	≤ 350	≤ 300	-	
≥ 8	-	-	>8	-	-	>8	-	-	
≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	
C <sub>fl</sub> -s1	B <sub>fl</sub> -s1	C <sub>fl</sub> -s1	C <sub>fl</sub> -s1	B <sub>fl</sub> -s1	C <sub>fl</sub> -s1	C <sub>fl</sub> -s1	B <sub>fl</sub> -s1	C <sub>fl</sub> -s1	
> 99% inhibits growth		-	> 99% inhibits growth		-	> 99% inhibits growth	-	-	
Fire Shock Absorption Sliding Coefficient Abrasion Resistance Rolling load Resistance	Fire	Fire Sliding Coefficient Abrasion Resistance Rolling load Resistance	Fire Shock Absorption Sliding Coefficient Abrasion Resistance Rolling load Resistance	Fire Sliding Coefficient Abrasion Resistance	Fire Sliding Coefficient Abrasion Resistance Rolling load Resistance	Fire Shock Absorption Sliding Coefficient Abrasion Resistance Rolling load Resistance	Fire	Fire	

ASIA: Gerflor Asia

Tel: +86 21 6357 8818

AUSTRALIA/NEW ZEALAND: Gerflor Australasia Pty. Ltd Australia Tel: 1 800 060 785 - New Zealand Tel: 0 800 630 119

AUSTRIA/SWITZERLAND: Gerflor GmbH

Tel: +43 (0)72 29/70 800-0

BELGIUM/LUXEMBURG: Gerflor Benelux

Tel: +32 (0)3 766 42 82

CANADA: Gerflor Canada

Tel: 438 333 0752

CHINA: Gerflor Floorings (China) co.Ltd

Tel: +86 21 6357 8818

FRANCE: Gerflor

Service Express:

N°Azur : 0 810 569 569

GERMANY: Gerflor Mipolam GmbH

Tel: +49 (0)22 41-25 30-0

Kunden-Service

Tel: +49 (0)22 41-25 30 131

SAT Service und Anwendungstechnik

tel: +49 (0)22 41-25 30 555

IRELAND: Gerflor Ltd

Tel: +353 (0) 42 966 1431

ITALY: Gerflor S.p.A.

Tel: +39 02 90 40 10

LATIN AMERICA (Brazil): Gerflor América Latina

Tel: +55 11 38 48 20 20

MIDDLE EAST: Gerflor Middle East

Tel: +966 13 847 1779

**NETHERLANDS:** Gerflor Benelux

Tel: +31 (0)40 266 17 00

OTHER COUNTRIES: Gerflor International

Tel: +33 (0)4 74 05 40 00

**POLAND:** Gerflor Polska Sp z o.o

Tel: + 48 61 823 34 01

PORTUGAL: Gerflor Iberia. SA

Tel: +351 21 843 95 49

RUSSIA: Gerflor Moscow Office

Tel: + 7 499 783 63 69 / 81

SCANDINAVIA: Boide Gerflor Scandinavia a.s.

Tel: + 47 64 95 60 70

SPAIN: Gerflor Iberia, SA

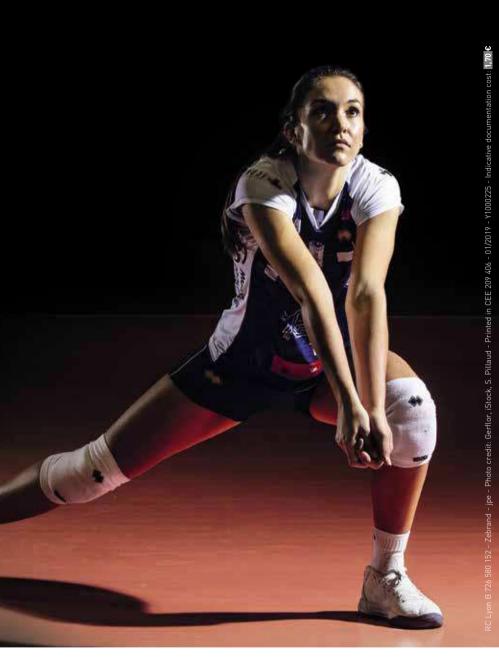
Tel: +34 91 653 50 11

UNITED KINGDOM: Gerflor Ltd

Tel: +44 (0) 1926 622 600

USA: Gerflor USA

Tel: 877 437 3567





Where Champions Play \*\*







