

GRABO

GRABO Commercial

VINYL FLOORINGS AND WALL COVERINGS

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COMMERCIAL

GRABO

GRABO Commercial

VINYL FLOORINGS AND WALL COVERINGS

Welcome in our Commercial catalogue, your guide to our products and services.

You can find all about our heterogeneous and homogeneous floor and wall covering products recommended for commercial and light-commercial applications.

WHY GRABO?

> TRADITION

Graboplast Ltd is one of the biggest independent floor covering manufacturer company with over 115 years of experience.

> FLEXIBILITY

The key factor of this long-term success is the ability to develop the products that would meet the always changing market requirements.

> INNOVATION

Our production is based exclusively on our own technologies and unique production processes developed and improved continuously by our R&D.

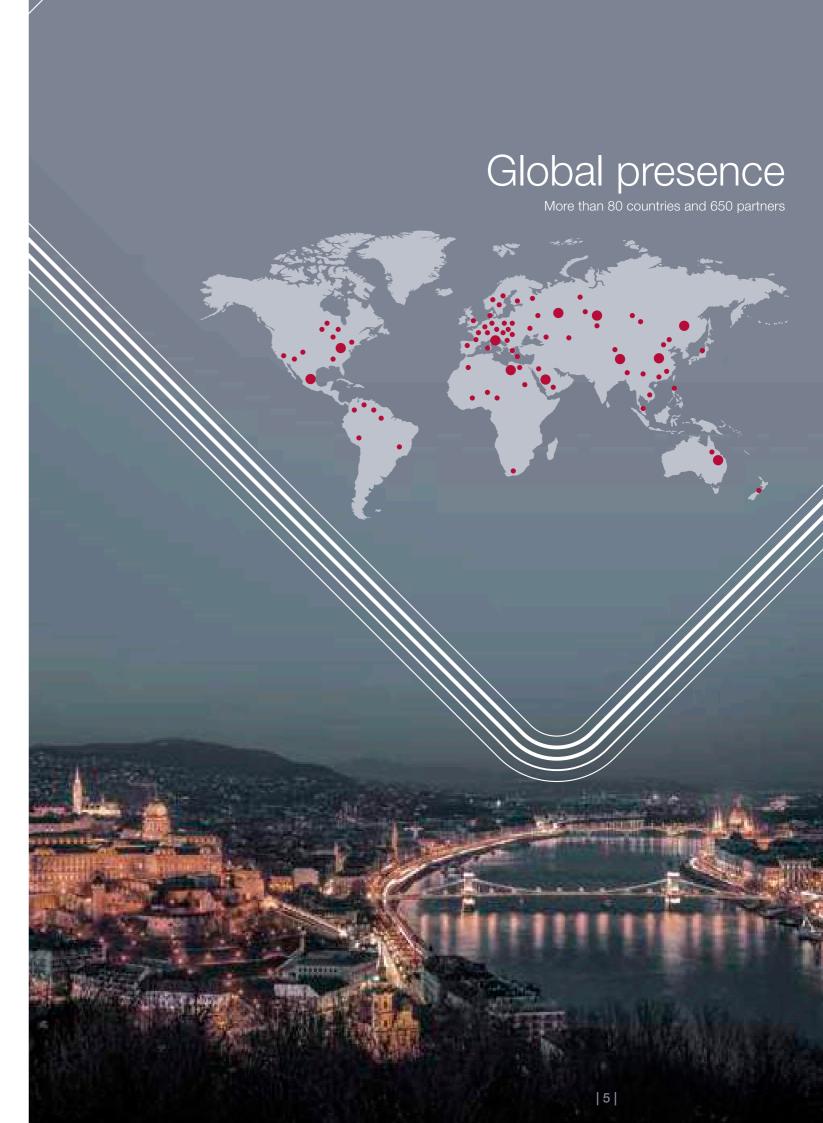
> QUALITY

The life-long commitment to quality is the basis of stable and reliable business partnership we offer to our clients all around

maintain a healthy environment for both its employees and







GRABO

Environmental attributes of Grabo vinyl floorings



PHTHALATE FREE TECHNOLOGY

Grabo floorings contain biologically inert plasticizer which can be used in sensitive areas as well, such as medical devices and children toys. Thanks to the eco-friendly formulations our products have low volatile organic compounds (low VOC), therefore they do not adversely affect the indoor air quality.



100% RECYCLABLE

Beside the carefully selected raw materials and the environment-friendly manufacturing solutions we pay attention to the fact that our products do not impact the environment at the end of their life-cycle either. Accordingly our floorings are 100% recyclable.



NO WASTE PRODUCT

It is important to know that we not only declare that our products can be 100% recycled but we ourselves can convert the production waste and post-consumer waste into valuable raw materials which are incorporated into our floor production.



NO HARMFUL MATERIALS

Grabo floorings are metal and solvent free resulting in reduced global environmental pollution.



NO WAX

Grabo floorings have reduced cleaning requirements. Environmental impact is lessened by: no energy needs for waxing, reduced energy needs for cleaning, reduced cleaning agent use, reduced water use, and reduced wastewater generation.



What is...



X-PUR

Grabo's new surface treatment combines state-of-the-art technology with a customized, special lacquer formula. This results in excellent chemical resistance and very easy cleaning of our commercial floors, or outstanding scuff resistance of our sports floor products.



SILVER KNIGHT

Grabo Silver Knight eliminates harmful bacteria without the use of chemicals It has a self-disinfecting surface reached by a unique double-defense-line.



IGUARD PUR SURFACE

UV cured, cross linked Polyurethane reinforcement which ensures easy cleaning and durability. No additional surface treatment needed for the whole lifetime of the product.



TECH SURFACE

Extreme durability due to PUR and micronized Al₂O₃ particles TECH Surface is a revolutionary new technology which makes the surface not only extremely hard and wear resistant but flexible so the installation can be carried out easily and quickly. The benefits of TECH Surface technology are the excellent stain and chemical resistance, the abrasion resistance and the easy maintenance



EASY CARE

Easy Care PUR makes the product easy to clean, whilst at the same time ensuring the safety properties and other technical performance benefits remain for a very long time.



CLP SYSTEM

CLP is a complex system built up of PVC and cross linked polymer. Its essentiality is, on one hand - against other technical solutions - that CLP ensures throghout the intensive usage the constant parameters not only on the surface, but in the cross section of the wear layer: the durability of the product increases, which involves that the degree of wear and tear decreases. On the other hand due to the high density of the cross links, CLP diminishes the adhesion of the contamination on the surface, substantially improving the cleanibility of the flooring.

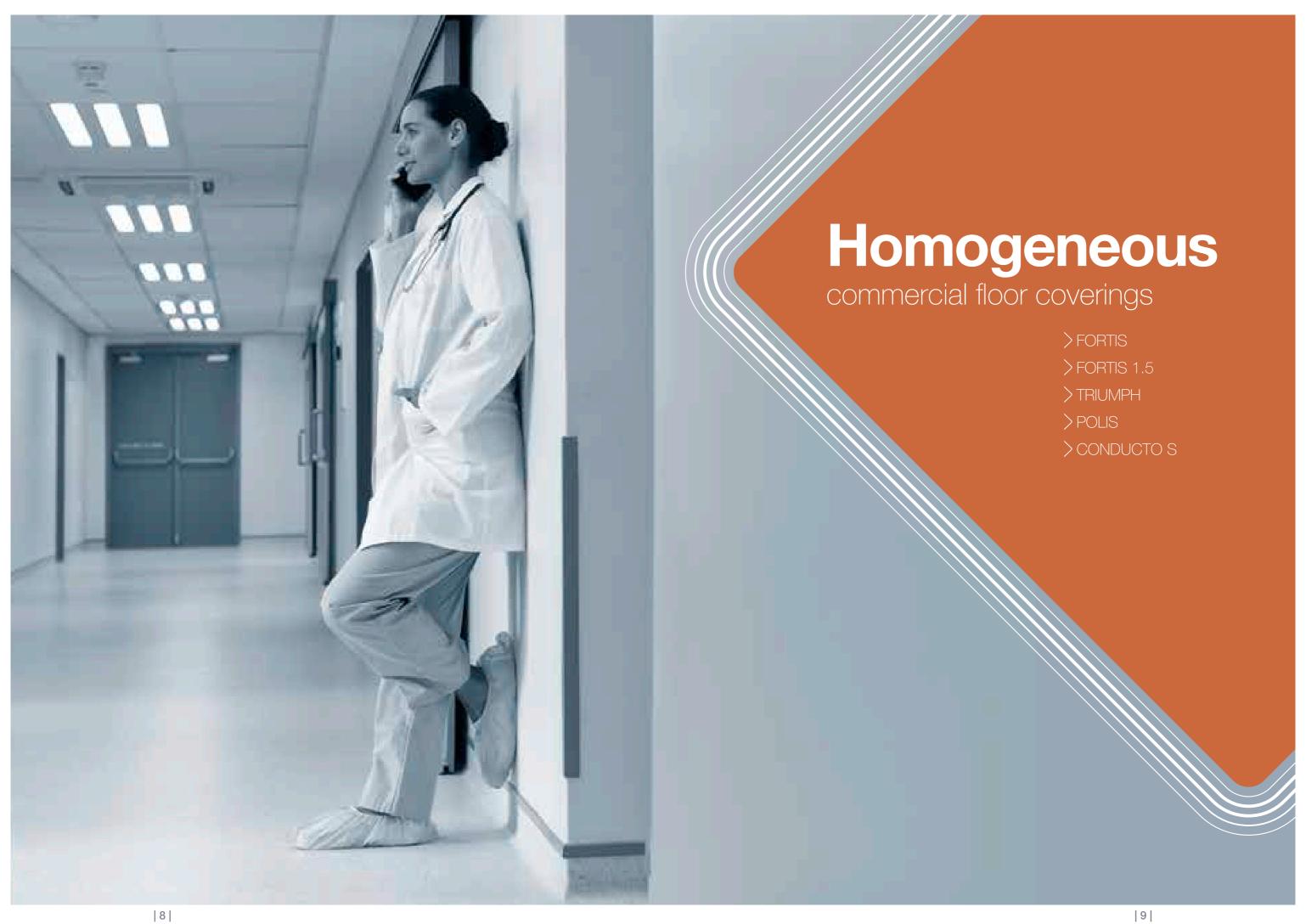


GRABOSAN

No surface is more at risk of contamination than the floor. In healthcare one of the most important steps in reducing the spread of infectious diseases is the cleaning and sanitizing of surfaces. Routine cleaning with detergent and water is useful for removing visible dirt and germs, but floor coverings require an additional performance to reduce the number of germs.

Therefore Grabo invented graboSAN, the anti-microbe additive contained surface treatment against mold, fungi, yeast, algae and bacteria. The result of the test method given in the International Standard ISO 846:1997 certify that no significant microbe growth could be observed on the graboSAN surface treated floors. The tests have been carried out with the Pseudomonas aeruginosa bacterium, which is one of the most common pathogens involved in hospital infections causing pneumonia, and with Aspergillius niger fungus, which causes a disease called black mold on certain fruits and vegetables.

|7|



GRABO Fortis

HIGH PERFORMANCE, NON-DIRECTIONAL HOMOGENEOUS FLOOR COVERING

PERFORMANCE, FEATURES & BENEFITS

Excellent abrasion resistance | Unique non-directional design Low residual indentation | Easy cleaning and maintenance thanks to iGuard PUR Surface | Anti-bacterial | Antistatic

BEST DIMENSIONAL STABILITY ON THE MARKET

RECOMMENDED USAGE

- > Healthcare
- > Education
- > Offices
- > Other public areas

mm

TOTAL THICKNESS



TOTAL WEIGHT



DIMENSIONAL STABILITY



CONSTRUCTION

iGuard PUR Surface

Non-directional homogeneous layer





SPECIFICATIONS

DESCRIPTION Construction

Binder content

Hygenie

Warranty

Seaming method

EN ISO 24346	2.0 mm
EN ISO 24340	2.0 mm
EN ISO 24341	2 m
EN ISO 24341	20 lm
EN ISO 23997	2,8 kg/m ²
EN 685	class: 34/43
EN 660-1	Т
EN ISO 24343	max. 0.1 mm
EN ISO 23999	max. 0.2 %
EN ISO 23999	average 0.1 %
EN 13501-1	class: Bfl-s1
EN 13893	class: DS
EN 1815	< 2 kV
EN ISO 26987	\checkmark
EN 20105 B02	grade 6
EN ISO 4918	\checkmark
	EN ISO 24340 EN ISO 24341 EN ISO 24341 EN ISO 23997 EN 685 EN 660-1 EN ISO 23999 EN ISO 23999 EN 13501-1 EN 13893 EN 1815 EN ISO 26987 EN ISO 26987

| EN ISO 10581

homogeneous

| bacterial resistant

10 year

hot or cold welding

| Type I.

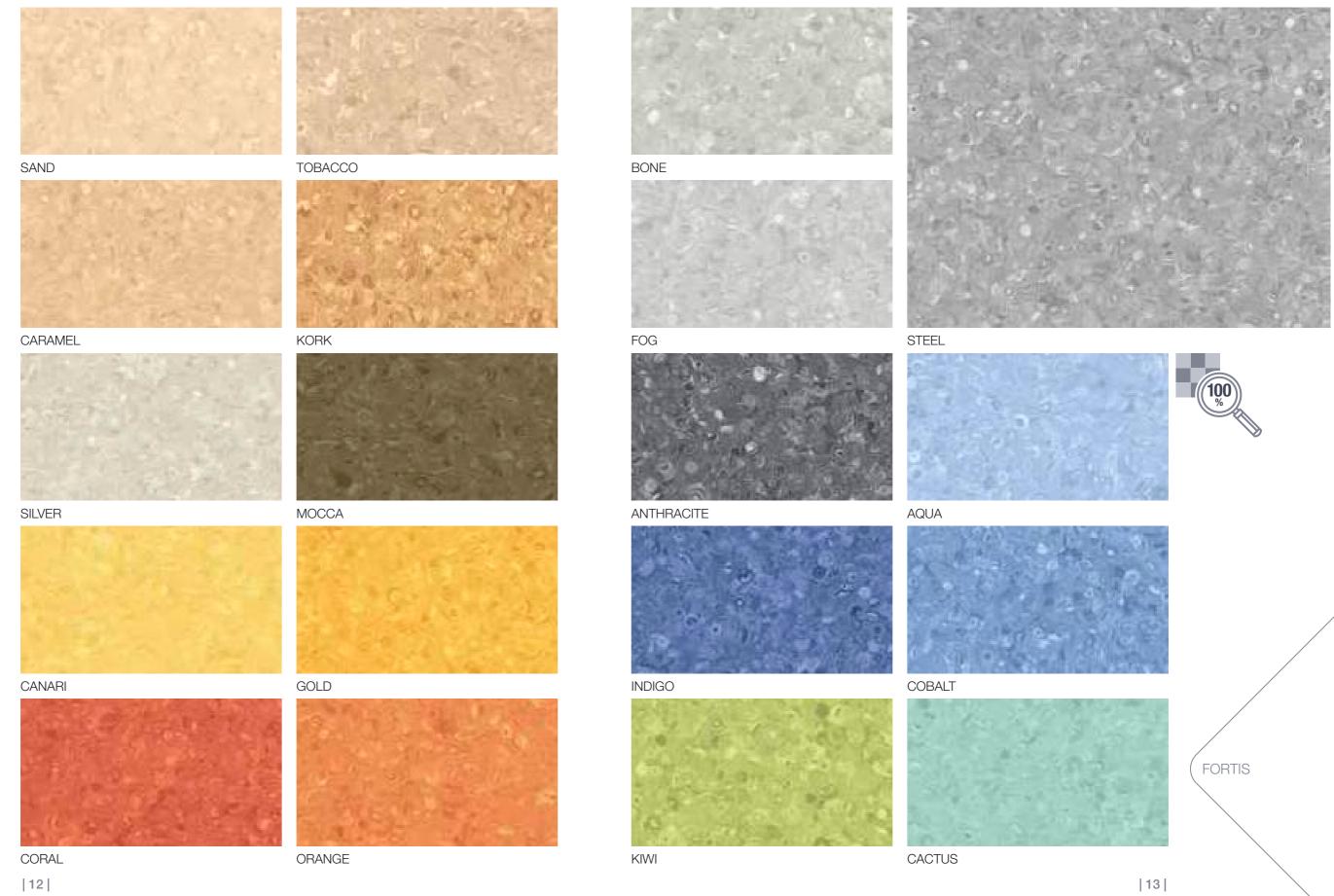




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Fortis





GRABO Fortis 1.5

COST-EFFICIENT, NON-DIRECTIONAL HOMOGENEOUS FLOOR COVERING

PERFORMANCE, FEATURES & BENEFITS

Good value for money | Unique non-directional design Low residual indentation | Easy cleaning and maintenance thanks to iGuard PUR Surface | Anti-bacterial | Antistatic



RECOMMENDED USAGE

- > Education
- > Healthcare
- > Offices
- > Other public areas

mm

TOTAL THICKNESS



TOTAL WEIGHT



DIMENSIONAL STABILITY



CONSTRUCTION

iGuard PUR Surface

Non-directional homogeneous layer





SPECIFICATIONS

DESCRIPTION

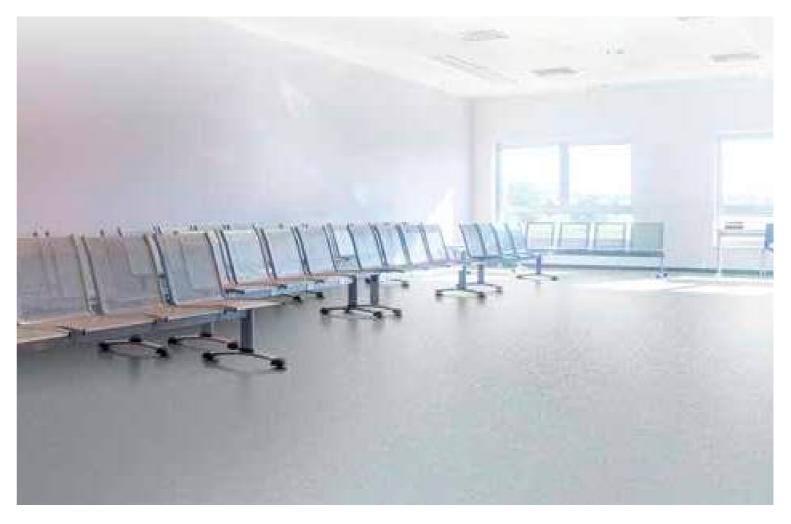
Construction		homogeneous	
Binder content	EN ISO 10581	Type I.	
Total thickness	EN ISO 24346	2.0 mm	
Wear layer thickness	EN ISO 24340	2.0 mm	
Width of roll	EN ISO 24341	2 m	
Length of roll	EN ISO 24341	20 lm	Ī
Total weight	EN ISO 23997	2,1 kg/m ²	

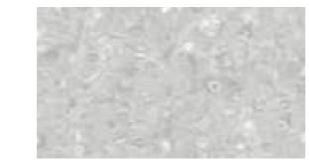
CLASSIFICATION

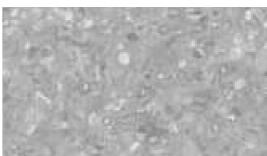
European classification	EN 685	class: 32/41	

European classification	EN 685	class: 32/41
PERFORMANCE		
Abrasion group	EN 660-1	Т
Residual indention	EN ISO 24343	max. 0.1 mm
Dimensional stability	EN ISO 23999	max. 0.2 %
	EN ISO 23999	average 0.1 %
Fire resistance	EN 13501-1	class: Bfl-s1
Slip resistance	EN 13893	class: DS
Electrical resistance	EN 1815	< 2 kV
Chemical resistance	EN ISO 26987	\checkmark
Light fastness	EN 20105 B02	grade 6
Castor chair resistance	EN ISO 4918	\checkmark
Hygenie		bacterial resistant
Seaming method		hot or cold welding
Warranty		7 year











STEEL



Fortis 1.5 is available in all additional Fortis color with the minimum quantity of 4000 sqm.

FORTIS 1.5

SILVER

|15| |14|

GRABO Triumph

HIGHLY DURABLE HOMOGENEOUS MULTIPURPOSE FLOORING

PERFORMANCE, FEATURES & BENEFITS

Non-directional design | Ease of cleaning due to iGUARD Surface treatment | Good chemical protection | Bacterial resistant surface Flexible structure for easy installation

DIMENSIONAL **STABILITY** ON THE MARKET

RECOMMENDED USAGE

- > Healthcare
- > Education
- > Offices
- > Other public areas

TOTAL THICKNESS

mm



TOTAL WEIGHT



DIMENSIONAL STABILITY



CLASSIFICATION

iGuard PUR Surface

CONSTRUCTION

Non-directional homogeneous layer



SPECIFICATIONS

DESCRIPTION

Warranty



European classification	EN 685	class: 34/43	

PERFORMANCE		
Abrasion group	EN 660-1	T
Residual indention	EN ISO 24343	max. 0.1 mm
Dimensional stability	EN ISO 23999	max. 0.2 %
	EN ISO 23999	average 0.1 %
Fire resistance	EN 13501-1	class: Bfl-s1
Slip resistance	EN 13893	class: DS
Electrical resistance	EN 1815	< 2 kV
Chemical resistance	EN ISO 26987	\checkmark
Light fastness	EN 20105 B02	grade 6
Thermal resistance	EN 12524	0.012 m2K/W
Castor chair resistance	EN ISO 4918	✓
Content of PCP	EN 12673	Does not contain
Formaldehide emission	ENV 717-1	E1 (no emission)
Hygenie		bacterial resistant
Seaming method		heat or cold weld

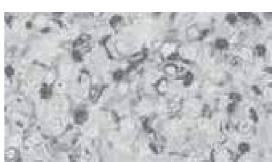
| 10 year



















AZURE



OPAL

IVORY

HONEY





TRIUMPH

VANILLA

| 17 | |16|

GRABO Polis

COST EFFECTIVE MULTIPURPOSE HOMOGENEOUS FLOORING

PERFORMANCE, FEATURES & BENEFITS

Non-directional design | Ease of cleaning due to iGUARD Surface treatment | Good chemical protection | Bacterial resistant surface Flexible structure for easy installation



RECOMMENDED USAGE

- > Healthcare
- > Education
- > Offices
- > Other public areas



TOTAL THICKNESS

mm



TOTAL WEIGHT



DIMENSIONAL STABILITY



iGuard

CONSTRUCTION

iGuard PUR Surface

homogeneous layer

Non-directional

SPECIFICATIONS



Width of roll	EN ISO 24341	2 m
Length of roll	EN ISO 24341	20 lm
Total weight	EN ISO 23997	2,8 kg/m ²

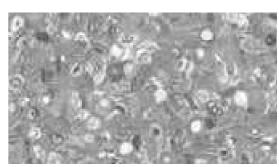
CLASSIFICATION		
European classification	EN 685	class: 34/43
PERFORMANCE		
Residual indention	EN ISO 24343	max. 0.1 mm
Dimensional stability	EN ISO 23999	max. 0.2 %
	EN ISO 23999	average. 0.1 %
Fire resistance	EN 13501-1	class: Bfl-s1
Slip resistance	EN 13893	class: DS
Electrical resistance	EN 1815	< 2 kV
Chemical resistance	EN ISO 26987	✓
Light fastness	EN 20105 B02	grade 6
Thermal resistance	EN 12524	0.012 m2K/W
Castor chair resistance	EN ISO 4918	✓
Content of PCP	EN 12673	Does not contain
Formaldehide emission	ENV 717-1	E1 (no emission)
Hygenie		bacterial resistant

heat or cold weld

10 year







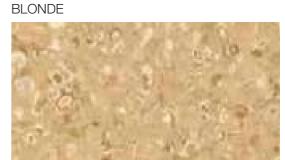


ROALA



CREME





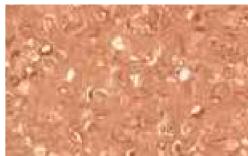
SHELL



CAMEL

CLAY

SKY



EMERALD





POLIS

WATER

|18|

Seaming method

Warranty

GRABO

Conducto S

HIGH PERFORMANCE, HOMOGENEOUS FLOOR COVERING WITH ELECTROSTATIC CONDUCTIVE PROPERTIES

PERFORMANCE, FEATURES & BENEFITS

Guarantees the lasting elimination of electrostatic charges, Due to the highest (group T) wear resistance, Grabo Conducto is a longterm solution. Hinder the aggregation of dust.

CONSTRUCTION

Wear layer thickness

CLASSIFICATION

PERFORMANCE

Residual indention

Dimensional stability

Electrical resistance

Chemical resistance

Castor chair resistance

Abrasion group

Fire resistance

Slip resistance

Light fastness

Warranty

Width of roll

Length of roll

Total weight

> Operating rooms in hospitals

RECOMMENDED

- > Laboratories

USAGE

- > Computer rooms
- > Electronics manufactring



TOTAL THICKNESS



TOTAL WEIGHT

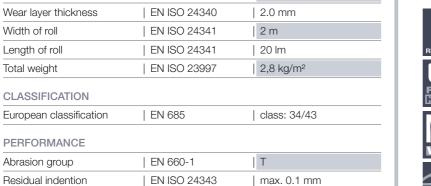


WIDTH OF ROLLS



Non-directional homogeneous layer > X-ray departements





≤ 0.4 %

| class: Bfl-s1

class: DS

| R≤1×10⁶ Ω **1**

< 2 kV

grade 6

10 year

does not favour growth

| EN ISO 23999

| EN 13501-1

| EN 13893

EN 1815

| EN 1081

| EN ISO 26987

| EN 20105 B02

| EN ISO 4918

Bacteria and fungi resistance | EN ISO 846:1999

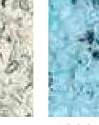






SAND











20 | 21 |



| 22 |

GRABO

Silver Knight

THE MOST HYGENICAL VINYL SHEET FLOORING

PERFORMANCE, FEATURES & BENEFITS

Grabo Silver Knight eliminates harmful bacteria without the use of chemicals. Grabo Silver Knight has a self-disinfecting surface reached by a unique double-defense-line.

RECOMMENDED USAGE

- > Healthcare
- > Education
- Hospitality
- > Offices
- > Retail

DIAMOND	ACOUSTIC
TECH	7





TOTAL THICKNESS





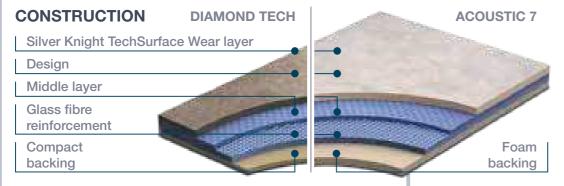
TOTAL WEIGHT



WIDTH OF ROLLS



EUROPEAN CLASSIFICATION



DESCRIPTION		Silver Knight Diamond Tech	Silver Knight Acoustic 7
Construction		compact heterogeneous	heterogeneous
Total thickness	EN ISO 24346	2,0 mm	3,2 mm
Wear layer thickness	EN ISO 24340	0,7 mm	0,7 mm
Width of roll	EN ISO 24341	2 m	2 m
Length of roll	EN ISO 24341	20 lm	20 lm
Total weight	EN ISO 23997	2,8 kg/m²	2,6 kg/m²
CLASSIFICATION			
European classification	EN 685	class: 34/43	class: 34/42
PERFORMANCE			
Abrasion group	EN 660-1	T	T
Residual indention	EN ISO 24343	max. 0,1 mm	max. 0,2 mm
Dimensional stability	EN ISO 23999	max. 0,2 %	max. 0,2 %
Fire resistance	EN 13501-1	class: Bfl-s1	class: Bfl-s1
	ASTM E 648/ 662	class: Class1	-
	Gost 30402-94	G1	G1
Impact sound reduction	EN ISO 717-2	-	$\mid \Delta L_w = 19 \text{ dB}$
Slip resistance	DIN 51130	R9	R9
Electrical resistance	EN 1815	< 2 kV	< 2 kV
	EN 1081	$ \le 10^9 \Omega$	$ \leq 10^9 \Omega$
Chemical resistance	EN ISO 26987	\checkmark	 ✓
	ASTM F925-02	✓	√
Bacterial resistance	EN ISO846:1999	✓	√
Antimicrobal activity	ISO 27447	>99 %	>99 %
Light fastness	EN 20105 B02	grade 6	grade 6
Castor chair resistance	EN ISO 4918	\checkmark	 ✓
Surface treatment		TECHSurface	TECHSurface
Anti bacterial and fungicid	treatment	Silver Knight	Silver Knight
Seaming method		hot or cold wel	ding
Warranty		15 year	15 year



1st line of defense

NANOSILVER – BACTERIA IS DESTROYED WITHOUT THE USE OF CHEMICALS

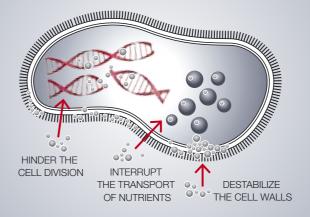
The disinfecting properties of silver have been known for more then 3000 years. The silver destroys or inactivates microbes such as bacteria, fungi and viruses. This effect of silver results from the ongoing slow diffusion of silver ions.

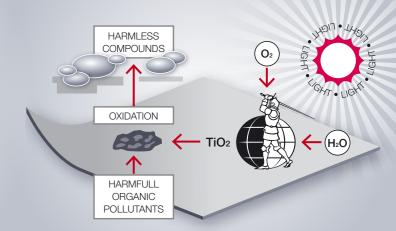
2nd line of defense

NANOTiO2 -

HELPS TO DECOMPOSE GERMS

Titanium dioxide is a photocatalyst, operating similar to chlorophyllian photosynthesis which helps transforming harmful substances into harmless compounds through a chemical oxidation process without being consumed.





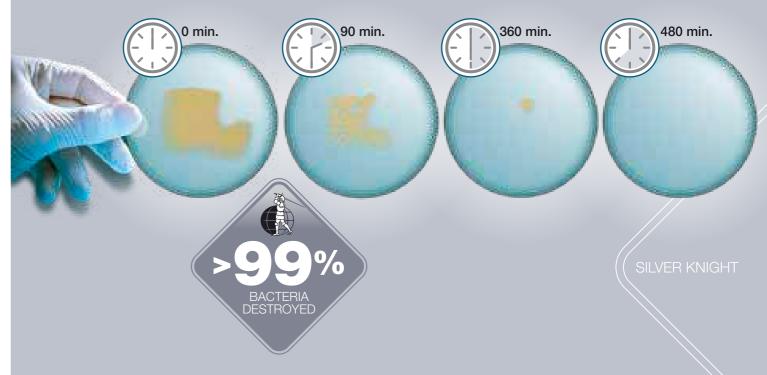
Grabo Silver Knight is a low-maintenance and trouble-free flooring

MORE EFFECTIVE INFECTION CONTROL WITH EASY CLEANING

Due to the photocatalytic reaction, the surface energy is increased so dirt adheres less and is easier to remove resulting in use of less cleaning products. Grabo Silver Knight is active round the clock, 24/7, and helps to reduce microbial contamination in between cleanings.

IMPROVE INDOOR AIR QUALITY

Through photocatalysis odors are decomposed into harmless constituent parts. It works in the same way for pollutants as well, such as nicotine or formaldehyde and unpleasant smells e.g. ammonia or fish odor. Grabo Silver Knight is the ultimate, environmentally sound choice for any facilities.



| 24 |

SILVER KNIGHT

ACOUSTIC 7 DIAMOND TECH

SILVER KNIGHT

DIAMOND TECH











386-857













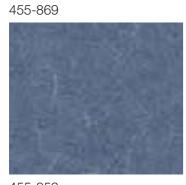


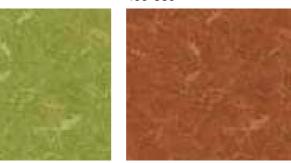








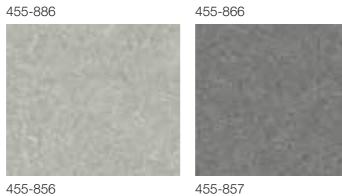


















| 26 |

386-869

| 27 |

SILVER KNIGHT

DIAMOND TECH

SILVER KNIGHT

Natural

DIAMOND TECH

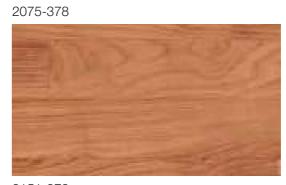








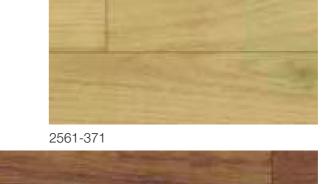


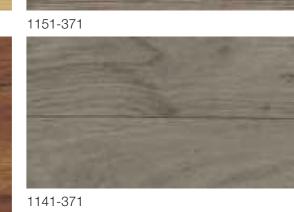














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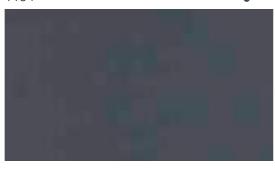






1001





1895 1343

| 28 | | 29 |

GRABO

Acoustic 43

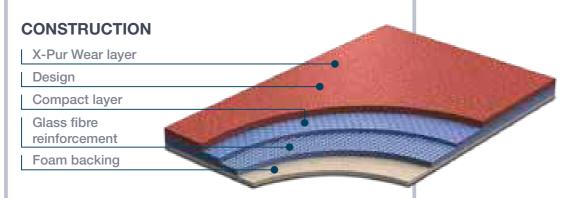
PREMIUM ACOUSTIC FLOOR COVERING

PERFORMANCE, FEATURES & BENEFITS

Excellent acoustic properties (≥19 dB) | Excellent foot comfort Dimensionally stable, Increased lifespan | Antistatic Anti-bacterial | 10 year warranty

RECOMMENDED USAGE

- Library
- > Education
- > Healthcare
- > Corporate
- > Retail
- > Anywhere acoustical property is needed







TOTAL WEIGHT



WIDTH OF ROLLS



SPECIFICATIONS

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$\overline{}$		0				_	14

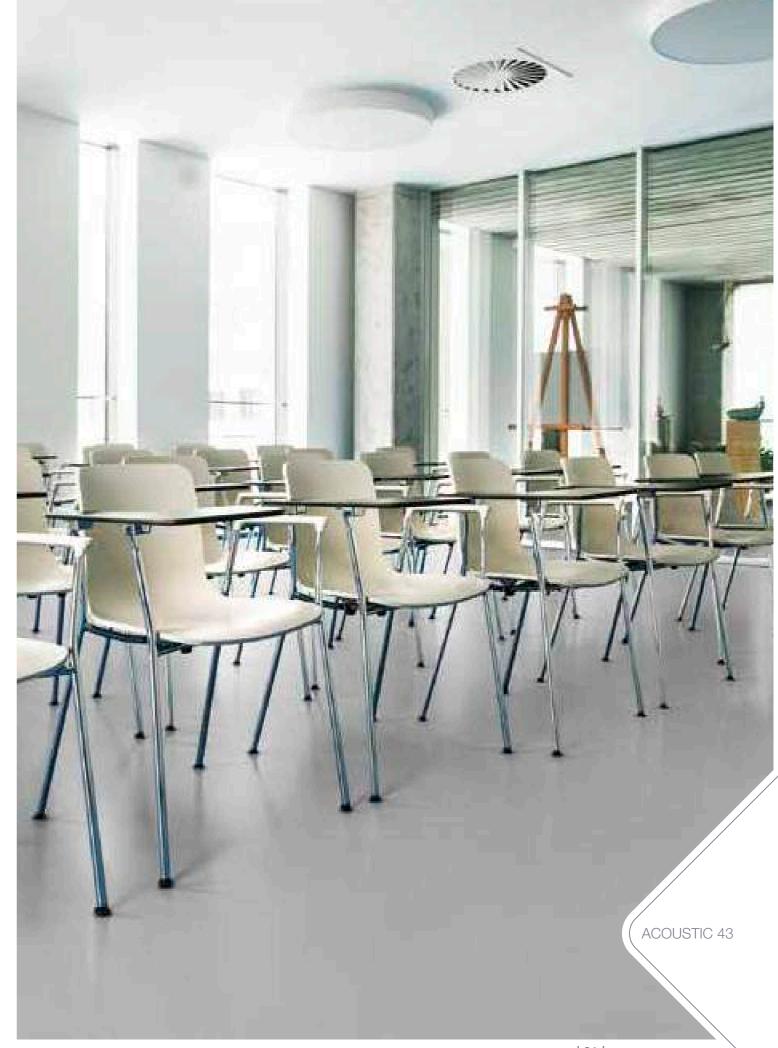
Construction		heterogeneous
Total thickness	EN ISO 24346	3,2 mm
Wear layer thickness	EN ISO 24340	0,7 mm
Width of roll	EN ISO 24341	2 m
Length of roll	EN ISO 24341	25 lm
Total weight	EN ISO 23997	2,6 kg/m²
CLASSIFICATION		
European classification	EN 685	class: 34/42

European classification	
PERFORMANCE	

PERFORMANCE		
Abrasion group	EN 660-1	T
Residual indention	EN ISO 24343	max. 0,2 mm
Dimensional stability	EN ISO 23999	max. 0,2 %
Fire resistance	EN 13501-1	class: Bfl-s1
	BS 476	class: Class1
	Gost 30402-94	class: G1
Impact sound reduction	EN ISO 717-2	$\Delta L_w=19 \text{ dB}$
Slip resistance	DIN 51130	R10
Electrical resistance	EN 1815	< 2 kV
	EN 1081	≤ 10 ⁹ Ω
Chemical resistance	EN ISO 26987	✓
Bacterial resistance	EN ISO846:1999	✓
Light fastness	EN 20105 B02	grade 6
Castor chair resistance	EN ISO 4918	✓
Surface treatment		X-Pur
Anti bacterial and fungicid treatment		graboSAN
Seaming method		hot or cold welding
Warranty		10 year







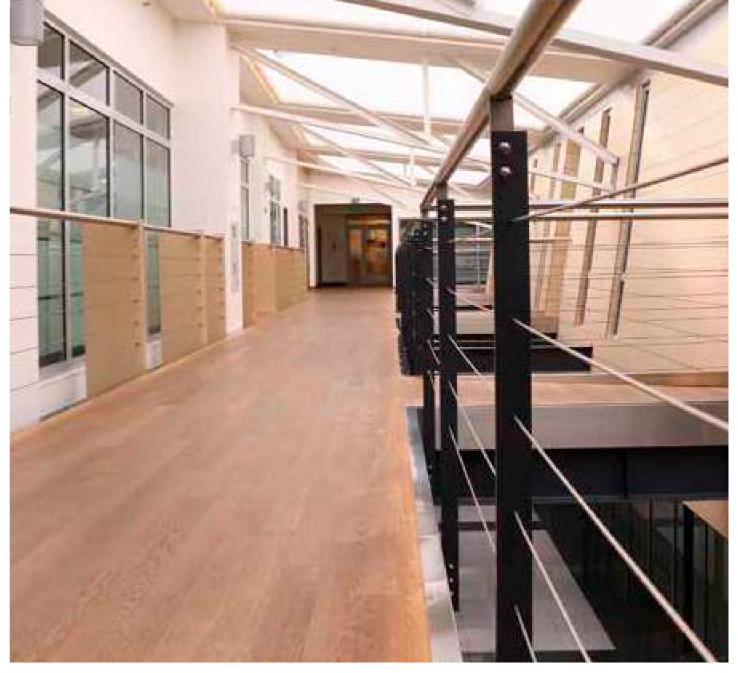
30 | 31 |

SOLVENT
FREE
NOI
WAX

grabo
Minimize
Mi

Natural













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ACOUSTIC 43

1001-384-874-281

| 32 |

393-672-281

Concrete



Rock





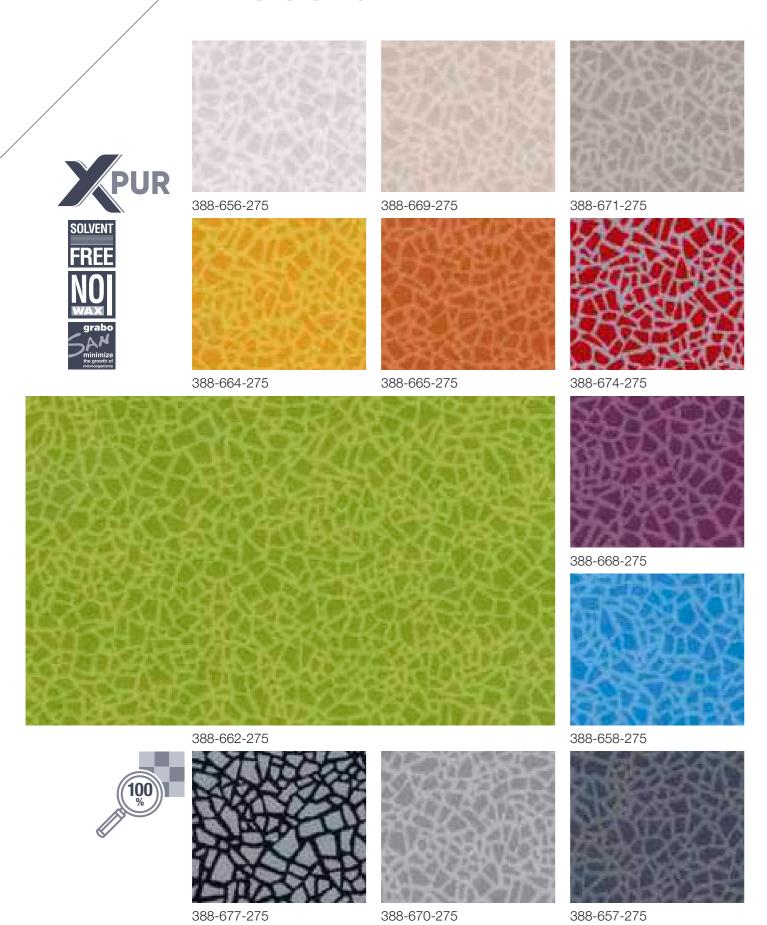
386-678-275

| 34 |

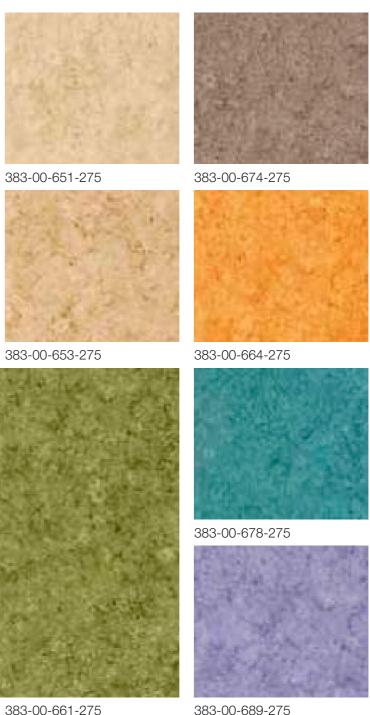
Mosaic

ACOUSTIC 43

Mineral







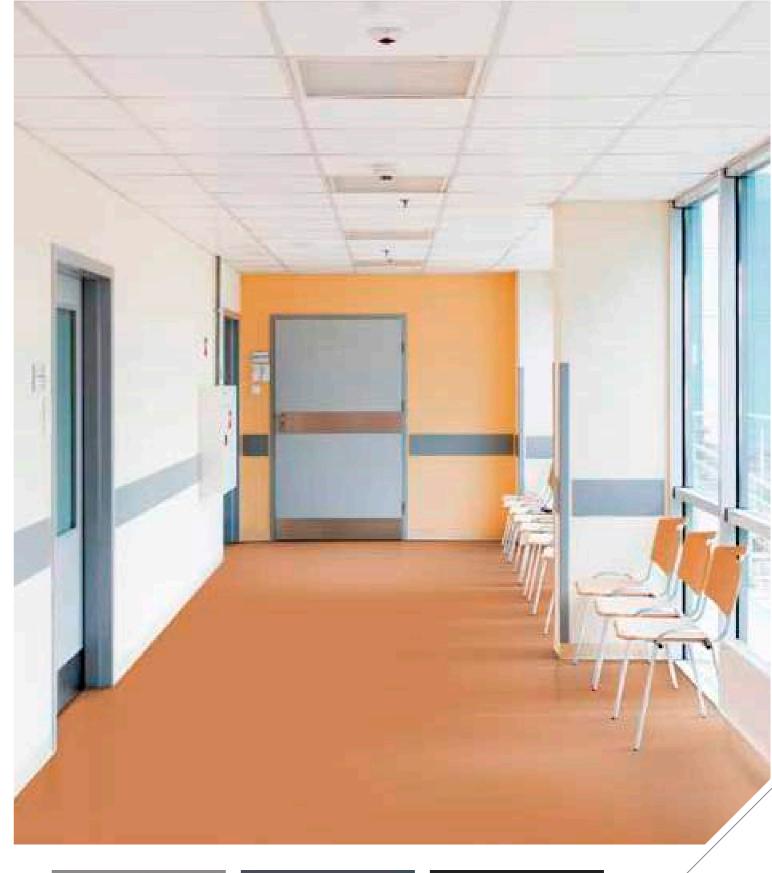
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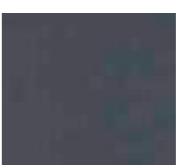
| 36 |

Jni











ACOUSTIC 43

1290-275

1895-275

1991-275

| 38 |

GRABO

Acoustic Pro

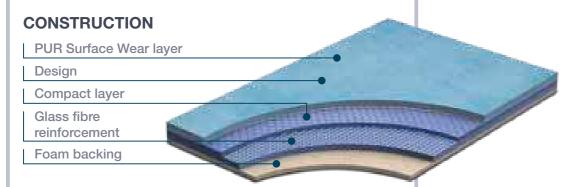
HIGH PERFORMANCE ACOUSTICAL FLOOR COVERING

PERFORMANCE, FEATURES & BENEFITS

Excellent acoustic properties (≥19 dB) | Excellent foot comfort Dimensionally stable | Increased lifespan | Antistatic Anti-bacterial | 7 year warranty

RECOMMENDED USAGE

- Library
- > Education
- > Healthcare
- > Corporate
- Retail
- > Anywhere acoustical property is needed



heterogeneous

| PUR Surface

hot or cold welding

graboSAN

7 year



TOTAL THICKNESS



TOTAL WEIGHT



WIDTH OF ROLLS



EUROPEAN CLASSIFICATION

SPECIFICATIONS

DESCRIPTION Construction

Surface treatment

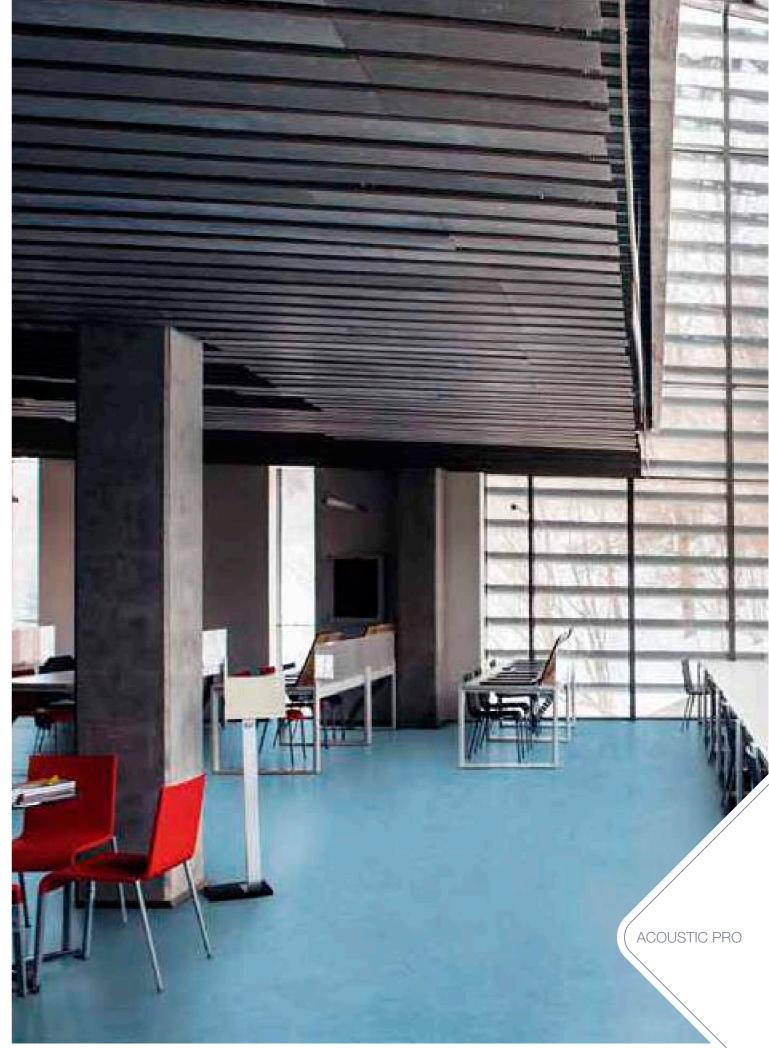
Seaming method

Warranty

Anti bacterial and fungicid treatment

Total thickness	EN ISO 24346	3,2 mm
Wear layer thickness	EN ISO 24340	0,55 mm
Width of roll	EN ISO 24341	2 4 m
Length of roll	EN ISO 24341	25 lm
Total weight	EN ISO 23997	2,5 kg/m ²
CLASSIFICATION		
European classification	EN 685	class: 33/42
PERFORMANCE		
Abrasion group	EN 660-1	T
Residual indention	EN ISO 24343	max. 0,2 mm
Dimensional stability	EN ISO 23999	max. 0,2 %
Fire resistance	EN 13501-1	class: Bfl-s1
	BS 476	class: Class1
	Gost 30402-94	class: G1
Impact sound reduction	EN ISO 717-2	$\Delta L_w=19 \text{ dB}$
Slip resistance	DIN 51130	R9
Electrical resistance	EN 1815	< 2 kV
	EN 1081	≤ 10 ⁹ Ω
Chemical resistance	EN ISO 26987	✓
Bacterial resistance	EN ISO846:1999	\checkmark
Light fastness	EN 20105 B02	grade 6
Castor chair resistance	EN ISO 4918	√





|40|

ACOUSTIC PRO

Acoustic Pro











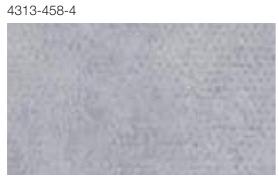
























4259-501-5 4259-503-5



ACOUSTIC PRO

4259-504-5

| 43 |

GRABO

Grabosafe Silver Knight

HIGH PERFORMANCE SAFETY FLOOR COVERING

PERFORMANCE, FEATURES & BENEFITS

Destroys harmful bacteria | Excellent slip resistance | Durability Premium vlies backing | Flexibility | 10 year warranty

RECOMMENDED USAGE

- > Healthcare
- > Education
- > Entrances
- > Receptions
- > Corridors
- Ramps
- > Elevators
- > Kitchens



TOTAL THICKNESS



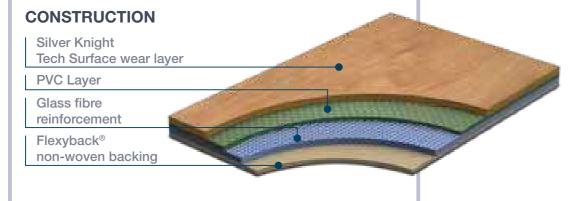
TOTAL WEIGHT



WIDTH OF ROLLS



EUROPEAN CLASSIFICATION



SPECIFICATIONS

DESCRIPTION

Castor chair resistance

Anti bacterial and fungicid treatment

Surface treatment

Seaming method

Warranty

Light fastness

Construction		compact heterogeneous
Total thickness	EN ISO 24346	2,0 mm
Wear layer thickness	EN ISO 24340	0,7 mm
Width of roll	EN ISO 24341	2 m
Length of roll	EN ISO 24341	20 lm
Total weight	EN ISO 23997	2,6 kg/m²
CLASSIFICATION		
European classification	EN 685	class: 34/43

European classification	EN 685	class: 34/43
PERFORMANCE		
Abrasion group	EN 660-1	T
Residual indention	EN ISO 24343	max. 0,1 mm
Dimensional stability	EN ISO 23999	max. 0,2 %
Fire resistance	EN 13501-1	Bfl-s
Slip resistance	RRL Pendulum Test	>36 (wet test)
	DIN 51130	R10
Chemical resistance	EN ISO 26987	√
Bacterial resistance	EN ISO846:1999	✓

| EN 20105 B02

| EN ISO 4918

grade 6

10 year

Tech Surface | Silver Knight

hot or cold welding

|



Natural







1001-384-851

1003-384-856



2561-384-867

2086-384-855







2096-384-857





GRABOSAFE SILVER KNIGHT

2239-384-868

1243-384-869

44 45

RECOMMENDED USAGE

- > Wet areas
- > Ramps
- > Food prep areas
- > Anywhere safety floor is needed



TOTAL THICKNESS



TOTAL WEIGHT



WIDTH OF ROLLS



CLASSIFICATION

GRABO

Grabosafe 20 JSK

HIGH PERFORMANCE SAFETY FLOOR COVERING

PERFORMANCE, FEATURES & BENEFITS

Excellent slip resistance | Excellent durability | Dimensionally stable Ant-bacterial | 10 year warranty

CONSTRUCTION CLP wear layer PVC Layer Glass fibre reinforcement Flexyback® non-woven backing

SPECIFICATIONS

Construction		compact heterogeneous
Total thickness	EN ISO 24346	2,0 mm
Wear layer thickness	EN ISO 24340	0,9 mm
Width of roll	EN ISO 24341	2 m
Length of roll	EN ISO 24341	20 lm
Total weight	EN ISO 23997	2,6 kg/m ²
CLASSIFICATION		
European classification	EN 685	class: 34/43
PERFORMANCE		
Abrasion group	EN 660-1	T
Residual indention	EN ISO 24343	max. 0,1 mm
Dimensional stability	EN ISO 23999	max. 0,2 %
Fire resistance	EN 13501-1	class: Cfl-s1
	BS 476	class: 1
	DIN 4102/ÖNORM	class: B1
	Gost 30402-94	class: G1
Slip resistance	DIN 51130	R10
	DIN 51097	C
	EN 13893	class: DS
Abrasion resistance	ISO 9352	-0,25 g/1000 circle
Shore A hardness	ISO 868	90
Chemical resistance	EN ISO 26987	\checkmark
Bacterial resistance	EN ISO846:1999	√
Light fastness	EN 20105 B02	grade 6
Castor chair resistance	EN ISO 4918	√
Surface treatment		CLP
Anti bacterial and fungicid	reatment	graboSAN
Seaming method		hot or cold welding
Warranty		10 year

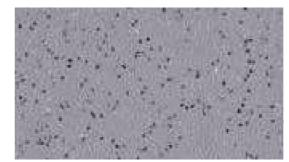
















6343-03





GRABOSAFE 20 JSK

6091-03 1991-03

47 | 46

RECOMMENDED USAGE

- > Wet areas
- Ramps
- > Food prep areas
- > Anywhere safety floor is needed



TOTAL THICKNESS



TOTAL WEIGHT



WIDTH OF ROLLS



EUROPEAN CLASSIFICATION

Warranty

GRABO Ecosafe

HIGH PERFORMANCE SAFETY FLOOR COVERING

PERFORMANCE, FEATURES & BENEFITS

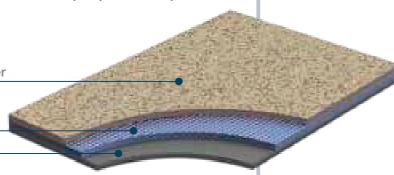
Excellent slip resistance | Cost effective | Great color range Dimensionally stable | Anti-bacterial | 10 year warranty

CONSTRUCTION

Easy Care wear layer

Glass fibre reinforcement

PVC backing



SPECIFICATIONS

DESCRIPTION		
Construction		compact heterogeneous
Total thickness	EN ISO 24346	2,0 mm
Wear layer thickness	EN ISO 24340	0,7 mm
Width of roll	EN ISO 24341	2 m
Length of roll	EN ISO 24341	20 lm
Total weight	EN ISO 23997	2,7 kg/m²
CLASSIFICATION		
European classification	EN 685	class: 34/43
PERFORMANCE		
Abrasion group	EN 660-1	T
Residual indention	EN ISO 24343	max. 0,1 mm
Dimensional stability	EN ISO 23999	max. 0,2 %
Fire resistance	EN 13501-1	class: Bfl-s1
	DIN 4102/ÖNORM	class: B1
	ASTM E 648/662	class: Class1/pass
	Gost 30402-94	class: G1
Slip resistance	DIN 51130	R10
	ASTM D2047-99	dry: 0,92/wet: 0,84
	EN 13893	class: DS
	RRL Pendulum Test	>36 (wet test)
Abrasion resistance (H-18 wheel)	ASTM D3884-01	-0,19 g/1000 circle
Abrasion resistance	ISO 9352	-0,25 g/1000 circle
Chemical resistance	EN ISO 26987	✓
	ASTM F925-02	√
Light fastness	EN 20105 B02	grade 6
Castor chair resistance	EN ISO 4918	✓
Surface treatment		Easy Care
Anti bacterial and fungicid tre	atment	graboSAN
Seaming method		hot or cold welding

10 year







48 | | 49 |

EASYCARE

SOLVENT

ECOSAFE ECOSAfe



| 51 | | 50 |

RECOMMENDED USAGE

- > Education
- > Healthcare
- Retail
- > Hospitality
- > Offices





TOTAL WEIGHT



WIDTH OF ROLLS



EUROPEAN CLASSIFICATION

GRABO Standart

COST EFFECTIVE COMPACT FLOOR COVERING

PERFORMANCE, FEATURES & BENEFITS

2/4 meter widths | Cost effective | Broad color range Great patterns | High residual indentation | Dimensionally stable Anti-bacterial | Antistatic | 10 year warranty

CONSTRUCTION Wear layer Design Compact layer Glass fibre reinforcement Back layer

SPECIFICATIONS

DESCRIPTION	DES	CRI	PTI	ON	
-------------	-----	-----	-----	----	--

Warranty

Construction		heterogeneous
Total thickness	EN ISO 24346	2,0 mm
Wear layer thickness	EN ISO 24340	0,7 mm
Width of roll	EN ISO 24341	2/4 m
Length of roll	EN ISO 24341	20 lm
Total weight	EN ISO 23997	2,2 kg/m²
CLASSIFICATION		
	LENLOGE	-1 04/40

European classification	EN 685	class: 34/43
PERFORMANCE		
Abrasion group	EN 660-1	T
Residual indention	EN ISO 24343	max. 0,1 mm
Dimensional stability	EN ISO 23999	max. 0,2 %
Fire resistance	EN 13501-1	class: Bfl-s1
	DIN 4102/ÖNORM	class: B1
	Gost 30402-94	class: G1
Slip resistance	DIN 51130	R9
	EN 13893	class: DS
Electrical resistance	EN 1815	< 2 kV
	EN 1081	≤ 10 ⁹ Ω
Chemical resistance	EN ISO 26987	✓
Bacterial resistance	EN ISO846:1999	\checkmark
Light fastness	EN 20105 B02	grade 6
Castor chair resistance	EN ISO 4918	\checkmark
Anti bacterial and fungicid treatment		graboSAN
Seaming method		hot or cold welding

10 year





| 52 | | 53 |

Evolution STANDART





STANDART

Evolution Natural



4235-487



4235-489



4159-471





4159-472



















| 54 |

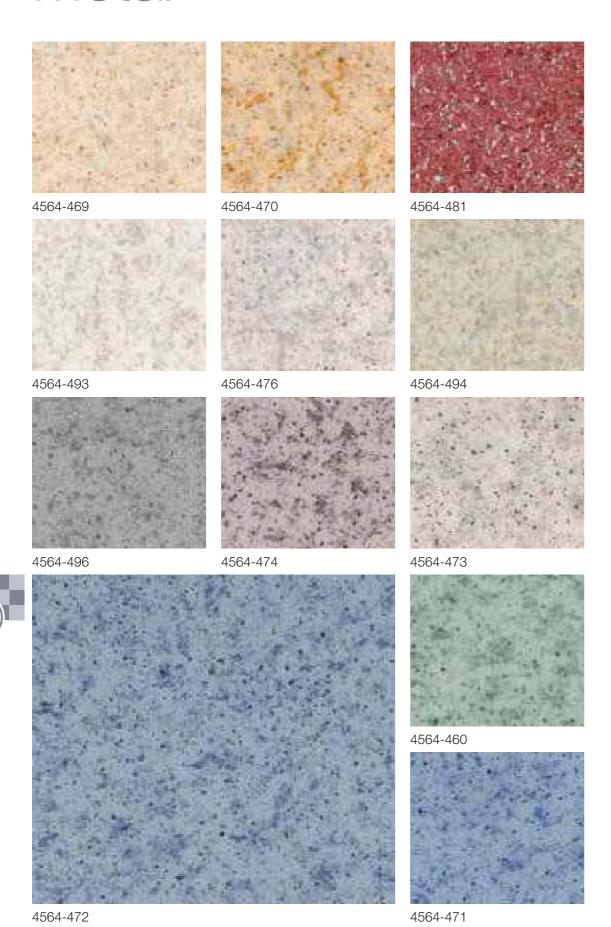
STANDART TECH

Metal

STANDART

Talent

4313-472-4





4313-473-4

| 56 |

| 57 |

4313-474-4

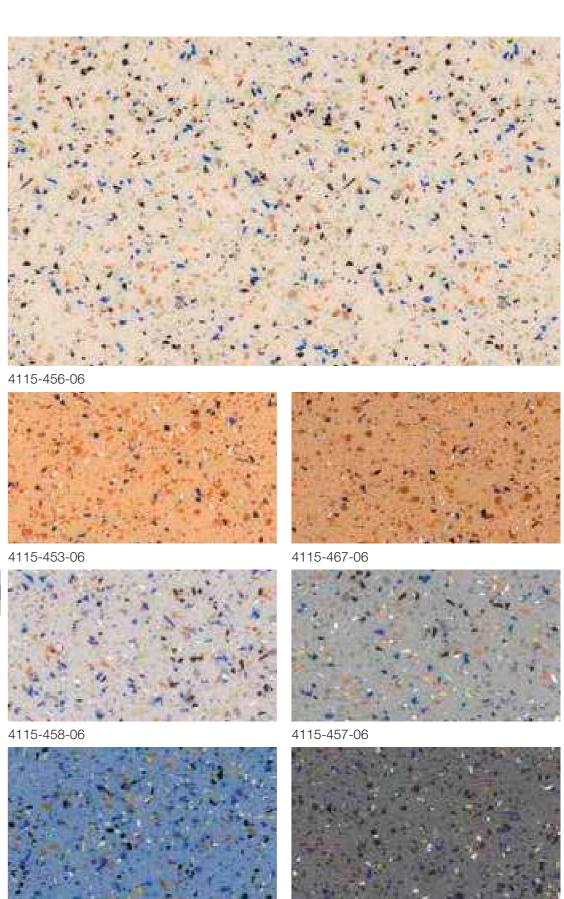
Forte STANDART 4213-470-4 4213-469-4 4213-453-4 4213-465-4 4213-455-4 4213-475-4 4213-464-4 4213-463-4

4213-456-4

| 58 |

STANDART Plaza

4115-459-06



4115-468-06

| 59 |

4213-479-4



60 |

HETEROGENEOUS LIGHT COMMERCIAL

GRABO **Aura**

LIGHT COMMERCIAL VINYL FLOOR COVERING

PERFORMANCE, FEATURES & BENEFITS

2/4 meter widths | cost effective | Broad color range Great patterns | High residual indentation | Dimensionally stable, Anti-bacterial | Antistatic | 7 year warranty

CONSTRUCTION Wear layer Design Glass fibre reinforcement Foam layer

RECOMMENDED USAGE

- > Kindergartens
- Rooms
- Halls
- > Kitchens

mm

TOTAL THICKNESS



TOTAL WEIGHT



WIDTH OF ROLLS



CLASSIFICATION

SPECIFICATIONS

Construction		heterogeneous
Total thickness	EN ISO 24346	2,0 mm
Wear layer thickness	EN ISO 24340	0,4 mm
Width of roll	EN ISO 24341	2 4 m
Standard length of rolls	EN ISO 24341	25 lm
Normal length of rolls	EN ISO 24341	18-27 lm
Total weight	EN ISO 23997	1,8 kg/m ²
CLASSIFICATION		
Classification	EN 685	class: 23/32/41
PERFORMANCE		
Abrasion group	EN 660-1	T
Residual indention	EN ISO 24343	max. 0,2 mm
Dimensional stability	EN ISO 23999	max. 0,2 %
Fire resistance	EN 13501-1	class: Bfl-s1
Slip resistance	DIN 51130	R9
	EN 13893	class: DS
Electrical resistance	EN 1815	< 2 kV
Chemical resistance	EN ISO 26987	√
Bacterial resistance	EN ISO846:1999	 ✓
Light fastness	EN 20105 B02	grade 6
Castor chair resistance	EN ISO 4918	√
Anti bacterial and fungicid treatment		graboSAN
Seaming method		hot or cold welding
Warranty		7 year





HETEROGENEOUS LIGHT COMMERCIAL

GRABO Top

LIGHT COMMERCIAL VINYL FLOOR COVERING

Grabo TOP Range vinyl floorcovering due to its high technical performance is suitable product for the heavy duty residential applications and for moderate traffic public areas as well. This floor provides excellent foot comfort.

RECOMMENDED USAGE

- > Kindergartens
- Rooms
- Halls
- > Kitchens

CONSTRUCTION Wear layer Design Glass fibre reinforcement Foam layer

mm

TOTAL THICKNESS



TOTAL WEIGHT



WIDTH OF ROLLS



SPECIFICATIONS

DESCRIPTION

Construction		heterogeneous
Total thickness	EN ISO 24346	2,4 mm
Wear layer thickness	EN ISO 24340	0,5 mm
Width of roll	EN ISO 24341	2 3 4 m
Standard length of rolls	EN ISO 24341	25 lm
Normal length of rolls	EN ISO 24341	18-27 lm
Total weight	EN ISO 23997	2,0 kg/m ²
CLASSIFICATION		
Classification	EN 685	class: 23/33/42
PERFORMANCE		
Residual indention	EN ISO 24343	max. 0,2 mm
Dimensional stability	EN ISO 23999	max. 0,2 %
Fire resistance	EN 13501-1	class: Cfl-s1
Slip resistance	EN 13893	class: R9
Light fastness	EN 20105 B02	grade 6
Abrasion group	MSZ EN 660-1	T
Castor chair resistance	EN ISO 4918	\checkmark
Warranty		7 year

Natural







4259-254 < 2 | 3 | 4 m >

4266-251 < 2 | 3 | 4 m >





4259-253 < 2 | 3 | 4 m >

4266-260 < 2 | 3 | 4 m >



TOP





4121-260 < 2 | 3 | 4 m >

4266-272 < 2 | 3 | 4 m >





4266-271 < 2 | 3 | 4 m >



| 65 | 64

TOP Metal







4564-251 < 2 | 3 | 4 m >



4564-296 < 2 | 3 | 4 m >



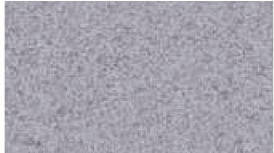
4564-299 < 2 | 3 | 4 m >



4564-292 < 2 | 3 | 4 m >



4564-301 \langle 2 | 3 | 4 m \rangle



4564-297 < 2 | 3 | 4 m >

TOP Cloud





4261-257 < 2 | 3 | 4 m >







4261-252 〈2 | 3 | 4 m 〉



|66|

| 67 |

HETEROGENEOUS LIGHT COMMERCIAL

GRABO **Astral**

LIGHT COMMERCIAL VINYL FLOOR COVERING

Grabo ASTRAL Family has excellent technical characters witch are associated with a design surplus. We offer this product to modern homes, offices, shops and educational buildings.

RECOMMENDED USAGE

- > Kitchens
- Halls
- Rooms
- > Classrooms
- > Offices



TOTAL THICKNESS



TOTAL WEIGHT



WIDTH OF ROLLS



EUROPEAN CLASSIFICATION

Foam layer

CONSTRUCTION

Wear layer

Glass fibre

reinforcement

Design

SPECIFICATIONS

DESCRIPTION				
Construction				

Total thickness	EN ISO 24346	2,0 mm
Wear layer thickness	EN ISO 24340	0,4 mm
Width of roll	EN ISO 24341	2 3 4 m
Standard length of rolls	EN ISO 24341	25 lm
Normal length of rolls	EN ISO 24341	18-27 lm
Total weight	EN ISO 23997	1,8 kg/m ²
CLASSIFICATION		
Classification	EN 685	class: 23/32/41
PERFORMANCE		
Residual indention	EN ISO 24343	max. 0,2 mm
Dimensional stability	EN ISO 23999	max. 0,2 %
Fire resistance	EN 13501-1	class: Cfl-s1
Slip resistance	EN 13893	class: DS
Light fastness	EN 20105 B02	grade 6
Abrasion group	MSZ EN 660-1	T
Castor chair resistance	LEN ISO 4918	√

heterogeneous

7 year

Chips ASTRAL







4581-464-08-4 < 2 | 4 m >



4564-454-05-4 < 2 | 3 | 4 m >



4581-465-08-4 < 2 | 4 m >



4564-452-05-4 < 2 | 3 | 4 m >



4564-467-05-4 < 2 | 3 | 4 m >

| 68 |

Warranty

Color ASTRAL







4575-452-4 < 2 | 3 | 4 m >

4575-453-4 < 2 | 3 | 4 m >



Natural ASTRAL





4235-463-5 < 2 | 3 | 4 m >

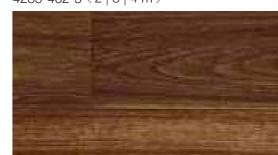




4235-465-5 < 2 | 3 | 4 m >

4235-462-5 < 2 | 3 | 4 m >





4263-452-5 < 2 | 3 | 4 m >

4266-454-5 < 2 | 3 | 4 m >



4262-453-5 < 2 | 3 | 4 m >

| 70 |

HETEROGENEOUS LIGHT COMMERCIAL

GRABO Soundtex 5.0

LIGHT COMMERCIAL VINYL FLOOR COVERING

Grabo SOUNDTEX 5.0 floorings combine good technical characteristics with extra design features. The product ensures excellent residual indentation, good comfort feeling, and thanks to the non-woven backing it can be installed without glue, which allows easier and quicker installation, especially in renovation

RECOMMENDED USAGE

- > Nursery homes
- > Preschools
- > Libraries
- > Dormitory rooms

CONSTRUCTION Wear layer Design layer Glass fibre reinforcement PES backing



TOTAL THICKNESS



TOTAL WEIGHT



WIDTH OF ROLLS



72

SPECIFICATIONS

DESCRIPTION

Construction		heterogeneous	
Total thickness	EN ISO 24346	3,2 mm	
Wear layer thickness	EN ISO 24340	0,5 mm	
Width of roll	EN ISO 24341	2 3 4 m	
Standard length of rolls	EN ISO 24341	25 lm	
Normal length of rolls	EN ISO 24341	18-27 lm	
Total weight	EN ISO 23997	2,2 kg/m ²	
CLASSIFICATION			
Classification	EN 685	class: 23/33/42	
PERFORMANCE			
Residual indention	EN ISO 24343	max. 0,2 mm	
Dimensional stability	EN ISO 23999	max. 0,2 %	
Fire resistance	EN 13501-1	class: Cfl-s1	
Slip resistance	EN 13893	class: R9	
Light fastness	EN 20105 B02	grade 6	
Abrasion group	MSZ EN 660-1	T	
Castor chair resistance	EN ISO 4918	\checkmark	
Warranty		7 year	

Marble SOUNDTEX 5.0









4547-505-4 < 2 | 4 m >

4547-511-4 < 2 | 4 m



4547-510-4 < 2 | 4 m



4547-509 < 2 | 4 m

4261-451-3 < 2 | 4 m

| 73 |

SOUNDTEX 5.0

Natural







4259-504-5 < 2 | 4 m >



4263-482-4 < 2 | 4 m >

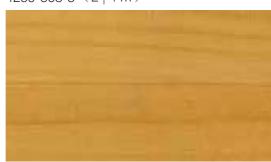


4259-503-5 〈2 | 4 m 〉





4235-452-5 < 2 | 4 m >



4259-501-5 < 2 | 4 m >



4235-469-5 < 2 | 4 m >

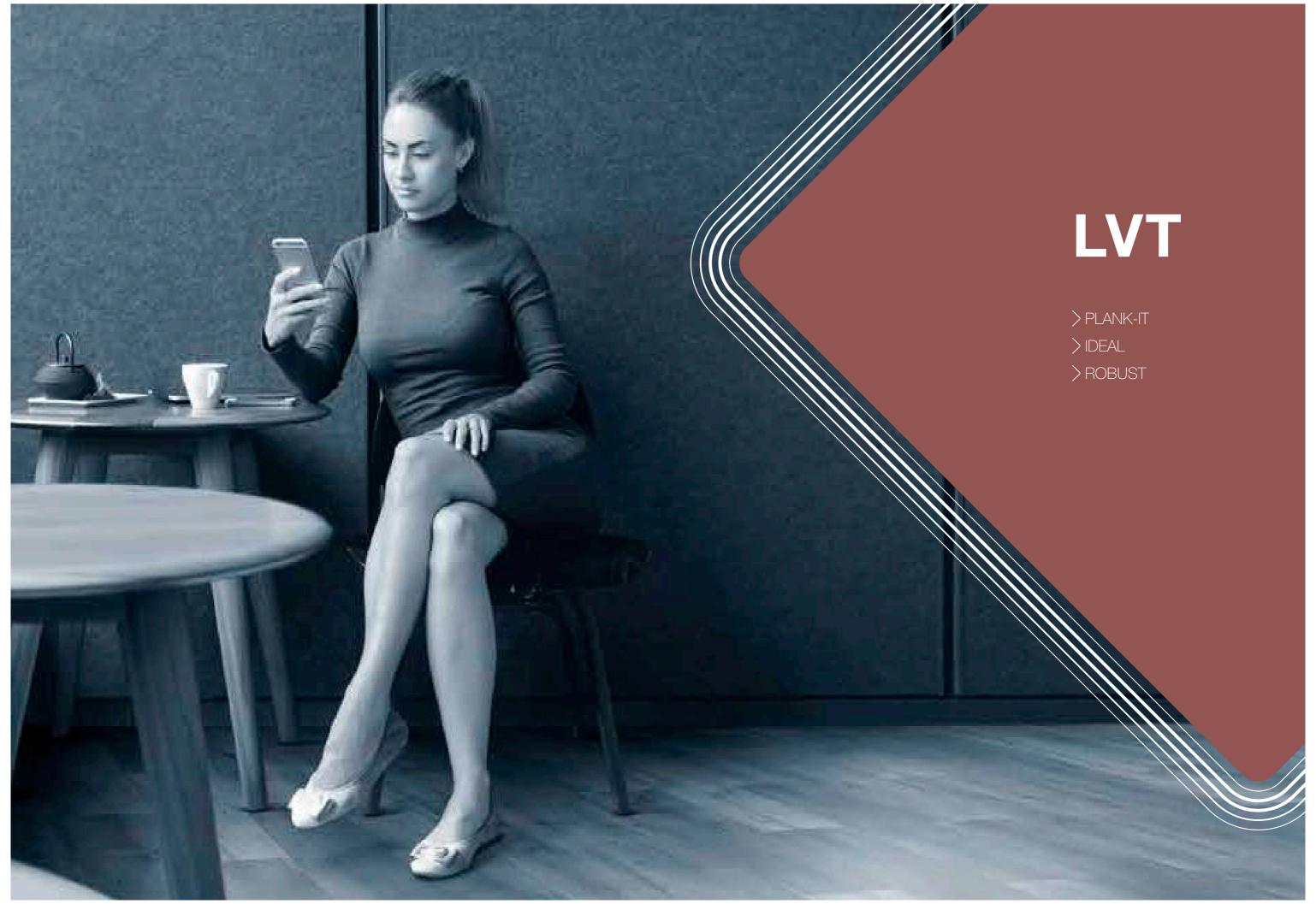


4266-453-4 < 2 | 4 m >



4262-467-4 < 2 | 4 m >



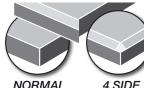


LVT

RECOMMENDED USAGE

- > Hospitality
- Retail
- > Offices
- > Education





NORMAL FORMAT

4 SIDE BEVELED



PLANK-IT



ROBUST



GRABO

Luxury vinyl tile

PLANKIT | ROBUST | IDEAL

LUXURY VINYL TILE FLOORING FOR COMMERCIAL USE

The Grabo LVT floorings are inspired by nature, manufactured with phthalate free technology and provides an environmentally friendly flooring solution for the users.

CONSTRUCTION iGuard PUR Protective coating	
Transparent wear layer	
Design printed layer	É
Middle layer	P
Glass fibre reinforcement	
Back layer	

SPECIFICATION	S			VAILABLE IN ALL PLANKIT DESIGNS ITITY OF 2 PALETTS/DESIGN.	
DESCRIPTION		PlankIT	Robust	Ideal	
Construction		Luxury Vinyl Tile	with iGuard Surface)	
Plank size wood	EN ISO 24346	185×1220 mm	185×1220 mm	185×1220 mm	
	EN ISO 24346	158×950* mm	158×950 mm	158×950 mm	
Tile size stone	EN ISO 24346	305×610 mm	305×610 mm	305×610 mm	
Total thickness	EN ISO 24346	2,5 mm	3,0 mm	2,7 mm	
Wear layer thickness	EN ISO 24340	0,55 mm	1,0 mm	0,7 mm	
Total weight	EN ISO 23997	3,8 kg/m²	4,6 kg/m²	3,9 kg/m²	
CLASSIFICATION					
European classification	EN 685	class: 33/42	class: 34/43	class: 34/43	
Binder content	EN ISO 10582	Type I.	Type I.	Type I.	
PERFORMANCE					
Abrasion group	EN 660-1	Τ	T	T	
Residual indention	EN ISO 24343	max. 0,1 mm	max. 0,1 mm	max. 0,1 mm	
Dimensional stability	EN ISO 23999	max. 0,15 %	max. 0,15 %	max. 0,15 %	
Curling	EN ISO 23999	max. 2,0 mm	max. 2,0 mm	max. 2,0 mm	
Fire resistance	EN 13501-1	class: Bfl-s1	class: Bfl-s1	class: Bfl-s1	
Slip resistance	EN 13893	class: DS	class: DS	class: DS	
Electrical properties	EN 1815	max. 2 kV / Antis	max. 2 kV / Antistatic		
Chemical resistance	EN ISO 26987	 ✓	 ✓	✓	
	ASTM F925	✓	 ✓	 ✓	
Light fastness	EN 20105 B02	grade 6	grade 6	grade 6	
Castor chair resistance	EN ISO 4918	√	 √	 √	
Surface treatment	[iGuard PUR Surfa	ace / Easy cleaning		
Content of pcp	EN 12673	does not contain			
Formaldehide emission	ENV 717-1	E1 (no emission)			
VOC	EN 12673	pass	pass	pass	
Warranty	Commercial	10 year	15 year	12 year	

15 year

| 20 year

| 17 year

Residential



|78|

100 WATER RESISTANT

Plank-It Wood



MARTELL

SANSA



30

PLANK-IT WOOD

| 80 |

JOFFREY

| 81 |

Plank-It Wood





DAVOS

















|82|

Plank-It Stone













| 84 |

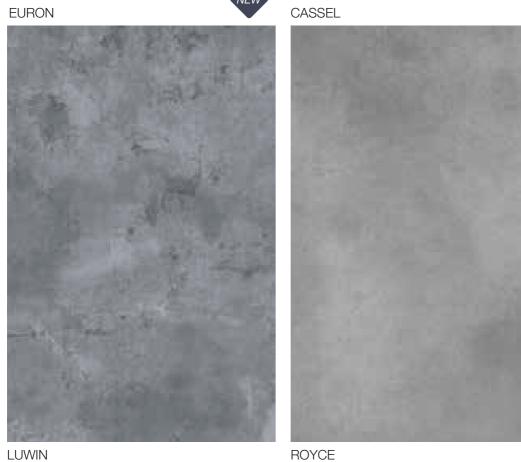
100 WATER RESISTANT

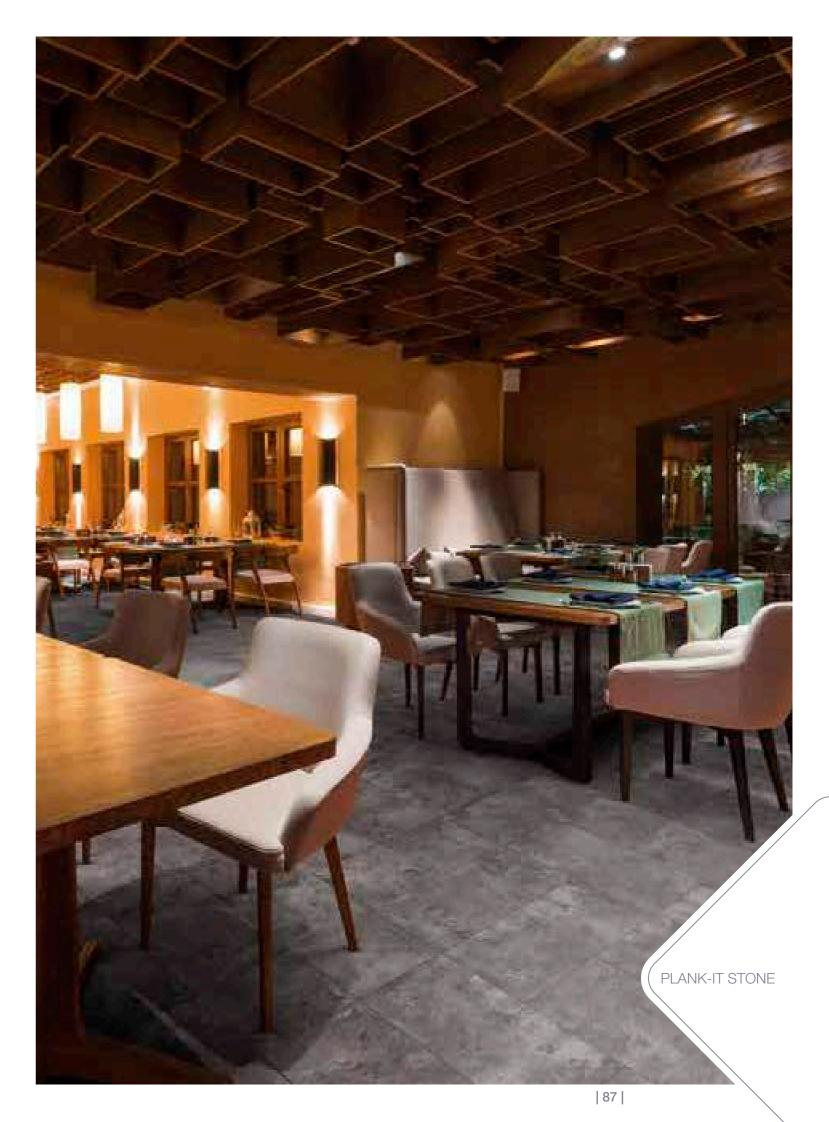
Plank-It Stone











| 86 |



| 88 |

SPC

GRABO Domino SPC

THE MOST DURABLE VINYL FLOOR

PERFORMANCE, FEATURES & BENEFITS

Very simple renovation | Ideal for kids and pets | 100% waterproof Excellent dimensional stability | Low residual indentation Easy cleaning

RECOMMENDED USAGE

- > Kitchen
- > Bathroom
- > Bedrooms
- > Work room
- > Living room
- > Hall

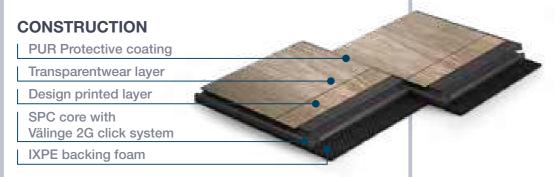




TOTAL WEIGHT







SPECIFICATIONS

DESCRIPTION			
Construction		SPC Luxury floor with click	
Plank size	EN ISO 24341	177,8×1219,2 mm	
	EN ISO 24341	7×48 inch	
Total thickness	EN ISO 24346	5,0 mm	
Wear layer thickness	EN ISO 24340	0,3 mm	
Total weight	EN ISO 23997	7,9 kg/m ²	
CLASSIFICATION			
European classification	EN 685	class: 23/31	
PERFORMANCE			
Abrasion group	EN 660-1	T	
Residual indention requirement	EN ISO 24343	max. 0,1 mm	
Residual indention measured value	EN ISO 24343	max. 0,03 mm	
Dimensional stability	EN ISO 23999	max. 0,15 %	
Curling	EN ISO 23999	max. 2 mm	
Fire resistance	EN 13501-1	class: Bfl-s1	
Slip resistance	DIN 51130	R10	
	EN 13893	class: DS	
Impact sound reduction	EN ISO 717-2	22 dB	
Chemical resistance	EN ISO 26987	✓	
Light fastness	EN 20105 B02	grade 6	
Surface treatment		iGuard PUR Surface	
Content of PCP	EN 12673	does not contain	
Formaldehide emission	ENV 717-1	E1 (no emission)	
VOC	ISO 16000	\checkmark	
Warranty	commercial	5 year	

resedential

10 year





90 | 91 |

Domino SPC















BOLTON

WALDER

OLENA















DROGO

DOMINO SPC

ELERIA DAVOS

| 92 |

| 93 |



WALL COVERING

GRABO Muravyl

HIGH PERFORMANCE FLEXIBLE WALL COVERING

PERFORMANCE, FEATURES & BENEFITS

2 m width | Excellent fire resistance | Dimensionally stable Anti-bacterial | Antistatic

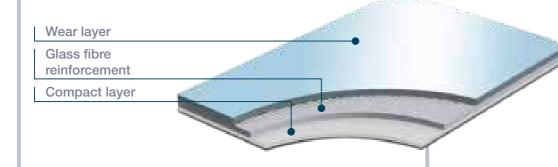
CONSTRUCTION

> Offices

RetailHospitality

USAGE> Education

> Healthcare





RECOMMENDED

TOTAL THICKNESS



TOTAL WEIGHT



SPECIFICATIONS

CLASSIFICATION

DESCRIPTION		
Construction		compact heterogeneous
Total thickness	EN ISO 24346	1,5 mm
Wear layer thickness	EN ISO 24340	0,5 mm
Width of roll	EN ISO 24341	2 m
Length of roll	EN ISO 24341	25 lm
Total weight	EN ISO 23997	1,4 kg/m²

Product specification	EN 649	\checkmark
Residual indentation	EN 433	max. 0.1 mm
Dimensional stability	EN ISO 23999	max. 0,2 %
Light fastness	EN ISO 105-B02	grade 6

PERFORMANCE		
Abrasion group	MSZ EN 660-1	Т
Fire resistance	EN 13501-1	class: B-s2, d0
Chemical resistance	EN ISO 26987	√
Anti bacterial and fungicid treatment		graboSAN
Seaming method	EN ISO846:1999	heat or cold weld





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WALL COVERING

GRABO

Silver Knight Wall

HIGH PERFORMANCE FLEXIBLE WALL COVERING

PERFORMANCE, FEATURES & BENEFITS

Eliminates harmful pathogens without chemicals $\|$ Flexibility Dimensionally stable $\|$ 1.5 m width

RECOMMENDED CONSTRUCTION USAGE

> Education

- > Healthcare
- > Retail
- > Hospitality
- > Offices





TOTAL THICKNESS



TOTAL WEIGHT



SPECIFICATIONS

Foam backing

DESCRIPTION

Seaming method

Construction		heterogeneous wall covering		
Total thickness	EN ISO 24346	1,5 mm		
Wear layer thickness	EN ISO 24340	0,2 mm		
Width of roll	EN ISO 24341	1,5 m		
Length of roll	EN ISO 24341	25 lm		
Total weight	EN ISO 23997	1,5 kg/m²		
CLASSIFICATION				
Residual indentation	EN 433	max. 0.35 mm		
Dimensional stability	EN ISO 23999	max. 0,2 %		
Light fastness	EN ISO 105-B02	grade 6		
PERFORMANCE				
Abrasion group	MSZ EN 660-1	T		
Chemical resistance	EN ISO 26987	√		
Surface treatment		TechSurface		
Anti bacterial and fungicid treatment		Silver Knight		

| EN ISO846:1999

heat or cold weld









1001-275

1217-275

1137-275

7089-275

2258-275



6030-275

SILVER KNIGHT WALL

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RECOMENDATION

Grabo's recommendation

Homogeneous vinyl sheet floorings Fortis Fortis 1.5 Triumph Polis Conducto S Silver Knight Diamond Ted Silver Knight Diamond Ted Conducto S Silver Knight Diamond Ted Silver Knight Diamond Ted Acception/lobby Corridors Administration offices Intensive care	erogeneous vi Silver Knight h Acoustic 7	Acoustic 43	Acoustic Pro
Entrance area Reception/lobby Corridors Administration offices			
Reception/lobby Corridors Administration offices			
Corridors Administration offices			
Administration offices			
intensive care			
Treatment rooms			
Waiting rooms			
Waiting rooms Patient rooms			
Laboratories			
Operating theatre			Ĺ
Loundry Storage rooms			
Ramps/elevators Bathroom/toilet			
Batriroom/toilet			
Entrance area			
Corridors			
Staff rooms			
Conference rooms			
Classrooms			
Storage rooms			
Language studios			
Language studios Libraries			
Laboratories			
Multipurpose rooms/halls			
Dormitory rooms			
Dining rooms			
Bathroom/toilet			
Ramps elevators			
Entrance area			
Reception/lobby			
M. F. C. C.			
Meeting/conference rooms Offices Carridges			
Corridors			
Bathroom/toilet			
Canteen/cafeteria			
Entrance area			
Department stores sales floors			
Shops			
Food service areas			
Warhouses			
Entrance			
Reception/lobby			
Restaurant/har			
Kitchen Cinema, theatre, casino			
Cinema, theatre, casino			
Corridors			
Bedrooms	+		
Bathroom/toilet			
Airport hall/lounge			
Elevators			
Bus terminals			
Bus terminals Laboratories			



highly recommended (the best flooring choices for the space)

recommended (flooring suitable for the space) COMMERCIAL

Acoustic

2 American University Armenia-Yerevan 3 Rueil Malmaison School,

4 Library, Zielona Gora, Poland

5 Hotel Eden Roc, France 6 Tournan en Brie School,

France

1 KG Private School, *Dubai*

References























Standart

- 7 American Culture College, Turkey
- 8 VA Clinic, Sebring, Florida, USA
- 9 Natavega Mall playground, Turkey
- 10 Bangkok Hospital, Thailand











Silver Knight 11 Hospital, Nyitra, Slovakia

- 12 Dentistry, Győr, Hungary
- 13 Parkridge Medical Center, Chattanoga, USA
- 14 Altru Health System's Center, Fargo, USA
- 15 Ho Tung Primary School, Hong-Kong
- 16 Essentia Hospital, Fargo North Dakota, USA
- 17 Ng Teng Fong General Hospital, Singapore











- 19 STUWO Leoben, Ausztria 20 BVH Studentenwohnheim Leechgass Graz, Ausztria
- 21 Patak Vendéglő, Kismaros Hungary
- 22 Hotel Yacht, Siófok, Hungary

LVT

23 Biblioteca, Escuela de Ingeniería de Antioquia, Medellin, Colombia







Homogeneous

- 24 King Faisl Specialist hospital, Jeddah, Saudi Arabia
- 25 Prizma Dental Clinic, Russia
- 26 Kindergarten, Irpin, Ukraina
- 27 Dr.Ghassan Najib Pharaon hospital, Jeddah, Saudi Arabia









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Storage and care guide

The Grabo commercial vinyl floorings should be stored in the upright position or on racks in their original packaging in dry, clean and well ventilated premises. Outdoor storage under cover is not allowed. Ensure the storing temperature between +10°C and +35°C. Avoid storage in premises with high moisture content and/or condensation. The relative moisture content in the storing premises should be within 40–75%.

The Graboueld welding rod used for heat welding should be stored under the same conditions as the flooring sheets, in its original packaging that should not be opened before use.

If stored in heated premises, the PVC products should be protected from heat. The distance between the heat source and the stored products should be at least 1 meter.

The products should be protected from direct sunlight and artificial light with high UV levels. The product should not be exposed to strain, pressure or other load during storing in order to prevent permanent deformation and cracking.

Appropriate storing conditions and adequate handling of the commercial PVC floorings will help to retain their properties till the end of their life-time. In case of extended storing (for more that one year) an adhesion test is recommended prior to the installation of the product. Only the rolls from a similar batch and having the same lot number should be used for the same premises. Prior to installation of the flooring visually inspect the sub-floor for general appearance, color and surface condition. The manufacturer does not assume responsibility for any additional labor or cost expenses resulting from evident surface defects.

INSTALLATION

SUB-FLOOR REQUIREMENTS

The contractor performing the installation of the Grabo commercial vinyl floorings must ensure the proper quality of the subfloor. The sub-floor must be clean, smooth, permanently dry, free of cracks and any contaminants that might affect adhesion (e.g. paint, oil, grease, plaster or adhesive), sufficiently hard and resistant to pressure and tension strain. In case of concrete and sand/cement screed sub-floors, their moisture content should not exceed 2.5%. If the sub-floor moisture content exceeds 2.5%, but does not reach 5%, the damp proof membrane Grabo Vaporex should be installed underneath the PVC flooring system. If the sub-floor moisture content exceeds 5%, do not start installation before it goes below 5% or install a damp proof membrane underneath the commercial PVC flooring system.

It is recommended to check the condition of the sub-floor by performing the required tests and measurements prior to installation of the flooring. Check the surface level (using a ruler or a measuring wedge), as well as the absence of cracks, the moisture content (using a hydrometer) and the surface hardness (scratch test). Document the obtained test results. The sub-floor temperature directly before installation of the flooring should be between +15°C and +30°C.

PREPARATION OF THE SUB-FLOOR (NEW OR EXISTING BASES)

Prepare the new concrete base by stone or power grinding and vacuum cleaning. In case of new gypsum based screed sub-floors remove the loose upper gypsum layer by grinding. In case of existing carpet and rubber flooring, upon removing the old carpet or rubber sheets clean the surface from traces of paint and adhesive, then patch or fill the cracks and hollows, if any, before installing the new floor covering. If the new flooring is to be installed on top of a PVC base or ceramic tiles, thoroughly clean the surface by abrasion and vacuuming, fill the joints with a suitable repair composition and apply an approved primer compound to the entire surface.

If the new flooring is to be installed over existing wooden or laminated floors, confirm that the boards are securely fixed and properly dried. Firmly nail any loose elements to the joists and replace any boards with moisture content higher than required. The surface then should be sanded and cleaned from dust and treated with an appropriate primer compound. These subfloor preparation and floor laying instructions assume the use of Henkel Thomsit products which can as well be replaced by products of any other brand with similar technical properties.

For the pre-treatment of the concrete base use dispersion primer Thomsit R 777 diluted with water by half; apply the primer without dilution on gypsum screed base with the help of a sponge roller and leave to dry for 24–48 hours. Use primer Thomsit R 766 diluted with water by half to pre-treat hard, dense, impervious surfaces. The primer will trap the remaining dust, close the pores in the con-

crete and make a contact surface for the smoothing compound. After the primer has been completely absorbed, the surface needs to be leveled using a suitable smoothing compound (e.g. self-leveling compound Thomsit). When choosing the self-leveling compound, consider the expected traffic load and the time allotted for the installation of the flooring. Thoroughly mix the powder with water according to manufacturer's instructions and then spread the smooth paste on the surface with a flat trowel. Occasional air bubbles should be removed with the help of a spiked roller. After the surface has completely dried up, it should be smooth-finished and cleaned from dust.

The Grabo commercial vinyl floorings are compatible with underfloor heating. If underfloor heating is used on the site, the heating system must be switched on at least four weeks before installation of the new flooring. Switch off the underfloor heating 24 hours before commencement of work and keep it turned off till installation of the PVC flooring has been completed. Wait 48 hours after the flooring has been installed and then switch on the heating again. Raise the temperature steadily till it reaches its usual value over approximately 5 days. While using underfloor heating, the temperature of the sub-floor must not exceed 28°C.

In case of installing Grabo Luxury Vinyl Tiles, the suitable subfloor-types of well prepared, levelled plain subfloors:

concrete / cement \bullet anhydrite \bullet plywood \bullet stone, terrazzo, ceramic \bullet solid PVC Do not install over

carpet ullet cushioned, very soft vinyl ullet wooden parquet ullet laminate or other floating floor ullet asphalt and bitumen

INSTALLATION OF GRABO COMMERCIAL VINYL FLOORINGS

While the measured sub-floor moisture content stays within 2.5–5CM%, the use of damp proof membrane Grabo Vaporex is mandatory. If the measured subfloor moisture content is below 2.5%, the use of damp proof membrane Grabo Vaporex with Grabo commercial vinyl floorings can be waived. The use of Grabo Vaporex underlay is advisable in the case of existing concrete bases, vinyl floorings and metal bases and mandatory for asphalt sub-floors.

Installation of Grabo Commercial Vinyl Floorings with Grabo Vaporex:

The underlay must be unrolled and tempered on the site at a temperature of at least 18 °C for one day prior to installation. The Grabo Vaporex underlay should be placed on the even, dry and clean sub-floor prepared according to instructions, with the pattern side facing down. Fold up the edges near the walls for at least 10 centimeters and trim accordingly. Adjust the underlay sheets edge-to edge and then fasten the edges on the top (of the plain side) with a 5 cm wide vinyl adhesive tape. The underlay should lie flat on the surface. While Grabo Vaporex can be laid both lengthwise and crosswise, the crosswise installation is advised. Make sure the underlay joints do not fall together with the seams between the flooring sheets installed on top of the underlay. The Grabo commercial vinyl floorings should be glued to the underlay using a dispersion contact adhesive (e.g. Thomsit K 188E). Spread the adhesive evenly on the underlay surface using an A4 notched trowel, maintaining the spread rate of approximately 200 g/m2. Leave the adhesive to evaporate completely till it changes from opaque to transparent yellow. After approximately 60–90 minutes test it with your finger, and if not anymore

tacky, the adhesive bed is ready to accept the flooring sheets. Further steps (e.g. welding) are the same as described below for the installation of Grabo commercial vinyl floorings without Grabo Vaporex underlay.

INSTALLATION OF GRABO COMMERCIAL VINYL FLOORINGS WITHOUT GRABO VAPOREX:

The flooring must be unrolled and tempered on the site at a temperature of at least 18°C for one day prior to installation. Use the flooring rolls from a similar batch and having the same lot number for installation in the same premises. It is advisable to open the rolls in the ascending order of their lot numbers. When laying the flooring with a wood imitating pattern the subsequent strips should point in the same direction, otherwise lay every next strip with the pattern pointing in the reverse direction compared to the previous row. The arrow on the back side of the roll shows the correct laying direction. After tempering the unrolled floor covering trim the sheets to size on both ends with a 5 cm allowance, then place them on the sub-floor and align precisely edge-to edge. The rolls should be installed lengthwise, following the direction of the sunlight as it falls on the floor. Fold back the flooring strips to half of their length before applying the adhesive.

GLUING

We recommend using solvent-free low emission dispersion adhesives with Grabo commercial vinyl floorings. Two adhering methods can be advised – based on wet set adhesives and contact adhesives.

WFT GLUING

In case of hygroscopic sub-floors (concrete, sand/cement screed) the use of dispersion or emulsion acrylic adhesive is recommended. The adhesive should be stored in frost-free environment and tempered on the site at a temperature of at least 18°C for one day prior to installation. Stir up the adhesive thoroughly before use.

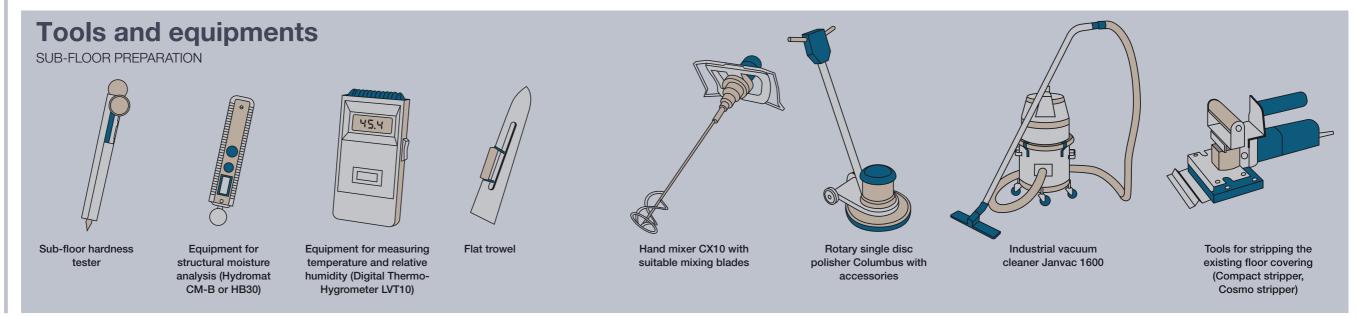
Recommended adhesives: Henkel Thomsit UK 400, Mapei Ultra/Bond ECO 350, F-Ball F/44.

Spread the adhesive on the sub-floor using an A3 or a B1 notched trowel, maintaining the spread rate of approximately 300–400 g/m2. Be sure to check the condition of the notched strips regularly and re-cut as necessary. Always follow the adhesive manufacturer's instructions regarding the optimal quantity, the open time and the drying time of the adhesive. A shorter open time will lead to the appearance of air bubbles, whereas a longer open time will reduce the bonding capacity.

CONTACT GLUING

The use of contact adhesives can be recommended for both hygroscopic subfloors (concrete, sand/cement screed) and impervious (PVC) substrates. Only contact adhesives should be used for impervious sub-floors.

Recommended adhesive: pressure sensitive, water based acrylate glue, like Thomsit K 188E, Uzin KE 2000S, or other brand equivalent with these. Apply the adhesive to the sub-floor and spread evenly using an A2 or A4 trowel and maintaining the spread rate of approximately 200–250 g/m2. Leave the adhesive to evaporate completely till it changes color from opaque to transparent yellow. After approximately 60–90 minutes test it with your finger, and if the adhesive is not tacky anymore, you can start the laving.



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STORAGE & CARE

IN CASE OF VINYL SHEET FLOOR COVERINGS

Start to position the folded back flooring sheet onto the adhesive bed. To ensure good bonding, thoroughly smooth the flooring sheet, working from the center outwards, with the help of a manual cork rubber, confirming no air bubbles are trapped underneath. Finally roll the installed flooring using a 50–60 kg roller. Repeat the sequence to install the other half of the flooring sheet. In order to make site formed coved skirting, draw a line on the wall to mark the height the coving will reach and fit the capping strip to the wall using contact adhesive. Attach the cove former in a similar way: using a brush, apply contact adhesive to the back of the cove former and to the wall up to the capping strip and leave both to dry. When completely dry, firmly push the vinyl with the cove former into place and tuck the top edge into the capping strip.

IN CASE OF LVT

LVT planks are to be installed generally parallel to the main light source, usually this is the longer side. Carefully determine where to begin tile or plank installation. It is customary to centre rooms and hallways so borders are not less than half a tile or plank. In hallways and small places it is simpler to work lengthwise from one end using a centre reference line. Make sure cut edges are always against the wall.

In case of simple surface pattern, measure the size of the room and mark the straight starting line of the installation. The distance of the starting line from the deepest part of the wall should be minimum the width of the plank minus 2-3 cm, or multiple of the width of the plank minus 2-3 cm. Coat the adhesive on the subfloor with the spatula, coated surface should be max. 3-4 rows at the same time and wait until the adhesive will be dry. Make finger test! Follow always the instructions of the glue manufacturer. LVT should be installed by offsetting method. Starting on the starting line, place the LVT pieces side by side, glue them on the subfloor, and closely fit the edges of the planks to each other. If the last piece of LVT is longer then needed, mark and cut the plank installing the cut end next to the wall. The remainder of the LVT which has been cut off can be used to start the next row as long as it is minimum 20 cm. If the last piece in the row is a full plank, start the next row with a cut piece which has minimum 20 cm length, ideal case is to make half cut piece. Against the wall install cut edge piece. Place each LVT piece tight, against the adjoining element, and well embed in the adhesive. The next rows can be started with the pieces cut from the previous rows, minimum size of these pieces are 20 cm. After gluing roll down well the planks with a steel roller as well (weight 50-70 kg) in all directions, forward and back and diagonally. Prepare the skirting at the walls. Skirting can be made from the same LVT plank or from other plastic or metallic skirting, which is in harmony with the design of LVT. Use silicone seals between the joints of LVT and skirting.

WELDING

Welding (in case of sheet vinyl floor coverings) can be performed after no less than 24–48 hours upon installation, depending on the kind of the applied adhesive and the adhesive manufacturer's instructions.

HEAT WEI DING

Application of heat welding is mandatory for wet areas and premises with underfloor heating. When the flooring is ready, the joints should be grooved to appropriate depth and width either manually, or with a power tool. For foam backed vinyl floorings the joints should be grooved to the depth of the upper (outer) layer; for firm dense surfaces the joints should be grooved to the 2/3 of the profile; the recommended groove width is 2–3 mm. The joints should be thoroughly cleaned from any debris. Use ø 4 mm GraboWeld welding rod for heat welding of the commercial vinyl floorings. Set the working temperature of the heat welding gun to approximately 300–400 C°. The welding can be carried out with the help of an automatic appliance or with a hand-operated welding set. Before starting the procedure, trial welding is recommended in order to set the optimal welding temperature and speed. After the welding seam has cooled down, remove the excessive welding rod in two steps. First cut off the top half of the welding rod using a quarter moon knife. After the remaining weld has cooled to the room temperature, perform the final trim.

HEAT WELDING IN THE CORNERS

From the perspective of the flooring external and internal corners are distinguished. Fitting of welds in internal corners can be performed in two ways: either by precision cutting and subsequent silicon filling of the seam, or by "half-rod" welding. In the latter case, the welding rod cut-offs from the first trim can be used to fill in the vertical seams by pressing them into the vertical grooves with the rounded side down and then applying heat coagulation to the joints. The excess welding rod should be trimmed off. It is recommended to pre-heat the coves before welding the joints. Precision cutting is important for external corners as well. Corner welding should be performed with a welding rod.

COLD WELDING

Cold welding is another common technique used for the installation of commercial PVC floorings. This method ensures quick seam closing and is especially suitable for chip floors and all-over surfaces, as it produces an integral seamless covering for large areas. The cold welding technique consists of four steps:

- Place the PVC flooring strips so as they overlap for approximately 3–5 cm. Cut
 the sheets lengthwise along a metal rule and remove the cut-off waste from
 both the top and the bottom layer.
- Center the masking paper tape over the closely cut joints of the PVC strips and press it on tightly with a roller to stop the cold welding paste from sneaking while being filled into the joint.
- Cut through the masking tape simply and firmly along the seam with a circular cutter (or a trapezoid blade).
- 4. Thoroughly shake up the tube with the cold welding paste. Press the nozzle of the cold welding paste tube deeply into the joint with one hand and pull the tube along the joint. Use your other hand to dose the cold welding paste so that an approximately 5 mm wide line appears on the surface of the masking tape. Allow bonding for ten minutes and then remove the masking tape. The result is an almost invisible waterproof seam.

Use Werner Mueller cold welding paste Type A for sealing new PVC floorings and Type C to repair the existing surfaces. Successful cold welding requires the use of the tools and equipment shown in the picture. For details of cold welding technique see your language version of the manufacturer's site: www.mueller-pvc-naht.de

SKIRTING

Plastic skirting is recommended for closing the edges along the walls. If Vaporex damp proof membrane has been used, a 5 mm air gap should be left along the walls during installation of the skirting.

INSTALLATION GUIDE TO GRABO MURAVYL WALL COVERING

The wall surface will be covered by Grabo wall coverings should be clean, dry and dust free. The old wallpaper, old wall covering and old paint should be removed. The holes and hollows should be filled up with gypsum and the unevenness should be diminished. After the gypsum dried out, the surface should be abraded with fine sandpaper and made dust free. The surface should be treated with deep primer, e.g. Henkel "METYLAN". When installing the wall covering, the ideal room temperature is about 18-25°C and the relative humidity is around 50-60%. The installation can be started when the prepared wall (as above) is absolutely dry. The recommended glue type is Henkel Thomsit K 188 E and Uzin KE 2000S or other water based pressure sensitive glue, which has equivalent properties to these brands.

The wall covering should be cut in advance into the required length 24 hours before gluing. We recommend installing the wall coverings on the following way: The wall covering can be installed vertically or horizontally as well. The glue should be applied with spatula A2 teeth onto the wall. (Consumption of glue is approx. 250-300gr/m²) Before putting on the wall covering, you should make so called finger-press test on the glue. When no any particle of glue remains on your finger it is the right time to put the covering on the wall. Always follow the instructions of the manufacturer of the glue, keep waiting time according to the description. Put the wall covering cut to size beside each other so that the rolls cover/lap each other in a 2-3 cm wide stripe. The hanging should be made with the help of the special brush, smoothing roller, rubber roller. The smoothing always should start from up to down direction and from the middle toward the edges. The air bubbles should be perfectly and carefully smoothed out from under the wall covering.

After this you should cut the middle of the lapped 2-3 cm stripe (where the wall stripes meet) with a very sharp knife and with the help of a steel ruler. The cutting should be carried out on that way that the knife should cut both layers. Then the edges of the wall covering slightly should be raised so that the narrow stripes could be peeled off. This process should be made very carefully and slowly, so that there

must be only 1 cut stripe. Then we smooth down again the edges (from up to down), and remove the residues of the glue if there is any, with a soft, wet sponge immediately. Should there glue residues remain on the surface of the wall covering you should remove it immediately by a wet, soft sponge.

We recommend cold welding or hot welding process to make the joints water-proof. Welding process can be started 24 hours after gluing.

CLEANING AND MAINTENANCE

GENERAL NOTES

Regular cleaning and maintenance are crucial for the durability and attractive appearance of your flooring. The floor maintenance schedule is primarily determined by the intensity of the traffic load. Routine (daily) cleaning and periodical general maintenance are inclispensable for preservation of the long-term appearance and performance of Grabo floor coverings. Apart from the approved maintenance products listed in this guide, other cleansers with similar parameters (chemical formulation and pH-value) are also compatible for use with Grabo commercial vinyl floorings. Do not use cleaning products that could damage the surface, e.g. abrasive cleaners or organic solvent-based detergents. As a general rule, always follow the detergent manufacturers' instructions and contact them for additional details when required. Cleaning and maintenance procedures for Grabo safety floorings are described in a separate user quide.

PREVENTIVE MEASURES

Most of the dirt, grit and moisture that will need to be cleaned from the floor surface arrive from the street. The majority of this soiling can be kept outside by using efficient dirt barrier systems of appropriate size. The maintenance regime depends to a great extent on how efficiently the dirt is stopped at the front door. Another point to consider is the use of high-quality heavy-duty plastic pads ("footies") to be attached to furniture legs to protect the floor from scratching. The newly installed floor covering needs a basic cleaning that should be later repeated between certain periods of use.

BASIC AND PERIODICAL CLEANING BY MACHINE

Remove solid dirt from the surface by sweeping or vacuum-cleaning. Tools: alkaline cleaning detergent, mono-disc cleaning machine with red pad and

damp sweeping equipment. TECHNOLOGY OF BASIC/PERIODICAL CLEANING

The cleaning solution should be dispersed on a surface of 5-10 m2 area and should be scrubbed after an acting time of 10-15 minutes. Then the cleaning agent should be absorbed, the surface should be rinsed with clean water, and lastly, the water should be absorbed again. The periodical cleaning should be done with a frequency according to the grade of use.

DAILY CLEANING

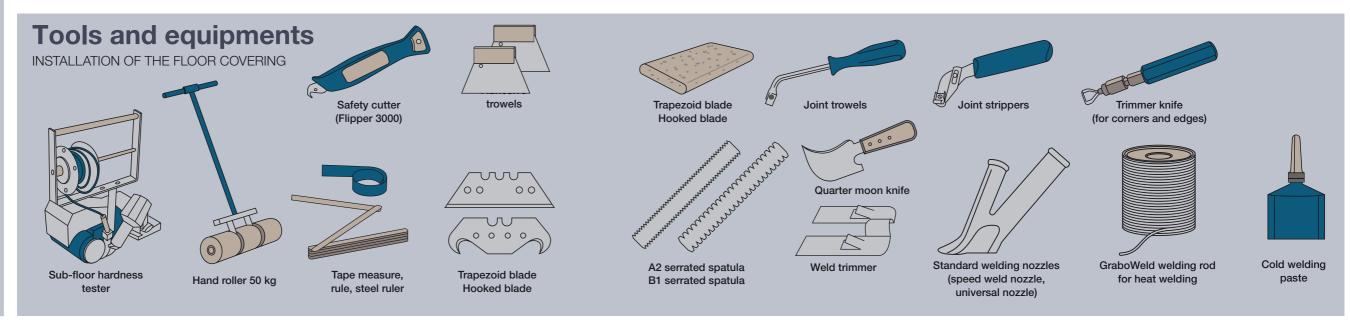
Remove solid dirt from the surface by sweeping or vacuum-cleaning then make wet cleaning manually or with a mono-disc machine with white pad.

MANUAL WET CLEANING:

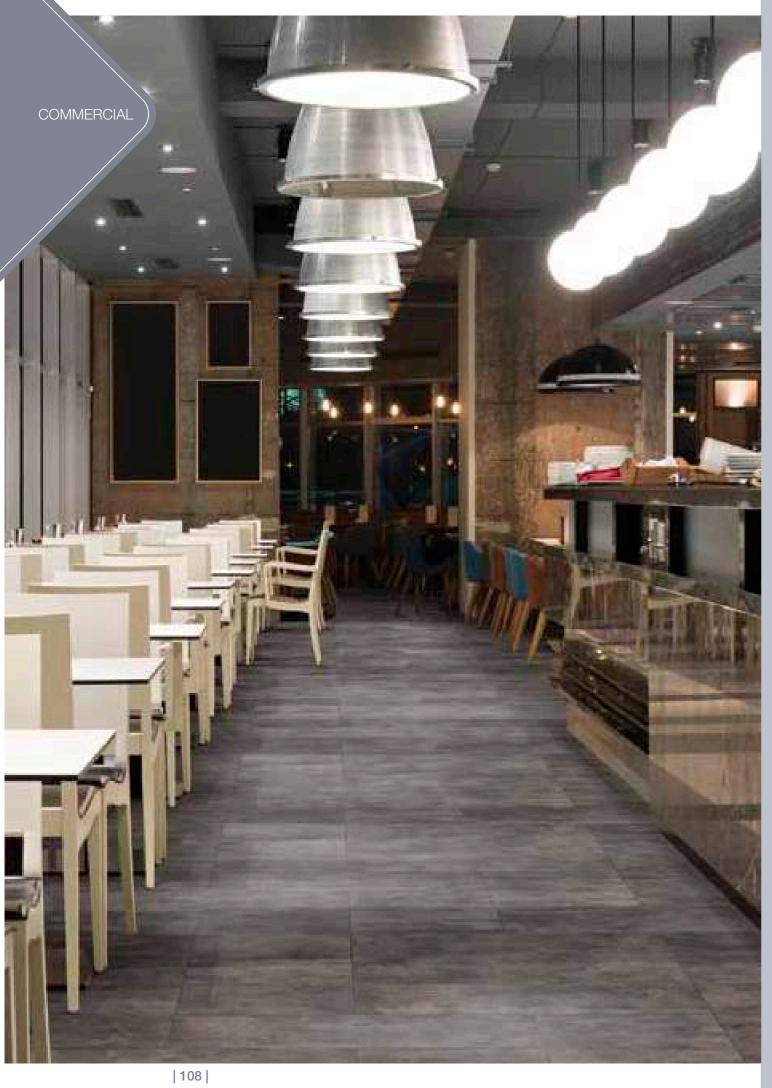
Tools: mop, (microfiber mop is the best), damp sweeping equipment, cleaning agent (generally neutral or light alkaline detergent) Cleaning should be performed with the two-bucket method.

MECHANICAL WET CLEANING:

For daily mechanical cleaning use mono-disc cleaning machine with white pad. Use neutral or light alkaline cleaning agent. Never use abrasive products and any material that risks damaging of the surface. Never use rubber caps on furniture legs in order to avoid discoloration of the floor covering.



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GRABO Commercial VINYL FLOORINGS AND WALL COVERINGS





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