



rubber flooring

the quality that lasts as time goes by



company

INDELVAL: QUALITY, DURABILITY AND MODERN DESIGNS IN RUBBER FLOORING.

Indelval has been exclusively dedicated to the manufacture of high-quality rubber flooring for more than 30 years, accompanying and challenging the tendencies of modern architecture.

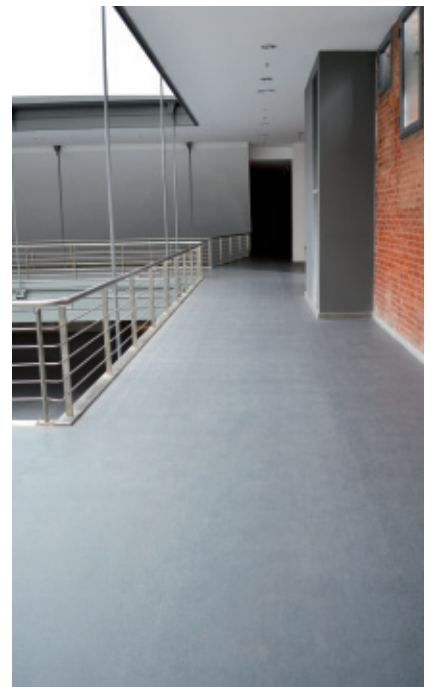
Constant commitment to the development of improved products has resulted in Indelval being acceptance around the world.

Indelval rubber floorings are manufactured with the highest quality and their extreme wear resistance make them ideal in the most demanding environments.

Decades of experience in close collaboration with building professionals and facility managers have turned Indelval into one of the most prestigious and innovative rubber flooring manufacturers in the world.

The development of a high pressure system for rolls and tiles, along with its modern facilities, allows Indelval to have an incomparable flexibility and quick response.

Indelval offers a wide range of flooring solutions for many environments such as healthcare, education, office, retail, multi-purpose halls and transport (bus, train, vans).





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rubber soul

HIGH QUALITY RAW MATERIAL

Rubber is a raw material used for many products that require outstanding performance. Car tires, industrial seams, medical supplies and even baby bottles are based on rubber. It makes the difference in products with very demanding requirements.

Main compounds used to produce Indelval rubber flooring are natural rubber, a rapidly renewable material extracted from the sap of tropical trees, high quality synthetic rubber, mineral fillers and eco-compatible color pigments from natural sources.

Natural rubber is extracted manually by cutting the bark of rubber tropical tree. This white latex sap is a polymer with elastic properties. This is an essential part of the mix of high quality rubber. Main supply sources are located in Southeast Asia.

Industrial, or synthetic rubber, is also used. These are manufactured through polymerization of refined oil products. This method allows the production of rubber with very specific properties for industrial applications.

The mix of these two types of rubber, combined with mineral fillers from natural sources and other components, results in special compounds for specific applications, including Indelval rubber flooring.

The critical process to transform this mix of rubber is called vulcanization. This process, under controlled conditions of high pressure, time and temperature, is an integral part of the process that transforms the rubber into sheet and tile flooring resulting in high durability and elasticity.







sustainability

Sustainability and environmental care are not just words. They are a fundamental part of the Indelval corporate culture, transformed into actions day after day. Our most important material is natural rubber, a rapidly renewable resource from the sap of the tropical rubber tree.

Both natural rubber and the synthetic rubber used in the manufacture of Indelval rubber flooring are free of PVC, plasticizers (phthalates), formaldehyde, heavy metals, asbestos and halogens (i.e. Chlorine). The sustainability of our floor coverings are enhanced by the use of eco-compatible color pigments and mineral fillers from natural sources.

The manufacturing process of many Indelval rubber flooring includes recycled material content from pre- and post-consumer sources in to the benefit of a better environment.

Indelval rubber flooring's extremely long lifecycle and ease of maintenance not only offer a better cost/benefit relation but also result in low consumption of environmental resources. Our floorcoverings, due to their longlife and durability, don't have to be replaced often. Ease of maintenance reduces water consumption as well.

Indelval has ISO 14001 certification for environmental management system and ISO 9001 for quality system. These certifications are subject to regular independent auditing.

Prestigious independent institutions (i.e. IRAM, INTI, IQNet, USGBC and Green Certified MAS) and several technical tests support our environmental activities.

At Indelval social and environmental responsibilities are supported by actions and attitudes beyond words.





characteristics

OF INDELVAL RUBBER FLOORING

Performance

- Extreme durability.
- Outstanding wear resistance.
- Extremely long lifecycle compared to other resilient flooring.
- Antistatic.
- High resistance to chemicals.
- Dimensionally stable. No joint sealing is necessary.
- A wide range of designs, colors and finishes.

Maintenance Advantages

- Economical and easy to clean.
- Extremely dense surface.
- No need to apply acrylic coatings.
- Reduce water consumption and improves the cost/benefit relation of the installed flooring.

Comfort and safety

- Anti slip properties.
- Walking comfort: flexibility and permanent resilience.
- Resistant to cigarette burns. No damage on the surface. Nicotine stains can be easily removed.
- Free of PVC, plasticizers (phthalates), halogens (i.e. chlorine), formaldehyde and heavy metals.
- Free of asbestos.
- In case of fire, do not generate hydrogen chloride, dioxins, furans and cyanide derives, which are very hazardous for people and equipment.
- High sound absorption when walking.
- Extremely dense surface preventing the growth of mites and bacteria.
- No emissions of hazardous substances that may damage people's health. Low emission of volatile organic compounds (VOC) according to the standard CA Section 01350.

Environmental compatibility

- Manufacturing processes eco-compatible – does not generate toxic agents during the production (gas, solids or liquids).
- Includes high recycled content from post-consumer and pre-consumer sources.
- Packaged with recycled materials.
- Eco-compatible raw materials: natural rubber is a rapidly renewable source.
- Use of eco-compatible color pigments and mineral fillers from natural sources.
- Natural and synthetic rubbers used in the manufacturing of Indelval rubber flooring are free of PVC, plasticizers (phthalates), formaldehyde, heavy metals, asbestos, halogens (i.e. chlorine).

For special applications

- Electrostatic conductive for ESD control.
- Extremely resistant to impact.
- Interlocked loose-laying tile.
- Raised access floors solutions.
- Indoor sports floorings for multipurpose use.
- Visually impaired assistance.



MRI | El Cruce Hospital | B.A. | ARGENTINA

economic performance

TANGIBLE BENEFITS DURING INSTALLATION AND USE

ECONOMIC EFFICIENCY DURING USE

- Extremely long lifecycle.
- Extremely good wear resistance.
- High footfall sound absorption.
- Dimensionally stable. No joint sealing is necessary.
- Efficient cleaning due to the exclusive high pressure system, in rolls and tiles, that results in an extremely dense surface not requiring the application of acrylic coatings.

ECONOMIC EFFICIENCY DURING INSTALLATION

- Easy installation: commonly used tools and materials.
- Weights and nominal dimensions easy to handle.
- Technical support service: back up during all the stages of the project (planning, subfloor preparation, installation and cleaning and maintenance), including installation training courses.

For more information | www.indelval.com



Indelval's great experience and the top quality of our rubber floorings become tangible economic advantages during installation and use.





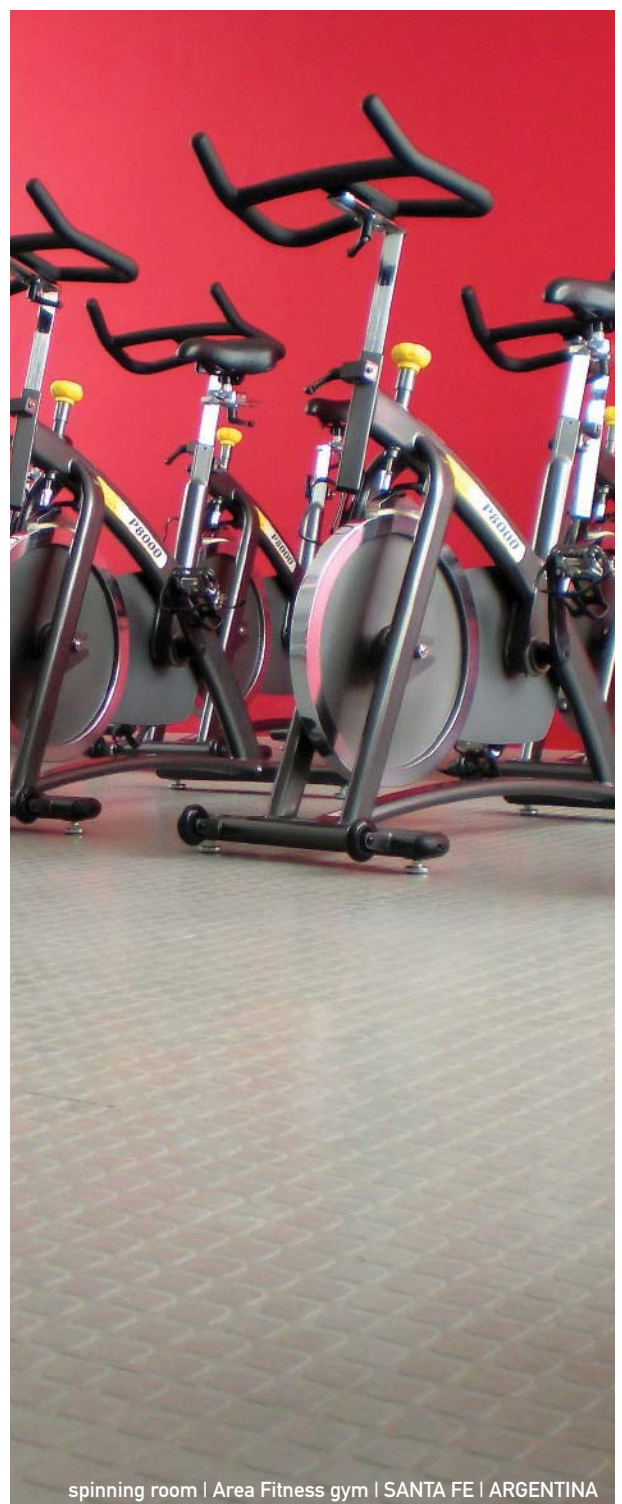
showroom sales | Porsche | B.A. | ARGENTINA

design

LIMITS BEYOND IMAGINATION.

Combination possibilities are almost infinite. Indelval rubber floorings offer a wide range of standard colors, modern and attractive designs together with specially designed surfaces to fulfill the highest demands.

- More than 120 standard colors.
- More than 8 types of surfaces.
- More than 1000 possible combinations.
- Technical solutions with harmonious designs.



spinning room | Area Fitness gym | SANTA FE | ARGENTINA



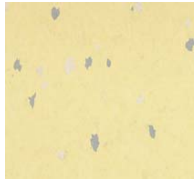


main hall | Xining Cardiovascular Disease Hospital | CHINA



Juan Manuel Fangio museum | B.A. | ARGENTINA

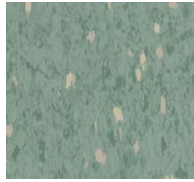
chronos plus



0709 | FENIX



0710 | IRIS



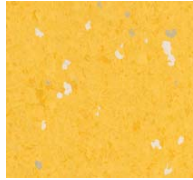
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0712 | GERION



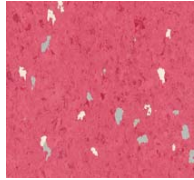
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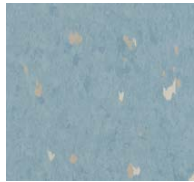
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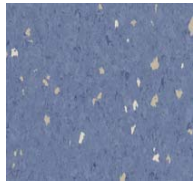
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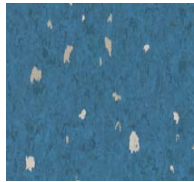
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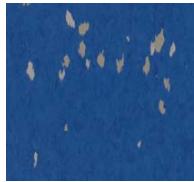
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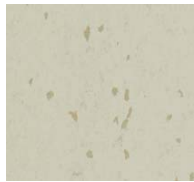
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0707 | DIONISIO



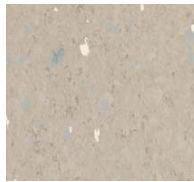
0708 | POSEIDON



0713 | HELENA



0714 | EUROPA



0715 | FEDRA



0716 | ARGOS



0717 | GEA



0718 | ICARO



0719 | CENTAUROS



0720 | HORAS



0721 | HIPNOS







0722 | ADONIS

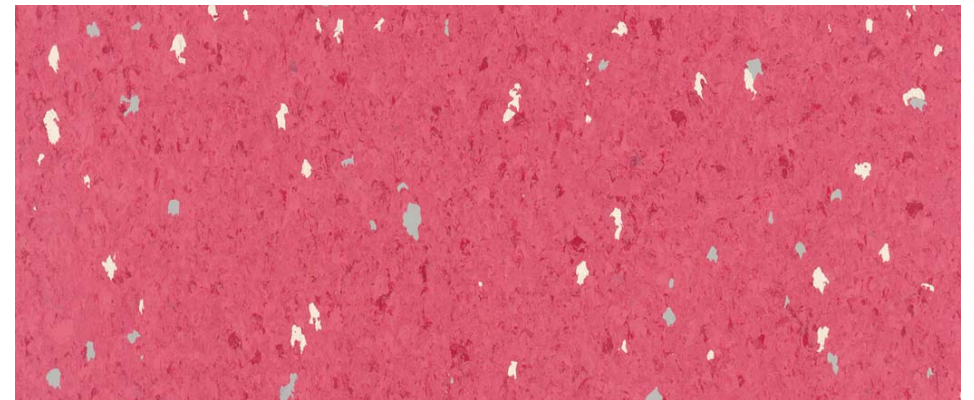


0723 | ZEUS



0724 | EDIPO

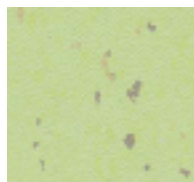
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2212-02		61 x 61 cm	20 units	
2212-03		1.12 x 12 m≅	1 sheet	
2212-35	Homogeneous I 3.0 mm	50 x 50 cm	20 units	5.1 kg/m ²
2212-36		61 x 61 cm	20 units	
2212-37		1.12 x 12 m≅	1 sheet	
2212-28	Double backing I 3.0 mm	50 x 50 cm	20 units	5.1 kg/m ²
2212-29		61 x 61 cm	20 units	
2212-30		1.00 x 12 m≅	1 sheet	



chronos tx



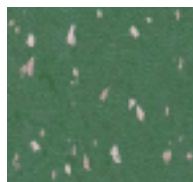
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0712 | GERION



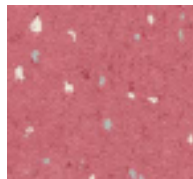
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0702 | ATENEA



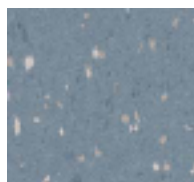
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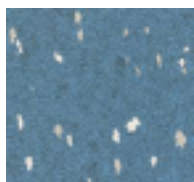
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0705 | ATLAS



0706 | EROS



0707 | DIONISIO



0708 | POSEIDON



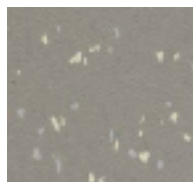
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0714 | EUROPA



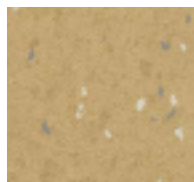
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0716 | ARGOS



0717 | GEA



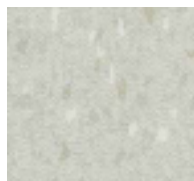
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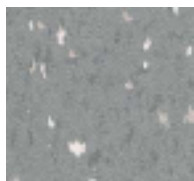
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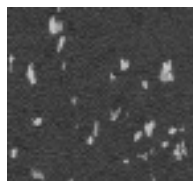
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0722 | ADONIS

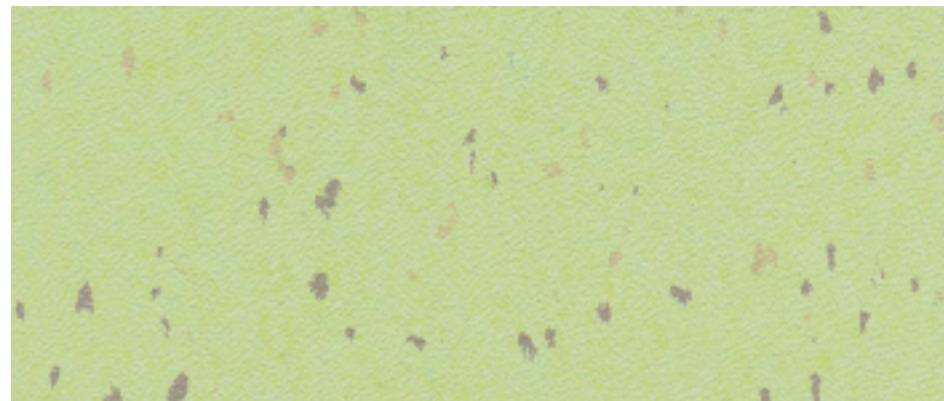


0723 | ZEUS



0724 | EDIPO

Art.				
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2112-02		61 x 61 cm	20 units	
2112-03		1.12 x 12 m \approx	1 sheet	
2112-35	 3.0 mm	50 x 50 cm	20 units	5.1 kg/m ²
2112-36		61 x 61 cm	20 units	
2112-37		1.12 x 12 m \approx	1 sheet	
2112-28	 3.0 mm	50 x 50 cm	20 units	5.1 kg/m ²
2112-29		61 x 61 cm	20 units	
2112-30		1.00 x 12 m \approx	1 sheet	



geo plus



0401 | ALASKA



0407 | ARABIA



0416 | SAHARA



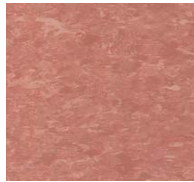
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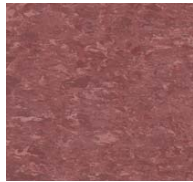
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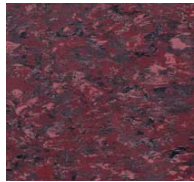
0412 | TIBET



0411 | ISLANDIA



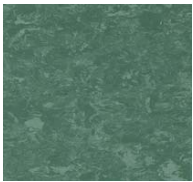
0403 | ANTILLA



0410 | TROPICO



0415 | NORMANDIA



0414 | NILO



0402 | AMAZONAS



0413 | JAVA



0418 | ATLANTICO



0406 | BIRMANIA










0409 | DANUBIO



0417 | SIBERIA



0419 | TERRANOVA

Art.				
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2215-02	Homogeneous	61 x 61 cm	20 units	3.6 kg/m ²
2215-03		1.12 x 12 m≅	1 sheet	
2215-35	 I 3.0 mm	50 x 50 cm	20 units	
2215-36	Homogeneous	61 x 61 cm	20 units	5.1 kg/m ²
2215-37		1.12 x 12 m≅	1 sheet	
2215-28	 I 3.0 mm	50 x 50 cm	20 units	
2215-29	Double backing	61 x 61 cm	20 units	5.1 kg/m ²
2215-30		1.00 x 12 m≅	1 sheet	





0401 | ALASKA



0407 | ARABIA



0416 | SAHARA



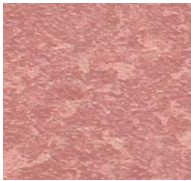
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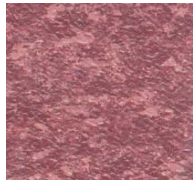
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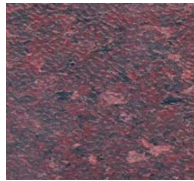
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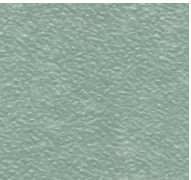
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0403 | ANTILLA



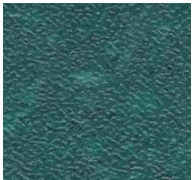
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0415 | NORMANDIA



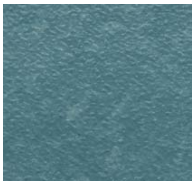
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0402 | AMAZONAS



0413 | JAVA



0418 | ATLANTICO



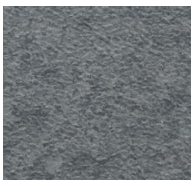
0406 | BIRMANIA







0409 | DANUBIO



0417 | SIBERIA

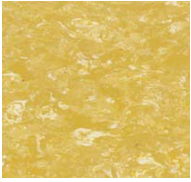


0419 | TERRANOVA

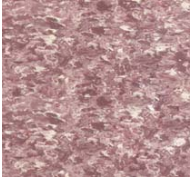
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2115-02		61 x 61 cm	20 units	
2115-03		1.12 x 12 m \approx	1 sheet	
2115-35	Homogeneous	50 x 50 cm	20 units	5.1 kg/m ²
2115-36		61 x 61 cm	20 units	
2115-37		1.12 x 12 m \approx	1 sheet	
2115-28	Double backing	50 x 50 cm	20 units	5.1 kg/m ²
2115-29		61 x 61 cm	20 units	
2115-30		1.00 x 12 m \approx	1 sheet	



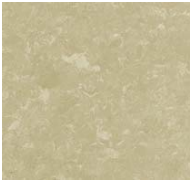
ecoval plus



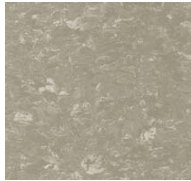
0154 | SOLAR



0150 | BOREAL



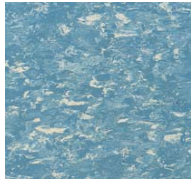
0158 | NATURAL



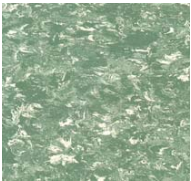
0149 | BEIGE DUNA



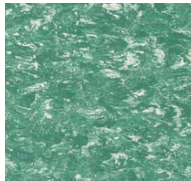
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0144 | CRISTAL



0155 | CAMPUS








0146 | VERDE ALGA

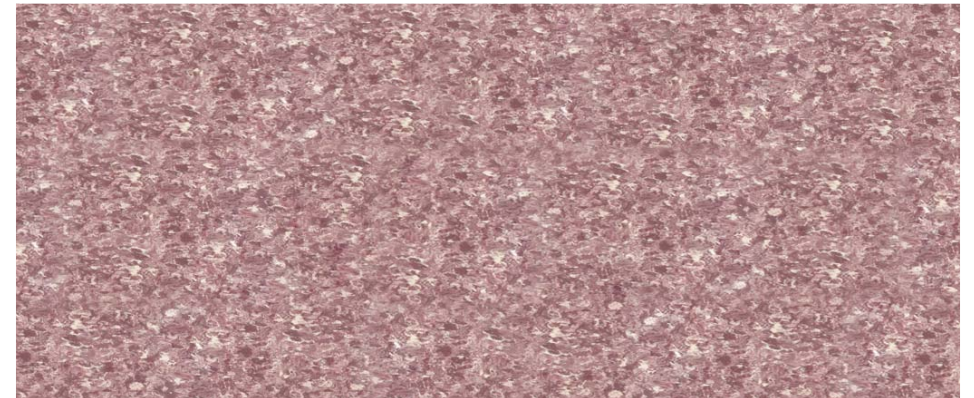


0157 | LUMINA

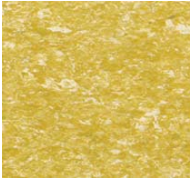


0142 | GRIS ESPACIAL

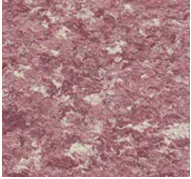
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2214-03		1.12 x 12 m \approx	1 sheet	



ecoval tx



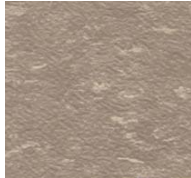
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0150 | BOREAL



0158 | NATURAL



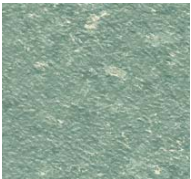
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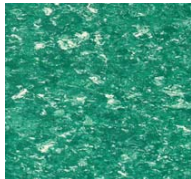
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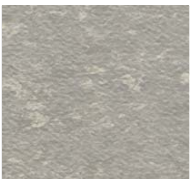
0144 | CRISTAL



0155 | CAMPUS








0146 | VERDE ALGA



0157 | LUMINA



0142 | GRIS ESPACIAL

Art.				
2114-01		50 x 50 cm	20 units	
2114-02	 2.0 mm	61 x 61 cm	20 units	3.6 kg/m ²
2114-03	Homogeneous	1.12 x 12 m \approx	1 sheet	



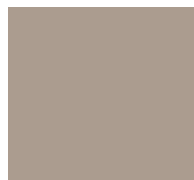
indelcol plus



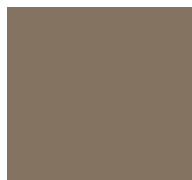
0057 | CREMA - C



0033 | BEIGE - C



0046 | TOSTADO - C



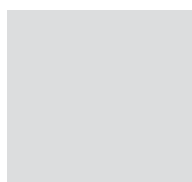
0058 | MALTA - C



0048 | DURAZNO - C



0021 | TERRACOTA - B



0055 | PERLADO - C



0059 | FRAMBUESA - D



0049 | COLA - D



0061 | LACAR - C



0060 | CELESTE - C



0031 | GLACIAR - C



0011 | NEVADO - B









0008 | AZUL - D



0028 | COBALTO - D



0019 | BLACK - A

Art.				
2220-01		50 x 50 cm	20 units	
2220-02	 2.0 mm	61 x 61 cm	20 units	3.5 kg/m ²
2220-04		1.00 x 12 m \approx	1 sheet	
2220-28		50 x 50 cm	20 units	
2220-29	 3.0 mm	61 x 61 cm	20 units	4.9 kg/m ²
2220-30		1.00 x 12 m \approx	1 sheet	

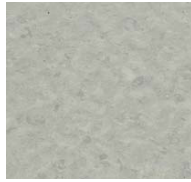


* Indelcol plus solid colors are appropriate for accents and borders only.

geo hm



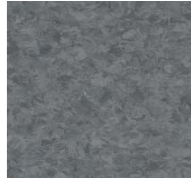
0401 | ALASKA



0405 | ARTICO



0417 | SIBERIA



0419 | TERRANOVA



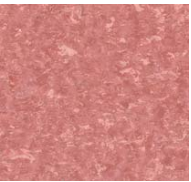
0407 | ARABIA



0416 | SAHARA



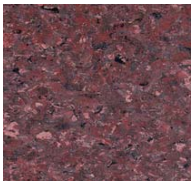
0412 | TIBET



0411 | ISLANDIA



0403 | ANTILLA



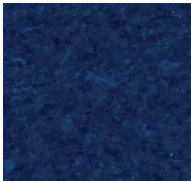
0410 | TROPICO



0409 | DANUBIO



0418 | ATLANTICO



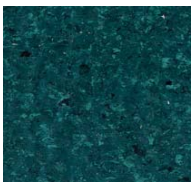
0406 | BIRMANIA








0414 | NILO



0413 | JAVA

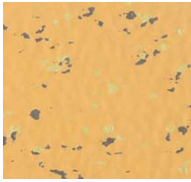


0402 | AMAZONAS

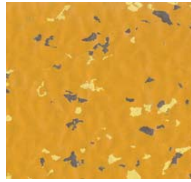
Art.				
1715-53	 I 3.5 mm Homogeneous	1.00 x 1.00 m	6 units	6.0 kg/m ²



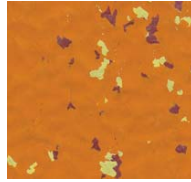
viva hm



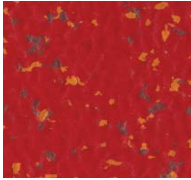
0520 | DESERT



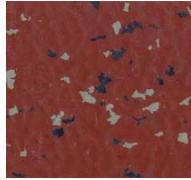
0519 | BRONZE



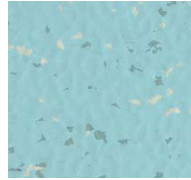
0507 | FLAME



0521 | POPPY



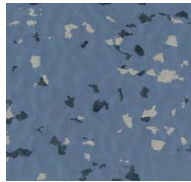
0508 | LAVA



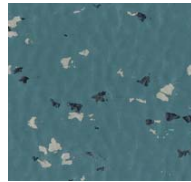
0511 | CARIBBEAN



0518 | SEA GREEN



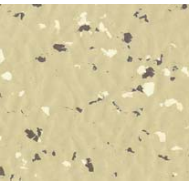
0512 | CASPIAN



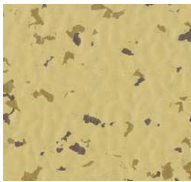
0513 | MEDITERRANEAN



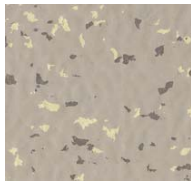
0514 | PACIFIC



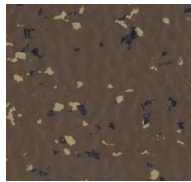
0503 | SAND



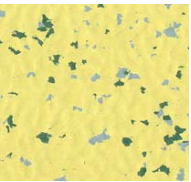
0504 | LOAM



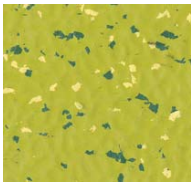
0505 | CLAY



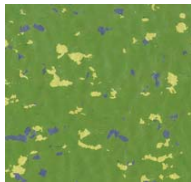
0506 | EARTH



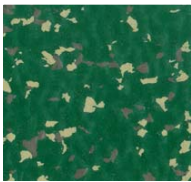
0517 | MOSS



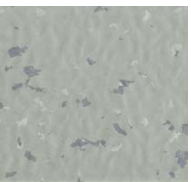
0509 | CONGO



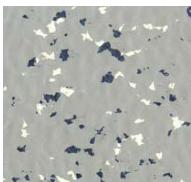
0516 | FERN



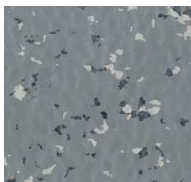
0510 | RAIN FOREST



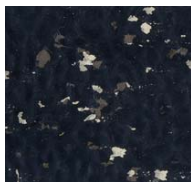
0515 | SMOKE







0500 | ASH

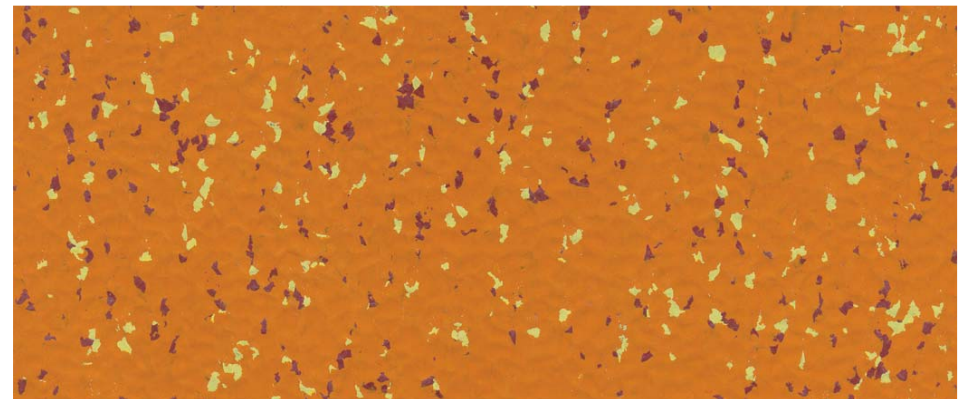


0501 | GRAVEL



0502 | QUARRY

Art.				
1722-53	Homogeneous 3.5 mm	1.00 x 1.00 m	6 units	6.0 kg/m ²



cerama | deco | clasica hm | leganti | textura



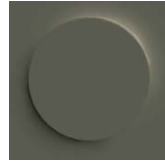
0045 | CRUDO - C



0033 | BEIGE - C



0046 | TOSTADO - C



0018 | CHOCOLATE - B



0047 | CAFE - C



0048 | DURAZNO - C



0021 | TERRACOTA - B



0029 | MODENA - C



0049 | COLA - D



0019 | BLACK - A



0044 | AMARILLO
ESPACIAL - C



05031 | GLACIAR - C



0050 | VERDE CROMO - D



0051 | LAVANDA - C



0001 | ROJO - D



0052 | MAR - C



0053 | TOPACIO - C



0054 | MUSGO - C



0034 | ADRIATICO - C



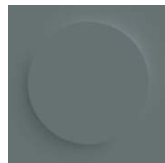
0028 | COBALTO - D



0055 | PERLADO - C



0061 | LACAR - C



0007 | GRIS - B



0025 | CHARCOAL - B



0056 | PELTRE - B

cerama



hm



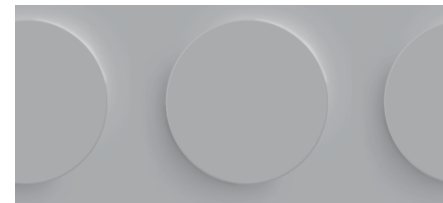
deco



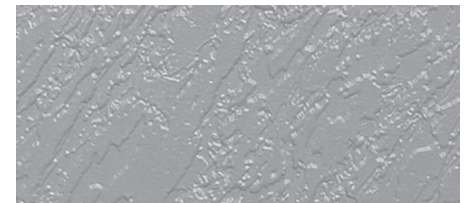
leganti



clasica



textura











main hall | UADE University | B.A. | ARGENTINA







cerama



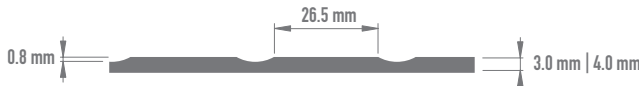
Art.				
1021-35	 Homogeneous 3.0 mm	50 x 50 cm	20 units	4.4 kg/m ²
1021-28	 Double backing 3.0 mm	50 x 50 cm	20 units	4.8 kg/m ²






deco



Art.				
1321-41	 Homogeneous 3.2 mm	50 x 50 cm	20 units	4.2 kg/m ²
1321-59	 Double backing 4.0 mm	50 x 50 cm	20 units	5.8 kg/m ²

clasica









Art.				
1221-35	 Homogeneous 3.0 mm	50 x 50 cm	20 units	4.3 kg/m ²
1221-66	 Homogeneous 4.0 mm	50 x 50 cm	20 units	5.6 kg/m ²
1221-28	 Double backing 3.0 mm	50 x 50 cm	20 units	4.3 kg/m ²
1221-59	 Double backing 4.0 mm	50 x 50 cm	20 units	5.6 kg/m ²

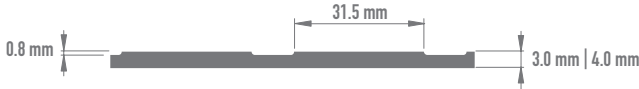










hm



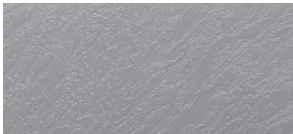
Art.				
1721-25	 I 2.7 mm Homogeneous	1.00 m x 1.00 m	6 units	4.4 kg/m ²
1721-26	 I 2.7 mm Double backing	1.00 m x 1.00 m	6 units	4.8 kg/m ²







leganti



Art.				
1821-35	 I 3.0 mm Homogeneous	50 x 50 cm	20 units	4.3 kg/m ²
1821-66	 I 4.0 mm Homogeneous	50 x 50 cm	20 units	5.9 kg/m ²
1821-28	 I 3.0 mm Double backing	50 x 50 cm	20 units	4.3 kg/m ²
1821-59	 I 4.0 mm Double backing	50 x 50 cm	20 units	5.9 kg/m ²

textura



Art.				
2421-35	 I 3.0 mm Homogeneous	50 x 50 cm	20 units	4.4 kg/m ²
2421-28	 I 3.0 mm Double backing	50 x 50 cm	20 units	4.8 kg/m ²



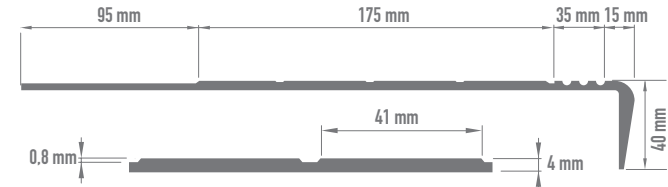
stairtread system

cerama tread | deco tread | solval

+ info | color range available refer to studded tiles - page 32

stair | Megallon Nuñez gym | B.A. | ARGENTINA

cerama tread



Art.



1121-68

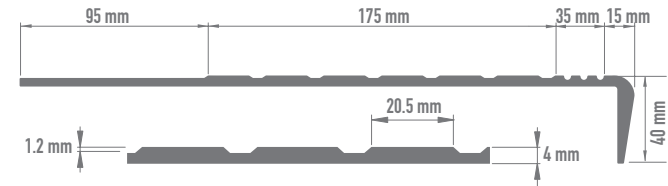
Homogeneous | 4.0 mm

122 x 32 x 4 cm

10 units

2.2 kg/uni

deco tread



Art.



1421-68

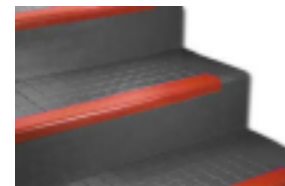
Homogeneous | 4.0 mm

122 x 32 x 4 cm

10 units

2.4 kg/uni

solval



Art.



2321-33

Double backing | 3.0 mm

8,4 x 1000 cm

1 sheet

0.4 kg/ml

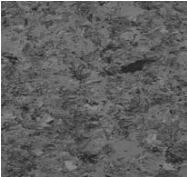
special applications

m2000 conductive plus

for ESD control



0600 | C100



0607 | C7



0605 | C5



0609 | C9



0610 | C10



0608 | C8









0611 | C11



0601 | C1



0603 | C3

Art.				
2217-16	 2.5 mm	61 x 61 cm	20 units	3.9 kg/m ²
2217-17	Double backing	1.00 x 12 m \approx	1 sheet	
2217-29	 3.0 mm	61 x 61 cm	20 units	4.6 kg/m ²
2217-30	Double backing	1.00 x 12 m \approx	1 sheet	



special applications

ecosport tx

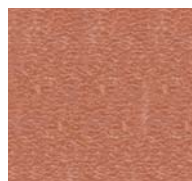
for multipurpose sport areas



0650 | BEIGE



0651 | VERDE









0652 | TERRACOTA



0654 | CELESTE



0653 | AZUL

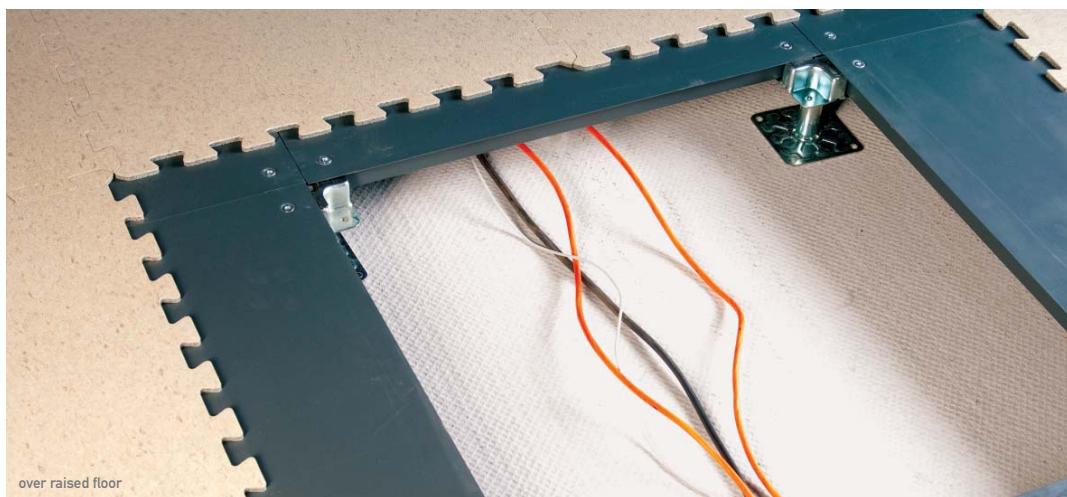
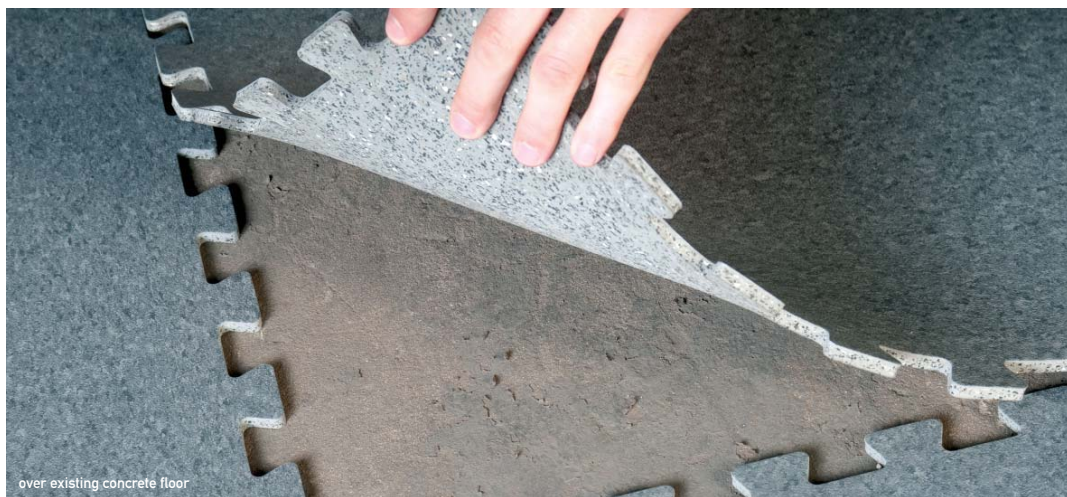
Art.				
2113-61	 4.0 mm Double backing	1.00 x 12 m \approx	1 sheet	6.6 kg/m ²
2113-79	 7.0 mm Double backing	1.00 x 9 m \approx	1 sheet	11.2 kg/m ²



special applications

se | interlocked tile

interlocked tile



Double backing I 7.0 mm	1.00 X 1.00 m 50 x 50 cm	3 units 8 units	11.2 kg/m ²



It has a simple and practical installation system requiring no adhesive. Therefore it is transportable and also easy to be remove whenever is needed.

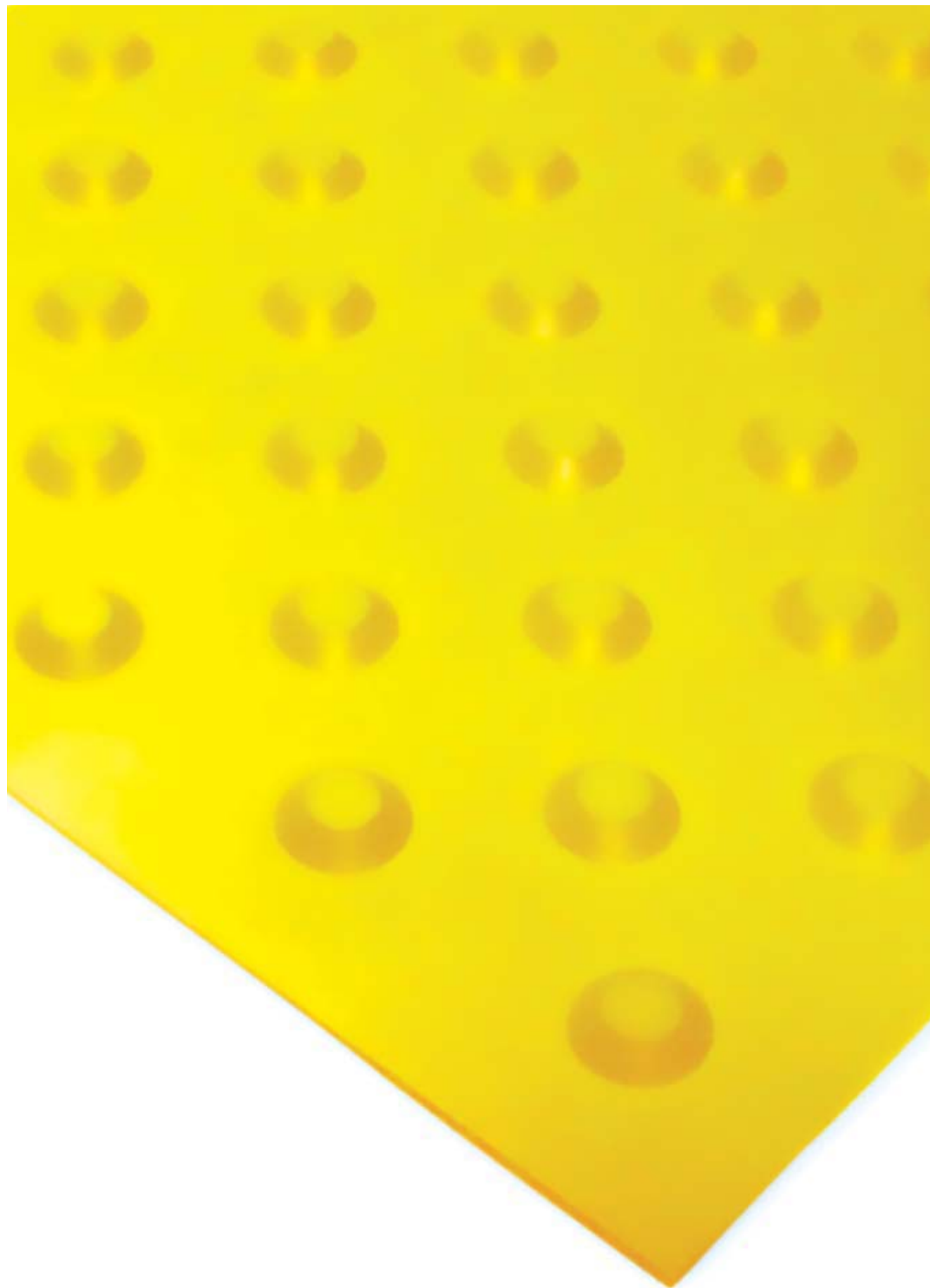
Interlocked tile system is available in the following product lines

geo tx se
Art. 2115-76 | 1.00 x 1.00 m Art. 2115-78 | 50 x 50 cm

ecosport tx se
Art. 2113-76 | 1.00 x 1.00 m Art. 2113-78 | 50 x 50 cm

chronos tx se
Art. 2112-76 | 1.00 x 1.00 m Art. 2112-78 | 50 x 50 cm





special applications

guia

visually impaired assistance

Art.				
2921-80 STOP	I 7.0 mm Homogeneous	30 x 30 cm	8 units	0.52 kg/uni
3021-80 GO	I 7.0 mm Homogeneous	30 x 30 cm	8 units	0.56 kg/uni
2821-80 ALT	I 7.0 mm Homogeneous	30 x 30 cm	8 units	0.45 kg/uni

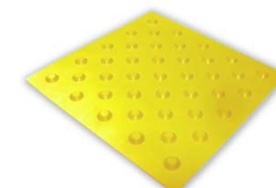
stop



go



alt

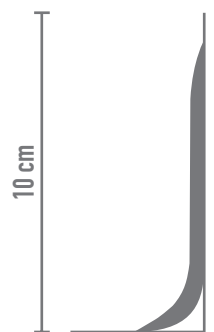


acesories

traditional wall base

It is the final touch for detailed installation finished.

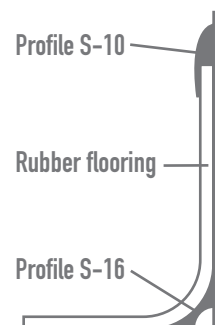
The traditional wall base is flexible and extremely durable.



profiles for sanitary system

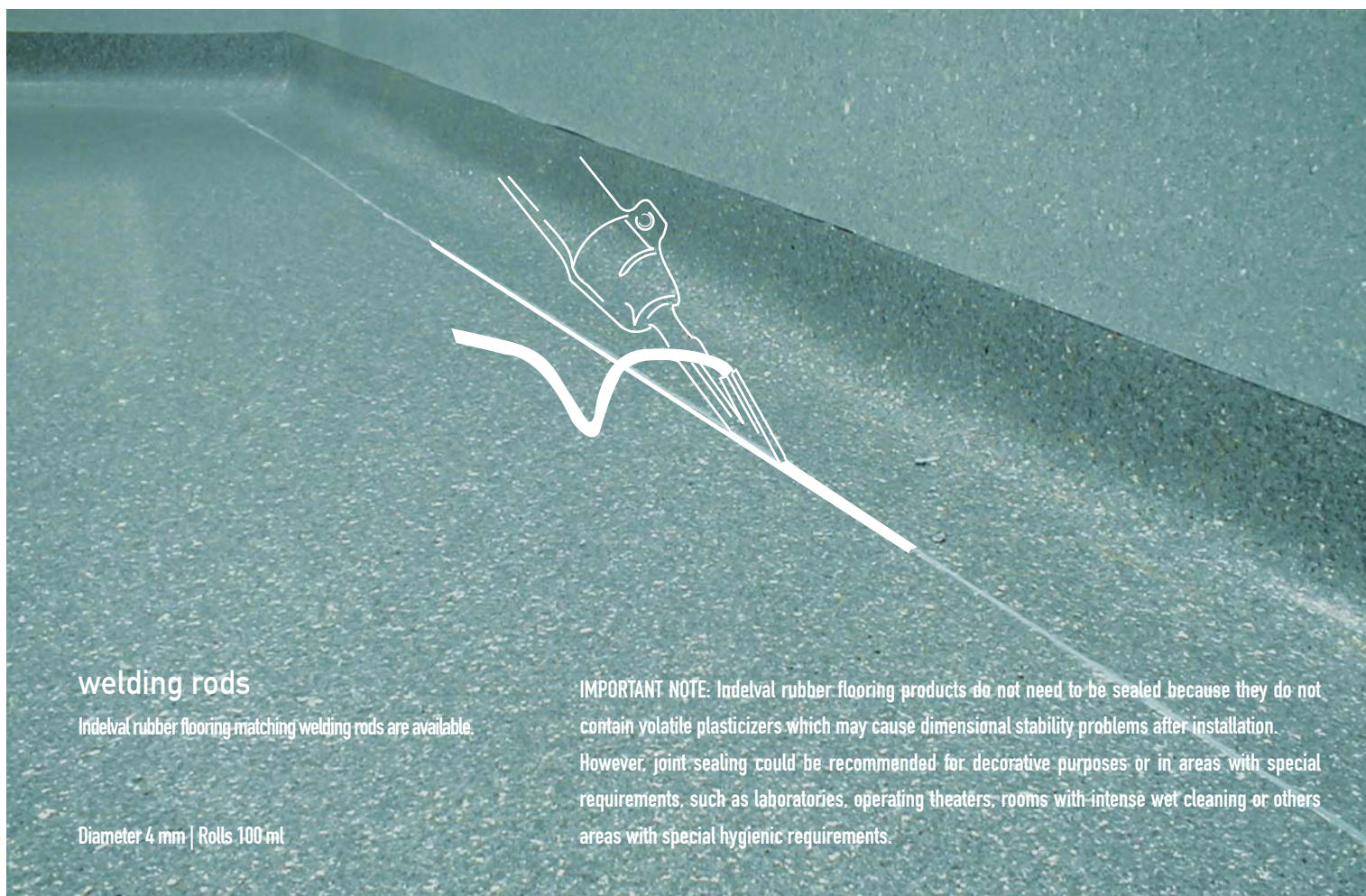
Profile S -10 This piece was developed to complete the sanitary skirting board in order to avoid horizontal edges where dirt could be placed.

Profile S -16 This piece shapes the sanitary skirting board, allowing installation of rubber flooring on it.





dental boxes | Pekin University School & Hospital of Stomatology | CHINA



welding rods

Indelval rubber flooring matching welding rods are available.

Diameter 4 mm | Rolls 100 ml

IMPORTANT NOTE: Indelval rubber flooring products do not need to be sealed because they do not contain volatile plasticizers which may cause dimensional stability problems after installation. However, joint sealing could be recommended for decorative purposes or in areas with special requirements, such as laboratories, operating theaters, rooms with intense wet cleaning or others areas with special hygienic requirements.

Solution type	Sheet system			
	Products	geo plus tx 2.0 mm	geo plus tx 3.0 mm	geo plus tx 3.0 mm
		chronos plus tx 2.0 mm	chronos plus tx 3.0 mm	chronos plus tx 3.0 mm
		ecoval plus tx 2.0 mm		indelcol plus 3.0 mm
		indelcol plus 2.0 mm		
Formulation		37000	37000	37200
Layers		Homogeneous	Homogeneous	Double backing

Characteristics	Test method	Requirements	Average test results from manufacturing control		
CE					
CE conformity	EN 14041		INDELVAL SAIC - Buenos Aires, ARGENTINA		
Dynamic coefficient of friction	EN 13893	DS	DS	DS	DS
Reaction to fire	EN 13501-1	not bonded	-	-	-
Reaction to fire	EN 13501-1	bonded	Bfl-s1	Bfl-s1	Bfl-s1
Standard specification			EN 1817	EN 1817	EN 1817
Thickness	EN 428	Mean value $\pm 0,15$ mm	2,0 mm	3,0 mm	3,0 mm
Dimensional stability	EN 434	$\pm 0,4$ %	Passes	Passes	Passes
Cigarette burn resistance	EN 1399	Proc. A \geq level 4 Proc. B \geq level 3	Passes	Passes	Passes
Flexibility	EN 435, proc. A	Mandrel diam 20 mm, No fissuring	Passes	Passes	Passes
Hardness	ISO 7619	≥ 75 Shore A	≥ 85 Shore A	≥ 85 Shore A	≥ 85 Shore A
Residual indentation	EN 433	Mean value $\leq 0,15$ mm (thickness $< 2,5$ mm)	0,05 mm	-	-
		Mean value $\leq 0,20$ mm (thickness $\geq 2,5$ mm)	-	0,08 mm	0,08 mm
Abrasion resistance	ISO 4649, proc. A	≤ 250 mm ³	120 mm ³	120 mm ³	120 mm ³
Color fastness to artificial light	EN 20 105-B02, proc. 3, cond 6.1 A	≥ 6 on the blue scale; ≥ 3 on the grey scale	Passes	Passes	Passes
Classification	EN 685	Residential	23	23	23
		Commercial	34	34	34
		Industrial	42	43	43

Additional properties

Toxicity of fire gases	NFX 70-100		CIT < 20		
Anti-slip properties	DIN 51130		R9 (plus) R10 (tx)		
Effect of chemicals	EN 423		Resistant *		
Effect of castor chair	EN 425		Suitable **		
Thermal conductivity	ISO 8302		0,20 W/mK	-	-
			Suitable for underfloor heating. Max 27 °C		
Impact noise reduction	ISO 140-8		6 dB	8 dB	8 dB

Additional electrical properties

Electrical propensity when walked upon	EN 1815		<2 kv, antistatic		
Electrical insulation properties	IEC 60093		>10 ¹⁰ Ohm		

* Depending on concentration and time of exposure. Additional information is available on request.

** Castor wheel type W (EN 12529). Shore A ≤ 90

Color variations due to different production batches as well as technical alterations to improve the product have to be accepted.

Indelval reserves the right to change product characteristics at any time.

EN 1817 | Specification for homogeneous and heterogeneous smooth elastomer floor coverings

EN 12 199 | Specification for homogeneous and heterogeneous relief elastomer floor coverings

Solution type	Tile system			Stair system
Products	geo hm 3.5 mm viva hm 3.5 mm	cerama 3.0 mm textura 3.0 mm clasica 3.0 mm 4.0 mm leganti 3.0 mm 4.0 mm deco 3.2 mm hm 2.7 mm	cerama 3.0 mm textura 3.0 mm clasica 3.0 mm 4.0 mm leganti 3.0 mm 4.0 mm deco 4.0 mm hm 2.7 mm	deco tread cerama tread
Formulation	37000	10000	10200	10000
Layers	Homogeneous	Homogeneous	Double backing	Homogeneous

Characteristics	Test method	Requirements	Average test results from manufacturing control			
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CE

CE conformity	EN 14041		INDELVAL SAIC - Buenos Aires, ARGENTINA			
Dynamic coefficient of friction	EN 13893	DS	DS	DS	DS	DS
Reaction to fire	EN 13501-1	not bonded	-	-	-	-
Reaction to fire	EN 13501-1	bonded	Bfl-s1	Cfl-s1	Cfl-s1	Cfl-s1

Standard specification

			EN 12199	EN 12199	EN 12199	EN 12199	
Thickness	EN 428	Mean value $\pm 0,20$ mm	3,5 mm	2,7 3,0 3,2 4,0 mm	2,7 3,0 4,0 mm	4,0 mm	
Dimensional stability	EN 434	$\pm 0,4$ %	Passes	Passes	Passes	Passes	
Tear strenght	ISO 34-1	Mean value ≥ 20 N/mm	≥ 20 N/mm	≥ 20 N/mm	≥ 20 N/mm	≥ 20 N/mm	
Cigarette burn resistance	EN 1399	Proc. A \geq level 4 Proc. B \geq level 3	Passes	Passes	Passes	Passes	
Flexibility	EN 435, proc. A	Mandrel diam 20 mm, No fissuring	Passes	Passes	Passes	Passes	
Hardness	ISO 7619	≥ 75 Shore A	≥ 85 Shore A	≥ 85 Shore A	≥ 85 Shore A	≥ 85 Shore A	
Residual indentation	EN 433	Mean value $\leq 0,20$ mm (thickness $< 3,0$ mm)	-	0,08 mm	0,08 mm	-	
		Mean value $\leq 0,25$ mm (thickness $\geq 3,0$ mm)	0,08 mm	0,08 mm	0,08 mm	0,08 mm	
Abrasion resistance	ISO 4649, proc. A	≤ 250 mm ³	120 mm ³	120 mm ³	120 mm ³	120 mm ³	
Color fastness to artificial light	EN 20 105-B02, proc. 3, cond 6.1 A	≥ 6 on the blue scale; ≥ 3 on the grey scale	Passes	Passes	Passes	Passes	
Classification	EN 685	Residential Commercial Industrial		2,7 - 3,0 - 3,2 mm 4,0 mm	2,7 - 3,0 mm 4,0 mm		
			23	23	23	23	23
			34	32	34	32	34
			43	41	43	41	43

Additional properties

Toxicity of fire gases	NFX 70-100		CIT < 20			
Anti-slip properties	DIN 51130		R9	R9 R10: textura	R9 R10: textura	R9
Effect of chemicals	EN 423		Resistant *			
Effect of castor chair	EN 425		Suitable **			
Thermal conductivity	ISO 8302		-	-	-	-
Impact noise reduction	ISO 140-8		10 dB	8 dB	8 dB	8 dB

Additional electrical properties

Electrical propensity when walked upon	EN 1815		< 2 kv, antistatic			
Electrical insulation properties	IEC 60093		$> 10^{10}$ Ohm			

* Depending on concentration and time of exposure. Additional information is available on request.

** Castor wheel type W (EN 12529). Shore A ≤ 90

Color variations due to different production batches as well as technical alterations to improve the product have to be accepted.

Indelval reserves the right to change product characteristics at any time.

EN 1817 | Specification for homogeneous and heterogeneous smooth elastomer floor coverings

EN 12 199 | Specification for homogeneous and heterogeneous relief elastomer floor coverings

Solution type		Special applications			
Products	m2000 conductive 2.5 mm 3.0 mm	geo tx SE 7.0 mm	ecosport tx 4.0 mm 7.0 mm	guia 7.0 mm	
		ecosport tx SE 7.0 mm			
		chronos tx SE 7.0			
Formulation	14230	37200	37200	10000	
Layers	Double backing	Double backing	Double backing	Homogeneous	

Characteristics	Test method	Requirements	Average test results from manufacturing control			
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CE

CE conformity	EN 14041		INDELVAL SAIC – Buenos Aires, ARGENTINA			
Dynamic coefficient of friction	EN 13893	DS	DS	DS	DS	DS
Reaction to fire	EN 13501-1	not bonded	-	Cfl-s2	-	-
Reaction to fire	EN 13501-1	bonded	Cfl-s1	-	Cfl-s2	Cfl-s1

Standard specification

			EN 1817	EN 1817	EN 1817	EN 12199
Thickness	EN 428 (EN 1817)	Mean value $\pm 0,15$ mm	2,5 mm 3,0 mm	7,0 mm	4,0 mm 7,0 mm	-
	EN 428 (EN 12199)	Mean value $\pm 0,20$ mm	-	-	-	7,0 mm
Dimensional stability	EN 434	$\pm 0,4$ %	Passes	Passes	Passes	Passes
Tear strenght	ISO 34-1	Mean value ≥ 20 N/mm	-	-	-	≥ 20 N/mm
Cigarette burn resistance	EN 1399	Proc. A \geq level 4	Passes	Passes	Passes	Passes
		Proc. B \geq level 3				
Flexibility	EN 435, proc. A	Mandrel diam 20 mm, No fissuring	Passes	Passes	Passes	Passes
Hardness	ISO 7619	≥ 75 Shore A	≥ 85 Shore A	≥ 80 Shore A	≥ 85 (4,0) ≥ 80 (7,0)	≥ 80 Shore A
Residual indentation	EN 433 (EN 1817)	Mean value $\leq 0,15$ mm (thickness $< 2,5$ mm)	-	-	-	-
		Mean value $\leq 0,20$ mm (thickness $\geq 2,5$ mm)	0,05 mm	0,1 mm	0,08 mm (4,0 mm) 0,1 mm (7,0 mm)	-
	EN 433 (EN 12199)	Mean value $\leq 0,20$ mm (thickness $< 3,0$ mm)	-	-	-	-
		Mean value $\leq 0,25$ mm (thickness $\geq 3,0$ mm)	-	-	-	0,1 mm
Abrasion resistance	ISO 4649, proc. A	≤ 250 mm ³	90 mm ³	120 mm ³	120 mm ³	150 mm ³
Color fastness to artificial light	EN 20 105-B02, proc. 3, cond 6.1 A	≥ 6 on the blue scale; ≥ 3 on the grey scale	Passes	Passes	Passes	Passes
Classification	EN 685	Residential	23	23	23	23
		Commercial	34	34	34	34
		Industrial	43	43	43	43

Additional properties

Toxicity of fire gases	NFX 70-100		CIT < 20			
Anti-slip properties	DIN 51130		R9	R10	R10	-
Effect of chemicals	EN 423		Resistant *			
Effect of castor chair	EN 425		Suitable **			
Thermal conductivity	ISO 8302		-	-	-	-
			Suitable for underfloor heating. Max 27 °C			
Impact noise reduction	ISO 140-8		8 dB	20 dB	14 dB (4,0) 20 dB (7,0)	-

Additional electrical properties

Electrical propensity when walked upon	EN 1815		< 2 kv, antistatic	< 2 kv, antistatic	< 2 kv, antistatic	< 2 kv, antistatic
Electrical insulation properties	IEC 60093		see below	$> 10^{10}$ Ohm	$> 10^{10}$ Ohm	$> 10^{10}$ Ohm
Electrical resistance	EN 1081		$< 10^6$ Ohm	-	-	-
Electrical resistance	IEC 61340-4-1		$< 10^6$ Ohm	-	-	-
Electrostatic protection footwear-flooring	IEC 61340-4-5		$\leq 3,5^7$ Ohm	-	-	-

* Depending on concentration and time of exposure. Additional information is available on request.

** Castor wheel type W (EN 12529). Shore A ≤ 90

Color variations due to different production batches as well as technical alterations to improve the product have to be accepted.

Indelval reserves the right to change product characteristics at any time.

EN 1817 | Specification for homogeneous and heterogeneous smooth elastomer floor coverings

EN 12 199 | Specification for homogeneous and heterogeneous relief elastomer floor coverings

Recommended product applications ⁽¹⁾

Indelval system	sheet system						tile system					stair system		special applications					
	Product	geo plus chronos plus ecoal plus	geo tx chronos tx ecoal tx	geo plus chronos plus	geo tx chronos tx	indelcol plus		cerama textura classica leganti	deco	hm	geo hm viva hm	clasia leganti deco	deco tread cerama tread solval	m2000 conductive		geo tx SE ecosport tx SE	ecosport tx		guia
Thickness (mm)	2.0	2.0	3.0	3.0	2.0	3.0	3.0	3.2	2.7	3.5	4.0	4.0	2.5	3.0	7.0	4.0	7.0	7.0	
Healthcare																			
Cafeterias	-	A	-	Exc	●	●	A	A	A	Exc	A	-	-	-	-	-	-	-	
Corridors	A	-	Exc	-	●	●	-	-	A	Exc	-	-	-	-	-	-	-	-	
Dialysis	A	-	Exc	-	●	●	-	-	A	Exc	-	-	-	-	-	-	-	-	
Elevators	-	-	-	-	●	●	Exc	Exc	-	-	Exc	-	-	-	-	-	-	-	
Emergency dept.	A	-	Exc	-	●	●	-	-	A	Exc	-	-	-	-	-	-	-	-	
Entrances	-	-	-	-	●	●	-	-	-	Exc	-	-	-	-	-	-	-	-	
Intensive care	A	-	Exc	-	●	●	-	-	A	A	-	-	-	-	-	-	-	-	
Laboratories	A	-	Exc	-	●	●	-	-	A	A	-	-	-	-	-	-	-	-	
NICU	A	-	Exc	-	●	●	-	-	A	A	-	-	-	-	-	-	-	-	
Nurse stations	A	-	Exc	-	●	●	-	-	A	Exc	-	-	-	-	-	-	-	-	
Offices	-	A	A	Exc	●	●	A	-	A	Exc	A	-	-	-	-	-	-	-	
Operating rooms	-	-	Exc	-	●	●	-	-	-	A	-	-	A	Exc	-	-	-	-	
Patient rooms	A	-	Exc	-	●	●	-	-	A	Exc	-	-	-	-	-	-	-	-	
Pharmacy	A	-	Exc	-	●	●	-	-	A	Exc	-	-	-	-	-	-	-	-	
Ramps (indoor)	-	A	-	Exc	●	●	A	-	-	-	Exc	-	-	-	-	-	-	-	
Rehabilitation	-	A	-	Exc	●	●	-	-	A	Exc	-	-	-	-	-	-	-	-	
Stairways/Landings (indoor)	-	-	-	-	●	●	-	-	-	-	-	Exc	-	-	-	-	Exc	Exc	
Service areas	-	A	-	A	●	●	Exc	Exc	A	Exc	Exc	-	-	-	-	-	-	-	
Waiting rooms	A	-	Exc	-	●	●	-	-	A	Exc	-	-	-	-	-	-	-	-	
Educational																			
Auditoriums	-	A	-	Exc	●	●	A	A	A	Exc	Exc	-	-	-	-	-	-	-	
Cafeterias	-	A	-	Exc	●	●	A	A	A	Exc	A	-	-	-	-	-	-	-	
Classrooms	-	A	-	Exc	●	●	A	A	A	Exc	Exc	-	-	-	-	-	-	-	
Computer rooms	-	A	-	Exc	●	●	A	A	A	Exc	Exc	-	-	-	-	-	-	-	
Corridors	-	A	A	Exc	●	●	A	A	A	Exc	Exc	-	-	-	-	-	-	-	
Dormitories	-	A	-	Exc	●	●	A	A	A	Exc	Exc	-	-	-	-	-	-	-	
Entrances	-	-	-	-	●	●	A	A	A	Exc	Exc	-	-	-	-	-	-	-	
Laboratories	A	-	Exc	-	●	●	-	-	A	A	-	-	-	-	-	-	-	-	
Libraries	-	A	-	Exc	●	●	A	A	A	Exc	Exc	-	-	-	-	-	-	-	
Locker rooms	-	-	-	A	●	●	A	A	A	Exc	Exc	-	-	-	-	A	Exc	-	
Multipurpose gym	-	-	-	-	●	●	-	-	-	-	-	-	-	-	-	-	-	-	
Offices	-	A	-	Exc	●	●	A	-	A	Exc	A	-	-	-	-	-	-	-	
Ramps (indoor)	-	A	-	Exc	●	●	A	-	-	-	Exc	-	-	-	-	-	-	-	
Stairways/Landings (indoor)	-	-	-	-	●	●	-	-	-	-	-	Exc	-	-	-	-	-	-	
Service areas	-	A	-	A	●	●	Exc	Exc	A	Exc	Exc	-	-	-	-	-	-	-	
Teachers lounge	-	A	-	Exc	●	●	A	A	A	Exc	Exc	-	-	-	-	-	-	-	
Offices																			
Computer rooms	-	A	-	Exc	●	●	A	A	A	Exc	Exc	-	-	-	-	-	-	-	
Corridors	-	A	A	Exc	●	●	A	A	A	Exc	Exc	-	-	-	-	-	-	-	
Conference rooms	-	A	-	Exc	●	●	A	-	A	Exc	A	-	-	-	-	-	-	-	
Dining areas	-	A	-	Exc	●	●	A	A	A	Exc	A	-	-	-	-	-	-	-	
Elevators	-	-	-	-	●	●	Exc	Exc	-	-	Exc	-	-	-	-	-	-	-	
Lobbies	-	-	-	-	●	●	A	A	A	Exc	Exc	-	-	-	-	-	-	-	
Offices	-	A	-	Exc	●	●	A	-	A	Exc	A	-	-	-	-	-	-	-	
Stairways/Landings (indoor)	-	-	-	-	●	●	-	-	-	-	-	Exc	-	-	-	-	-	-	
Service areas	-	A	-	A	●	●	Exc	Exc	A	Exc	Exc	-	-	-	-	-	-	-	
Airports																			
Offices	-	-	-	Exc	●	●	A	-	A	Exc	A	-	-	-	-	-	-	-	
Concourses	-	-	A	A	●	●	A	A	A	Exc	Exc	-	-	-	-	-	-	-	
Boarding bridges	-	-	-	A	●	●	A	A	A	Exc	Exc	-	-	-	-	-	-	-	
Corridors	-	-	A	A	●	●	A	A	A	Exc	Exc	-	-	-	-	-	-	-	
Stairways/Landings (indoor)	-	-	-	-	●	●	-	-	-	-	-	Exc	-	-	-	-	-	-	
Baggage claim	-	-	-	-	●	●	-	-	-	Exc	Exc	-	-	-	-	-	-	-	
Museums & Libraries																			
Entrances	-	-	-	-	●	●	A	A	A	Exc	Exc	-	-	-	-	-	-	-	
Presentation areas	-	-	A	A	●	●	A	A	A	Exc	Exc	-	-	-	-	-	-	-	
Corridors	-	A	A	Exc	●	●	A	A	A	Exc	Exc	-	-	-	-	-	-	-	
Stairways/Landings (indoor)	-	-	-	-	●	●	-	-	-	-	-	Exc	-	-	-	-	-	-	
Cafeterias	-	A	-	Exc	●	●	A	A	A	Exc	A	-	-	-	-	-	-	-	
Government buildings																			
Entrances	-	-	-	-	●	●	A	A	A	Exc	Exc	-	-	-	-	-	-	-	
Offices	-	-	-	Exc	●	●	A	-	A	Exc	A	-	-	-	-	-	-	-	
Corridors	-	-	A	A	●	●	A	A	A	Exc	Exc	-	-	-	-	-	-	-	
Stairways/Landings (indoor)	-	-	-	-	●	●	-	-	-	-	-	Exc	-	-	-	-	-	-	
Pathway for visually impaired people (indoor)	-	-	-	-	●	●	-	-	-	-	-	-	-	-	-	-	-	Exc	
Retail																			
Sales areas	-	-	A	A	●	●	A	A	A	Exc	Exc	-	-	-	-	-	-	-	
Service areas	-	-	-	-	●	●	A	A	A	Exc	Exc	-	-	-	-	-	-	-	
Industry																			
Production areas	-	-	A	A	●	●	-	-	A	Exc	Exc	-	A	A	-	-	-	-	
Warehouses	-	-	-	-	●	●	-	-	-	A	A	-	-	-	-	-	-	-	
ESD areas	-	-	-	-	●	●	-	-	-	-	-	-	A	Exc	-	-	-	-	
Laboratories	A	-	Exc	-	●	●	-	-	A	A	-	-	A	Exc	-	-	-	-	
Clean rooms	A	-	Exc	-	●	●	-	-	-	-	-	-	A	Exc	-	-	-	-	
Conference rooms	-	A	-	Exc	●	●	A	-	A	Exc	A	-	-	-	-	-	-	-	
Offices	-	A	-	Exc	●	●	A	-	A	Exc	A	-	-	-	-	-	-	-	
Stairways/Landings (indoor)	-	-	-	-	●	●	-	-	-	-	-	Exc	-	-	-	-	-	-	
Locker rooms	-	-	-	A	●	●	A	A	A	Exc	Exc	-	-	-	-	A	Exc	-	
Sport Areas																			
Entrances	-	-	-	-	●	●	A	A	A	Exc	Exc	-	-	-	-	-	-	-	
Locker rooms	-	-	-	A	●	●	A	A	A	Exc	Exc	-	-	-	-	A	Exc	-	
Corridors	-	A	-	Exc	●	●	A	A	A	Exc	Exc	-	-	-	-	-	-	-	
Stairways/Landings (indoor)	-	-	-	-	●	●	-	-	-	-	-	Exc	-	-	-	-	-	-	
Weight room	-	-	-	-	●	●	-	-	-	-	-	-	-	-	Exc	-	Exc	-	
Multipurpose areas	-	-	-	-	●	●	-	-	-	-	-	-	-	-	-	A	Exc	-	
Raised access floor																			
Installed in the field	-	-	-	-	●	●	-	-	-	-	-	-	-	-	Exc	-	-	-	
Installed in factory	A	A	Exc	Exc	●	●	-	-	-	-	-	-	-	-	-	-	-	-	

⁽¹⁾ This application chart is provided to aid in understanding where Indelval Rubber Flooring products are recommended for use. It is a subjective recommendation and is predicated upon the adherence to proper installation techniques; specific location of installation; level of foot traffic; and the type of maintenance practiced on-site.

Exc | Excellent A | Acceptable - | Not recommended

Please contact Indelval SAIC for assistance on transport flooring for buses, rail vehicles and ships.

● Indelcol plus is recommended for accents and border wherever same thickness is offered in other products.

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