

HEALTHCARE

THE COMPLETE CLEAN ROOM SOLUTION

Your all-in-one answer



THE ULTIMATE
FLOORING EXPERIENCE



SETTING NEW STANDARDS

The clean room is central to the work of today's hospitals and laboratories. It represents the most sensitive, technically demanding environment where hygiene is essential, such as in operating theatres and pharmaceutical labs. To prevent the spread of infection or the contamination of samples, pollutants like dust and airborne particles must be kept within strict limits. Clean rooms also need durable surfaces supporting heavy load equipment that are easy to maintain, resistant to chemicals and disinfectant and able to handle static electricity.

Tarkett, a worldwide leader in innovative and sustainable flooring, is Europe's largest manufacturer of floor coverings for the healthcare sector. The company offers integrated solutions for floors and walls that meet, and often exceed, the most stringent clean room standards. Good to look at, simple to clean and made to last, Tarkett's specialist flooring creates spaces that are safe and pleasant for both healthcare professionals and patients.

All the floor and the wall coverings in this brochure are certified as suitable for clean rooms by the Fraunhofer Institute, Europe's largest organisation for applied research and internationally recognised as pre-eminent in its field.



Fraunhofer

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THE CLEAN ROOM CHECKLIST

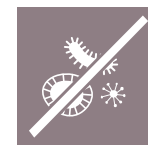
As an enclosed space where environmental factors like airflow, temperature and humidity are carefully regulated to minimise infection or contamination, the clean room has specific requirements.



AIRBORNE PARTICLES

A sterile atmosphere free from the pollutants and microbes found in airborne particles is essential where delicate tasks are performed. While a cubic metre of city air typically contains around 40,000,000 different-sized particles (equivalent to ISO9), the air in a standard grade clean room (ISO5) contains more than 300% fewer*.

* 40,000,000 different sized equivalent to ISO9 and standard grade of clean room equivalent to ISO 5 in ISO norm 14644-1.



HYGIENE

Sensitive spaces should be easy to clean and disinfect, as well as impervious to fluids. Smooth flooring that is suitable for coving and forms perfectly sealed joints between wall and floor will help prevent the build-up of dirt and bacteria. Flooring and walls should also be resistant to chemical and detergents as well as looking like new after years of use.



INDOOR AIR QUALITY

An airtight environment should have minimal levels of volatile organic compounds to provide a safe, breathable atmosphere. Phthalate free products also contribute to improved indoor environment and air quality.



STATIC

Static electricity can cause shocks and damage sensitive equipment in clean rooms, presenting a hazard to patients and staff. Conductive or dissipative flooring solutions can manage static.



DURABILITY

Clean rooms and laboratories often contain large pieces of furniture or equipment that exert a heavy load, so the flooring and walls must be strong enough to bear substantial weights without tears, scratches or indentations.



COMFORT

Healthcare staff doing demanding jobs need a comfortable workplace. Floors with low roll-resistance make it easy to move trolleys and wheeled apparatus around, causing less tiredness.





AIRBORNE PARTICLES: THE FEWER, THE BETTER

Ambient air contains millions of pollutant particles, from dust to microbes, that can cause infection or contamination during sensitive tasks like invasive surgery and preparing medication. That's why the choice of materials and surfaces in clean rooms matters, contributing to the reduction of particles and preventing their spread.







Tarkett flooring meets ISO 3 and ISO 4 requirements, higher than ISO 5 as commonly specified for hospital operating theatres. Tarkett's ProtectWALL 2CR goes even further, fulfilling ISO1 criteria.

The International Organisation for Standardisation (ISO) has established limits for the number and size of airborne particles in clean rooms. ISO standard 14644-1 recognises nine different levels, from the least demanding (ISO 9) for low-risk environments up to the strictest (ISO 1) for areas requiring the highest protection. Clean rooms in hospitals and pharmaceutical laboratories are usually classified as ISO 5.

In the pharmaceutical industry, the classification is the European Union's Good Manufacturing Practice (EU GMP). Their letter-based classification runs from D (low risk) to A (high risk) as outlined in the table below.

Classification of air cleanliness by particle concentration [ISO 14644-1]

Infectious risk level	Air cleanliness classification (particles)		Maximum concentration in number of particles per cubic metre of air (μm^3)					
	ISO	GMP	0,1 μm	0,2 μm	0,3 μm	0,5 μm	1 μm	5 μm
Highest risk and most demanding levels (electronic industries...)	 ISO 1	-	10	2				
	ISO 2	-	100	24	10	4		
	 ISO 3	-	1 000	237	102	35	8	
	 ISO 4	-	10 000	2 370	1 020	352	83	
Very high risk (high risk operating theatre, orthopedic, implant, burns unit, hematology, ...)	 ISO 5	A&B	100 000	23 700	10 200	3 520	832	29
Serious risk (emergency, operating theatre, childbirth room, laboratory, ...)	ISO 6	-	1 000 000	237 000	102 000	35 200	8 320	293
Moderate risk (maternity, nursery, intensive care, sterilized room, ...)	ISO 7	C				352 000	83 200	2 930
	ISO 8	D				3 520 000	832 000	29 300
Low risk (entrance corridor, laundry, bedroom, psychiatry, ...)	ISO 9	-				35 200 000	8 320 000	293 000



HYGIENE: LEAVING GERMS NOWHERE TO HIDE

The germs that cause infection or contamination can gather anywhere, from skirtings and ledges to walls and floors. Clean rooms should avoid recesses or awkward angles that are difficult to sanitise and disinfect. Surfaces must be accessible, smooth and watertight with good resistance to bacteria and chemicals.



Tarkett's accessories for the Clean Room are developed to allow a perfect cleaning of corners and skirtings. Our cover formers have been designed in such a way that they match the radius of standard sizes of cleaning machines' pads. No sharp angles means no hidden germs or dust.



In clean rooms, it is important to know how well flooring and wall coverings can resist chemicals (ISO 26987) and bacteria (ISO 846). Surface cleanliness (ISO 14644-9) also matters, as does the ease of radioactive decontamination in specific areas like radiology, nuclear medicine, radiotherapy (ISO 8690).

Tarkett flooring and wall coverings provide superior performance and are especially effective in the demanding clean room environment, discouraging bacterial development, simplifying cleaning and providing excellent stain- and chemical resistance. Coving and perfectly sealed joints eliminate traps for dirt or dust while offering a watertight finish and enhanced seam strength.

CHEMICAL RESISTANCE:

ISO 26987	Excellent*
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BACTERIA RESISTANCE:

ISO 846	Does not favor bacterial growth (<i>Pseudomonas aeruginosa</i>). Tarkett solutions are fungistatics and bacteriostatics
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CLASSIFICATION OF PARTICULATE SURFACE CLEANLINESS:

ISO EN 14644-9	Excellent 99,8% of the particles applied could be removed*
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EASE OF DECONTAMINATION:

ISO 8690	Excellent*
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**Tarkett level certified by the Fraunhofer Institute.*

STAINING AGENTS TEST

Result: no visible traces on iQ products, Wallgard and ProtectWALL after cleaning with water and a neutral detergent.

✓ ACETIC ACID 50%	✓ FORMOL
✓ BETADINE	✓ HYDROCHLORIC ACID CONCENTRATE
✓ CETAVLON	✓ HYDROCHLORIC ACID 50%
✓ CHLOROFORM	✓ MERCRYL
✓ CONCENTRATED ACID FOR HAEMODIALYSIS	✓ NITRIC ACID 50%
✓ ETHER	✓ NITRIC ACID CONCENTRATED
✓ ETHYL ACETATE	✓ PEROXIDE
✓ FORMIC ACID CONCENTRATE	

Tests were carried out according to EN 423/ISO 26987 using the staining agents most commonly found in health environments.



INDOOR AIR QUALITY: A HEALTHY ATMOSPHERE

In a controlled, enclosed space where the airflow is managed to minimise external contact, indoor air quality takes on a new importance. Chemicals released by common materials like coatings and plastics must be strictly limited to maintain a safe, breathable atmosphere.



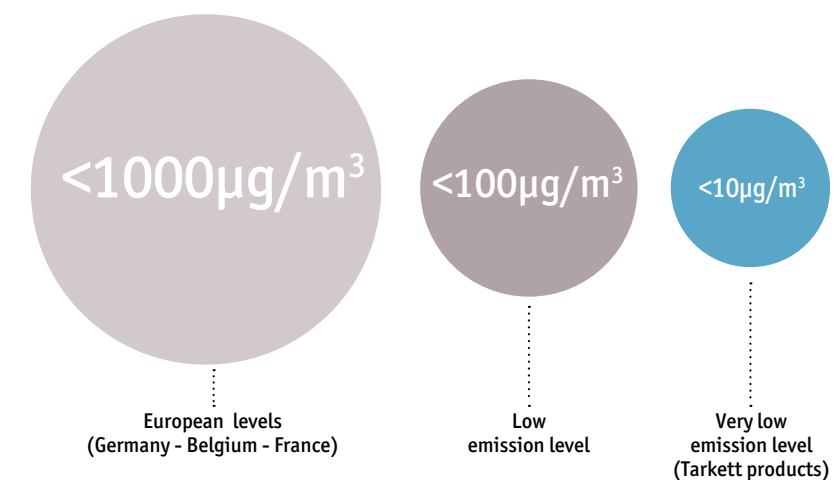
ISO 16000-6 defines how to analyse total volatile organic compounds (TVOCs) emitted by materials capable of degrading indoor air quality.

ISO 14644-8 classifies airborne molecular contamination (AMC) in terms of the atmospheric concentration of specific chemical substances in clean room air. This applies to products and processes that are sensitive to airborne contamination, such as in the healthcare, pharmaceutical and microelectronic sectors.



Tarkett flooring and wall solutions outperform on TVOC emissions according to the strictest European criteria, and achieve a rating of -9.6 as defined by ISO 14644-8 when measured per cubic metre.

■ TVOC level (after 28 days)



**Tarkett,
100 times
below
the lowest
European
levels**

* REACH (Registration, Evaluation, Authorisation and Restriction of Chemicals)-compliance means Tarkett products contain no dangerous substances, toxic or carcinogenic chemicals.

** Phthalate-free: research studies suggest that phthalates could have a noxious effect on human health by affecting human reproduction and development, and by increasing the sensitivity of those suffering from asthma and allergies. This is why at Tarkett we have reviewed the composition of our products, ensuring they are all phthalate-free.

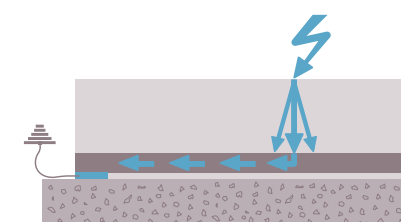


STATIC ELECTRICITY: DEALING WITH DISCHARGES

Static electricity is generated by friction, such as from clothing or by shoes rubbing on the floor. Discharges may be painful, but more importantly they can damage sensitive equipment of the kind found in operating theatres, radiology rooms and pharmaceutical laboratories. This makes reducing the risk of electrostatic discharge a priority in clean rooms.

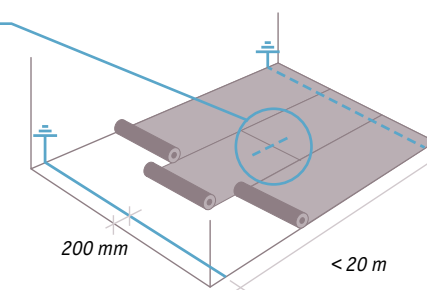
Flooring plays an important role by conducting electrical charges to a ground point. Conductive floor coverings have a lower electrical resistance and are often recommended for operating theatres where delicate surgery, such as cardiology or neurology, is performed. Dissipative floors have a higher resistance and conduct static more slowly, but they prevent discharge to and from human contact. The flooring to use will depend upon the nature of the medical equipment installed in the room.

■ Electrical resistance is the measure of the floor material's or the floor construction's capacity to conduct electrical charges to a ground point. The higher the resistance, the lower the conductivity.



■ Earth connecting iQ Toro SC / iQ Granit SD

A 100 cm copper strip is placed lengthways under transversal joints



Technical data	Standards	iQ Toro SC	iQ Granit SD
Electrical insulation	VDE 100, Part 600	$R_i \leq 5 \times 10^4 \Omega$	$R_i \leq 5 \times 10^4 \Omega$
Static electrical charge	EN 1815	< 2kV	< 2kV
Electrical resistance	ESD-approval SP-method 2472 EN 1081	$R \leq 10^6 \text{ ohms}$ $R_1, 5 \times 10^4 \leq R \leq 10^6 \text{ ohms}$ $R_2, 5 \times 10^4 \leq R \leq 10^6 \text{ ohms}$	$10^6 \leq R \leq 10^8 \text{ ohms}$ $R_1 \leq 10^8 \text{ ohms}$ $R_2 \leq 10^8 \text{ ohms}$

■ iQ Toro SC and iQ Granit SD unique carbon backing is static-conductive, eliminating the need for conductive adhesive during installation (except over copper strip).



Tarkett's static-conductive flooring, iQ Toro SC, has an electrical resistance of $R < 10^6 \Omega$ (EN 1081) while our dissipative option, iQ Granit SD has a resistance between $R 10^6 \Omega$ and $R 10^9 \Omega$. Both comply with European standard EN 1815 on electrostatic propensity.

A PROTECTIVE SKIN FOR CLEAN ROOMS THAT ARE HYGIENIC, SAFE, DURABLE AND COMFORTABLE TO WORK IN

THE HIGH PERFORMANCE WALL SOLUTIONS

■ ProtectWall 2CR



■ Wallgard



FLOORING SOLUTIONS



Non-conductive / Non-Dissipative flooring

- iQ Optima
- iQ Eminent

- iQ Granit
- iQ Natural*

Conductive / Dissipative flooring

- iQ Toro SC*
- iQ Granit SD

* iQ Natural and iQ Toro SC meet ISO3 requirements

ACCESSORIES

that simplify cleaning and provide a perfect finish

- Colour-coordinated welding rods
- PA40 floor and wall cove former

A UNIQUE SOLUTION FOR PERFECTION:

Wall and floor covering
of 2mm thickness

+

Hot welded joints

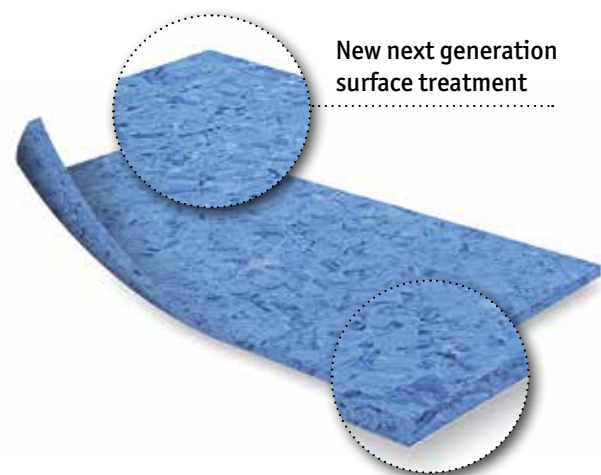
+

Comprehensive coving system

=

**Hermetically sealed 100%
waterproof surfaces that are
hygienic and easy to clean**

TARKETT iQ: THE RANGE FOR EVERY CLEAN ROOM NEED



New next generation surface treatment



A true genuine homogenous flooring with a 2mm wear layer.

iQ Granit



iQ Eminent



iQ Optima



iQ Natural*



* iQ Natural meets ISO3 requirements

Discover all of our collections and the complete range of colours at professionals.tarkett.com

+



■ Particules emissions: rated ISO 3 (iQ Natural) and ISO 4 (ISO 14644-1)



■ Highly resistant to chemical substances: ISO 26987 – rated 'excellent'



■ Highly resistant to bacteria: ISO 846 – does not encourage bacterial growth



■ Excellent cleaning performance: ISO 14644-9 - particle count [bacteria, dust etc.] reduced by 99.8%



■ Easy to maintain – smooth surface, forms a perfect seal with walls



■ Withstands heavy loads of 50kg / cm²



■ Promotes excellent indoor air quality with TVOCs <10ug/m³, 100 times less than the lowest European standards



■ Excellent durability based on 100 years of flooring expertise



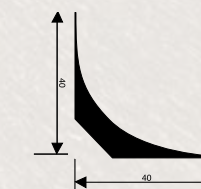
Eosin 1% in Ethanol. 2 hour's exposure after cleaning with Ethanol.

ACCESSORIES:

■ Colour-coordinated welding rods



■ Cove former PA40



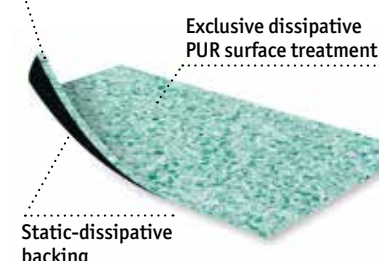
STATIC-DISSIPATIVE AND STATIC-CONDUCTIVE SOLUTIONS

Static-dissipative iQ Granit SD

Rx ≤ 10⁸ Ω



A true genuine
homogenous flooring
with a 2mm wear layer

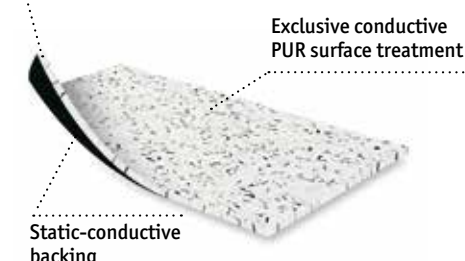


Static-conductive iQ Toro SC

Rx ≤ 10⁶ Ω



A true genuine homogenous
flooring with coper shavings
and a 2mm wear layer



Technical data	Standards	iQ Toro SC	iQ Granit SD
Electrical insulation	VDE 100, Part 600	$R_i \leq 5 \times 10^4 \Omega$	$R_i \leq 5 \times 10^4 \Omega$
Static electrical charge	EN 1815	< 2kV	< 2kV
Electrical resistance	ESD-approval SP -method 2472 EN 1081	$R \leq 10^6 \text{ ohms}$ $R_1 \leq 5 \times 10^4 \leq R \leq 10^6 \text{ ohms}$ $R_2 \leq 5 \times 10^4 \leq R \leq 10^6 \text{ ohms}$	$10^6 \leq R \leq 10^8 \text{ ohms}$ $R_1 \leq 10^8 \text{ ohms}$ $R_2 \leq 10^8 \text{ ohms}$



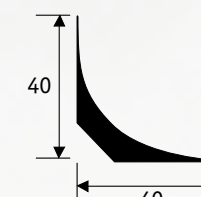
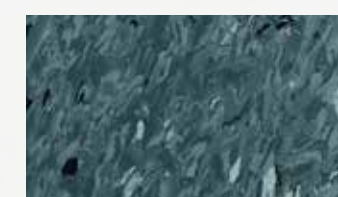
Discover all of our collections and the complete range of colours at professionals.tarkett.com



- **Particules emissions:** rated ISO 3 (iQ Toro SC) and ISO 4 (iQ Granit SD) (ISO 14644-1)
- **iQ Granit SD:** static-dissipative flooring with an electrical resistance of $R 10^6$ to $10^9 \Omega$
- **iQ Toro SC:** static-conductive flooring with an electrical resistance of $R < 10^6 \Omega$
- **Highly resistant to chemical substances:** ISO 26987 - rated 'excellent'
- **Highly resistant to bacteria:** ISO 846 – does not encourage bacterial growth
- **Excellent cleaning performance:** ISO 14644-9 - particle count [bacteria, dust etc.] reduced by 99.8%
- **Easy to maintain** - smooth surface, forms a perfect seal with walls
- **Withstands heavy loads of 50kg / cm²**
- **Promotes excellent indoor air quality** with TVOCs <10ug/m³, 100 times less than the lowest European standards
- **Excellent durability** based on 100 years of flooring expertise

ACCESSORIES:

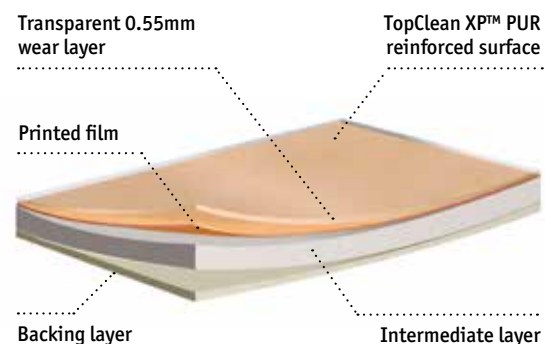
- **Static control copper strip**
- **Colour-coordinated welding rods**
- **Cove former PA40**



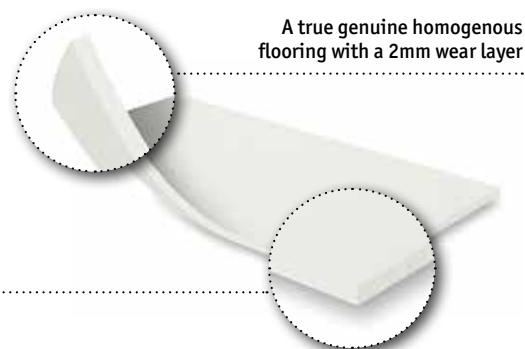
HIGH PERFORMANCE WALL COVERINGS

Unique solution combining complete continuity between wall and floor with excellent cleaning performance and the avoidance of dust.

ProtectWall 2CR



Wallgard 2mm

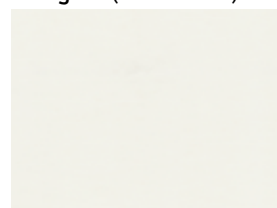


PU Shield surface treatment

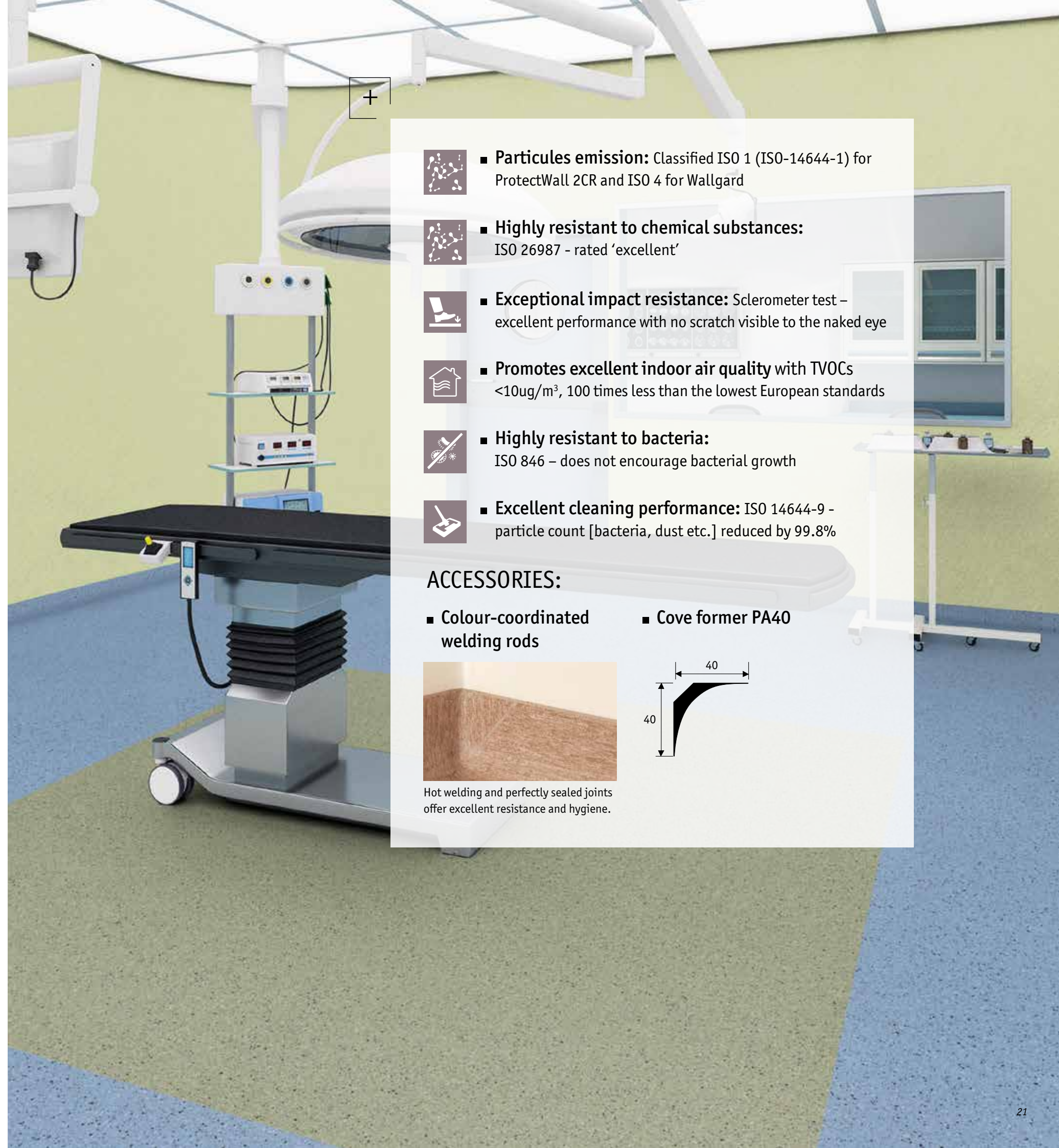
ProtectWALL 2CR (2mm thickness)



Wallgard (2mm thickness)



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■ **Particules emission:** Classified ISO 1 (ISO-14644-1) for ProtectWall 2CR and ISO 4 for Wallgard



■ **Highly resistant to chemical substances:** ISO 26987 - rated 'excellent'



■ **Exceptional impact resistance:** Sclerometer test – excellent performance with no scratch visible to the naked eye



■ **Promotes excellent indoor air quality with TVOCs** <10ug/m³, 100 times less than the lowest European standards



■ **Highly resistant to bacteria:** ISO 846 – does not encourage bacterial growth



■ **Excellent cleaning performance:** ISO 14644-9 - particle count [bacteria, dust etc.] reduced by 99.8%

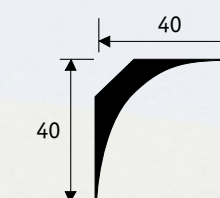
ACCESSORIES:

■ **Colour-coordinated welding rods**



Hot welding and perfectly sealed joints offer excellent resistance and hygiene.

■ **Cove former PA40**

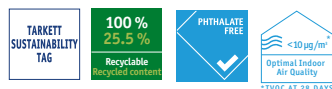


iQ OPTIMA technical data

CERTIFICATION & CLASSIFICATION	STANDARDS	iQ Optima
Type of floor covering	EN ISO 10581 - Compact EN ISO 11638 - Acoustic	Homogeneous vinyl flooring -
Binder content	EN ISO 10581 - Compact EN ISO 11638 - Acoustic	Type I -
Classification	ISO 10874	Commercial: 34 Industrial: 43
Certification	EN 14041	Yes
TECHNICAL CHARACTERISTICS	STANDARDS	iQ Optima
iQ Surface treatment		Yes
Total thickness	ISO 24346	2.0 mm
Wear layer thickness	EN ISO 24340	2.0 mm
Total weight	ISO 23997	2700 g/m ²
Form of delivery	ISO 24341 Sheet (rolls)	iQ Optima Approx. 25 lm x 200 cm Art. no. 3242_ _ _ 3 digit colour colour number iQ Optima Essence Approx. 25 lm x 200 cm Art. no. 3077_ _ _ 3 digit colour colour number
	ISO 24342 Tiles (box)	iQ Optima 61.0 x 61.0 cm - 14 tiles/box = 5.21 m ² Art. no. 3217_ _ _ 3 digit colour colour number iQ Optima Essence 61.0 x 61.0 cm - 14 tiles/box = 5.21 m ² Art. no. 3080_ _ _ 3 digit colour colour number
TECHNICAL PERFORMANCES	STANDARDS	iQ Optima
Dimensional stability	EN ISO 23999	0.40 % for rolls 0.25 % for tiles
Reaction to fire	EN 13501-1 EN ISO 9239-1 EN ISO 11925-2	Class Bfl s1 ≥ 8 kW/m ² Pass
Residual indentation	EN ISO 24343-1	Required value: ≤ 0.10 mm Best measured value: 0.02 mm
Castor chair test	ISO 4918 - EN 425	Suitable
Static electrical discharge	EN 1815	< 2 kV
Clean room	ASTM F51/00 ISO 14644-1	Class A ISO class 4
Total VOC emissions	ISO 16000-6	≤ 10 µg/m ³ (after 28 days)
Underfloor heating		Suitable – max 27°C
Light fastness	EN ISO 105-B02, Method 3a	≥ level 7
Ease of decontamination	ISO 8690 – DIN 25415	Excellent
Chemical resistance	ISO 26987	Excellent
Bacteria resistance	ISO 846 - Part C	Does not favour growth
Slip resistance	DIN 51130 EN 13893	R9 ≥ 0.3
Curl resistance to heat	EN ISO 23999	No damage
Impact sound reduction	EN ISO 717/2	-
Acoustic improvement	NF S31-074	-
Barefoot test	DIN 51097	-
Seam strength	EN 684	Average value: 240 N/50 mm Individual values: 180 N/50 mm
Thermal conductivity	EN 12667	0.01 m ² K/W Original: 48 Mono: 10 / Essence: 6
Colours		

CUSTOMS TARIFF : 482050000000F

The above information is subject to modification for the benefit of further improvement (08/17).
Tarkett's instructions regarding installation, cleaning and maintenance should be observed. Please contact Tarkett at the address shown for these instructions.



Surface treatment



Logistics Information



General Information



Tarkett AB
Report No. TA 1108-567

Cleanroom[®] Suitable Materials

iQ Optima
Particle (vs. PA6 Nylon): ISO 4

Flooring & Coating

Qualification Certificate

We hereby certify that the material stated above, provided by

Tarkett AB

372 73 Ronneby
Sweden

has been awarded the Fraunhofer IPA CSM Certificate of Qualification
with the report number TA 1108-567.

The tests performed in accordance with CSM procedures included
particle emission during the application of frictional stress. The tested
material obtained the following classification in accordance with the
standard listed below.

Material (Mat.)	iQ Optima	
Particle	Reel-on-disc test: Normal force 300 N Mat. vs. PA6 Nylon	suitable for ISO Class 4 (see ISO 14644-1)

Detailed test information regarding the sample (serial number, color,
batch number etc.), environment and parameters used, can be obtained
from the CSM test report TA 1108-567 issued by the Fraunhofer-Gesell-
schaft.

Stuttgart, September 20, 2011


J.A. 
Project manager

The validity of this certificate
is temporary indefinite and
limited to the named product.
It can be verified on
www.tested-device.com.

For more CSM information,
please visit www.ipa-csm.com.



iQ GRANIT technical data

CERTIFICATION & CLASSIFICATION	STANDARDS	iQ Granit
Type of floor covering	ISO 10581	Homogeneous single layered vinyl flooring
	ISO 11638	-
	EN 13845	-
Binder content	ISO 10581	Type I
	ISO 11638	-
Classification	ISO 10874	Commercial: 34 Industrial: 43
TECHNICAL CHARACTERISTICS	STANDARDS	iQ Granit
Surface treatment		iQ
Total thickness	ISO 24346	2.0 mm
Total weight	ISO 23997	2800 g/m ²
Form of delivery	ISO 24341	Approx. 25 lm x 200 cm
	Sheet (rolls)	Art. no. 3040 _ _ _ 3 digit colour colour number Art. no. 3218 _ _ _ (Multicolour) 3 digit colour colour number Art. no. 21050 _ _ _ (iQ Granit Micro) 3 digit colour colour number 61.0 x 61.0 cm 14 tiles/box = 5.21 m ² Art. no. 3243 _ _ _ 3 digit colour colour number Art. no. 3044 _ _ _ (Multicolour) 3 digit colour colour number Art. no. 21050 _ _ _ (iQ Granit Micro) 3 digit colour colour number
	ISO 24342 Tiles (box)	
TECHNICAL PERFORMANCES	STANDARDS	iQ Granit
Reaction to fire	EN 13501-1 EN ISO 9239-1 EN ISO 11925-2	Class Bfl s1 ≥ 8 kW/m ² Pass
Marine equipment	IMO FTPS Part 5 and 2 IMO Res. A653	
Residual indentation	ISO 24343-1	Required value: ≤ 0.10 mm Best measured value: 0.02 mm
Castor chair test	ISO 4918	Suitable
Static electrical discharge	EN 1815 On any surface with resistance ≤ 109Ω	< 2 kV
Clean room	ISO 14644-1	ISO class 4
Total VOC emissions	ISO 16000-6 AgBB/DIBt Indoor air quality FloorScore	≤ 10 µg/m ³ (after 28 days) Confirm Platinum SCS certified
Underfloor heating		Suitable – max 27°C
Light fastness	EN ISO 105-B02	Level 7
Ease of decontamination	ISO 8690 – DIN 25415	Excellent
Chemical resistance	ISO 26987	Excellent
Bacteria resistance	EN ISO 846:Part C	Does not favour growth
Slip resistance	DIN 51130	R9
	DIN 51097 EN 13893 BS 7976-2	- ≥ 0.3 Low risk of slip
Wet room approval	EN 13553 Annex A	Watertight
Impact sound reduction	EN ISO 717/2	-
Electrical insulation	VDE 0100, Part 600	-
Electrical resistance	ESD-approval SP method 2472 EN 1081	-
	EN/IEC 61340-4- / 100 V EN/IEC 61340-4-5	
Colours		49 + 1 Multicolour* + 12 iQ Granit Micro

The above information is subject to modification for the benefit of further improvement (08/17).

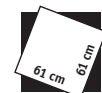
* iQ Granit Multicolour is not approved for use under the IMO directive.

Tarkett's instructions regarding installation, cleaning and maintenance should be observed. Please contact Tarkett at the address shown for these instructions.

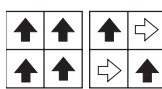
CUSTOMS TARIFF : 482050000000F



Surface treatment



Logistics Information



General Information



Tarkett AB
Report No. TA 1108-567

Cleanroom[®] Suitable Materials

iQ Granit
Particle (vs. PA6 Nylon): ISO 4

Flooring & Coating

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Sweden

has been awarded the Fraunhofer IPA CSM Certificate of Qualification with the report number TA 1108-567.

The tests performed in accordance with CSM procedures included particle emission during the application of frictional stress. The tested material obtained the following classification in accordance with the standard listed below.

Material (Mat.)	iQ Granit
Particle	Reel-on-disc test: Normal force 300 N Mat. vs. PA6 Nylon suitable for ISO Class 4 (see ISO 14644-1)

Detailed test information regarding the sample (serial number, color, batch number etc.), environment and parameters used, can be obtained from the CSM test report TA 1108-567 issued by the Fraunhofer-Gesellschaft.

Stuttgart, September 20, 2011

J. A. 
Project manager

The validity of this certificate is temporary indefinite and limited to the named product. It can be verified on www.tested-device.com.

For more CSM information, please visit www.ipa-csm.com.

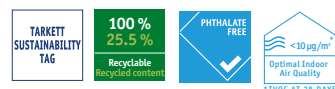


iQ EMINENT technical data

CERTIFICATION & CLASSIFICATION	STANDARDS	iQ Eminent
Type of floor covering	EN 14565	Homogeneous single layered vinyl flooring
Binder content	ISO 10581	Type I
CE certification	EN 14041	Yes
Classification	ISO 10874	Commercial: 34 Industrial: 43
TECHNICAL CHARACTERISTICS	STANDARDS	iQ Eminent
iQ surface treatment		Yes
Total thickness	ISO 24346	2.0 mm
Total weight	ISO 23997	2800 g/m²
Form of delivery	ISO 24341 Sheet (rolls)	Approx. 23 lm x 200 cm Art. no. 21030_ _ _ 3 digit colour colour number
	ISO 24342 Tiles (box)	61.0 x 61.0 cm - 14 tiles/box = 5.21 m² Art. no. 21031_ _ _ 3 digit colour colour number
TECHNICAL PERFORMANCES	STANDARDS	iQ Eminent
Dimensional stability	ISO 23999	≤ 0.40% for rolls ≤ 0.25% for tiles
Reaction to fire	EN 13501-1 EN ISO 9239-1 EN ISO 11925-2	Class Br s1 ≥ 8 kW/m² Pass
Residual indentation	ISO 24343-1	Required value: ≤ 0.10 mm Best measured value: 0.02 mm
Castor chair test	ISO 4918	Suitable
Ease of decontamination	ISO 8690	Excellent
Static electrical discharge	EN 1815	< 2 kV
Clean room	ISO 14644-1 ISO ASTM F24 F51	ISO class 4 Class A
Total VOC emissions	AgBB/DIBt Indoor air quality FloorScore RTS emission class	≤ 10 µg/m³ (after 28 days) Platinum SCS certified M1
Underfloor heating		Suitable – max 27°C
Thermal resistance	EN 12667	Approx. 0.01 m² K/W
Light fastness	EN ISO 105-B02	≥ level 6
Chemical resistance	ISO 26987	Excellent
Bacteria resistance	EN ISO 846:Part C	Does not favour growth
Slip resistance	DIN 51130 BS 7976-2	EN 13893 R9 ≥ 0.3 Low risk of slip
Wet room approval	N 13553 Annex A GBR approval system	Watertight Certified
Abrasion	EN 660:Part 2	≤ 2.0 mm³
Flexibility	ISO 24344	Pass
Seam strength	EN 684	Average value: ≥ 240 N/50 mm Individual values: ≥ 180 N/50 mm
Colours		34

The above information is subject to modification for the benefit of further improvement (08/17).
Tarkett's instructions regarding installation, cleaning and maintenance should be observed. Please contact Tarkett at the address shown for these instructions.

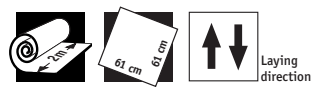
CUSTOMS TARIFF : 482050000000F



Surface treatment



Logistics Information



General Information



Tarkett AB
Report No. TA 1403-699

Cleanroom[®] Suitable Materials

iQ Eminent
Particle (vs. PA6): ISO 4

Flooring & Coating

Qualification Certificate

We hereby certify that the material stated above, provided by

Tarkett AB
Ronneby, Sweden

has been awarded the Fraunhofer IPA CSM Certificate of Qualification with the report number TA 1403-699.

iQ Eminent (color 088) was tested regarding particle emission during the application of frictional stress according to VDI 2083-17. The tested material obtained the following classification:

Material pairing and test		Suitable for Air Cleanliness Class (ISO 14644-1)
iQ Eminent (color 088)	vs. PA6	ISO Class: 4
Reel-on-disc test Normal force 300N		

Detailed information regarding specific product data such as date of manufacture and serial number as well as test environment and parameters can be obtained from the CSM test report issued by the Fraunhofer-Gesellschaft.

Stuttgart, September 1, 2014

Udo Sommer
Project manager



iQ NATURAL technical data

CERTIFICATION & CLASSIFICATION	STANDARDS	iQ Natural
Type of floor covering	EN 14565	Homogeneous single layered vinyl flooring with renewable plasticizer
Binder content	ISO 10581	Type I
CE certification	EN 14041	Yes
Classification	ISO 10874	Commercial: 34 Industrial: 43
TECHNICAL CHARACTERISTICS	STANDARDS	iQ Natural
iQ surface treatment		Yes
Total thickness	ISO 24346	2.0 mm
Total weight	ISO 23997	2800 g/m ²
Form of delivery	ISO 24341 Sheet (rolls)	Approx. 23 lm x 200 cm Art. no. 3009_ _ _ 3 digit colour colour number
	ISO 24342 Tiles (box)	61.0 x 61.0 cm - 14 tiles/box = 5.21 m ² Art. no. 3010_ _ _ 3 digit colour colour number
TECHNICAL PERFORMANCES	STANDARDS	iQ Natural
Dimensional stability	ISO 23999	≤ 0.40 % for rolls ≤ 0.25 % for tiles
Reaction to fire	EN 13501-1 EN ISO 9239-1 EN ISO 11925-2	Class Bfl s1 ≥ 8 kW/m ² Pass
Residual indentation	ISO 24343-1	Required value: ≤ 0.10 mm Best measured value: 0.02 mm
Castor chair test	ISO 4918	Suitable
Ease of decontamination	ISO 8690	Excellent
Static electrical discharge	EN 1815	< 2 kV
Clean room	ISO 14644-1	ISO class 3
Total VOC emissions	AgBB/DIBt	≤ 10 µg/m ³ (after 28 days)
Underfloor heating		Suitable – max 27°C
Thermal resistance	EN 12667	Approx. 0.01 m ² K/W
Light fastness	EN ISO 105-B02	Level 7
Chemical resistance	ISO 26987	Excellent
Bacteria resistance	EN ISO 846:Part C	Does not favour growth
Slip resistance	DIN 51130 EN 13893	R9 ≥ 0.3
Seam strength	EN 684	Average value: ≥ 240 N/50 mm Individual values: ≥ 180 N/50 mm
Colours		35

The above information is subject to modification for the benefit of further improvement (08/17).

Tarkett's instructions regarding installation, cleaning and maintenance should be observed. Please contact Tarkett at the address shown for these instructions.

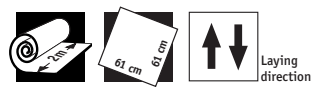
CUSTOMS TARIFF : 482050000000F



Surface treatment



Logistics Information



General Information



Tarkett AB
Report No. TA 1403-699

Cleanroom[®] Suitable Materials

iQ Natural
Particle (vs. PA6): ISO 3

Flooring & Coating

Qualification Certificate

We hereby certify that the material stated above, provided by

Tarkett AB
Ronneby, Sweden

has been awarded the Fraunhofer IPA CSM Certificate of Qualification with the report number TA 1403-699.

iQ Natural (color 172) was tested regarding particle emission during the application of frictional stress according to VDI 2083-17. The tested material obtained the following classification:

Material pairing and test		Suitable for Air Cleanliness Class (ISO 14644-1)
iQ Natural (color 172)	vs. PA6	ISO Class: 3
Reel-on-disc test Normal force 300N		

Detailed information regarding specific product data such as date of manufacture and serial number as well as test environment and parameters can be obtained from the CSM test report issued by the Fraunhofer-Gesellschaft.

Stuttgart, September 1, 2014

I.A.
Project manager

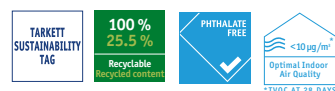


iQ GRANIT SD technical data

CLASSIFICATION	STANDARDS	iQ Granit SD
Type of floor covering	ISO 10581	Permanently static dissipative pressed homogeneous vinyl flooring
Classification	EN ISO 10874	Commercial: 34 Industrial: 43
Certification	EN 14041	Yes
CHARACTERISTICS	STANDARDS	iQ Granit SD
Total thickness	EN ISO 24346	2.0 mm
Wear layer thickness	EN ISO 24340	2.0 mm
Total weight	EN ISO 23997	2950 g/m ²
Binder content	EN ISO 10581 - Compact	Type I
Surface treatment		iQ PUR
Dimensions	EN ISO 24341 Sheet (roll)	Approx. 23 lm x 200 cm Art. no. 3096 ___ 3 digit colour number
	EN ISO 24342 Tile (box)	61x 61 cm - 14 tiles/box = 5.21 m ² Art. no. 3097 ___ 3 digit colour number
TECHNICAL PERFORMANCES	STANDARDS	iQ Granit SD
Dimensional stability	EN ISO 23999	≤ 0.40% for rolls ≤ 0.25% for tiles
Residual indentation	EN ISO 24343-1	Best measured value: 0.02 mm Required value: ≤ 0.10mm
Effect of castor chair	ISO 4918 - EN 425	Suitable
Clean room test	ASTM F24 F51	Class A
Ease of decontamination	ISO 8690	Good
Light fastness	EN ISO 105-B02	≥ level 7
Total VOC emissions	ISO 16000-6	≤ 10 µg/m ³ (after 28 days)
Bacteria resistance	ISO 846 - Part C	Does not favour growth
Reaction to fire	EN ISO 9239-1 EN ISO 13501-1 EN ISO 11925-2	≥ 8 kW/m ² Class B _s s1 Pass
Static electrical charge	EN 1815	< 2 kV
Slip resistance	DIN 51130 EN 13893	≥ 0.3 R9
Seam strength	EN 684	Average value: ≥ 240 N/50 mm Individual values: ≥ 180 N/50 mm
Thermal resistance	EN 12667	Approx. 0.01 m ² K/W
Electrical insulation	VDE 0100, Part 600	R _i ≤ 5 x 10 ⁴ Ohms
Electrical resistance	ESD-approval SP-method 2472 EN 1081	R ≤ 10 ⁹ Ohms R _i ≤ 10 ⁸ Ohms R _s ≤ 10 ⁸ Ohms
	EN/IEC 61340-4-1 / 100 V EN/IEC 61340-4-5	R ≤ 10 ⁸ Ohms measured to ground -
Chemical resistance	ISO 26987	Excellent
Underfloor heating		Suitable - max. 27°C
Colours		14

CUSTOMS TARIFF : 482050000000F

The above information is subject to modification for the benefit of further improvement (08/17).
Tarkett's instructions regarding installation, cleaning and maintenance should be observed. Please contact Tarkett at the address shown for these instructions.



Logistics Information



General Information



Tarkett AB
Report No. TA 1304-646

Cleanroom[®] Suitable Materials

iQ Granit SD
Particle (vs. PA6): ISO 4

Flooring & Coating

Qualification Certificate

We hereby certify that the material stated above, provided by

Tarkett AB
Ronneby, Sweden

has been awarded the Fraunhofer IPA CSM Certificate of Qualification with the report number TA 1304-646.

iQ Granit SD (color 710) was tested regarding particle emission during the application of frictional stress according to VDI 2083-17. The tested material obtained the following classification:

Material pairing and test		Suitable for Air Cleanliness Class (ISO 14644-1)
iQ Granit SD; color 710	vs. PA6	ISO Class: 4
Reel-on-disc test Normal force 300 N		

Detailed information regarding specific product data such as date of manufacture, color, and serial number as well as test environment and parameters can be obtained from the CSM test report issued by the Fraunhofer-Gesellschaft.

Stuttgart, June 26, 2013

I.A.
Project manager



DUPLICATE

The validity of this certificate is temporary indefinite and limited to the named product. It can be verified on www.tested-device.com.

For more CSM information, please visit www.ipa-csm.com.

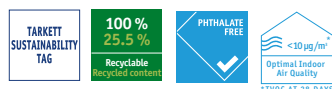
iQ TORO SC technical data

CLASSIFICATION	STANDARDS	iQ Toro SC
Type of floor covering	ISO 10581	Permanently static dissipative pressed homogeneous vinyl flooring
Classification	EN ISO 10874	Commercial: 34 Industrial: 43
Certification	EN 14041	Yes
CHARACTERISTICS	STANDARDS	iQ Toro SC
Total thickness	EN ISO 24346	2.0 mm
Wear layer thickness	EN ISO 24340	2.0 mm
Total weight	EN ISO 23997	2950 g/m ²
Binder content	EN ISO 10581 - Compact	Type I
Surface treatment		iQ PUR
Dimensions	EN ISO 24341 Sheet (roll)	Approx. 23 lm x 200 cm Art. no. 3093 ___ 3 digit colour number
	EN ISO 24342 Tile (box)	61x 61 cm - 14 tiles/box = 5.21 m ² Art. no. 3094 ___ 3 digit colour number
TECHNICAL PERFORMANCES	STANDARDS	iQ Toro SC
Dimensional stability	EN ISO 23999	≤ 0.40% for rolls ≤ 0.25% for tiles
Residual indentation	EN ISO 24343-1	Best measured value: 0.02 mm Required value: ≤ 0.10mm
Effect of castor chair	ISO 4918 - EN 425	Suitable
Clean room test	ASTM F24 F51	Class A
Ease of decontamination	ISO 8690	Good
Light fastness	EN ISO 105-B02	≥ level 7
Total VOC emissions	ISO 16000-6	≤ 10 µg/m ³ (after 28 days)
Bacteria resistance	ISO 846 - Part C	Does not favour growth
	EN ISO 9239-1	≥ 8 kW/m ²
Reaction to fire	EN ISO 13501-1	Class B _s s1
	EN ISO 11925-2	Pass
Static electrical charge	EN 1815	< 2 kV
Slip resistance	DIN 51130 EN 13893	≥ 0.3 R9
Seam strength	EN 684	Average value: ≥ 240 N/50 mm Individual values: ≥ 180 N/50 mm
Thermal resistance	EN 12667	Approx. 0.01 m ² K/W
Electrical insulation	VDE 0100, Part 600	R _i ≤ 5 x 10 ⁴ Ohms
	ESD-approval SP-method 2472	R ≤ 10 ⁹ Ohms
Electrical resistance	EN 1081	R ₁ 5x10 ⁴ ≤ R ≤ 10 ⁶ Ohms R ₂ 5x10 ⁴ ≤ R ≤ 10 ⁶ Ohms R 5x10 ⁴ ≤ R ≤ 10 ⁶ Ohms measured to ground
	EN/IEC 61340-4-1 / 100 V	≤ 3.5x10 ⁷ Ohms
	EN/IEC 61340-4-5	
Chemical resistance	ISO 26987	Excellent
Underfloor heating		Suitable - max. 27°C
Colours		14

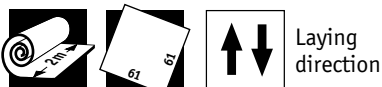
The above information is subject to modification for the benefit of further improvement (08/17).

Tarkett's instructions regarding installation, cleaning and maintenance should be observed. Please contact Tarkett at the address shown for these instructions.

CUSTOMS TARIFF : 482050000000F



Logistics Information



General Information



Tarkett AB
Report No. TA 1304-646

Cleanroom[®] Suitable Materials

iQ Toro SC
Particle (vs. PA6): ISO 3

Flooring & Coating

Qualification Certificate

We hereby certify that the material stated above, provided by

Tarkett AB
Ronneby, Sweden

has been awarded the Fraunhofer IPA CSM Certificate of Qualification with the report number TA 1304-646.

iQ Toro SC (color 100) was tested regarding particle emission during the application of frictional stress according to VDI 2083-17. The tested material obtained the following classification:

Material pairing and test		Suitable for Air Cleanliness Class (ISO 14644-1)
iQ Toro SC; color 100	vs. PA6	ISO Class: 3
Reel-on-disc test Normal force 300N		

Detailed information regarding specific product data such as date of manufacture, color, and serial number as well as test environment and parameters can be obtained from the CSM test report issued by the Fraunhofer-Gesellschaft.

Stuttgart, June 26, 2013

I.A.
Project manager



DUPLICATE

The validity of this certificate is temporary indefinite and limited to the named product. It can be verified on www.tested-device.com.

For more CSM information, please visit www.ipa-csm.com.

ProtectWall 2CR technical data

CERTIFICATION & CLASSIFICATION	STANDARDS	ProtectWall 2CR (Clean Room)
Description	EN 15102	Heavy duty wallcovering
	EN 14644-1	ISO class 1 GMP class A
TECHNICAL CHARACTERISTICS	STANDARDS	ProtectWall 2CR (Clean Room)
Total thickness	ISO 24346 - EN 428	2.00 mm
Total weight	ISO 23997 - EN 430	3.000 g/m²
Transparent wear layer	ISO 24340 - EN 429	0.55 mm
Surface Treatment		TopClean XP™
Form of delivery	ISO 24341 - EN 426 Sheet (rolls)	20 running metres x 200 cm
TECHNICAL PERFORMANCES	STANDARDS	ProtectWall 2CR (Clean Room)
Dimensional stability	ISO 23999 - EN 434	≤ 1% Lengthwise
Reaction to fire	EN 13501-1	B-s3, d0
Thermal resistance	EN 12524	0.01 m² K/W
Electrostatic properties	EN 1815	≤ 2 kV
Curl resultant to heat	ISO 23999 - EN 434	≤ 2 mm
Light fastness	EN ISO 105-B02	≥ 6
Resistance to impacts	EN 259-2 / ASTM D 4226	Resistant to impacts No visible burst nor crack
Scratch resistance		Sclerometer test: Excellent No visible scratch
Spongeability washability Lyability brushability	EN 12956	Super washable and brushable
Scuff resistance		Excellent No visible mark after cleaning
Determination of Flexibility	ISO 24344 - EN 435	No damage, no crack
Determination of seam strength	EN 684	> 400 N/50 mm
Hardness Shore A	ISO 868	94
Stain resistance Chemical resistance	ISO 26987 - EN 423	Not Affected (0)
Contamination control	EN 14644-1	ISO Class 1 /GMP class A
Ease of decontamination	ISO 8690	Good
Colours		Uni: 6

The above information is subject to modification for the benefit of further improvement (08/17).

Tarkett's instructions regarding installation, cleaning and maintenance should be observed. Please contact Tarkett at the address shown for these instructions.

CUSTOMS TARIFF : 482050000000F



Logistics Information General Information



TARKETT GDL S.A.
Report No. TA 1302-638

Cleanroom[®] Suitable Materials

Protectwall 2CR
Particle (vs. PA6): ISO 1

Flooring & Coating

Qualification Certificate

We hereby certify that the material stated below, provided by

TARKETT GDL S.A.
Wiltz, Luxembourg

has been awarded the Fraunhofer IPA CSM Certificate of Qualification with the report number TA 1302-638.

Protectwall 2CR, batch number W2904324 was tested regarding particle emission during the application of frictional stress according to VDI 2083-17. The tested material obtained the following classification:

Material pairing and test:		Suitable for Air Cleanliness Class (ISO 14644-1)	
Protectwall 2CR	vs. PA6	ISO Class:	1
Reel-on-disc test Normal force 300N			

Detailed information regarding specific product data such as date of manufacture, color, and serial number as well as test environment and parameters can be obtained from the CSM test report issued by the Fraunhofer-Gesellschaft.

Stuttgart, June 15, 2013

Udo Sommer
Project manager



Wallgard technical data

CERTIFICATION & CLASSIFICATION	STANDARDS	Wallgard 2 mm
Description	EN 259-1	Homogeneous vinyl wall covering
	EN 15102	Yes
TECHNICAL CHARACTERISTICS	STANDARDS	Wallgard 2 mm
PU-Shield		Yes
Total thickness	ISO 24346 – EN 428	2.0 mm
Total weight/m²	ISO 23997 – EN 430	3400 g
Form of delivery	ISO 24341 – EN 426 Sheet (rolls)	Approx. 23 running metres x 200 cm Art. no. 21069_ _ _ 3 digit colour colour number
TECHNICAL PERFORMANCES	STANDARDS	Wallgard 2 mm
Total VOC emissions	ISO 16000-6 AgBB/DIBt	≤ 10 µg/m³ (after 28 days) Confirm
Reaction to fire	EN 13501-1 AS/NZS 3837	Class B s2 d0 Class B
Airborne particle emissions	ISO 14644-1 ASTM F24 F51	ISO class 4 Class A
Dimensional stability	ISO 23999 – EN 434	≤ 0.40 %
Light fastness	EN ISO 105-B02	≥ level 7
Chemical resistance	ISO 26987 – EN 423	Excellent
Bacteria resistance	ISO 846:Part C	Does not favour growth
Seam strength	EN 684	Average value: ≥ 240 N/50 mm Individual values: ≥ 180 N/50 mm

The above information is subject to modification for the benefit of further improvement (08/17).

Tarkett's instructions regarding installation, cleaning and maintenance should be observed. Please contact Tarkett at the address shown for these instructions.

CUSTOMS TARIFF : 482050000000F



Surface treatment



Logistics Information



General Information



Tarkett AB
Report No. TA 1411-737

Cleanroom® Suitable Materials

Wallgard
Particle (vs. PA6): ISO 4

Flooring & Coating

Qualification Certificate

We hereby certify that the material stated above, provided by

Tarkett AB
Ronneby, Sweden

has been awarded the Fraunhofer IPA CSM Certificate of Qualification with the report number TA 1411-737.

Wallgard (color: 3388011/white) was tested regarding particle emission during the application of frictional stress according to VDI 2083-17. The tested material obtained the following classification:

Material pairing and test		Suitable for Air Cleanliness Class (ISO 14644-1)
Wallgard (3388011/white)	vs. PA6	ISO Class: 4
Reel-on-disc test Normal force 300N		

Detailed information regarding specific product data such as date of manufacture and serial number as well as test environment and parameters can be obtained from the CSM test report issued by the Fraunhofer-Gesellschaft.

Stuttgart, January 20, 2015

L.A.
Project manager





THE COMPLETE CLEAN ROOM SOLUTION

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/ +54 9 11 44 46 88 82

Bolivia - Colombia - Ecuador - Panama - Paraguay- Peru - Trinidad and Tobago - Venezuela:

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+55 11 95494 0069

Mexico /Central America:

Tarkett Latam Mexico – Tel. +55 11 98410 9310