

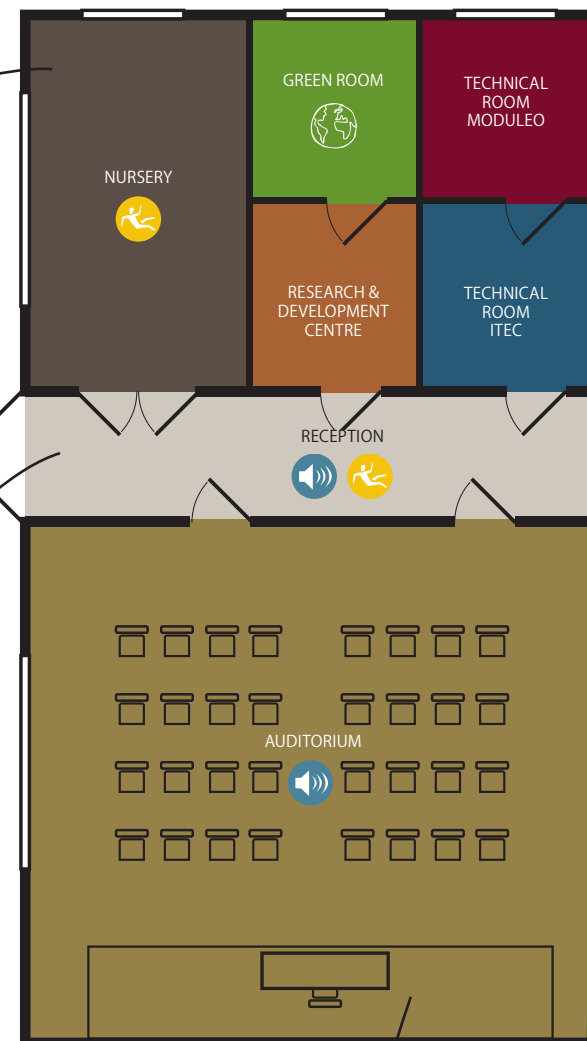
# FLOORING SOLUTIONS FOR Education



18

R&D  
P. 26

1ST FLOOR



NURSERY  
P. 20

RECEPTION  
P. 14

AUDITORIUM  
P. 16

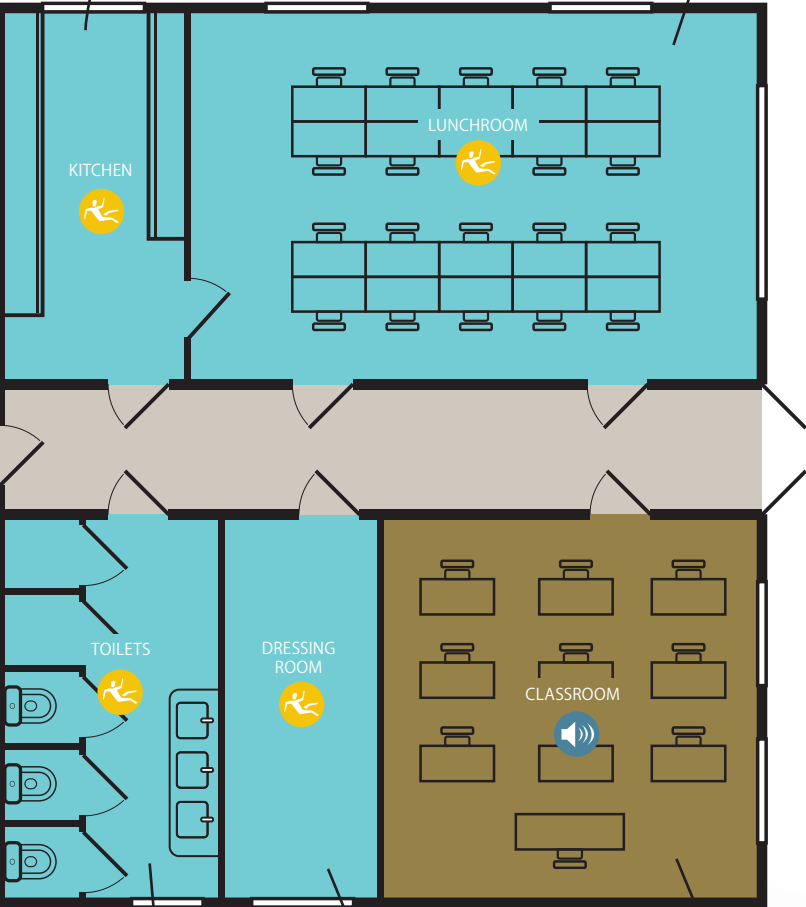


20



14

DISCOVER OUR STYLISH  
RANGE OF FLOORS  
AND EDUCATION  
SOLUTIONS.



A Solid Company  
04

Modular Planks & Tiles  
06Contract Vinyl on Rolls  
08

## Solutions

Solutions  
12

Moduleo  
22



Itec  
24

Centre  
26

28



## Standards & Norms

p. 16



A black and silver fountain pen and its cap. The pen is shown horizontally, with the cap removed and placed above it. The pen has a black barrel with silver-colored accents at the clip, the band near the nib, and the nib itself. The cap is also black with silver-colored bands at the top and bottom. The nib is visible at the bottom left of the pen.

# A Solid Company



IVC Group HQ, Avelgem, Belgium

**The IVC Group was established in 1997 and quickly developed into an independent powerhouse in the market of synthetic flooring solutions.**

Originating in Belgium, the IVC Group is currently active and producing on two continents, delivering first-rate products and services to more than 100 countries around the world. As Europe's

residential market leader in resilient flooring and a world-class manufacturer of premium vinyl, laminate and LVT flooring products for residential and commercial applications, IVC strives to satisfy the demands of its customers and partners in each stage of the game.

Every day, the more than 1.320 members of the IVC Group family bring to life our company creed and commitment to a unique range of floors that were designed to set trends and inspire confidence and style.

At IVC Group, we presume nothing and pay attention to everything, and that has allowed us to break the mould for more than 15 years.

## Dedicated service

**Education projects** are never straightforward, as they involve many stages and stakeholders. In such a context, service is key. With the IVC Group, you will get a catalogue of diverse flooring products and one easy point of access and contact. Our education consultants will also make sure that your choice of floor meets health and safety requirements and complies with current legislative and environmental codes.

## A trustworthy partner for collaborations that deliver results

The IVC Group does more than just supply floors. In every stage of the process, and in every room and space, we propose tailor-made solutions that match the unique vision of our partners. Always painting the picture in full, the IVC Group has not only become a residential market leader but we also aspire to build up the same credentials and experience towards commercial flooring projects.

The IVC Group offers a tried and tested blend of quality and elegance that readily corresponds to the specific functions and detailed specifications of your next development or refurbishment. And all your employees, customers and guests will enjoy the practical benefits and the aesthetic freedom our collections afford.

Working in close rapport with architects, project developers, contractors and local stakeholders, our experts are able to help bring your next education project to life, with floors that put the finishing touch to every room and space.

Because at IVC Group we believe in flooring solutions that build sustainable visions from the ground up.

# Why Work with the IVC Group?

Because as your next project partner, we offer:

I

Top-quality products that meet the highest standards

II

A long tradition of innovation in flooring solutions

III

An extensive choice in floor specs and product designs

IV

Fashion-forward collections that capture today's market trends

V

A portfolio of strong international brands

VI

Robust technical knowhow and industry expertise

VII

Hands-on customer services and dedicated sales team

VIII

Reliable and responsive collaborations and partnerships

IX

A huge own production capacity guaranteeing fast worldwide delivery

X

A socially responsible and sustainable outlook on the world of flooring



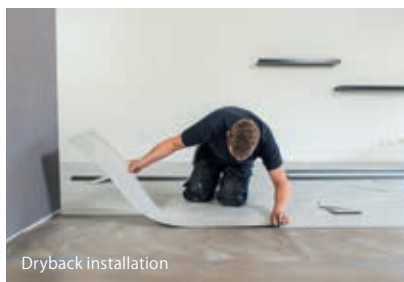


Moduleo Transform Verdon Oak 24962

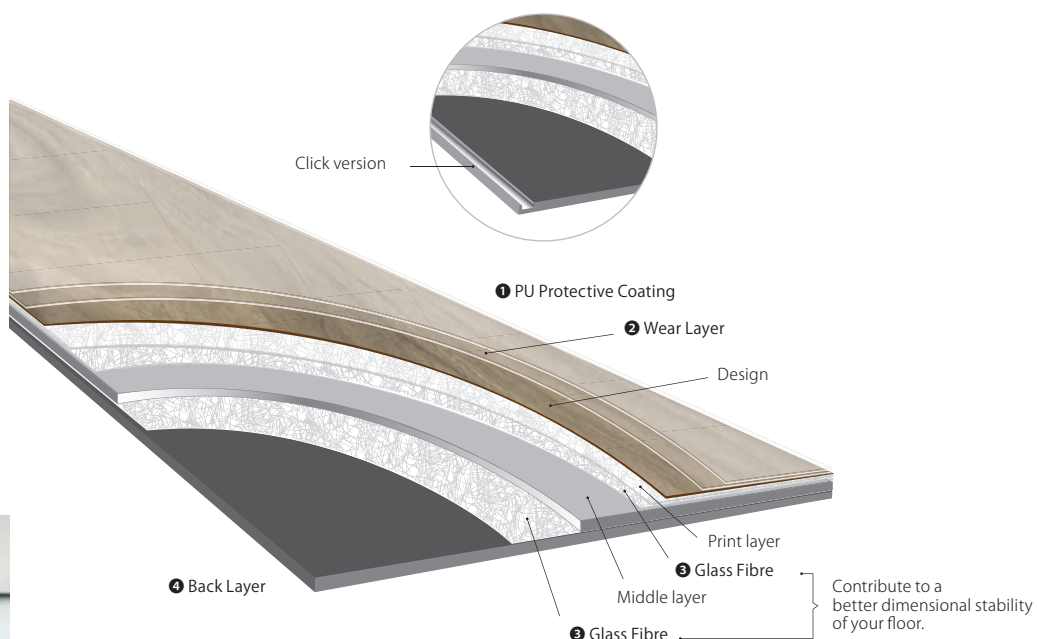
## What?

Moduleo specialises in the development and production of high-quality, modular vinyl floors for **residential and commercial use**. Offering a diverse range of stylish planks and tiles with unparalleled 'green' credentials, Moduleo is an industry-expert in natural-looking and durable luxury vinyl flooring.

All Moduleo products are available in a click version (floating installation) and in a dryback version (adhesive required).



## Composition



## Composition

Thanks to its unique composition, a Moduleo plank or tile offers many advantages to its users. The glass fibre and synthetic layers safeguard your dimensional floor stability, while the wear layer guarantees a long and low-maintenance life. In addition, all our products have a Protectonite® PU protective coating that offers extra resilience against scuffs and scratches, as well as a moisture-resistant and uniquely textured finish.

- ❶ PU protective coating: offers extra resilience against scuffs and scratches, as well as a moisture-resistant and premium finish with added texture which contributes to the natural look of our plank and tiles.
- ❷ Wear layer: first protective layer on top of the printed design.
- ❸ Glass fibre layers: contribute to a better dimensional stability of your floor.
- ❹ Back layer: a sound absorbing back layer that, thanks to its refined texture, contributes to an easy installation of our Moduleo planks and tiles.



Moduleo Transform Latin Pine 24868

## Collections

### Select

Beautiful and durable, Select is ideal for any area of the family home. Combining the natural look of stone and wood with the durability of vinyl technology, Select is scuff-proof with a Protectonite® PU protective layer, moisture-resistant (making it ideal for kitchens and bathrooms) and easy to clean. Select can deal with even the most demanding environments and comes with a 7-year commercial warranty.

### Transform

The Moduleo Transform range features a hard-wearing top layer, making it ideal for commercial as well as domestic applications. Available in wood and stone effects, Transform features a thick Protectonite® PU coating that is easy to clean, ensuring that your floor is well-protected from scuffs and stains. Transform is moisture-resistant and has an anti-slip rating of R10.

### Impress

Our latest collection's name immediately makes clear what the collection represents: a truly unique impression. Moduleo Impress, an exclusive concept of modular vinyl floors for residential and commercial use, bringing to life the authenticity and detailed refinement of wood with character, is a tribute to the beauty of nature. The 'Embossed in register' procedure contributes to the true-to-nature look and feel of the Impress floors. The result? An answer to all contemporary interior decorating trends and needs of the contract market (for instance a 0.55mm wear layer and a 10-year commercial warranty). In short: a floor that impresses.

Select, Transform and Impress are delivered with ISO 9001, ISO 14001, BRE A+ rating, A+ Indoor Air Quality (IAQ) & BREEAM accreditation.



Itec Batirox Scarlet 690

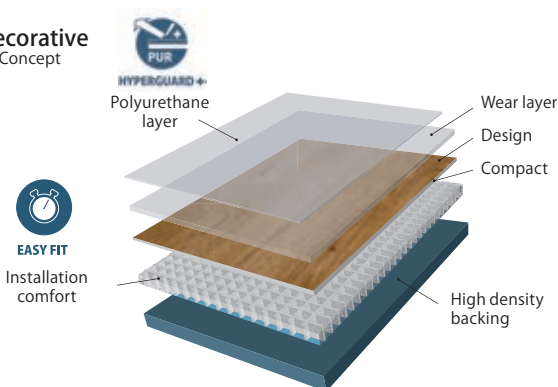
## What?

Itec produces heavy-duty vinyl floors on 2, 3 and 4m rolls for the contract and semi-contract market, meeting the most exacting market demands in terms of build quality, health and safety and the environment. Itec is an expert in safety and acoustic flooring and aims to produce first rate vinyl floors that can match any commercial application or setting. Itec Isafe floors (see page 12) are designed to withstand high levels of foot traffic and come with a permanent slip resistance to provide style, stability and unrivalled safety in the most demanding circumstances. Our acoustic ranges (see page 10), for their part, offer carpet-like quiet thanks to their padded back, which is also a great thermal insulator. This results in an impressive reduction of footfall and ambient noises.

## Composition

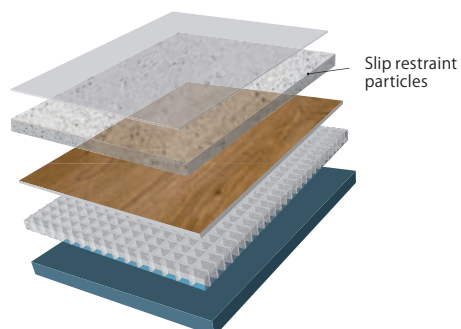
### Itec® EN 649 Decorative

Planet, Penta, Atom, Concept



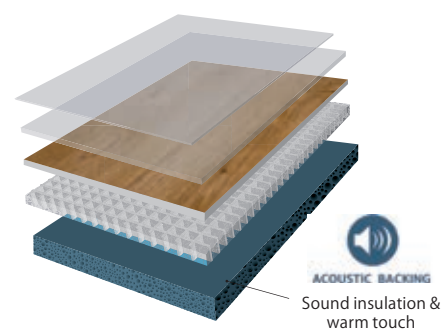
### Itec® EN 649 Safety

Isafe one, Isafe apex



### Itec® EN 651 Acoustic

Batirox, Silento, Axento, Optimise



## A fitting solution for every commercial project

Whether you have a project in healthcare, education, hospitality or office building, Itec has the perfect flooring solution tailored to your specific requirements and needs. Furnishing rooms with high-grade performance floors, we aim to inspire wellbeing and comfort around the house, and around the clock.



Itec Concept Papilio 693



Itec Axento Camelia 676



Itec Axento Botticelli 698



Itec Isafe One Threadplate 592

Next to flooring for educational premises, we also offer high-level flooring solutions for:

- Hospitality
- Health & Care
- Offices
- Social housing
- Retail
- ...



# Acoustic Flooring Solutions



Itec Silento Salzburg 690

## Keep quiet and carry on

Headmasters and teachers do love the sound of silence: when things go absolutely quiet, it generally means that they have successfully captured the attention (and imagination) of the pupils. When teaching a class, in fact, they can do without the chatter and noise of stomping children seeping in from the corridors. The PE teacher and dinner lady will agree: an indoor school environment thrives on

peace and quiet, a low-pitched atmosphere of studious and well-behaved calm. Playgrounds were designed for such tremors and pandemonium: that is why they are made of concrete. Inside the classroom and hallowed halls of education, however, IVC's acoustic floor will ensure order and serenity, because they were designed to suppress surround sounds and children hard-stepping out of line.

There are basically two types of sound that can penetrate the classroom (and disturb the concentration): impact sound and ambient sound.

**Impact sound** is a fact of a school's everyday life: as foot traffic connects with the surface of the corridor or classroom floor, sound waves are sent up and down its spine. These waves are transmitted through the flooring and make themselves heard

## NEW ON OPTIMISE 50/70, BATIROX: FONGI-BACTERIOSTATIC PROTECTION

Aspergillus niger (ATCC 6275)

Clavosporium globosum (ATCC 6205)

Paecilomyces variotii (ATCC 18502)

Penicillium phragmophilum (ATCC 36839)

Glododum virens (ATCC 9645)

Saphylococcus aureus ATCC 6538 - (MRSA)

Escherichia coli ATCC 8739 - (MRSA)

**SANITEC® TREATMENT**

SANITEC is a new antibacterial treatment of your favourite project floor. It is an active treatment\* of the entire material of the product, integrated in the wear layer, and provides a permanent hygienic protection immediately after the product has been installed\*\*.

\*\*ISO846-A and ISO22196

\*Zn pyrithione, BBIT, OIT

in the adjoining rooms. Thanks to their high-density padding and class-leading insulation features, the IVC Group's acoustic floors are able to reduce impact sound levels up to an impressive 20dB.

The right acoustic floor covering acts as a buffer between of the pattering and scuffling of feet and the solid subfloor, which is typically made of concrete. Not only the thickness of the slab will determine how much noise is able to penetrate the barrier, but also the covering on top. With the right thickness, high-quality materials and performance specs, a floor covering can play a crucial role in combatting the proliferation of sound and blocking out undue decibels. The IVC Group's collection of acoustic flooring, which is available in a range of stylish and expressive decors, has been especially designed to reduce the impact sound, making for an agreeably quiet study environment that is resistant against squeaky chairs and youthful commotion.

Insulated, fully functional, economic, and easily installed floors that come in variety of modern prints, colours and photorealistic designs: just what a school needs!

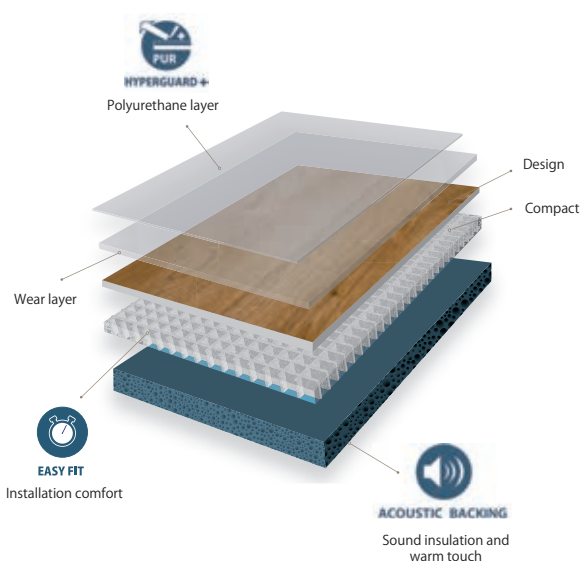
Our **acoustic floors** provide:

- increased noise reduction from adjoining classrooms
- excellent insulation that muffles footfalls and ambient sounds in hallways
- stunning patterns that make a real impact
- a combination of high-quality specs that work together to deliver outstanding results
- a long life of easy maintenance (starting with an easy installation)
- a smooth and padded surface that is pleasant to walk on
- unrivalled hygienic features

The IVC Group proposes:

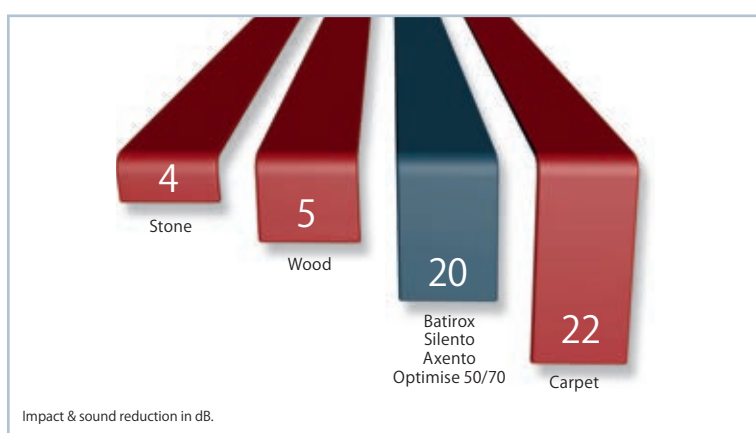
**itec**® Contract Floors **BATIROX / SILENTO**  
**AXENTO / OPTIMISE 50/70**

- ★ Excellent sound absorption (up to 20dB)
- ★ Padded backing for thermal comfort
- ★ Carpet-like quiet with hypoallergenic benefits
- ★ Effortless installation
- ★ Sanitec treatment\*



(\*) On Optimise 50/70, Batirox

## Noise reduction





# Safety Flooring Solutions



## Paving the way for pupils and students

Health and safety in schools is of paramount importance. Parents will expect that a school opts for a floor that is pleasant and comfortable to walk on while curbing the inherent danger of accidents and slips. The right choice of floor will give the children the comfort, confidence and freedom of movement they deserve and need in order to feel safe and comfortable.

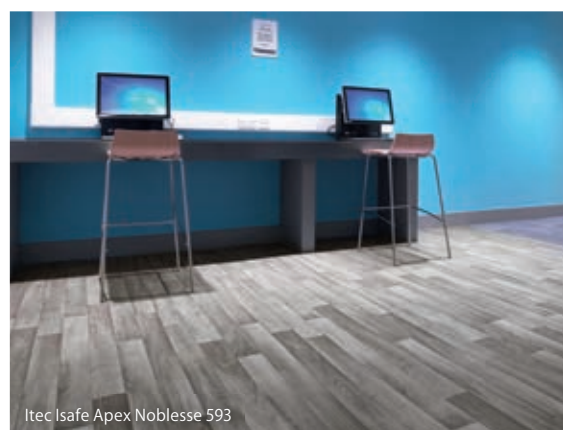
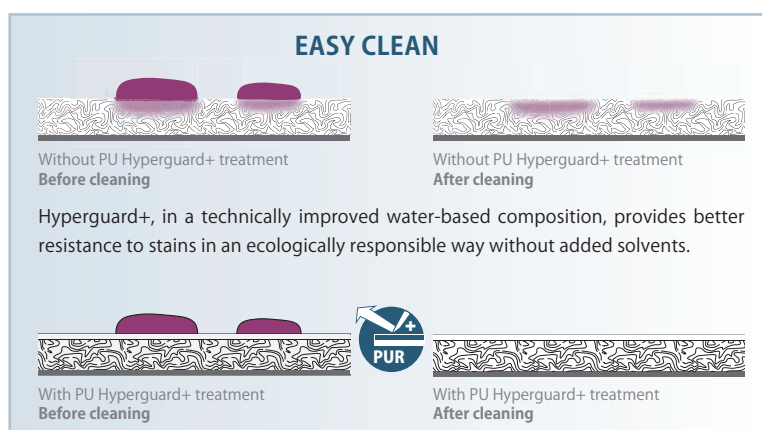
The IVC Group's collection of safety floors is not only functional and impervious to slips and slides, but also decorative, hygienic, easy to replace and keep in pristine condition, while offering the type of all-round quality that does not break the bank.

The school's risky areas (dressing rooms, showers, kitchen, any room

with a sink...), moreover, greatly benefit from a water-resistant flooring solution that delivers extra comfort and grip.

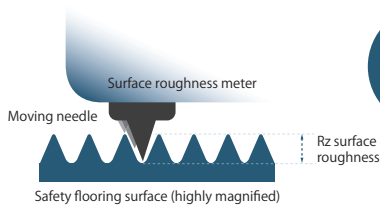
Our **safety floors** offer:

- slip-resistant comfort floors
- water-resistant protection in wet rooms



## Surface roughness measurement [Rz]

The Surface Roughness Measurement suggests the slip potential of the floor in wet conditions

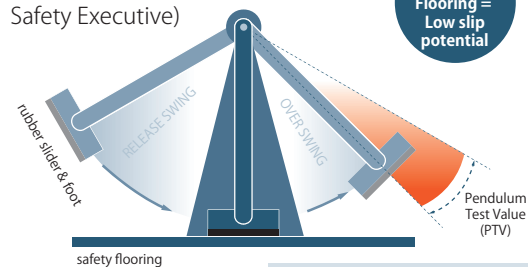


Isafe Safety Flooring = Low slip potential

Rz Surface Roughness	Slip Potential
Below 10 $\mu\text{m}$	High
10 - 20 $\mu\text{m}$	Moderate
<b>20+ <math>\mu\text{m}</math></b>	<b>Low</b>

## Pendulum test [BS 797-2:2002]

The Pendulum Test is the preferred measurement of the HSE (Health & Safety Executive)



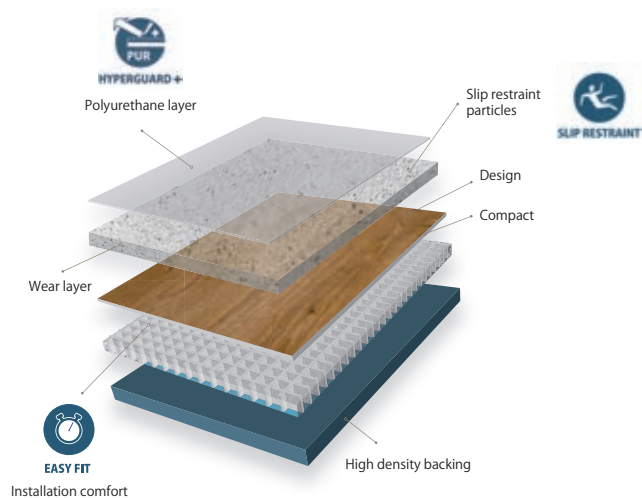
Isafe Safety Flooring = Low slip potential

	Pendulum Test Value
High Slip Potential	0-24
Moderate Slip Potential	25-35
<b>Low Slip Potential</b>	<b>36+</b>

The IVC Group proposes:

**itec** ISAFE APEX / ONE  
Contract Floors

- ★ Industry-tested performance features for advanced foothold and low potential for slips (up to 36+ TRRL - R11)
- ★ Beautiful collection of designs inspired by nature
- ★ High-spec protection
- ★ Low-key maintenance
- ★ Easy to fit and ready to use in busy public areas, such as courtyards or care centres for children



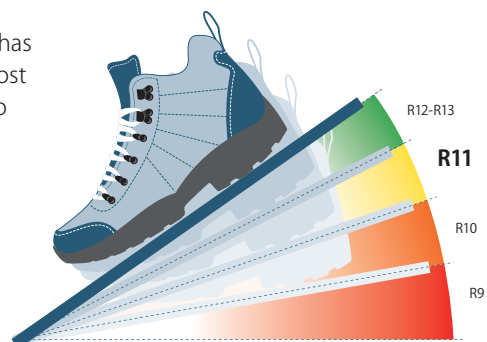
## Ramp test

Slip Angle (°)	Classification
35+	R13
27 - 35	R12
<b>19 - 27</b>	<b>R11</b>
10 - 19	R10
6 - 10	R9

[DIN 51130:2010]

The Ramp test has become the most widely used slip resistance test

Isafe Safety Flooring = Classification R11



# Reception Area



Moduleo Impress Country Oak 54880

” Great designs  
for an impression  
that lasts a  
lifetime

Moduleo Impress  
Country Oak 54925

Moduleo Transform Concrete 40945

Moduleo Transform Verdon Oak 24870

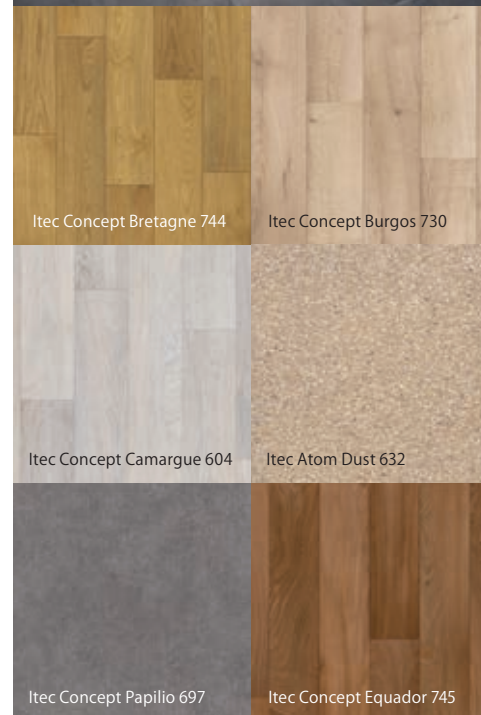
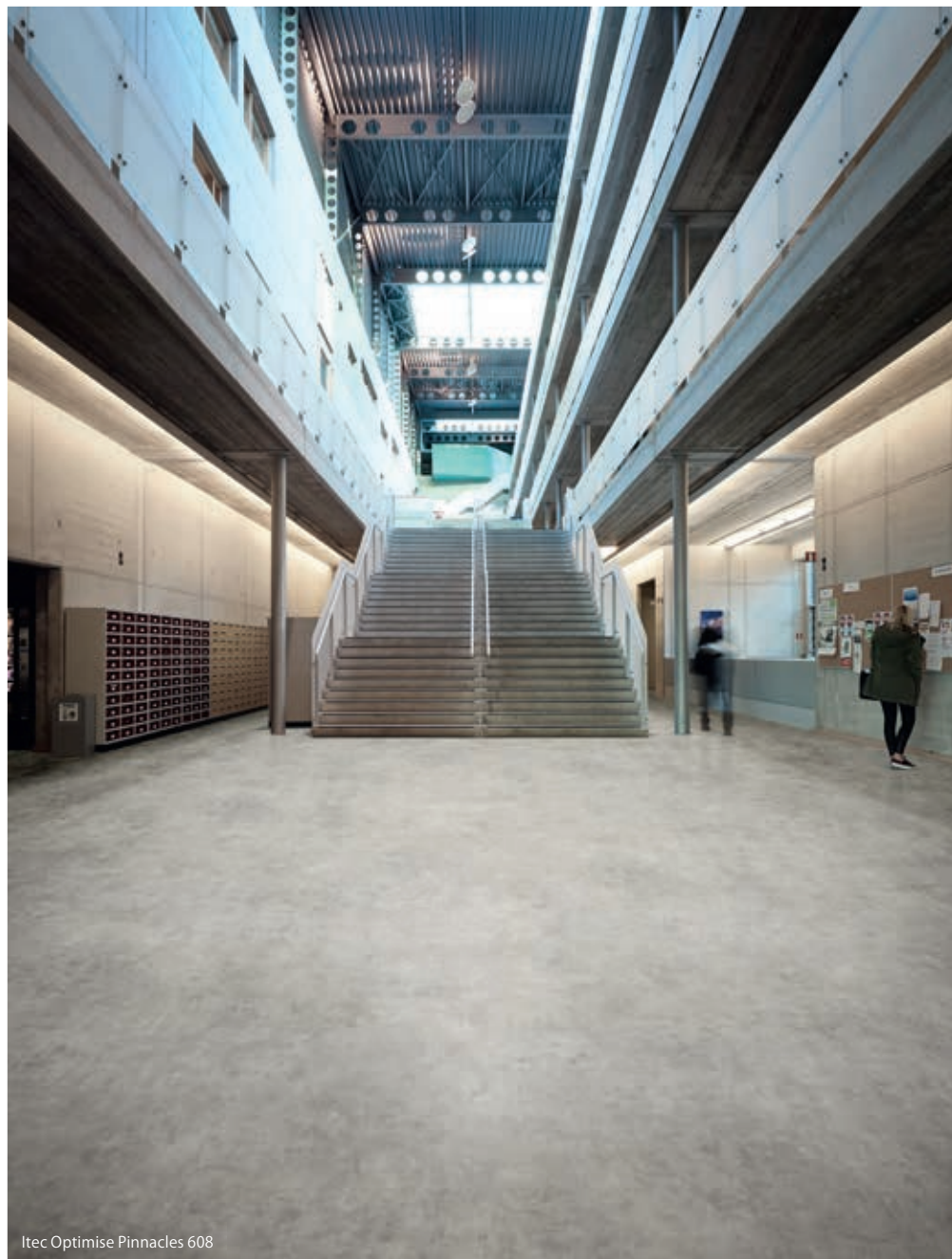


Moduleo Transform Concrete 40986

## The reception area

- is the first space new pupils and their parents see when they come to enrol. Better make a first impression that counts.
- has to be able to cope with the many stories that pass along throughout the year, from muddy shoes to soaking wet coats.
- tends to 'survive' several generations, just like its floor.





The IVC Group proposes:

**itec®** CONCEPT / ATOM / OPTIMISE 70  
Contract Floors

- ★ A wide range of inviting colours and moods
- ★ Throws up a performance shield that can deal with heavy traffic
- ★ A confident blend of affordable quality and charm
- ★ Easy to keep in mint condition

**moduleo®** TRANSFORM / IMPRESS  
Design Floors

- ★ Realistic, large and trendy designs with little repetition of the print and pattern
- ★ Effortless dryback installation (also available in click)
- ★ High-grade strength with double glass-fibre support and R10 slip restraint
- ★ Safeguards the indoor air quality

# Classroom & Auditorium



## The classroom and auditorium

- is a safe and inspiring educational environment.
- is shared by many people so safety and health are key considerations.
- is sure to offer a healthy educational environment with our clean indoor air standard.
- has to endure tons of chattering visitors and the movement of desks and chairs.

” A healthy and inspirational educational environment

Itec Optimise Navarra 693

Itec Concept Papilio 693

Itec Raffia 697

Itec Raffia 693



Itec Axento Camelia 676



Moduleo Impress Country Oak 880



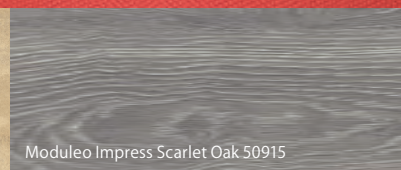
Moduleo Impress Scarlet Oak 50274



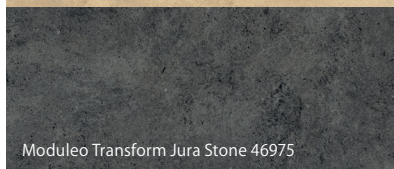
Itec Concept Rochus 617



Moduleo Transform Concrete 40233



Moduleo Impress Scarlet Oak 50915



Moduleo Transform Jura Stone 46975



Moduleo Impress Country Oak 54925

## The IVC Group proposes:

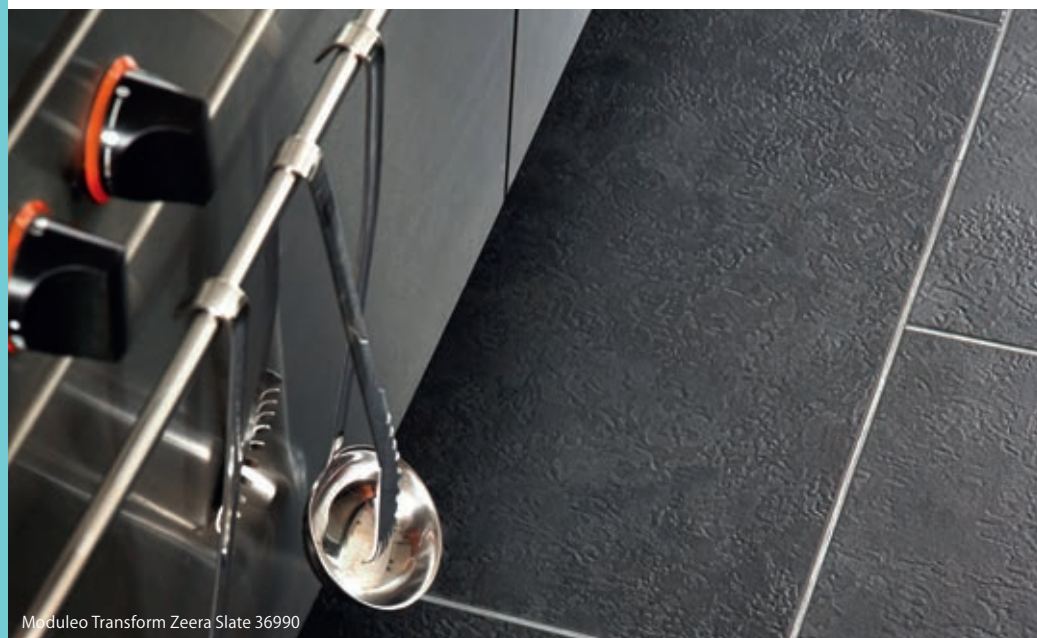


- ★ Strong thermal and acoustic qualities
- ★ A wide range of inviting colours and moods in one eco-friendly package
- ★ Can deal with heavy traffic thanks to its Hyperguard+® protective wear layer
- ★ Its easy maintenance and hypoallergenic properties trump the competition



- ★ Eco-smart flooring choice with unparalleled 'green' credentials
- ★ Easy to clean, ensuring the floor is well-protected from scuffs and stains
- ★ Inspires calm and quiet, muffling the sound of moving chairs and the patter of children
- ★ Scratch- and scuff-resistant, courtesy of our unique Protectonite® PU wear layer

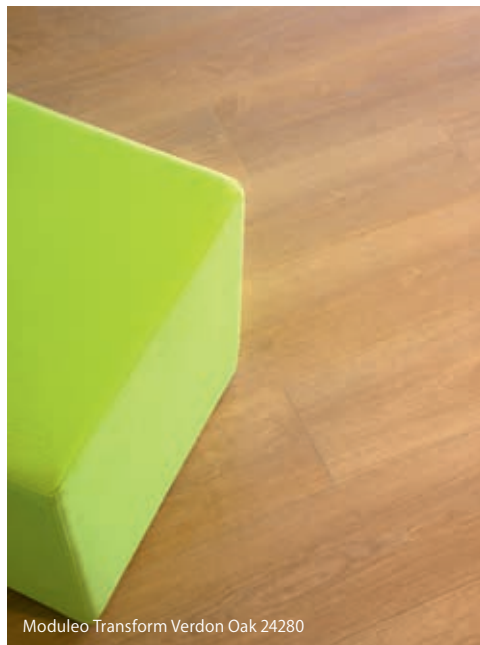
# Kitchen, Lunchroom Toilet & Dressing Room



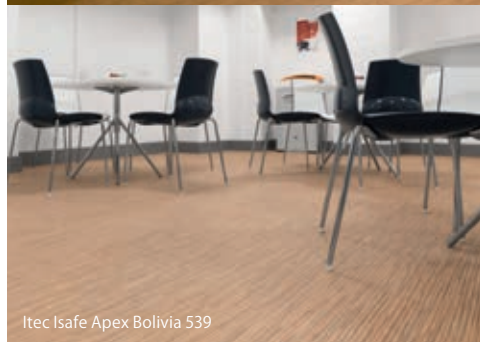
## The kitchen, lunchroom, toilet & dressing room

- are subject to spillages and splashes, so better opt for a 'not slippery when wet' floor.
- often have to cope with dirt, but that doesn't necessarily imply more cleaning.





Moduleo Transform Verdon Oak 24280



Itec Isafe Apex Bolivia 539



Moduleo Transform Baltic Maple 28230



Moduleo Transform Azuriet 46250



Itec Concept Pinnacles 690

“Health and safety are key considerations in these rooms

## The IVC Group proposes:



- ★ Many smart designs to suit as many tastes
- ★ Industry-tested performance features for advanced foothold and low potential for slips (up to 36+ TRRL - and Isafe's R11)
- ★ Hygienic, counteracting the growth of bacteria and mildew
- ★ Made to resist heat, damp and conventional wear and tear



- ★ Chameleon designs that are distinctly not run-of-the-mill
- ★ Perfectly moisture- and slip-resistant thanks to its unique composition
- ★ Protectonite® wear layer for scuff and stain resistance delivering a 10-year commercial warranty against wear
- ★ Minimises risks of slip (R10 rating)

# Nursery



Moduleo Select Classic Oak 24228

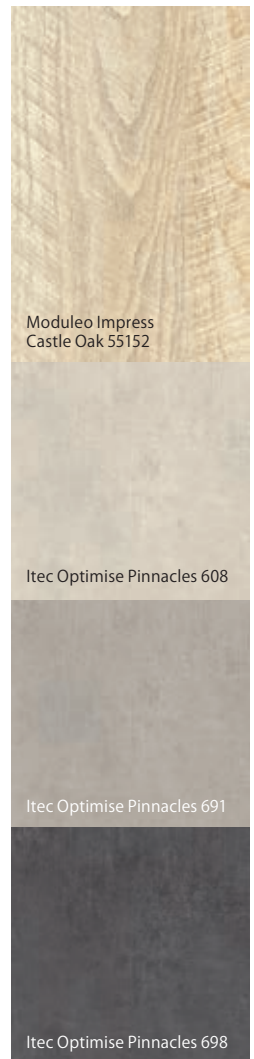
## The nursery

- should offer sufficient space to play safely without the risk of injuries.
- require extra attention in the field of health and hygiene.
- require a well-insulated floor, so kids feel comfortable playing on it.
- need to be scratch- and scuff-resistant and ready to deal with the hustle and bustle of toddlers.



Itec Optimise Rochus 624

” A safe and healthy floor that withstands several generations



Moduleo Impress  
Castle Oak 55152

Itec Optimise Pinnacles 608

Itec Optimise Pinnacles 691

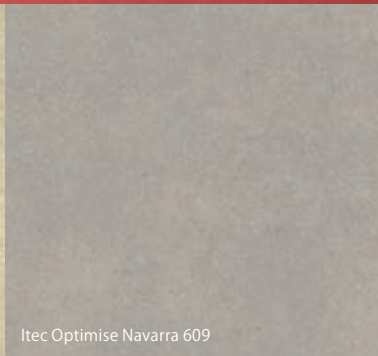
Itec Optimise Pinnacles 698



Itec Silento Salzburg 619



Moduleo Select Cantera 46130



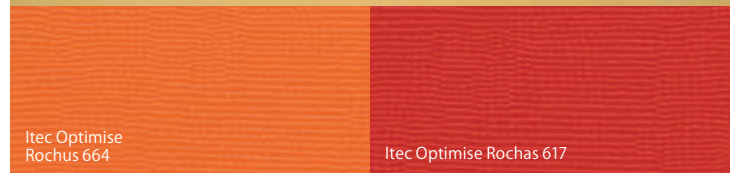
Itec Optimise Navarra 609



Moduleo Impress Scarlet Oak 50985



Itec Optimise Rochas 654



Itec Optimise Rochus 664

Itec Optimise Rochas 617

The IVC Group proposes:

**itec®** OPTIMISE 50/70 / SILENTO  
Contract Floors

- ★ Breath-taking designs that allow for unique patterns and variations
- ★ Guaranteed long-lasting quality
- ★ Built to cope with frequent traffic
- ★ Slip-resistant, with a rating of R10
- ★ Sanitec, antibacterial treatment

**moduleo®** TRANSFORM / IMPRESS  
Design Floors

- ★ Versatile range of designs
- ★ Contributes to a healthy indoor air climate
- ★ Easy-going maintenance regime
- ★ Strong thermal insulation



# Technical Specifications

modular commercial flooring

## MODULEO® TRANSFORM DRYBACK



### PRODUCT INFORMATION | INFORMATION PRODUIT | PRODUKTDATEN | PRODUCTINFORMATIE

Level of use   Classe d'usage   Einstufung   Gebruiksklasse	EN ISO 10874	23 - 33 - 42
Total thickness   Epaisseur totale   Gesamtstärke   Totale dikte	EN ISO 24346	2,5 mm (100 mils)
Wear layer   Couche d'usure   Nuttschicht   Slijtlaag	EN ISO 24340	0,55 mm (22 mils)
Wear layer PUR treatment   Traitement polyuréthane   Oberflächenvergütung   PUR slijtlaag behandeling		Protectonite®
Total weight g/m²   Poids total g/m²   Flächengewicht g/m²   Totaal gewicht g/m²	EN ISO 23997	4.059

### SIZE & PACKING | DIMENSIONS & EMBALLAGE | ABMESSUNG & VERPACKUNG | FORMAAT & VERPAKKING

Planks A   Lames A   Dielen A   Planken A	EN ISO 24342	19,6 x 132,0 cm (7,72" x 51,97")
Planks B   Lames B   Dielen B   Planken B	EN ISO 24342	24,6 x 149,8 cm (9,69" x 58,98")
Tiles A   Dalles A   Fliesen A   Tegels A	EN ISO 24342	32,9 x 65,9 cm (12,95" x 25,94")
Tiles B   Dalles B   Fliesen B   Tegels B	EN ISO 24342	49,3 x 49,3 cm (19,41" x 19,41")
Box planks A   Boîte de lames A   Ein Karton Dielen A   Doos planken A	14 pcs/box	3,62 m²/box (38,99 ft²/box)
Box planks B   Boîte de lames B   Ein Karton Dielen B   doos planken B	10 pcs/box	3,69 m²/box (39,67 ft²/box)
Box tiles A   Boîte de dalles A   Ein Karton Fliesen A   Doos tegels A	16 pcs/box	3,47 m²/box (37,34 ft²/box)
Box tiles B   Boîte de dalles B   Ein Karton Fliesen B   Doos tegels B	14 pcs/box	3,4 m²/box (36,63 ft²/box)

### TEST RESULTS | PERFORMANCES TECHNIQUES | TESTERGEBNISSE | TESTRESULTATEN

Inflammability   Classement feu   Brandverhalten   Brandklasse	EN 13501	Bfl-S1
Scratch resistance   Résistance aux rayures   Verschleißverhalten   Krassvastheid	EN 660-2	Class T
Squareness & straightness   Rectitude des arêtes et de l'équerrage   Maßstabilität   Rechtheid & rechthoekigheid	EN ISO 24342	≤ 0,25 mm (Tiles B) ≤ 0,35 mm (Planks A, B & Tiles A)
Slip resistance   Glissance   Rutschhemmung   Antislip	EN 13893	DS
Slip restraint   Résistance au glissement   Rutschsicherheit   Slipweerstand	DIN 51130	R10
Residual indentation   Poinçonnement rémanent   Resteindruckverhalten   Restindruk	EN ISO 24343-1	Norm: ≤ 0,10mm Average result measured: 0,03mm
Furniture leg resistance   Résistance au pied de meuble   Möbelschubtest   Meubelpoottest	EN ISO 16581	No cracks, no damage
Curling   Incurvation   Schüsselung   Krulling	EN ISO 23999	≤ 2 mm
Electrical resistance   Résistance électrique   Elektrischer Leitwiderstand   Elektrische weerstand	EN 1081	≤ 10 <sup>9</sup> Ohm
Dimensional stability   Stabilité dimensionnelle   Dimensionsstabilität   Dimensionele stabiliteit	EN ISO 23999	Norm: ≤ 0,25 % Average result measured: ≤ 0,05 %
Heat insulation   Isolation thermique   Wärmeleitfähigkeit   Thermische isolatie	EN 12524	0,25 w/(m.K)
Thermal resistance R   Résistance thermique R   Wärmedurchlasswiderstand R   Warmtedoorlaatweerstand R	EN ISO 12664	0,0100 m².K/W
Electrostatic performance   Accumulation de charges électrostatiques   Antistatik   Electrostatische propensiteit	EN 1815	< 2 kV
Formaldehyde group   Classe formaldehyde   Formaldehyd Klassifizierung   Formaldehydklasse	EN 717-1	E1
Acoustic insulation   Efficacité acoustique   Trittschallverbesserungsmaß   Kontaktgeluidisolatie	EN 140-8	4 dB
Castor chair resistance   Résistance aux chaises à roulettes   Stuhlrollenbeanspruchung   Bestand tegen stoelwielen	EN 425	No damage to wearlayer, no delamination
Stain resistance   Résistance aux taches   Fleckenbeständigkeit   Vlekbestendigheid	EN ISO 26987	Very good   Très bon Sehr gut   Zeer goed
Light fastness   Résistance à la lumière   Lichtechtheit   Lichtechtheid	ISO 105-B02	≥6
Underfloor heating   Chauffage par le sol   Fußbodenheizung   Vloerverwarming	EN 12524	Suitable, max 27°C   Adapté, max 27°C Geeignet, max 27°C   Geschikt, max 27°C
Warranty (year)   Garantie (ans)   Garantie (Jahre)   Garantie (jaar)		20 Residential   10 Commercial

### PRODUIT CERTIFIE NF - UPEC



Classement UPEC	U <sub>3</sub> P <sub>3</sub> E <sub>12</sub> C <sub>2</sub>
N° Certificat NF UPEC	345-010.1

## MODULEO® TRANSFORM CLICK



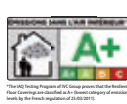
### PRODUCT INFORMATION | INFORMATION PRODUIT | PRODUKTDATEN | PRODUCTINFORMATIE

Level of use   Classe d'usage   Einstufung   Gebruiksklasse	EN ISO 10874	23 - 33 - 42
Total thickness   Epaisseur totale   Gesamtstärke   Totale dikte	EN ISO 24346	4,5 mm (180 mils)
Wear layer   Couche d'usure   Nuttschicht   Slijtlaag	EN ISO 24340	0,55 mm (22 mils)
Wear layer PUR treatment   Traitement polyuréthane   Oberflächenvergütung   PUR slijtlaag behandeling		Protectonite®
Total weight g/m²   Poids total g/m²   Flächengewicht g/m²   Totaal gewicht g/m²	EN ISO 23997	7.681

### SIZE & PACKING | DIMENSIONS & EMBALLAGE | ABMESSUNG & VERPACKUNG | FORMAAT & VERPAKKING

Planks A   Lames A   Dielen A   Planken A	EN ISO 24342	19,1 x 131,6 cm (7,52" x 51,81")
Planks B   Lames B   Dielen B   Planken B	EN ISO 24342	24,1 x 149,4 cm (9,49" x 58,82")
Tiles   Dalles   Fliesen   Tegels	EN ISO 24342	32,4 x 65,5 cm (12,76" x 25,79")
Box planks A   Boîte de lames A   Ein Karton Dielen A   Doos planken A	7 pcs/box	1,76 m²/box (18,94 ft²/box)
Box planks B   Boîte de lames B   Ein Karton Dielen B   doos planken B	6 pcs/box	2,16 m²/box (23,25 ft²/box)
Box tiles   Boîte de dalles   Ein Karton Fliesen   Doos tegels	7 pcs/box	1,49 m²/box (15,99 ft²/box)

The warranty covers manufacturing defects and premature wear in the event of normal use | La garantie couvre les vices de fabrication et l'usure précoce en usage normal. | Die Garantie deckt Herstellungsfehler und vorzeitigem Verschleiß bei normaler Nutzung. | De garantie dekt fabricagefouten en voortijdig afslijten bij normaal gebruik.





## MODULEO® IMPRESS DRYBACK



### PRODUCT INFORMATION | INFORMATION PRODUIT | PRODUKTDATEN | PRODUCTINFORMATIE

Level of use   Classe d'usage   Einstufung   Gebruiksklasse	EN ISO 10874	23 - 33 - 42
Total thickness   Epaisseur totale   Gesamtstärke   Totale dikte	EN ISO 24346	2,5 mm (100 mils)
Wear layer   Couche d'usure   Nutzschrift   Slijtlaag	EN ISO 24340	0,55 mm (22 mils)
Wear layer PUR treatment   Traitement polyurethane   Oberflächenvergütung   PUR slijtlaag behandeling		Protectonite®
Total weight g/m²   Poids total g/m²   Flächengewicht g/m²   Totaal gewicht g/m²	EN ISO 23997	4.059
Embossed in register   Grainage en rapport   Synchronprägung   Register embossing		

### SIZE & PACKING | DIMENSIONS & EMBALLAGE | ABMESSUNG & VERPACKUNG | FORMAAT & VERPAKKING

Planks   Lames   Dielen   Planken	EN ISO 24342	19,6 x 132,0 cm (7,72" x 51,97")
Box planks   Boîte de lames   Ein Karton Dielen   Doos planken	14 pcs/box	3,62 m²/box (38,99 ft²/box)

### TEST RESULTS | PERFORMANCES TECHNIQUES | TESTERGEBNISSE | TESTRESULTATEN

Inflammability   Classement feu   Brandverhalten   Brandklasse	EN 13501	Bfl-S1
Scratch resistance   Résistance aux rayures   Verschleißverhalten   Krasvastheid	EN 660-2	Class T
Squareness & straightness   Rectitude des arrêtes et de l'équerrage   Maßstabilität   Rechtheid & rechthoekigheid	EN ISO 24342	≤ 0,35 mm
Slip resistance   Glissance   Rutschhemmung   Antislip	EN 13893	DS
Slip restraint   Résistance au glissement   Rutsicherheit   Slipweerstand	DIN 51130	R10
Residual indentation   Poinçonnement rémanent   Resteindruckverhalten   Restindruk	EN ISO 24343-1	Norm: ≤ 0,10mm Average result measured: 0,03mm
Furniture leg resistance   Résistance au pied de meuble   Möbelschubtest   Meubelpoottest	EN ISO 16581	No cracks, no damage
Curling   Incurvation   Schüsselung   Krulling	EN ISO 23999	≤ 2 mm
Electrical resistance   Résistance électrique   Elektrischer Leitwiderstand   Electrische weerstand	EN 1081	≤ 10⁹ Ohm
Dimensional stability   Stabilité dimensionnelle   Dimensionsstabilität   Dimensionele stabiliteit	EN ISO 23999	Norm: ≤ 0,25 % Average result measured: ≤ 0,05 %
Heat insulation   Isolation thermique   Wärmeleitfähigkeit   Thermische isolatie	EN 12524	0,25 w/(m.K)
Thermal resistance R   Résistance thermique R   Wärmedurchlasswiderstand R   Warmtedoorlaatweerstand R	EN ISO 12664	0,0100 m².K/W
Electrostatic performance   Accumulation de charges électrostatiques   Antistatik   Electrostatische propensiteit	EN 1815	< 2 kV
Formaldehyde group   Classe formaldehyde   Formaldehyd Klassifizierung   Formaldehydekategorie	EN 717-1	E1
Acoustic insulation   Efficacité acoustique   Trittschallverbesserungsmaß   Kontaktgeluidisolatie	EN 140-8	4 dB
Castor chair resistance   Résistance aux chaises à roulettes   Stuhlrollenbeanspruchung   Bestand tegen stoelwielen	EN 425	No damage to wearlayer, no delamination
Stain resistance   Résistance aux taches   Fleckenbeständigkeit   Vlekbestendigheid	EN ISO 26987	Very good   Très bon Sehr gut   Zeer goed
Light fastness   Résistance à la lumière   Lichtechtheit   Lichtechtheid	ISO 105-B02	≥ 6
Underfloor heating   Chauffage par le sol   Fußbodenheizung   Vloerverwarming	EN 12524	Suitable, max 27°C   Adapté, max 27°C Geeignet, max 27°C   Geschikt, max 27°C
Warranty (year)   Garantie (ans)   Garantie (Jahre)   Garantie (jaar)		20 Residential   10 Commercial

### PRODUIT CERTIFIE NF - UPEC



Classement UPEC	U <sub>3</sub> P <sub>3</sub> E <sub>12</sub> C <sub>2</sub>
N° Certificat NF UPEC	345-012.1

## MODULEO® IMPRESS CLICK



### PRODUCT INFORMATION | INFORMATION PRODUIT | PRODUKTDATEN | PRODUCTINFORMATIE

Level of use   Classe d'usage   Einstufung   Gebruiksklasse	EN ISO 10874	23 - 33 - 42
Total thickness   Epaisseur totale   Gesamtstärke   Totale dikte	EN ISO 24346	4,5 mm (180 mils)
Wear layer   Couche d'usure   Nutzschrift   Slijtlaag	EN ISO 24340	0,55 mm (22 mils)
Wear layer PUR treatment   Traitement polyurethane   Oberflächenvergütung   PUR slijtlaag behandeling		Protectonite®
Total weight g/m²   Poids total g/m²   Flächengewicht g/m²   Totaal gewicht g/m²	EN ISO 23997	7.681
Embossed in register   Grainage en rapport   Synchronprägung   Register embossing		

### SIZE & PACKING | DIMENSIONS & EMBALLAGE | ABMESSUNG & VERPACKUNG | FORMAAT & VERPAKKING

Planks   Lames   Dielen   Planken	EN ISO 24342	19,1 x 131,6 cm (7,52" x 51,81")
Box planks   Boîte de lames   Ein Karton Dielen   Doos planken	7 pcs/box	1,76 m²/box (18,94 ft²/box)

The warranty covers manufacturing defects and premature wear in the event of normal use | La garantie couvre les vices de fabrication et l'usure précoce en usage normal. | Die Garantie deckt Herstellungsfehler und vorzeitigem Verschleiß bei normaler Nutzung. | De garantie dekt fabricagefouten en voortijdig afslijten bij normaal gebruik.





# Technical Specifications

contract vinyl on rolls

COLLECTIONS		TOTAL THICKNESS	WEAR-LAYER	CLASSIFICATION	HYPERGUARD+	QUICK CLEAN	EASY FIT	ACOUSTICAL BACKING	SLIP RESTRAINT	36+	SANITEC
<b>Isafe one</b>		2.00 mm	0.70 mm	23 - 34 - 43	⊙	⊙	⊙		R11	⊙	
<b>Isafe apex</b>		2.00 mm	0.70 mm	23 - 34 - 43	⊙	⊙	⊙		R11	⊙	
<b>Planet</b>		2.20 mm	0.40 mm	23 - 32	⊙	⊙	⊙		R10		
<b>Atom</b>		2.50 mm	0.70 mm	23 - 34 - 43	⊙	⊙	⊙		R10		
<b>Concept ultimate</b>		2.00 mm	0.70 mm	23 - 34 - 43	⊙	⊙	⊙		R10		⊙
<b>Optimise 50</b> <b>Optimise 70</b>		3.10 mm 3.40 mm	0.50 mm 0.70 mm	33 - 42 34 - 42	⊙	⊙	⊙	19 dB	R10		⊙
<b>Silento</b>		3.00 mm	0.50 mm	23 - 33	⊙	⊙	⊙	18 dB	R10		
<b>Axento design</b>		3.00 mm	0.50 mm	23 - 33	⊙	⊙	⊙	18 dB	R10		
<b>Axento wood</b>		3.00 mm	0.50 mm	23 - 33	⊙	⊙	⊙	18 dB	R10		
<b>Batirox</b>		3.20 mm	0.30 mm	23 - 31	⊙	⊙	⊙	20 dB	R10		⊙

## EN ISO 10874 EXPLAINED



21 - Domestic moderate



31 - Commercial moderate



41 - Light industrial moderate



22 - Domestic general



32 - Commercial general



42 - Light industrial general



23 - Domestic heavy



33 - Commercial heavy



43 - Light industrial heavy



34 - Commercial very heavy



PRODUCT INFORMATION	SAFETY FLOORS	COMMERCIAL DECORATIVE FLOORS			ACOUSTIC FLOORS				
	Isafe	Planet	Atom	Concept	Optimise 50	Optimise 70	Silento	Axento	Batirox
EN ISO 10874 - Level of use	23 - 34 - 43	23 - 32	23 - 34 - 43		33 - 42	34 - 42	23 - 33		23 - 31
EN ISO 24346 - Total thickness	2.00 mm	2.20 mm	2.50 mm	2.00 mm	3.10 mm	3.40 mm	3.00 mm		3.20 mm
EN ISO 24340 - Wear layer	0.70 mm	0.40 mm	0.70 mm		0.50 mm	0.70 mm	0.50 mm		0.30 mm
Wear layer PUR treatment	HyperGuard+®	HyperGuard+®			HyperGuard+®				
Fongi-bacterio static treatment	-	-		Sanitec®	Sanitec®		-		Sanitec®
EN ISO 23997 - Total weight/m²	± 2,850 g	± 2,063 g	± 3,200 g	± 2,949 g	± 2,865 g	± 2,904 g	± 2,198 g		± 2,650 g
Heterogeneous PVC	EN 649	EN 651	EN 649		EN 651				
SIZE & PACKING									
EN ISO 24341 - Width	2 - 4 m	2 - 3 - 4 m	2 - 4 m		2 m		2 - 4 m		2 - 3 - 4 m
EN ISO 26341 - Standard Length	± 25 m	± 30 m	± 25 m		± 25 m				
Weight of standard roll (kg)	± 118-236	± 123-185-246	± 164-328	± 149-298	± 147	± 149	± 114-228		± 136-204-272
TEST RESULTS									
EN 13501 - Inflammability (fully glued)	Bfl-S1	Bfl-S1			Bfl-S1		Cfl-S1		Bfl-S1
EN 13893 - Slip resistance	DS	DS			DS				
DIN 51130 - Slip restraint	R11	R10			R10				
EN ISO 24343-1 - Residual indentation	≤ 0.10 mm	≤ 0.20 mm	≤ 0.10 mm		≤ 0.20 mm				
EN ISO 16581 - Furniture leg resistance	Very good	Very good			Very good				
EN ISO 23999 - Curling	≤ 8 mm	≤ 8 mm			≤ 8 mm				
EN ISO 10965 - Electrical resistance	10º Ohm	10º Ohm			10º Ohm				
EN 1815 - Static electrical propensity	≤ 2kV	≤ 2kV			≤ 2kV				
EN ISO 23999 - Dimensional stability	0.05%	< 0.10%	0.10%	0.05%	0.05%				
ISO 8302 - Thermal insulation	0.0108 m².K/W	0.0195 m².K/W	0.0107 m².K/W	0.0108 m².K/W	-	-	0.0275 m².K/W		-
EN 660-2 - Abrasion group	Groupe T	Groupe T			Groupe T				
EN 717-1 - Fomaldehyde group	E1	E1			E1				
Indoor air quality	Low VOC	Low VOC			Low VOC				
ISO 717-1 - Acoustic insulation	Δ Lw 7 dB	Δ Lw 13 dB	Δ Lw 6 dB	Δ Lw 7 dB	Δ Lw 19 dB		Δ Lw 18 dB		Δ Lw 20 dB
EN 4918 - Castor chair resistance	Very good	Very good			Very good				
ISO 105B02 - Light fastness	6	6 - 7		6	6 - 7				
EN 12524 - Underfloor heating	Suitable	Suitable			Suitable				
EN ISO 26987 - Resistance to chemicals	Very good	Very good			Very good				
Hot welding & Cold welding	Suitable	Suitable			Suitable				



# Research & Development Tests



At the IVC Group, we want our floors to be the best they can be. To make absolutely, positively sure that they are, we have put in place a stringent system of testing & quality assurance procedures, which make up a pivotal step in the overall design and development process. Here are some of the rigorous tests conducted in our plants in order to make sure our customers get the top-quality products they deserve.

## In-House Tests

### ■ Crack Resistance Test

Measures the strength that is required to make the vinyl floor buckle and crack.

### ■ Delamination Test

Gauges the power of adhesion between different layers by measuring the force needed to tear two layers apart.

### ■ Residual Indentation Test

Measures the residual indentation and elasticity of our vinyl by controlling its reaction on an exposure to a pressure of 50kg/cm<sup>2</sup> during a period of 2.5hours.

### ■ Castor Chair Test

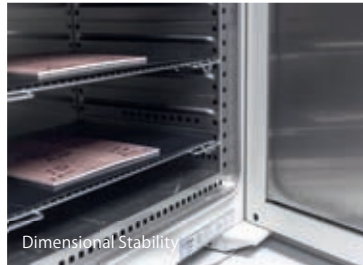
Evaluates the wear and tear resistance of our vinyl floors by unleashing a castor chair and examining changes in the floor's look and stability (25,000 to 50,000 rotations).



Castor Chair Test

### ■ Dimensional Stability and Curling Test

Determines whether (or not) the vinyl floor curls, shrinks or expands by first exposing it to a temperature of 80°C and subsequently allowing it to acclimatize to room temperature.



### ■ Thickness Test

Constant measurements of the thickness of the vinyl in production guarantee that our products continuously stay in line with the European standards.

across the floor vinyl with a pressure of 100kg to see what the damage is.

### ■ Wear Layer Thickness Test

Measures the thickness of the wear layer using microscopy.

### ■ Furniture Leg Test

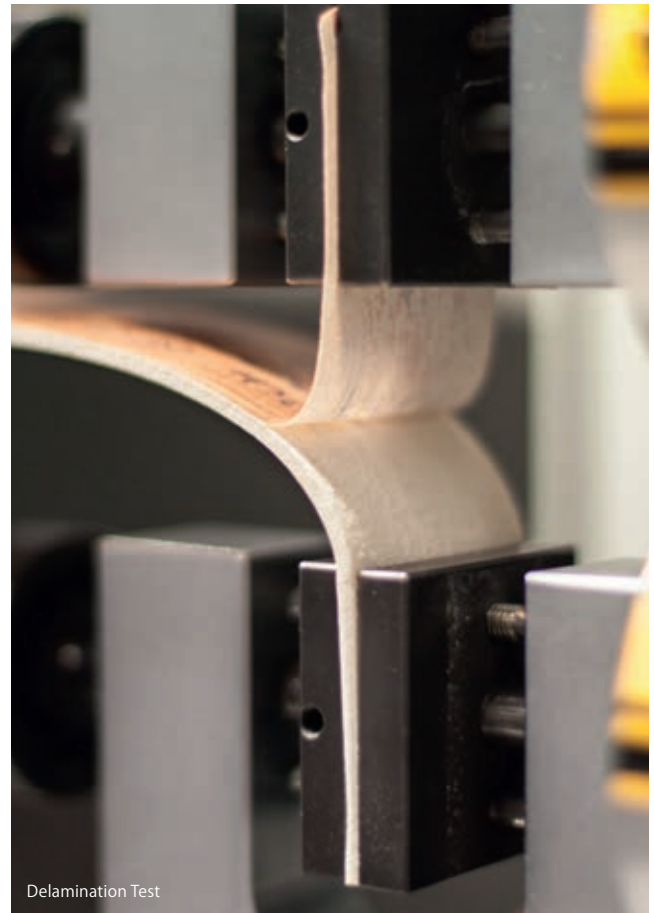
Pits our vinyl against three types of furniture leg, which are dragged



## External Tests

### ■ Ramp Test (slip resistance)

Under controlled conditions, a test person wearing control shoes walks back and forth over the floor covering, whose slope is incrementally increased towards the so-called acceptance angle (the point where the average person would lose his or her footing). Special lubricants are used to mimic specific real-life conditions, like wet or oily floors. This yields a rating from R9 to R11.



### ■ Surface Roughness Measurement (Rz)

A meter scans the surface of the floor covering in 10 different areas, travelling a 4mm distance and covering five 0.8mm sections in which it measures the highest and lowest point encountered. The Rz value is the average of these and suggests the slip potential of the floor in wet conditions.

### ■ Pendulum Test

A pendulum, attached to a spring-loaded 'foot' equipped with a standard rubber slider, is made to swing back and forth so that it connects with a dry or wet test floor over a fixed distance. The extent to which the pendulum fails to reach the height of its release (the zero point) on the overswing is used to calculate the slip resistance of the floor. This test is the preferred measurement of the HSE (Health & Safety Executive).





# Green Policy



## Energy

### ■ Wind Farm

In 2012 the IVC Group obtained the necessary building and environmental permits for an on-site wind farm. The construction of three turbines started in the spring of 2014. The turbines are up and running since the end of autumn 2014 and transmit the infinite power of the wind to our industrial park in Avelgem, a combined potential that accounts for one-third of the plants' annual energy consumption.

### ■ Solar Power

In Dalton, Georgia, 454 solar panels, capable of generating a combined per annum total of more than 10,000kWh, provide enough greenjuice to power IVC USA's fleet of electrical lifting trucks, which run on rechargeable batteries. The garden of photovoltaic panels will also create a healthier environment while reducing the plant's overall emission levels, which are already 250% sub industry par. Now that's low.

### ■ Cooling Water

The IVC Group has invested in an extensive project which uses the surface water from the nearby Scheldt as a coolant. At the production unit in Avelgem, the water which is required as a cooling agent in the manufacturing process is passed through a closed loop circuit. The cold temperature of the river water cools down the semi-finished products at different stages in the manufacturing process, each time preparing them for a next step in production. So far, the results of this project have been very encouraging with a 30% boost in energy efficiency, a significant noise reduction and zero damage to the environment.

### ■ Energy Recovery

In every one of our plants, we recover and re-use materials, heat and energy in the course of the production process. The IVC Group calls this 'The Big Commute' principle. And we stick by it, every step of the way!

## Materials

### ■ Recycled Resources

Our Moduleo design floors partly consist of recycled materials of a controlled origin. Through postindustrial recycling we are able to distil a particularly 'pure' type of PVC with a very limited impact on the environment.

### ■ Making our Commitment Click

The Moduleo click system banishes potential contaminants like adhesives from the installation process of the floor and skirting, resulting in a perfect fit with a healthy finish.

## Waste Management

### ■ Waste Water

The plants of the IVC Group do not waste or spill a single drop of H<sub>2</sub>O. Water is not only used as a natural coolant in the production cycle, but also as a cleaning product during the stages of printing.

### ■ Waste Streams

From the get-go in 1997, the IVC Group has made a point of recycling the PVC waste streams generated in the manufacture of its products. Vinyl scraps are salvaged and then pressed into bales, ready to be re-used in a wide variety of applications. All surplus PVC paste is similarly recovered and injected back into the production process of our sheet vinyl.

## Curbing Emissions

### ■ Volatile Organic Compounds

The processing of PVC inevitably releases VOCs, or volatile organic compounds, which can cause damage to the environment. The IVC Group, however, uses suction

and diversion to remove potentially harmful VOC emissions at the source. In Avelgem, the diffusions are rounded up and rerouted into a state-of-the-art condenser, which is able to recoup the bulk of these compounds and re-use them in the production process.

### ■ Indoor Air Quality

The release of volatile organic compounds is not only confined to the in-house production process of vinyl, but also likely to occur throughout the entire lifespan of building materials. Some products (such as glue, paint, or wooden panels) are liable to emit concentrations of VOCs for prolonged periods of time. The IVC Group has made great strides in counteracting this phenomenon, and in safeguarding the Indoor Air Quality for the

duration of our floors' long and healthy life. This commitment has earned our products the green A+ label, the highest accolade awarded by the French authorities.

### ■ Water-based inks and PU Coatings

The IVC Group exclusively uses water-based inks for its printing purposes. This decision has completely eliminated the risk of hazardous toxins being released into the air, and markedly reduced our carbon footprint overall.

Moreover, the polyurethane finish that protects our Moduleo floors and keeps them looking fresh is entirely water-based.

## Keeping track of our Achievements

### ■ BRE Ecopoints

All Itec and Moduleo products have been certified by BRE Global, the Building Research Establishment in the UK. In order to acquire this certification, products are submitted to a life-cycle assessment (LCA). Our excellent A+ and A ratings demonstrate the real progress the IVC Group has made in reducing the environmental impact of its products.








Want to learn more about our efforts? Take a look at our Corporate Responsibility brochure.



# Meeting International Standards & Norms

Certificate / Label	What it means	Our achievement
<b>BRE</b>  	BRE (British Research Establishment) subjects products to a full life cycle assessment, that examines the environmental impact associated with the individual stages in a product's life from cradle to grave.	Moduleo and Itec products achieve excellent A+ and A ratings.
<b>CE EN 14041:2004</b>  	EN 14041:2004 details the requirements for CE marking of textile, laminate and resilient floor coverings.	The IVC Group's products outperform the proviso for E1 CE-conformity by a factor of 10.
<b>FSC</b>  	The Forest Stewardship Council (FSC), is a non-profit organization that sets certain high standards to make sure that forestry is practiced in an environmentally responsible and socially beneficial manner.	If you get a letter or brochure from us, you can bet it's printed on FSC-approved paper.
<b>DIBt/AgBB</b>  	DIBt is by far the most unforgiving interpretation of the European directive for the safe and sustainable use of construction products.	All our vinyl products satisfy the stringent emission criteria as stipulated by the renowned DIBt Institute.
<b>Émissions dans l'air intérieur Indoor Air Quality</b>  	Construction products, decoration and furnishing products to be traded in France for the first time are to be labelled with the 'Émissions dans l'air intérieur' classification on the basis of VOC emissions tests.	Itec and Moduleo carry the green A+ label.

Certificate / Label	What it means	Our achievement
<b>Floorscore</b> 	<p>FloorScore® was developed by the Resilient Floor Covering Institute (RFCI) together with Scientific Certification Systems (SCS) to test and certify flooring products for compliance with the volatile organic compound emissions criteria of the California Section 01350 standard.</p>	<p>Moduleo's luxury vinyl planks and tiles have obtained an excellent FloorScore that qualifies them for use in public spaces such as schools and healthcare facilities.</p>
<b>ISO 9001:2008</b> 	<p>The ISO 9000 family standards provide guidance and tools for companies and organizations who want to ensure that their products and services consistently meet customer's requirements, and that quality is consistently improved. ISO 9001:2008 sets out the requirements of a quality management system.</p>	<p>The IVC Group is ISO 9001 certified in all our production sites worldwide.</p>
<b>ISO 14001</b> 	<p>This official seal of approval refers to the international standard in environmental management systems and lets everyone know that a company is actually living up to its ecological promises and policies.</p>	<p>The Environmental Management Systems of Balterio, Spanolux and IVC NV in Avelgem are ISO 14001 certified.</p>
<b>REACH</b> 	<p>REACH, the Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals, aims to ensure a high level of protection of human health and the environment from the risks that can be posed by chemicals, the promotion of alternative test methods and the free circulation of substances on the internal market.</p>	<p>The IVC Group carefully vets the raw materials we buy and process, making sure that they do not contain suspect or potentially harmful substances.</p>
<b>Recovinyl Plus</b> 	<p>Recovinyl works as a neutral mediator between recyclers and converters. Its role is to certify the quality and volume of recycled PVC being put in the market by its recycling partners and to certify the volume of recycled PVC used by its converting partners on new products.</p>	<p>The IVC recycling plant in Avelgem is audited and certified under the Eucertplast Scheme for European Plastic Recyclers. The Recovinyl Plus certificate of compliance is awarded.</p>



### Dedicated customer service

Do you have any questions? We are pleased to help you and give you more information on our products and special offers.

[www.ivcgroup.com](http://www.ivcgroup.com)

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