

*EXPONA*<sup>®</sup> CONTROL

DESIGN ASSURED. SAFETY GUARANTEED

LUXURY VINYL TILES WITH SUSTAINABLE WET SLIP RESISTANCE



# EXPONA<sup>®</sup> CONTROL

Welcome to the world of Expona Control - a floorcovering of which you will not have experienced before - one of pure innovation and clear understanding of the commercial industry. Polyflor have taken the great opportunity of fusing high-design aesthetics with sustainable performance, by marrying two key areas; luxury vinyl tiles (LVT) & safety flooring, into one exceptional product.

With a combined history of over 50 years of expertise and creativity in the manufacturing of these product types, we continuously learn from our own experiences and that of our customers, to be able to introduce a brand new flooring concept.



Design is critical to all commercial interiors and with that comes a responsibility to its users. This shared commitment allows us to offer beautiful and authentic replications of natural materials with the added benefit of underfoot safety and security, resulting in a more assured confidence.

Expona Control features unobtrusive aluminium oxide particles throughout the wear layer to create a uniquely honest decoration that ensures sustainable wet slip resistance in heavy commercial areas, in full compliance with HSE Guidelines.

Within this brochure we will explain how Expona Control works, touch on the secrets of manufacture and most importantly confirm how and where it can be used to stunning creative effect.

### WHAT IS EXPONA CONTROL?

Expona Control is a culmination of around 30 years of Polyflor experience in the manufacturing of safety floors. Today's offer of unrivalled collections provides an exceptional level of performance and quality which cater for a wide range of commercial and residential applications.

Safety flooring is increasingly specified to provide underfoot security for its users; be it customers, employees, students, patients, the general public and homeowners. Polyflor is unswerving in its commitment to maintaining the level of slip resistance throughout the guaranteed life of the product. Expona Control perfectly exhibits our continued focus and is a demonstration of the desire to service such market demands.

You will already know of Polyflor's safety flooring collections under the market leading **Polysafe** brand. In terms of sustainable slip resistance and technical dominance Expona Control achieves the same outstanding results. However, as this is the first collection of sustainable slip resistant LVTs in the market, we have positioned this under the Expona brand – a well known and respected collection of premium luxury vinyl tiles. Polyflor LVTs are regularly selected for their high-design aesthetics and heavy commercial suitability across all main sectors, including retail, leisure, office, education and healthcare as well as the key housing market. Each of the vinyl tiles and planks are meticulously manufactured to feature a robust and hardwearing composition supported by a simple cleaning regime.

Mirroring the undoubted beauty of wood, stone and concrete, Expona Control brings with it the added dimension of sustainable wet slip resistance, meaning it can be confidently chosen for areas where there are potential risks of spillages and the transportation of moisture from outside.

**Achieving 36 and above on the Pendulum wet test** and a surface roughness of 20 microns and above means **Expona Control is fully HSE compliant**, receiving a low slip risk classification and conforming to slip resistant guidelines. Aligned with the Polysafe collections, Expona Control fully conforms with EN 13845, meaning the product is fully slip resistant in areas where surface water may be present.

**Creativity and practicality have huge roles to play in the development process, allowing us to impose a meaningful purpose to the collection. The introduction of Expona Control facilitates the importance of being able to work alongside other Polyflor LVT or safety floor ranges, so the building can be assessed and planned in its entirety.**



### SAFETY FLOORING YOU CAN TRUST

Put simply, slip resistance is achieved by increasing the friction between the foot and the floor. This traction increase is due to the inclusion of aggregate within the composition of Expona Control. These particles are not simply sprinkled onto the top as a coating that will wear off after a short time in use. Instead, aggregates are incorporated within the wear layer of each tile and plank to ensure sustainable slip performance. This enhanced wear layer creates a rougher, harder friction surface to 'bite' into the sole of the footwear, to create the necessary durability and underfoot safety. The slip resistant properties are further brought to life in areas where moisture is trafficked from outside, such as retail stores which lead directly onto the high street. This is a crucial demand for many buildings, across all sectors, meaning Expona Control reduces the risk of slip unlike other floor finishes which may prohibit their specification and use.

#### Don't be fooled by others

Once Expona Control is installed and maintained correctly, the slip resistance will tend to improve with age. Over time, as the top layer wears, aggregate will be retained and new will be revealed, to continue the job of imparting the required performance, gaining value for years to come.

Conversely, products being sold as 'safety floors' which have very thin coatings of aggregate applied or feature a slightly rougher surface emboss may pass an ex-factory ramp test but only offer short term slip resistance which will reduce after installation and wear.

Commercial safety floors offering sustainable wet slip resistance must meet the European Safety Flooring Standard of EN 13845, with the 50,000 cycles abrasion test as well as achieving 36 and above on the pendulum wet test.

**Expona Control reframes this practice as something more than just commerce, showing a diligence in construction to ensure these key criteria are met.**

#### Where can Expona Control be used?

Expona Control is developed for use in public areas where there is a risk of spillage or temporary surface water that could make the floor unsafe without the necessary friction. These include:

- Buildings with direct access to outside; areas open to rainwater which can be trafficked inside, by feet, luggage, pushchairs, wheelchairs etc. This is a common issue within the retail, leisure, office, education and healthcare sectors.

Other areas include:

- Bar & restaurant servery and dining areas
- Hair salons
- Office kitchens and refreshment areas
- Healthcare break out facilities
- Education canteens
- Supermarkets, convenience and general stores
- Public bathrooms

*For further clarification on where the product can be used, contact Polyflor.*

It is worth noting that Expona Control needn't necessarily be installed throughout a building, but can be specified for particular areas of potential risk. A good example is a multi-departmental store where Expona Control is selected for main entrance points plus areas such as drink serveries, food halls and public bathrooms; where liquids may be present. Standard Polyflor luxury vinyl tiles can then be specified for low risk 'dry slip' areas, to ensure the continuity of the interior and floor design scheme.

For areas with constant surface water such as wet-rooms and interior pool-side locations, see the Polysafe Hydro products.



#### Form vs Function

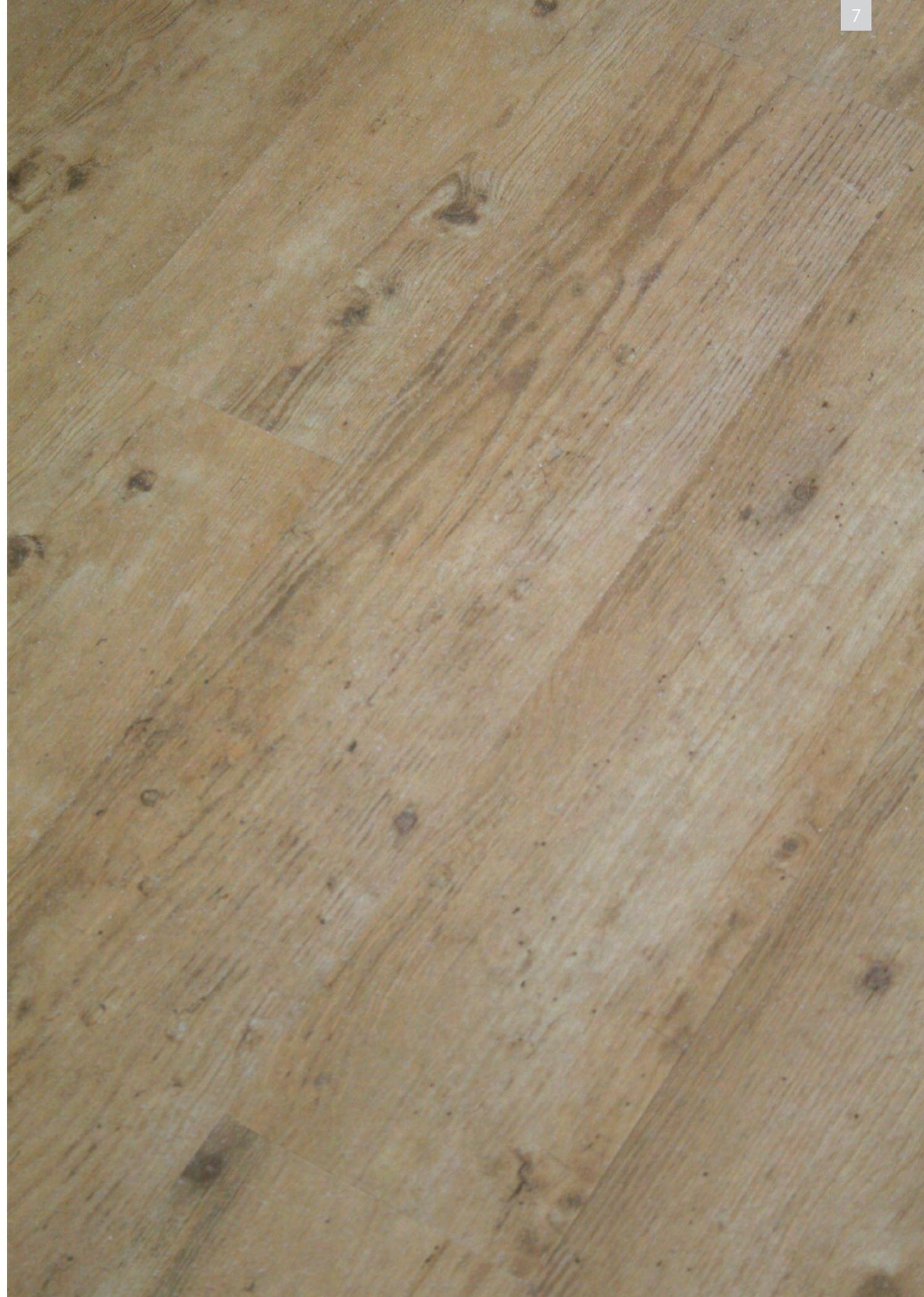
Expona Control's prime function is to offer sustainable slip resistance with a palette of authentic & natural designs. The relationship between form and purpose – design and safety – is symbiotic. We recognise the importance of both areas, blending them to help solve a problem.

Previous experience in use is a strong selection criteria and one of the Health & Safety Executive's own recommendations. On this basis and with the history of millions of square metres of Polyflor safety flooring installed, Expona Control works towards this goal with intelligence, innovation and integrity.

# WOOD

A marker of good design is whether it relates to and interacts with its surroundings. Expona Control helps maximise the opportunities of each installation, allowing authenticity and practicality to permeate through the range.

The wood collection presents a tailored offer of natural timber designs, emulating the form whilst enhancing the functionality. Covering popular and well specified wood effects, Expona Control features variations in grain and high clarity decorations across a mix of wood species.





White Oak with Warm Grey Concrete



Magnified area of product to show an almost invisible slip resistance

# WHITE OAK

6505 | 152.4 x 914.4mm

Traditionally less porous than the red oak species, White Oak incorporates a tighter grain which is clearly demonstrated here. With an almost invisible slip resistant aggregate incorporated throughout the performance layer, the colour allows light to bounce around a room, to offer a feeling of space.



Blond Country Plank laid as double planks with Mid Oak Marquetry Strip

## BLOND COUNTRY PLANK

6501 | 152.4 x 914.4mm

Reminiscent of reclaimed timber and washed up driftwood, Blond Country Plank is a responsive call for energetic safety flooring. The design features more exaggerated knots and markings in an exciting sun-bleached mix of tones.



Nut Tree

## NUT TREE

6502 | 152.4 x 914.4mm

Nut Tree presents an exciting and active timber decoration, intended to add an extra vitality to commercial interiors. Featuring a strong grain, due to the large open pores of the natural material, the forced contrast works without disturbing its integrity.



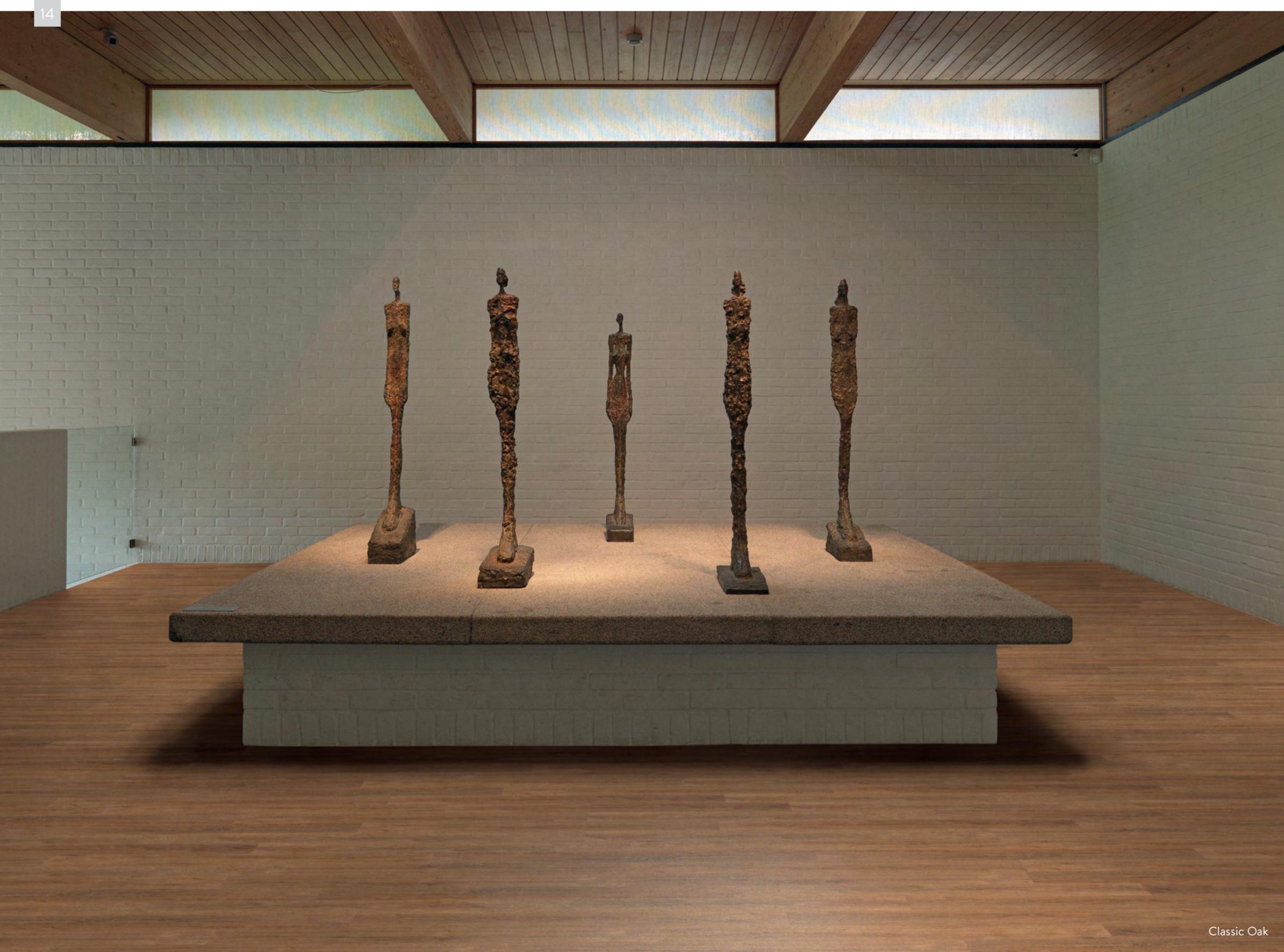
“we all need a little  
space to think!”



## AMERICAN OAK

6500 | 152.4 x 914.4mm

There are estimated to be up to 900 varieties of oak, covering the inherent beauty and natural variation in grain, colour and strength. American Oak exhibits one of the more common and highly popular colourways, featuring a clarity in grain definition and highlighted 'ray flakes', which are caused by nutrient cells moving through the timber.



Classic Oak



## CLASSIC OAK

6503 | 152.4 x 914.4mm

Demonstrating a more deepened and enriched honey colour to that of American Oak, this Classic variety provides an opportunity to create stunning interiors aligned to today's requirements, whilst removing the line between the adjacent systems of safety and design.

*It could be more costly to not have a safety floor*



Light Elm

## LIGHT ELM

6506 | 152.4 x 914.4mm

Light Elm is a creative response to existing and emerging demands for cool and clean grey tones. Another main feature is the lively figured grain which is reminiscent of quartersawn timber, representing the sophisticated modernity of Expona Control.



Weathered Country Plank

## WEATHERED COUNTRY PLANK

6504 | 152.4 x 914.4mm

Detaching itself from the workshop floor, Weathered Country Plank portrays an aged history with an emphasised grain and heavily spalted markings. The almost wormed veneer lends a certain depth to the depiction whilst further adding to the increasingly diverse product pool.

# STONE

As designer Paul Rand once stated "Design is the method of putting form and content together". Polyflor have given in to the irresistible desire to produce a collection of natural stone effects which bring an elegant symmetry to Expona Control. Meeting current requirements and anticipating future design and safety demands, the range of commercially relevant stone and concrete tiles portray the simple sophistication of design and quality of material.





Portland Stone

## PORTLAND STONE

7500 | 457.2 x 457.2mm

Portland Stone represents the essence of a clean and uncluttered mineral. The moderate quantity of fossils found in the natural material are evenly and subtly distributed resulting in an intentionally demonstrated floor design.



Classic Limestone

## CLASSIC LIMESTONE

7501 | 457.2 x 457.2mm

Classic Limestone is a product of all our histories. Given the reputation as a global building stone, it is often utilised in exterior architectural applications and features a fine to medium grain which exhibits delicately warming tones.



Classic Yorkstone

## CLASSIC YORKSTONE

7502 | 457.2 x 457.2mm

Imposing a stronger structure to that of limestone, Classic Yorkstone gives an honest account of an active material. The characteristic energy implies a swirling vein presented in a golden tone, which can help lift an interior scheme.



Cambrian Stone

## CAMBRIAN STONE

7507 | 304.8 x 609.6mm

Interlocking a mix of complementary brown through to cream tones, Cambrian Stone features golden highlight flakes which picks up and interacts with the surrounding light. Replicating the complex nature of fossilised limestone, the brick formatted tile displays a medium to coarse grain and widely varying fossil intensity.

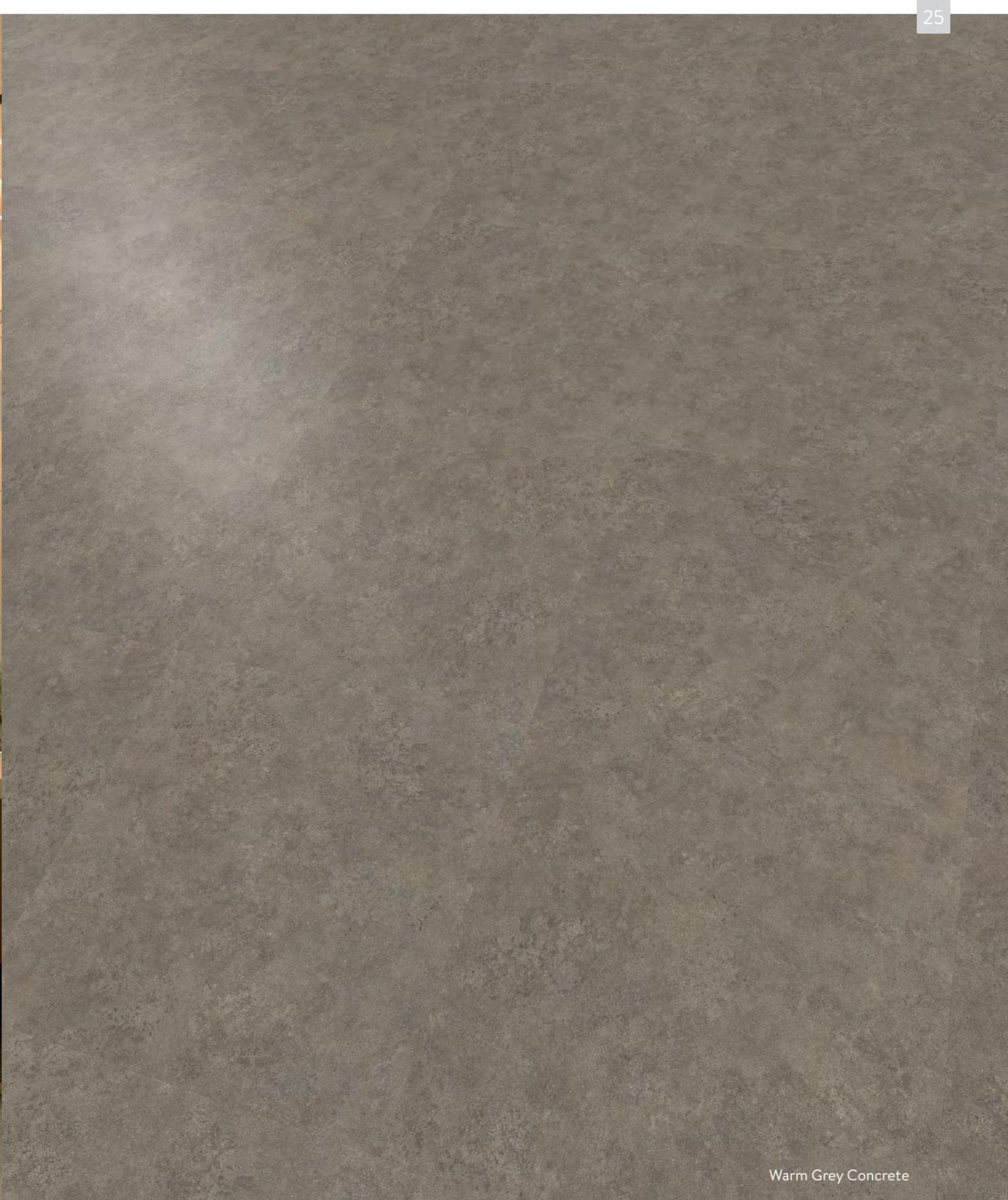


Smoked Limestone

## SMOKED LIMESTONE

7503 | 457.2 x 457.2mm

The success of Smoked Limestone lies with the overall hue and subtle variation in markings which accurately depicts what quarriers of this type of material will naturally find. Inspired by ongoing calls for commercially relevant floorcoverings, Smoked Limestone presents a clear minded vision of a contemporary stone tile design.



Warm Grey Concrete

## WARM GREY CONCRETE

7504 | 457.2 x 457.2mm

Warm Grey Concrete contains a direct reference to this man-made material, which is manufactured to create a pleasing, flat finish, exposing a fine decoration. The integrated features contribute to help make the contemporary and industrialised design form each interior space.



Roman Limestone with Black Grouting Strip around two tiles laid together



## ROMAN LIMESTONE

7506 | 304.8 x 609.6mm

There is an element of Roman Limestone, which of its own accord, is entirely separate from that of its inspiration. Submitting a lively character and strong demarcation in grey to cream tones, the design casts a nostalgic shadow from historic architectural materials.

# THE COLLECTION

The requirements of a commercial interior shifts depending on its use, therefore the functionality of products utilised should cover these needs to ensure design and performance are covered. The Expona Control collection not only caters for such rigorous demands but the creative and contemporary nature of the palette leaves a lasting impression.

One of the main purposes of the range is to enable the specifier to look at the space around them and to confidently identify the key requirement of safety for its users, to help begin to plan and respond accordingly.

Expona Control is supported with a robust functionality to encourage a continued focus on its intended use.



## WOOD COLLECTION

Accurate authenticity is at the heart of Expona Control, representing the allure, distinction and unpredictability of natural timber. To replicate these materials, the products may contain knots and markings as part of their design.

A blend of clear, white and brown aluminium oxide particles are incorporated in the performance layer to achieve the sustainable slip resistance which may be visible when inspected at close range but will be almost invisible when installed and viewed at general scale.



6500 American Oak 152.4 x 914.4mm



6505 White Oak 152.4 x 914.4mm



6501 Blond Country Plank 152.4 x 914.4mm



6506 Light Elm 152.4 x 914.4mm



6502 Nut Tree 152.4 x 914.4mm



6504 Weathered Country Plank 152.4 x 914.4mm



6503 Classic Oak 152.4 x 914.4mm

Although we endeavour to ensure the brochure print process represents the true colour of each product, we recommend you view an actual sample which we shall be pleased to supply, free of charge. Visit [www.polyflor.com](http://www.polyflor.com) and follow the samples link for further details.

## STONE COLLECTION

Expona Control reflects the undoubted beauty of stone and concrete with a sophisticated and tailored collection of tiles. The detailing and natural intricacies of minerals are sympathetically represented to ensure authenticity, therefore the products may contain variation in markings as part of their design.

As with the wood products, the subtle and essential colour blend of aluminium oxide particles will be present in each tile.



7500 Portland Stone 457.2 x 457.2mm



7502 Classic Yorkstone 457.2 x 457.2mm



7501 Classic Limestone 457.2 x 457.2mm



7507 Cambrian Stone 304.8 x 609.6mm



7503 Smoked Limestone 457.2 x 457.2mm



7504 Warm Grey Concrete 457.2 x 457.2mm



7506 Roman Limestone 304.8 x 609.6mm

**expona** CONTROL



## ACCESSORIES & DESIGN FLOORS

GROUTING STRIPS | MARQUETRY STRIPS | FEATURE STRIPS

As pioneers in the development of luxury vinyl tiles and safety floors, we understand the criteria of form and functionality. An additional key benefit of Expona Control is the option of creating bespoke floor designs, tailored to your own vision or corporate style.

Offering a more figurative approach to that of traditional safety flooring, inlay strips can be utilised to create a more intricate shape or to accentuate a feature area. Tiles and planks from the wood and stone collections can also be installed side by side to delineate rooms, create zonal areas or used simply as a more imaginative detail.

The possible combinations and floor design options promotes Expona Control as a more expandable safety flooring system, and is an opportunity to create a personalised floor base for a wide array of commercial interiors. Using the structure and affordances of the tiles, planks and inlay strips, one can enter into a more creative concept to form a truly bespoke floor installation, whilst retaining the safety aspect at all times.

### Grouting Strips

Developed to add to the authenticity of the overall floor. Installed between tiles to emphasise or accentuate the floor design.

914  
2537 Beige

914  
2536 Grey

914  
2538 Black

• Embossed surface • Format sizes in mm

### Marquetry Strips

Utilised to create an authentic and desirable detailed wood floor installation. Inlaid between planks or used as a highlight feature.

914  
2551 Light Oak

914  
2552 Mid Oak

914  
2553 Walnut

• Wood surface • Format sizes in mm

### Feature Strips

Providing an alternative appearance to Grouting and Marquetry Strips with a bolder or more graphic look.

1000  
5100 Silver

1000  
5103 Black

1000  
5110 Brown

• Smooth surface • Format sizes in mm

**Note:** The inlay strips do not include aluminium oxide particles in their structure, but their use will not compromise the safety of the overall floor.



Unlike standard Polyflor luxury vinyl tile collections, we recommend that bespoke waterjet cutting and intricate curved shapes are not utilised with Expona Control. It is crucial that the sustainable slip resistance is maintained at all times and the inclusion of such shapes may cause unconventional joints which could lead to unnecessary risks. Also, as the slip resistant aggregate is incorporated in the wear layer, freshly cut edges of products laid together may lead to unsquare edges and subsequent gaps. To discuss specific design floor options or for clarification of what can be achieved, contact Polyflor.

## TECHNICAL SPECIFICATION

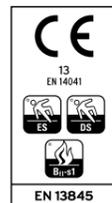
The following table features the technical details of Expona Control. If you require further information, contact Polyflor Customer Technical Services on +44 (0)161 767 1912, or email tech@polyflor.com.

Characteristics	Standards	Expona Control
Gauge	EN 428 / EN ISO 24346	2.5mm
Wear Layer	EN 429 / EN ISO 24340	0.7mm
Packaging and plank sizes	EN 427 EN ISO 24342	24 @ 152.4 x 914.4mm = 3.34m <sup>2</sup>
Packaging and tile sizes	EN 427 EN ISO 24342	18 @ 304.8 x 609.6mm = 3.34m <sup>2</sup> 16 @ 457.2 x 457.2mm = 3.34m <sup>2</sup>
Surface Treatment	PUR	Expona Control features a high quality, cross-linked polyurethane reinforcement, UV cured to provide superior cleaning benefits & life cycle maintenance savings
Total weight	EN 430 / EN ISO 23997	4,390 g/m <sup>2</sup>
General performance	EN 13845	Heterogeneous, PVC with enhanced slip resistance
Performance classification	EN 685 / EN ISO 10874	23 / 34 / 43
Slip resistance	Sustainable wet slip resistance* EN 13845 RRL Pendulum Test Surface Roughness DIN 511310 AS/NZS 4586 Expona Control's slip resistance is assured throughout the guaranteed life of the product, with strict adherence to HSE guidelines	Class ESf (enhanced slip) ≥36 (wet test - 4S Rubber/Slider 96) Rz ≥20µm R10 R10
Dimensional stability	EN 434 / EN ISO 23999	≤0.1%
Residual indentation	EN 433 / EN ISO 24343-1	0.05mm**
Colour fastness to artificial light	EN ISO 105-B02	level ≥ 6 method A
Behaviour to fire	EN 13501-1	Bfl - S1
Abrasion resistance	EN 13845 EN 649 EN ISO 10582	50,000 cycles Group T Type I
Electrostatic properties when walked on	EN 1815	<2kV
Chemical resistance	EN 423 / EN ISO 26987	***
Castor chair suitability	EN 425 / ISO 4918	yes, type W, EN 12 529
Underfloor heating suitability	EN 1264-2	Suitable, max 27°C
VOC emissions	Indoor Air Comfort Gold AgBB	Eurofins certified product Very low emissions
Environmentally preferable flooring	Expona Control PUR is 100% recyclable and contains average 40% recycled material. Recyclable via the Recofloor scheme. Visit <a href="http://www.polyflor.com/environment">www.polyflor.com/environment</a>	
Applications	Expona Control PUR is ideal for very heavy commercial areas within the retail, office, leisure, healthcare, education and housing sectors, where there is a risk of water spillage, making slip resistance an important consideration.	
Notes	For information regarding handling and installation, adhesives, maintenance, applications, slip and chemical resistance, consult Polyflor Technical Services on +44 (0)161 767 1912, or email tech@polyflor.com	

\* For clarification regarding slip resistance, consult Polyflor

\*\* Average test value from current production

\*\*\* Resistant depending on concentration and time of exposure. In case of increased impact of oils, grease, acids, alkalis and other aggressive chemicals, please contact us.



UK official Patent Application No.GB1221548.9.

Korean official Patent Application No.10-2012-0127268.

Chinese official Patent Application No.201210487288.0.

PCT official Patent Application No.PCT/GB2012/052953.

## LOW MAINTENANCE

Unique innovation and exceptional quality form the basis of Expona Control, resulting in a range of extensively researched products which combines high-clarity printed decoration and guaranteed performance.

Consisting of thermally pressed heterogeneous layers, Expona Control is enhanced with PUR, an exclusive and robust polyurethane reinforcement which provides superior cleaning benefits and easier soil release. This technology is amalgamated within each tile and plank using a specially cross-linked and UV cured process that ensures optimum levels are achieved.

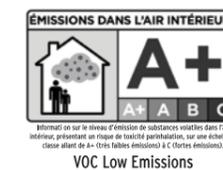
A clean floor is a safer floor and the incorporation of PUR provides an easier regime for maintenance staff and a reduced need for energy, power, water and chemical consumption. Considering the beauty of the faithfully represented natural materials, this cleaning technology is a significant factor to ensure the key aesthetics are retained, without detriment to the sustainable slip resistance.

As with general commercial flooring, it is important to adopt a life-cycle approach when selecting the floor. The considered investment of Expona Control can be more than offset by the maintenance cost savings achievable over the life of the floor. The collection offers a significant life-cycle maintenance saving of up to 60% when compared to non-reinforced products over a 15 year period.

It is important to note that as per all Polyflor safety flooring collections, a **polish should not be applied** as this will impair the slip resistance.

Produced to be fully fit for purpose, Polyflor's commitment to suitability and practicality will transfer from us, the manufacturer, through the specifier, to the end user.

For detailed maintenance instructions visit the Expona Control product page at [www.polyflor.com](http://www.polyflor.com) or contact Polyflor Customer Technical Services.



## SLIP RESISTANCE

Slip resistance can be a confusing area for specifier and client alike. On one hand there is a requirement to specify flooring that is safe and fit for use, against a background of increasing awareness and litigation in the case of slips and trips. On the other hand, there is a plethora of test methods to assess the security of floors, various manufacturer claims and competing product to complicate choice. Add in colour choice, decoration and maintenance and the confusion can multiply.

Polyflor would always give the same two key points of advice before slip resistant flooring is specified.

1. Use a reputable manufacturer that can demonstrate previous experience in areas you are working on.
2. Ask for advice – the team at Polyflor have more experience in this area than any one individual could acquire.

The Customer Technical Support Team is on hand to dispense free advice – please use them.

### Slip resistance test methods

Polyflor test against a variety of international test methods for slip resistance and the results are published for all to see. The test methods explained here are the most relevant and commonly used to make precision assessment of floor safety.

### RRL Pendulum Co-Efficient of Friction Test

This test method is recommended and preferred by the HSE to assess the dynamic coefficient of friction of a floorcovering, achieved by swinging a dummy heel over the floor surface (see the below image) to simulate a foot slipping on a wet floor. A standardised rubber sample is used to represent a standard shoe sole of average slip resistance. Widely used, the greatest strength of this test is that it can easily be used in-situ, so the slip resistance of the floor can be assessed over its whole life. Results are quoted using a Four S (Slider 96) rubber slider. Whilst floor surfaces can be tested in the wet or dry, the results indicated always quote the wet result as this is the condition in which slipping is likely to occur. Be wary of very high dry results quoted in isolation. HSE Guidelines call for a floor to give a Pendulum test value of 36 and above in the wet to be classified as a low slip potential.

Expona Control achieves a Pendulum reading in the wet of 36+ which lies within the low slip risk category and this slip resistance is assured for the guaranteed life of the product.

### Surface Roughness

This test is also favoured by the HSE to be used on-site in conjunction with the Pendulum test and involves measuring the total surface microroughness of the flooring with a surface roughness meter. A mean value of several peak to valley measurements is electronically calculated on the surface by tracing a needle over the floor at various points. This measure is felt to be a good predictor of slip performance. Expona Control, as with all Polyflor safety products exceed  $R_z 20\mu\text{m}$ , and in accordance with HSE Guidelines is classed as a product with low slip potential in water-wet pedestrian areas. In order to cope with different contaminant spillages of various process materials, the surface roughness of the flooring must be sufficient in order to penetrate the squeeze films created when there is a presence of wet contaminants between shoe sole and the floor that prevents solid-to-solid contact. The surface roughness the floor requires is governed by the viscosity level of liquid contaminants in the application area.

### The Ramp Test (DIN 51130 & AS/NZ 4586)

This test involves a person in shod foot walking on an inclined ramp, in the presence of an oil contaminant. The resulting level of degrees the ramp can be inclined before the operator slips is categorised into appropriate 'R' values – running from R9 up to R13. This test has been commonly used in Europe, especially in the hard flooring sector. Whilst Polyflor quotes results of this test to AS/NZS 4586, it is believed that the Ramp test can be used to mislead. Firstly, a common misconception is that the R scale runs from R1 to R13 with R1 being the most slippery. In fact, an R9 rated product is classified as the floor with the least slip resistance. This allows manufacturers to imply R9 products are sold as specialist, slip resistant surfaces. Furthermore, this test is carried out ex-factory and is not practical to replicate on-site, so gives no reliable measure of performance and wear over the life of the floor, as is possible with the Pendulum and surface roughness tests. For instance, a factory applied thin coating or heavy emboss could be applied to pass the Ramp test but the resistance will usually change significantly on installation and would wear off in use after maintenance regimes have been applied.

### The HSE Slips Assessment Tool (SAT)

This is a computer software programme developed by the HSE which, in conjunction with a hand-held surface microroughness meter, can be used in-situ to risk assess the slip potential presented by pedestrian walkway surfaces. The software operator feeds in information on-site such as: the surface roughness readings, amount and causes of floor surface contamination, footwear used and the cleaning regime implemented in order to gain a slip risk classification for the floor. These factors are taken into account along with others detailed in the slip potential model. This simple software programme can be downloaded free of charge, from [www.hse.gov.uk/slips](http://www.hse.gov.uk/slips).

### EN 13845

This European Standard specifically relates to particle based safety flooring. Whilst this standard covers all aspects of product quality, it also brings in another measure of slip resistance:

ESf – all Polyflor safety floor products achieve a rating of Enhanced Slip for use with footwear, as opposed to DS, (meaning Dry Slip) as stated in the EN 13893 standard.

## TECHNICAL DETAIL

### RIBA Approved CPD

A RIBA Approved CPD Seminar is available to be presented by a Polyflor representative covering the afore-mentioned slip resistance test methods and to assist in the specification of safety floorcoverings. Contact Polyflor for further information.

### CE Marking

All flooring sold in Europe must carry the CE mark and show results on mandatory performance aspects – fire and slip. The vast majority of smooth vinyl floors will carry a Dry Slip rating – this essentially means that the flooring is safe for use. For slip resistant flooring, you should look for an ES rating.

### Points to consider:

- HSE recommends the Pendulum test in conjunction with surface microroughness meter for real life in-situ results.
- All Polyflor safety collections adhere to HSE Guidelines, achieving 36+ in the Pendulum wet test with a surface roughness of  $R_z \geq 20\mu\text{m}$ .
- The slip resistance is assured for the guaranteed life of the product.
- RIBA Approved CPD seminar for the specification of safety vinyl floorcoverings is available directly from Polyflor representatives.

As with all Polyflor safety floor collections, Expona Control is subjected to the rigours of internal testing on the production line and in our laboratories to ensure they are fit to serve their purpose as sustainable safety floors. These actions are fully backed up by external testing carried out by independent bodies to meet relevant industry standards.

Expona Control retains its aesthetic and performance characteristics to demonstrate outstanding durability and abrasion resistance, adhering to the guidelines detailed in EN 13845. It is crucially stated that the floor should suffer no ill effects when tested for abrasion over 50,000 cycles, as in EN 660-2, where a stringent testing procedure is applied involving constant cycles of abrasion under pressure with the continuous application of grit.

### Stain Resistance

As Expona Control is an ideal selection for many interiors across the main commercial sectors, resistance to everyday dirt and staining will be an important consideration. Areas such as retail and leisure units where dirt and moisture is trafficked directly from outside, plus servery, dining and break out points where spillages may occur, mean an easy maintenance floor, which does not inhibit the safety aspects, is a crucial requirement. Maintenance and chemical resistance documents are readily available online or from Polyflor Customer Technical Services, should they be required.

**Expona Control not only represents the true distinction of natural materials but also offers guaranteed and sustainable wet slip resistance, possessing an aspect that further reveals itself through its continuous use.**

RRL Pendulum Co-Efficient of Friction Test



Ramp Test (DIN 51130)



# ENVIRONMENT & CONTACT

SUSTAINABILITY | WEBSITE | SAMPLE SERVICE

## Environmental & Sustainability

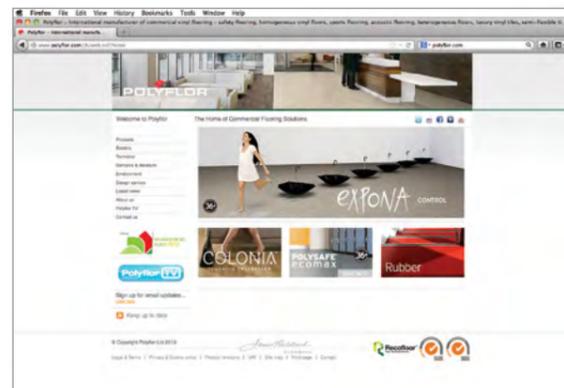
Polyflor has for many decades been recognised as a leading global manufacturer of high quality, high performance floorcoverings. We have demonstrated a high level of commitment and endeavour to minimising the impact our products have on the environment. Expona Control meets these requirements with a focus on sustainability and a healthy indoor climate.

All Polyflor products have the prescribed CE mark as a European declaration of performance and are regularly tested to ensure the exceptional standards are continually met. As an example, an annual external inspection of the ingredients and emissions behaviour by the Eurofins Institute, one of Europe's leading service providers in the field of analysis, ensures consistent quality.

Expona Control has achieved the Indoor Air Comfort Gold rating. This certificate, issued by Eurofins, is awarded to products with VOC emissions below any globally determined VOC limits. The product is also 100% recyclable and contains average 40% recycled material, and can be reused in materials and fuel. The recycled materials are integrated into new flooring production insofar as this is possible.

## Website

Visit [www.polyflor.com](http://www.polyflor.com) for detailed product and technical information on all collections within the Polyflor portfolio. This award winning website runs with easy to follow navigation to help you find exactly what you are looking for. Downloads and free product samples and literature can easily be ordered through the site too.



## Sample Service

Sample your choice of flooring before you make your final selection, at no cost. We provide complimentary product samples to ensure you find the exact floorcovering you are looking for.

To order your free sample of any colour, visit [www.polyflor.com](http://www.polyflor.com), call the dedicated **Polyflor Samples Hotline** on **+44 (0)161 767 2551** or speak with your local Polyflor provider.

**samples >>> direct**

## Contact Us

For general information on your specific project, either speak with your local Polyflor provider or contact us directly. If you require additional detailed technical data, either visit [www.polyflor.com](http://www.polyflor.com), following links to the technical pages or contact **Polyflor Customer Technical Services** on: **Tel: +44 (0)161 767 1912** or **Email: [tech@polyflor.com](mailto:tech@polyflor.com)**

For details of international Expona Control availability see the back cover of this brochure for global contacts or visit [www.polyflor.com](http://www.polyflor.com) and follow the Contact Us link.

# EXPONA®

## CONTROL



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