Acoustix

flooring collection



INTRODUCTION

The benefits of reducing impact sound within commercial and residential interiors has been well researched and documented over recent years. Acoustics has fast become one of the primary focuses of builders, contractors and architects, as new standards are introduced to improve the overall acoustic performance of new and refurbished installations.

Polyflor now offers an **Acoustix collection** of floorcoverings that has been specifically developed to reduce impact sound within interiors. The collection incorporates a contemporary selection of stylish mineral designs and authentic wood patterns to suit any installation, whilst offering durability and high performance in a practical vinyl sheet format.

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Acoustix

INTRODUCTION TO ACOUSTICS

It is a growing understanding that noise can have an extremely detrimental effect in the workplace, in schools, hospitals and multi-dwelling residential properties, which can significantly affect an individuals well being and also hinder respective teaching, learning, working and recuperation.

Polyflor acoustic vinyl floorcoverings have been designed and developed to assist in improving the acoustic properties within residential, commercial and public locations as well as providing the additional benefits of aesthetics, performance, hygiene and durability.

General points to consider

Planning and room layout can be used to avoid impact noise sources on floors above noise-sensitive rooms. In addition to Polyflor's acoustic floorcoverings, floating floor constructions and independent ceilings can be effective means of isolation.

Other sources of noise to consider when planning your interior are:

- Traffic
- Weather
- Plumbing
- Ductborne noise
- Noise via open windows

Acoustic flooring is only part of the action that can be taken to reduce noise levels. Acoustic ceiling and wall panels, fabrics, textiles and plants may also be considered early in the design process to ensure compatibility. Unnecessary indentation from chairs, for example, can be avoided by choosing suitable leg detail to spread the load and pads to protect the floor and assist in deadening the sound.

Smooth acoustic floorcoverings are designed to reduce impact sound at source, not to reduce background or reverberation sound within a room.

It is advisable from the outset of a project to seek advice from a specialist acoustician as the subject requires considerable expertise. For more information visit the **Association of Noise Consultants** website at www.theANC.co.uk.





SOUND AND THE NATURE OF SOUND

Sound is usually generated by the vibrations of a surface, which increases the pressure fluctuations in the air or some other medium. Sound is transmitted through sound waves and may be described in terms of sound pressure, sound energy or sound power. Noise is generally defined as unwanted sound.

Impact Sound

Noise is created when the sound energy transmitted either by impact or by air. Impact sound is energy produced by the collision of solid objects transmitted through the structure of a building such as **footsteps**, **slamming of doors** or **dragging of furniture**.

Noise levels transmitted through floors by impact sound can be reduced by acoustic planning at the outset of a project and by correctly installing a Polyflor acoustic floorcovering.

Walking Noise

Walking Noise unlike Impact Sound is where the sound of a person's footstep when walking in a room is reverberated back into the room through the air. Though Walking Noise is not currently regulated by a standard, it is still an important factor to consider when trying to reduce sound levels.







ACOUSTIC TESTING STANDARDS

The Impact Test

The impact test measures the sound level downstairs when a standard tapping machine is operating upstairs. This is intended to replicate noise such as footsteps and the moving of furniture which travels through the separating floor. The result is shown as the weighted standardised Impact Sound Pressure Level, or L'nT,w and the lower the sound pressure level downstairs the better the insulation.

Impact sound insulation is measured in terms of an absolute sound level so that a lower number indicates that the standard of impact sound insulation is better. Sound levels and sound insulation values are expressed in decibels (dB).

Exceeding the Standard

Throughout many countries, legislation has been introduced to address resistance to the passage of sound. In the UK for example, Building Regulations¹ stipulates that a suitable floorcovering should have a weighted reduction in impact sound pressure level of not less that 17dB when measured in accordance with EN ISO 140-8 and calculated in accordance with EN ISO 717-2.

All Polyflor acoustic floorcoverings meet and exceed these standards with a minimum reduction level of at least 18dB.

Polysafe Wood fx Acoustix, Acoustix Forest fx and Acoustix Gallery fx further exceed this with reduction levels of 19dB.

¹ Building Regulations Part E in England & Wales, Section 5 for Scotland, Part G for Northern Ireland



ACOUSTIC PERFORMANCE

20dB				
19dB				
18dB			19dB	Building
17dB	18dB			Regulations Standard 1
16dB	• Acoustifoam +		• Acoustix Forest fx	
15dB	Polyflor 2mm Product		 Acoustix Gallery fx Polysafe Wood fx Acoustix 	







...disturbing peaceful retreats



ACOUSTIC SECTORS & MARKETS

With the growing understanding that noise can have an extremely detrimental effect on an individuals well being, a wider range of commercial and residential buildings are now being identified as benefiting from an acoustic floorcovering.

Within the range of commercial buildings, the **Education** and **Healthcare** sections feature the most common areas where noise is considered a nuisance. Due to the number of high-traffic areas each can be expected to have throughout the building, both can benefit greatly from acoustic flooring to aid peaceful learning and patient recovery.

The use of acoustic flooring within the **Residential** section is also a major consideration during new-build and refurbishments, often being installed as part of further acoustic improvement projects.



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SCHOOLS AND EDUCATION STANDARDS

The learning environment is forever evolving. The creation of pleasant and comfortable surroundings facilitating various patterns of group working is bringing a new focus to school design and build.

School buildings are often subject to detailed design checks and on-site inspections by building control officers. Acoustic flooring can be a necessary part of a school building specification from the outset, working alongside building regulations and end user requirements to prevent expensive remedial work after completion of the project.

As the floor of any room represents a significant proportion of the surface area defining the space, its acoustic qualities play a role in establishing the acoustic environment of the room. For larger spaces, this proportion is particularly high. Good acoustic standards in teaching areas are crucial as acoustic conditions can have a profound impact on pupils learning and staff performance.

Recommended areas for acoustic floorcovering:

- Corridors
- Classrooms
- Reception / meeting areas
- Rooms over noise-sensitive areas

Noise reduction benefits:

- Reduce disruption from neighbouring classrooms
- Allow louder teaching areas i.e. music rooms, to neighbour quiet study areas
- Aids children's education by reducing distracting background noise
- Provide better learning environment for children with hearing difficulties



SCHOOLS AND EDUCATION STANDARDS

Alongside the Building Regulations¹ legislation in the UK, which specifies the impact sound reduction level that must be achieved in all new buildings and refurbishments, the **Building Bulletin 93** standard was introduced specifically for the school and education market.

The aim of this standard was to:

- Provide a regulatory framework for the acoustic design of schools in support of the building regulations
- ____ Give supporting advice and recommendations for planning and design of schools
- Provide a comprehensive guide for architects, acousticians, building control officers, clients and others involved in the design of new school buildings
- Satisfy the School Premises Regulations and the Disability Discrimination Act

When planning a new acoustic project, the relevant regulations to the country of use should be studied to ensure the correct recommendations are adhered to. For more information on Building Bulletins 93 visit **www.bb93.co.uk**.

Polyflor's Acoustix range is suitable for use in corridors, classrooms and dining halls















HOSPITALS AND HEALTHCARE SECTOR

21st century healthcare design is about achieving a homely, relaxed and professional environment for patients, staff and visitors. The choice of building materials and floorcoverings can have a major impact on the feel and performance of a hospital. When part of a complete design concept, floors can even aid the healing process and product choice can be key to achieving a positive contribution to patient care.

Put simply, hospital floors must perform. Criteria such as hygiene, maintenance, durability, slip resistance and aesthetics are vitally important, as are budget, availability, acoustics and environmental issues. Polyflor can advise on product suitability for any area within a healthcare facility to ensure all these points are covered.

Due to these maintenance and hygiene concerns, Polyflor's acoustic vinyl floorcoverings are specifically designed for practical spaces as alternative soft floorcovering such as carpet may not be functional because of their effect on indoor air quality and resultant health implications.

Recommended areas for acoustic floorcovering:

- Corridors
- Wards
- Reception / waiting areas
- Retail areas

Noise reduction benefits to patients and staff:

- Lowered readmission rates
- Improved patient satisfaction with services provided
- Reduced blood pressure and lowered stress levels
- Improved team spirit and work satisfaction
- Less sleep deprivation
- Reduced need for pain medication

Acoustic benefits

Research shows noise levels in hospitals worldwide are perceived to be very high. At the same time, the awareness of the negative effects of noise on patients and healthcare staff has grown. It is likely that impact sound reduction will become a strong focus in all future developments to help reduce these effects.

The negative effects of high sound levels on staff include burnout and depression, increased number of medical errors and increased chances of hearing loss. A well planned acoustic environment enhances the feeling of privacy, safety and comfort.



HOSPITAL AND HEALTHCARE REGULATIONS

Acoustic regulations have been introduced in many countries to help increase the positive impact on the well being of those occupying the building and the quality of care provided. Most standards are addressing the importance of room acoustics for a variety of healthcare building types.

For example in the UK, **HTM 08-01** looks at the acoustic performance of healthcare facilities, addressing acoustic issues including the provision of temporary facilities, refurbishments and construction. It works through important acoustic information including impact sound insulation and dealing with noisy footfall above noise sensitive rooms.

Polyflor's Acoustix collection is an ideal solution for the Healthcare sector as all ranges within the collection exceed the current Building Regulations¹ standard of 17dB.



RESIDENTIAL PROPERTY SECTOR

Unwanted noise within multi-dwelling properties can play a huge part in contributing to an unhealthy, uncomfortable and unwelcome environment for those living there. Many of the noise issues faced by residents including furniture scrapping across the floor and footsteps, can cause heightened stress levels, discomfort and lack of sleep.

To tackle the important issue of noise, and increase the well-being of all residents, the Building Regulations¹ standard was introduced in the UK to address the noise level suffered by occupants, leading to separating floors having to be constructed to achieve certain sound insulation levels. The documents are clear in separating out 'dwelling houses' verses 'room for residential purpose' to which the impact sound reduction level of 17dB does not apply. 'Room for residential purpose' is defined as a room or a suite of rooms which is not a dwelling-house or flat and is used by one or more persons to live and sleep.

This includes rooms in a:

- Hostel
- Hotel
- Boarding House
- Hall of Residence
- Residential Home

But this building regulation does NOT include a room in a hospital i.e. patient accommodation (see Hospitals and Healthcare Sector).

In the case of 'dwelling houses', the documents state 'dwelling-houses, flats and rooms for residential purposes shall be designed and constructed in such a way that they provide reasonable resistance to sound from other parts of the same building and from adjoining buildings and that internal floors also provide reasonable resistance to sound'.

Polyflor's range of acoustic floorcoverings has been designed to meet the demands of today's residential market, combining contemporary mineral and wood designs with durability, slip resistance and easy-clean polish-free technology, all in an easy to install vinyl sheet format.









Acoustix Gallery fx



Acoustix Gallery fx has been developed to meet demands for alternative aesthetic flooring within residential and commercial interiors. The collection incorporates clean natural stone effects and mottled granite designs in 9 stimulating colourways plus 5 highly specified wood replications. The earthy and fiery tones of natural rock, the subtlety and freshness of water and the greenery of our surrounding environment were the direct inspirations for the collection.

As with other Polyflor acoustic products, Acoustix Gallery fx is targeted at the education, healthcare and general commercial market although the primary aim is for the important residential acoustic market.

Featuring a closed-cell foam backing, Acoustix Gallery fx provides an **impact sound reduction level of at least 19dB**, exceeding the UK Building Regulation requirements.

The collection also importantly features a polyurethane reinforcement (PUR) which provides enhanced protection and an easier life-long, polish-free maintenance regime leading to overall maintenance cost savings.

Where can it be used?

Acoustix Gallery fx is ideal for residential areas where impact sound reduction is paramount, including:

- Residential areas such as aged-care, social housing and student accommodation. Specific locations include communal entrances and meeting areas, stairs, corridors and general living spaces
- Heavy commercial areas within education and healthcare facilities and general commercial public spaces.
 Specific areas include corridors, classrooms, reception and waiting areas, wards and general locations where impact sound reduction is a key requirement
- Ergonomically, the flooring is suitable for 'workstations' and serving points within retail and other areas due to
 its underfoot comfort and anti-fatigue benefits, where users stand for long periods





6840 Mercury



6841 Zinc



6845 Earth



6847 Celestine Blue



6842 Onyx



6836 Rustic Oak



6835 European Oak



6843 Silica Sand



6844 Mica Sand



6846 Euclase Green



6848 Lazulite Blue



6815 American Oak



6837 Vermont Maple



6838 Stained Maple

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Acoustix Forest fx



The natural environment is the primary inspiration for Acoustix Forest fx. Sophisticated and highly realistic designs are the elements which form the collection.

With a varied tonal palette of 8 designs, including popular Oak, Beech and Walnut effects, the collection of heterogeneous vinyl sheet floorcoverings has excellent durability and is highly suited to high traffic commercial interiors. Targeted primarily at the education, healthcare, retail, leisure and office sectors, the outstanding appearance and performance characteristics are as appealing to the broad commercial market.

Featuring a closed-cell foam backing, Acoustix Forest fx provides an **impact sound reduction level of at least 19dB**, exceeding UK Building Regulation requirements.

The collection also importantly features a polyurethane reinforcement (PUR) which provides enhanced protection and an easier life-long, polish-free maintenance regime leading to overall maintenance cost savings.

Where can it be used?

Acoustix Forest fx is suitable for general heavy footfall areas, including:

- Very heavy commercial areas within schools and educational buildings, hospitals and healthcare facilities and general commercial spaces. Specific areas include corridors, classrooms, reception and waiting areas, wards and general locations where impact sound reduction is a key requirement
- Residential areas such as aged-care, social housing and student accommodation. Also see the Acoustix Gallery fx collection (page 24-25) as it is specifically designed for residential interiors
- Ergonomically, the flooring is suitable for 'workstations' and serving points within retail and other areas due to
 its underfoot comfort and anti-fatigue benefits, where users stand for long periods





3385 American Oak



3345 European Oak



3295 Warm Beech



3335 Rustic Oak





3095 Oiled Oak



3125 Classic Oak



3155 Smoked Oak



3235 Classic Walnut









Polysafe Wood fx Acoustix brings together the key attributes of safety, aesthetics and acoustic performance for complete piece of mind across a commercial or residential facility.

Available in 8 popular wood effects, each design incorporates clear aluminium oxide particles throughout the wear layer to provide sustainable slip resistance for the product's guaranteed life. Fully compliant with Health and Safety Executive Guidelines, the range achieves a result of 36+ on the Pendulum wet test with a surface roughness of >20µm.

Complete with an integrated foam backing that gives an **impact sound reduction level between rooms of at least 19dB**, Polysafe Wood fx Acoustix exceeds UK Building Regulation requirements. The product is an ideal specification for quieter working and living environments which require additional slip resistance.

With a polyurethane reinforcement giving improved maintenance, the range is equally at home in heavily trafficked commercial areas at the front of house or traditional safety locations with risks of water spillage.

Where can it be used?

Polysafe Wood fx Acoustix is suitable for use in areas which have risks of water spillage at front or back of house, including:

- Residential areas within aged-care, social housing and student accommodation. Typical use areas include corridors, circulation areas, hallways, living quarters, bathrooms and kitchens
- Heavy commercial areas within education and healthcare facilities. Typical use areas include bathrooms, washrooms, toilets, changing rooms, wards, corridors, circulation areas, classrooms and receptions
- Ergonomically, the flooring is suitable for 'workstations' and serving points within retail and other areas due to its underfoot comfort and anti-fatigue benefits, where users stand for long periods





3292 Warm Beech



3332 Rustic Oak



3352 Silver Oak



3362 Mahogany



3302 Cherry



3342 European Oak



3382 American Oak



3992 Brazilian Walnut

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CASE STUDY - LAMBETH ACADEMY, LONDON

With a high footfall of students moving across the floor at regular periods throughout the day, the choice of Polysafe Wood fx Acoustix is ideal to dampen impact sound transfer between rooms and promote a quiet working environment that fosters learning. For students and teachers standing on the floor for prolonged periods, the range offers underfoot comfort and anti-fatigue benefits, whilst giving the slip resistance demanded in areas where spillages can occur.

'Our state-of-the-art premises, designed by award winning architects demand the specification of the best possible products. As well as being extremely attractive, Polysafe Wood fx Acoustix minimises noise transfer n our busy corridors and also ensures enhanced under foot safety for students, staff and visitors. Cleanability and the facility to maintain regularly were other deciding factors. All in all, the ideal choice."

> *Geoff Gilbert* Academy Site Manager, Lambeth Academy

te.





ACOUSTIFOAM



To further extend the choice of decoration and product type of acoustic floorcoverings, Polyflor offer Acoustifoam.

The product is a closed-cell foam backing sheet, incorporating glass-polyester reinforcement, which is simply installed beneath standard Polyflor vinyl and rubber sheet floorcoverings (with a minimum of 2mm gauge). When used in this underlay combination system, the gained advantages are to provide standard collections with the added acoustic properties, providing an **impact sound reduction level of at least 18dB**.





Polysafe Astral PUR: Space Mauve 4230, Starburst 4300, Solstice 4260



Classic Mystique PUR: Sunblaze 1260, Quartz 1400, Smokestone 1160



Polysafe Standard PUR: Arctic Blue 4130



OFFERING EVEN MORE CHOICE

Utilising Polyflor Acoustifoam allows for a broader choice of colours, styles and performance characteristics with an unrivalled total of 301 top-layer product options².

Listed below are the Polyflor collections that are suitable for use with Acoustifoam. For specific product information and matching welding rods, visit the product pages at www.polyflor.com, view the relevant product brochure or contact the Polyflor Customer Technical Support Department.

Homogeneous sheet collections:

Safety floor sheet collections:

Polyflor Pearlazzo PUR	
Polyflor Prestige PUR	
Polyflor Mystique PUR	
Polyflor Classic Mystique PUR	
Polyflor 2000 PUR	
Polyflor XL PU	
Polyflor Standard XL	
Heterogeneous sheet collection:	

Polyflor Forest fx Polyflor Mineral fx

Rubber sheet collection: Saarfloor Diamant

Note: Polyflor vinyl tiles and planks, rubber tiles and ESD ranges should not be used in conjunction with Acoustifoam.

² Totals calculated to be correct at time of going to print

Polysafe Corona PUR Polysafe Astral PUR Polysafe Mosaic PUR Polysafe Wood fx PUR Polysafe Vogue Ultra PUR Polysafe Standard PUR Polysafe Strata Polysafe Ecomax Polysafe Hydro Polysafe Hydro Evolve

Polysafe Modena



TECHNICAL INFORMATION

Installation

For full details on the installation of Acoustix Gallery fx, Acoustix Forest fx, Polysafe Wood fx Acoustix and Acoustifoam with recommended Polyflor products, including recommended adhesives, refer to one of the following contact points:

- Technical section of the Polyflor website www.polyflor.com
- Telephone the Polyflor Customer Technical Support Team +44 (0) 161 767 1111
- Email the Polyflor Customer Technical Support Team tech@polyflor.com

NB. Acoustifoam is not to be installed as a subfloor, isolating underlay or surface DPM.

Maintenance

Appearance, hygiene and cleanliness are key points to consider when establishing a maintenance programme. Poor maintenance can damage aesthetics, impairs performance, shortens floor life and creates hygiene problems in critical areas. In recognition of this Polyflor provides low maintenance options right across our product portfolio enabling the cleaning process to be as cost-effective and straightforward as possible.

The incorporation of a polyurethane reinforcement into the Polyflor Acoustix PUR collection helps protect the floorcoverings by resisting soiling and scuffing. Combined with the superior closed surface finish, this enhanced protection allows the use of a polish-free maintenance regime for the lifetime of the flooring. Fewer cleaning chemicals and greatly reduced power requirements mean reduced environmental impact.

CPD

To reflect today's demanding marketplace, Polyflor offer contractors and fitters a series of CPD training seminars, offering guidance and advise on a variety of topics including **vinyl floorcoverings**, **safety** and **acoustic floorcoverings**.

With an ever increasing array of vinyl floorings available in the market, each with different decorations, durability, performance characteristics and construction, Polyflor's CPD seminars aim to explain the many benefits contractors can achieve from using vinyl flooring, highlight environmental credentials and advise on traditional problem areas such as installation and maintenance and how to ensure that these are done correctly. After completion of the seminar, each attendee will receive a RIBA approved certificate.



Acoustix

Environment

Polyflor have demonstrated a high level of commitment over the years to producing high quality floorcovering, whilst minimising our impact on the environment without compromising the performance benefits of our products.

There can be few materials better suited to recycling than vinyl flooring. All Polyflor's acoustic floorcoverings are 100% recyclable, and can be recycled many times without loosing any of their performance properties. Polyflor continually works on developing new products and technologies, and constantly evaluates production methods to further minimise our impact on the environment.

Website

To view all of the Polyflor Acoustix ranges online, visit www.polyflor.com and follow the links to the Acoustic product pages. Here you will find product details, additional technical data and the option to view previous installations.

Samples

With regards to each design, it is only possible to give a provisional representation of the colour. To replicate the natural material, the wood effect products may contain knots or markings as part of their design. For colour selection, an original sample is recommended which we will be happy to supply.

To request individual product samples of any design within the Acoustix collection, visit www.polyflor.com and follow the link to Samples and Literature. Alternatively, call the dedicated Polyflor Samples Hotline on +44 (0) 161 767 2551.

samples>>>>direct >>>>0161 767 2551



Characteristics	Standards	Unit	Acoustix	Acoustix	Polysafe	Acoustifoam	
			Gallery fx	Forest fx	Wood fx Acoustix		
Type of	EN ISO 11638		Heterogeneous, PVC	Heterogeneous, PVC	-	-	
floorcovering	EN 13845		-	-	Heterogeneous, PVC	-	
Surface reinforcement	t		PUR	PUR	PUR	-	
Acoustic impact	EN ISO 10140-3	dB	≥19	≥19	≥19	2mm Polyflor Vinyl	
sound reduction	(EN ISO 140-8)					+ Acoustifoam ≥ 18	
Total Weight	EN 430	g/m²	2550	2800	3000	680	
	EN ISO 23997						
Performance classificat	tion EN 685		23, 33, 42	23, 34, 42	23, 34, 42	-	
Gauge	EN 428	mm	3.5	3.7	3.7	2.0	
	EN ISO 24346						
Wear layer thickness	EN 429	mm	0.5	0.65	0.65	-	
	EN ISO 24340						
Roll size	EN 426	m	2 x 20	2 x 20	2 x 20	2 x 20	
	EN ISO 24341						
Reaction to fire	EN 13501-1		Class BfI-S1	Class Bfl-S1	Class Bfl-S1	Class BfI-S1	
	ASTM E648				Class 1	Class 1	
Slip resistance	EN 13893		Class DS	Class DS	-	-	
			(Dry condition)	(Dry condition)			
	EN 13845		-	-	Esf	-	
	AS/NZ 4586		R10	R10	R10	-	
	DIN 51130		R10	R10	-	-	
RRP Pendulum (4	4S Rubber/Slider 96)		-	-	≥ 36	-	
Wet Test							
Surface roughness	Rz		-	-	>20µm	-	
Chemical resistance	EN 423		Excellent	Excellent	Excellent	-	
	(ASTM F 1301-99)						
Abrasion resistance	EN ISO 11638		Class 1	Class 1	Class 1	-	
	EN 13845		-	-	50,000 cycles	-	
Thermal Resistance	ISO 8302	m² K/W	0.0525	0.0525	0.0525	-	
Colour fastness	ISO 105-B02	level	≥6	≥6	≥6	-	
to artificial light	Method 3						
Residual indentation	EN 433	mm	< 0.2	< 0.2	< 0.2	-	
	EN ISO 24343-1						
Dimensional stability	EN 434	%	< 0.40	< 0.40	< 0.40	-	
	EN ISO 23999						
Castor chair suitability	/ EN 425		Suitable	Suitable	Suitable	-	
	ISO 4918						
VOC Test Ir	ndoor Air Comfort Gold		Approved	Approved	Approved	-	
	AgBB		Very low emissions	Very low emissions	Very low emissions	-	
	FloorScore		Certified product	Certified product	Certified product	-	
Underfloor heating	-		Suitable	Suitable	Suitable	-	
			max. 27°c	max. 27°c	max. 27°c		
Hvaiene	These products have	e been inder	endantly tested and r	esults demonstrate	that they inhibit the grow	vth of	
, , , , ,	MRSA on the floorin	g. An effect	ve cleaning regime is	however, the most in	nportant defence agains	st infection.	
Electrical behaviour	EN 1815 These n	oducts do n	ot accumulate static ch	arges above 2kV and	are classified as 'antistat	ic'. For specialist	
applications where there is requirement to dissinate the electrostatic charge see the Polyflor FSD product range							
Environmentaly	Polyflor Acoustiv products achieve a RRE Global Environmental A+ Pating (Cortificate No: END 415) in major use						
nreferable flooring	a store cuch as education and healthcare. Delufter Acoustiv products are 10004 recyclable. A ful Environmental Depart						
preferable flooring	detailing Polyflor's achievements in areas such as recycling, energy reduction and waste avoidance can be found at						
	www.polyflor.com/	anvironmor	t	ceyening, energy rec		ance can be round at	
	www.porynor.com/	environnen					

TECHNICAL

100%





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