

KLIKTEGELS & ESD VLOEREN

 **Screwdriving technology**

 **Workspace Organisation**

 **Safety & Ergonomics**



Your Assembly Workspace Partner

Interlocking floor tiles

Tough enough for industry, smart enough for retail. A quick, simple and sustainable flooring solution.

Description

Interlocking floor tiles are a tough, flexible and modern flooring solution. Available in two surface textures and a variety of colours. The tiles are manufactured with precision engineered open joints for maximum security.

The tiles can usually be installed without the requirement for a damp proof membrane, screed or adhesive, significantly reducing installation time and cost.

Composition & Manufacture

The tile is injection moulded using compound that has excellent wear characteristics, chemical resistance, long term stability and stable electrical properties.

An Environmentally Sustainable Solution

The tile is produced from the highest quality raw material. Once the tiles have reached the end of their useful life we will collect the tiles, free of charge, and recycle them to produce the next generation.

KEY BENEFITS

- *Extremely Hard Wearing*
- *Low Life Cycle Cost And Simple To Maintain*
- *Smart & Modern Appearance*
- *ESD Version Available*
- *Ideal For Fork Trucks And Heavy Loads*
- *Quick And Simple To Install, No Downtime*
- *Good Anti-slip Properties*
- *Protects The Existing Floor From Damage*
- *Quick And Easy To Amend Design or Layout*
- *Ideal For Damp Or Contaminated Substrates*
- *Manufactured in the UK - ISO 9001*
- *10 Year Product Warranty*

Applications

These tiles have been used in factories, schools and offices across Europe for over 20 years. Designed to cope with heavy vehicle and fork lift truck traffic, they offer good thermal and acoustic insulation and excellent resistance to impact and vibration.

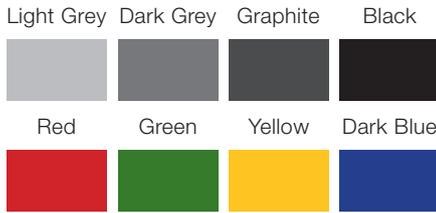
- **Factories**
- **Warehouses**
- **Garages**
- **Sports Facilities**
- **Passenger Terminals**
- **Schools**
- **Retail Outlets**
- **Exhibitions**



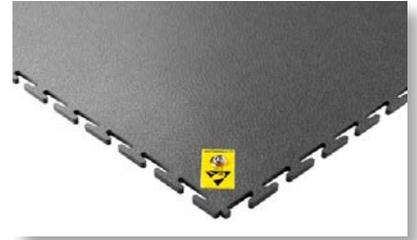
Standard colour range & surface textures



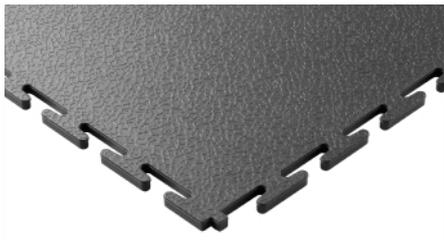
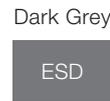
7mm Smooth



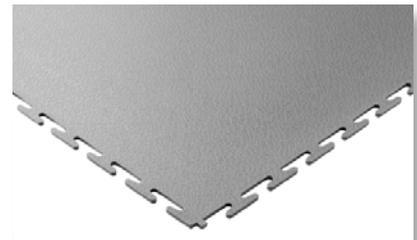
7mm Raised Disk



ESD 7mm



Recycled tile available in black and graphite, raised disk and smooth texture.



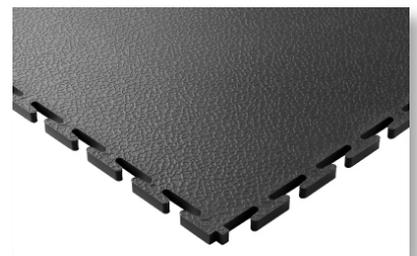
5mm



SPECIAL ORDERS

If you require a special colour please contact us. We can manufacture in almost any RAL colour subject to the following terms and conditions:

- *Minimum 10% cost surcharge subject to colour.*
- *Minimum 6 to 8 week lead time from date of order.*
- *Minimum order quantity 130m²*
- *Set up / colour proof charge of £350 per special colour.*
- *We are unable to accept returns, cancellations or amendment once the order has been placed.*



10mm Smooth



500/7

The Original Loose Lay Interlocking Tile

500/7 is the original loose lay interlocking floor tile. It is 7mm thick with an open joint dovetail design. Ideal for the vast majority of applications, **500/7** is a heavy duty floor covering that can withstand high point loading, impact and vibration. Ideal for heavy foot and vehicle traffic including fork lift trucks (as a guide up to 3.5 ton unladen weight).

If in doubt please contact your sales representative and / or check out the extra heavy duty 500/10 tile.

Hard Wearing: **500/7** is the world's number one interlocking floor tile manufactured from hard wearing 100% recyclable PVC.

Easy to Install: **500/7** can be installed without the requirement for a damp proof membrane, screed or adhesive significantly reducing VOC emissions, installation time and cost. Durable: **500/7** is injection moulded using compound that has excellent wear characteristics, chemical resistance, long-term stability and stable electrical properties.

Key Benefits

- **Extremely Hard Wearing.**
- **Quick And Simple To Install, No Downtime.**
- **Good Anti-slip Properties**
- **Protects The Existing Floor From Damage.**
- **Ideal For Damp Or Contaminated Substrates.**
- **10 Year Product Warranty**

Applications

500/7 has been used in industrial and commercial premises across Europe for over 25 years. Designed to cope with heavy vehicle and fork lift truck traffic, ecotile offers good thermal and acoustic insulation and excellent resistance to impact and vibration.

- **Factories & Warehouses**
- **Railway Stations & Airports**
- **Shops & Offices**
- **Schools & Colleges**
- **Garages & Workshops**
- **Exhibitions & Point of Sale**
- **Sports & Leisure Facilities**



500/5

The light duty loose lay interlocking floor tile

500/5 is the entry level version of the ecotile interlocking floor tile range and is designed for commercial, domestic and light industrial applications (not recommended for use with fork or regular pallet truck traffic). Incorporating the same proven design as the original 500/7 the tiles are quick and simple to install over any hard surface to create a tough and hardwearing floor finish that will help to reduce dust and noise and improve the appearance of your facility.

Composition & Manufacture

500/5 is injection moulded using compound that has excellent wear characteristics, chemical resistance, long term stability and stable electrical properties.

An Environmentally Sustainable Solution

500/5 is produced from the highest quality plastics and once the tiles have reached the end of their useful life we will collect the tiles, free of charge, and recycle them to produce the next generation.

Key Benefits

- *Low Life Cycle Cost And Simple To Maintain*
- *Smart & Modern Appearance*
- *ESD Version Available*
- *Quick And Simple To Install, No Downtime*
- *Protects The Existing Floor From Damage*
- *Quick And Easy To Amend Design or Layout*
- *3 year Product Warranty*

Applications

500/5 has been designed for domestic & commercial applications such as shops, offices and schools as well as domestic garages, home gyms, workshops and utility rooms.

- **Schools**
- **Exhibitions**
- **Shops**
- **Utility Rooms**
- **Garages**
- **Assembly Workshops**
- **Offices**



500/ESD

Conductive/Dissipative Floor Tiles

500 ESD can be used as your primary ground and is guaranteed to give ESD performance for the life of the tile. The electrostatic dissipative (ESD / EPA) interlocking floor tiles are ideal for use in electronics and telecommunications factories, computer server rooms, production plants such as pharmaceutical, paint, petrochemical and certain food production facilities with risk of dust explosion (sugar, flour dust etc.)

Composition & Manufacture: 500 available in 7mm ESD is manufactured from tough PVC compound incorporating millions of tiny stainless steel metal fibres. has excellent wear characteristics, and good chemical resistance. **IMPORTANT NOTE:** Please be aware that the stainless steel fibres may be visible on the surface of the tile. This is unavoidable and a fundamental part of the manufacturing process that ensures optimum ESD performance.

Performance & Test Results: 500/ESD has been independently tested:

- **Surface resistivity:** $2.2 \times 10^4 \Omega$ to $3 \times 10^6 \Omega$
- **Resistance to ground:** $2.9 \times 10^4 \Omega$ to $5.7 \times 10^5 \Omega$
- **Electrostatic Propensity:** < 10 Volts / < 2.0 kV
- **Static Decay at 15% humidity:** 0.01sec

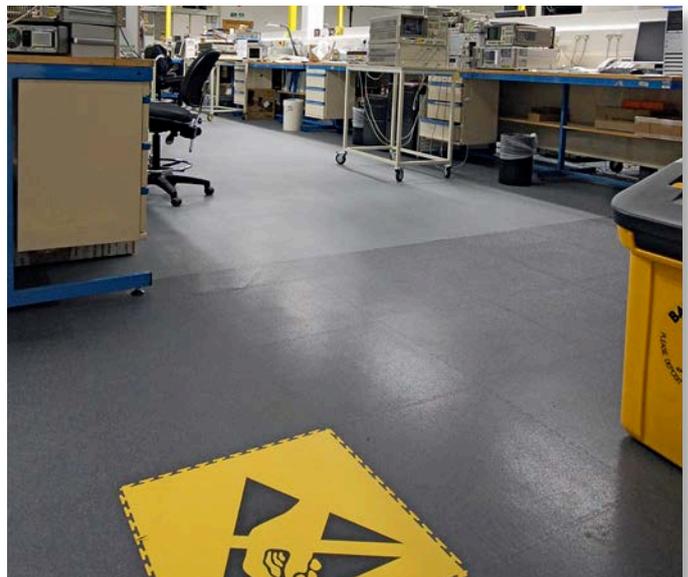
The test results guarantee that **500/ESD** complies with British Standard BS EN 61340-5-1:2016 and IEC 61340.



EN/ISO 61340/5, EN 1081,
EN1815 & EN6356 ESD
Flooring - Resistance to Ground



EN/ISO 61340/5, EN 1081,
EN1815 & EN6356
ESD Flooring - Surface Resistance



500/10

Ultra Heavy Duty Floor Tiles

500/10 has been used to repair and protect busy warehouse and factory floors where access time is limited. The 10mm tile is recommended for use in areas where heavier fork trucks, aisle stackers or narrow aisle trucks are used or where HGV's will be executing tight manoeuvres or rotating wheels whilst stationary.

500/10 has also proven extremely successful in aircraft hangars and fire station pump room floors. **The ultra heavy duty interlocking floor tiles are** exceptionally tough, resistant to impact, heavy loads and high traffic movements. **500/10** is the highest specification tile we produce and as with the entire range has been designed to be loose laid and is therefore quick and simple to install.

Composition & Manufacture: **500/10** is injection moulded using compound that has excellent wear characteristics, chemical resistance, and stable electrical properties.

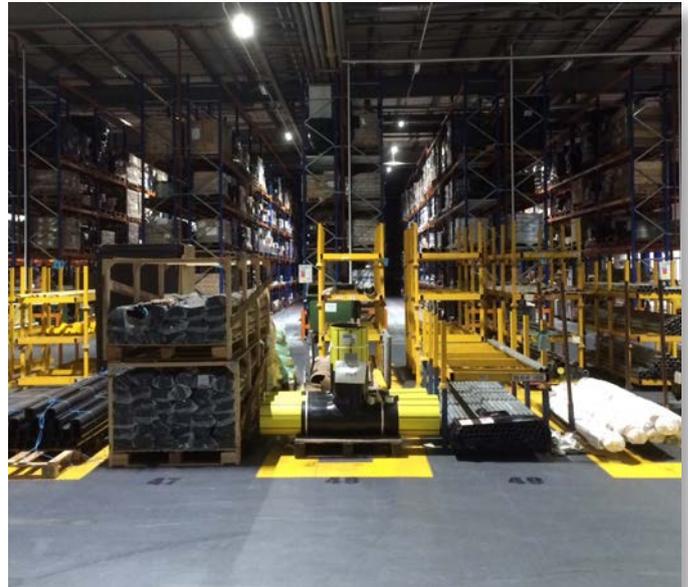
Key Benefits

- **Extremely Tough & Hard Wearing.**
- **Excellent Resistance To Impact & Vibration**
- **Protects The Existing Floor From Damage.**
- **No Floor Preparation Or Adhesive Required**
- **Low Life Cycle Cost & Easy To Maintain**
- **Good Anti-slip Properties**
- **Withstands Exceptional Heavy Wear.**
- **Quick And Simple To Install, No Downtime.**
- **Insulates Against Cold, Damp & Noise**

Applications

500/10 can be used almost anywhere and is the tile to specify if you have any concerns about the loads that will be travelling across the floor or the levels of abuse and/or impact that the floor will be subject to.

- **Engineering Plants**
- **Warehouses**
- **Commercial Garages**
- **Free Weight Areas**
- **Power Stations**
- **Aircraft Hangars**
- **Passenger Terminals**
- **Food Factories**
- **Shopping Centres**
- **Fire Stations**
- **Distribution Centres**
- **Maintenance Depots**



logo tiles

Add impact to your floor by incorporating permanent floor markings. The tiles are able to incorporate almost any logo or image into your floor to create a permanent and highly visual sign or message. The logo tiles are manufactured by CNC water laser jet cutting which ensures a clean and precise cut. The only restriction on design is the colour range which is limited to black, light grey, dark grey, graphite, red, green, yellow, dark blue and white. (plus occasionally a few special colours, subject to availability).

Company logo tiles: Place your sales message or logo where it will really get noticed and enhance your company's image and profile.

Badges & Insignia: Almost any design can be incorporated into your floor.

Hazard Warning / Floor Safety Signs: Statutory Health and Safety Regulations require every company to display the appropriate health and safety signs.

We are able to manufacture the full range of warning signs (black & yellow), prohibitory signs (red & white) and mandatory signs (blue and white).

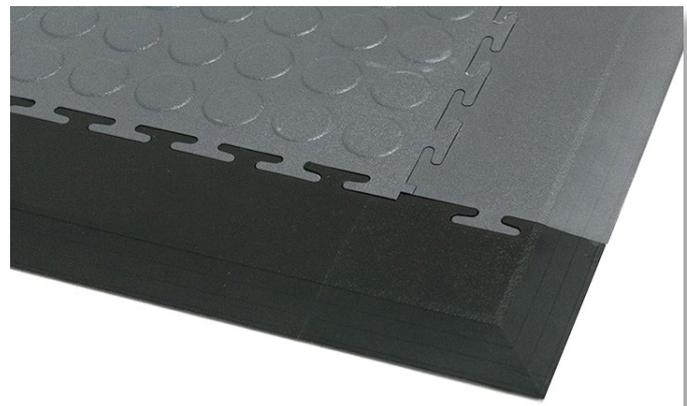
Applications

- In-Shop Displays
- Demo Areas
- Showrooms
- Mandatory Warning
- Exhibition
- Safety Hazards
- Guidance for Fire Exits
- Traffic



accessories

Code	Description
Ramps, Diminishing Strips & Thresholds	
E57.100	500/7 clip on ramp sections available in all standard colours. Dimensions: 500mm x 70mm x 7mm>1mm
E57.000	500/7 clip on ramp corner sections available in all standard colours. Dimensions: 590mm x 70mm x 7mm>1mm
PCR6	Stick on ramp sections / diminishing strips. Available in black, dark grey and light grey. Dimensions: 2000mm x 32mm x 7mm>1mm
41.200	SP050 adhesive for sticking diminishing strips



cleaners, specialist sealers & polishes

45.900	Anti-colour stain prevention sealer - Use to prevent plasticiser migration from rubber tyres, colour dyes etc..) *
45.850	Anti-slip sealer *
45.875	Heavy duty polyurethane floor sealer *

All products marked * require application by qualified installers, please contact us for further details.

46.000	Floor Cleaner
46.300	Floor Polish
46.100	Stripper
46.500	Stubborn stain removal wipes – For fast removal of stubborn stains on products in a handy easy to use bucket.

accessories

16.234	ESD Grounding Kit (Consists grounding tape, studded tile, plug & earthing cord with 1 meg ohm resistor) - 1 kit required per 50 to 80m ² of esd flooring depending on layout.
13.232	ESD Floor Marking Tile
13.300	7mm tile with a metal insert for motorbike stands and to prevent vulcanisation



Interlocking floor tiles

Technical & Environmental Fact Sheet

Life Cycle Cost - The tile is a loose laid system so in the event of damage or excessive wear individual tiles can be lifted and replaced significantly extending the life of the floor and reducing the life cycle cost.

Sustainability - The tile is 100% recyclable, at the end of its service life the tiles can be granulated and re-used to manufacture a new floor. Most floor coverings only have a limited life span due to wear or the building occupier's wishes to refurbish or alter the building's appearance. Most waste floor coverings will end up in land fill due to the fact that once it has been adhered to the floor it cannot be re-used. Not only can ecotile be recycled but there is a strong market for pre-owned tiles.

Anticipated Service Life - 25 years +

VOC Content - Trace elements of volatiles from modifiers and non PVC based additives. Significantly lower VOC levels when compared to resin based flooring systems or the levels encountered when using adhesives to stick down conventional floor coverings. The tile contains no formaldehyde and carries a class E1 rating.

Sound Absorption - Noise reduction of up to 46db can be achieved.

Hardness - Standard: ISO 868 – 89-92 Shore A.

Slip Resistance / Anti-Slip Qualities:

EN 14041:2004 - Pass - Average Reading in excess of 0.6 dynamic coefficient of friction.

DIN 51130:2004 - R10 Rating - Suitable for use in areas where there is an increased risk of slipping.

EN 13893:2002 – Dynamic Coefficient of Friction 0.75 avg.

	EN14041:2004 - Dynamic coefficient of friction	DIN 51130 - Determination of slip resistance.
Raised Disk	≥0.56	R10
Smooth	≥0.67	R10

All tests undertaken by Building Technology Group, BRE Garston. Test certificates available

Fire Performance does not support combustion and achieves Class 1 spread of flame when tested to BS 476: Part 7 / DIN13501: 2004 - Bfl-S1

Abrasion Wear - Group T (<0.1mm /100 revs) (EN 660-2 / EN13845).

Mechanical Resistance - 17 N/mm² to DIN 53516.

Determination of Length, Squareness & Straightness - BS EN 428:1993 - <0.13% / 0.5mm max.

Thickness - BS EN 428 – 4.5 to 9.24mm +/- 0.15mm.

Determination of Residual Indentation BS EN 433:1994 - <0.1mm / Dimensional Stability - BS EN 434:1994 – Maximum change in dimension <0.1% / Compressive Strength - ISO 6721-1:1994, ISO 6721-2:1994, ISO 6721-6:1996: 520kg/cm²

Dimensional Stability - BS EN 434:1994 – Maximum change in dimension <0.1%.

Compressive Strength - ISO 6721-1:1994, ISO 6721-2:1994, ISO 6721-6:1996: 520kg/cm².

Chemical Resistance - Good resistance to most commonly used chemicals. It offers good short to medium term resistance but as with most materials long term exposure could result in damage to the elastomer, colour and stability of the tile. In the event of accident we recommend the tiles are cleaned as soon as possible and if necessary lifted to remove any chemical that may have seeped underneath. EN 13529 – Common acids oils & gas oil – No deterioration / Solvents – Not resistant to prolonged contact.

Colour Fastness / Resistance to natural light: EN 20105-B021 - 5 (no damage).

Cleaning - Day-to-day cleaning - Use a rotary scrubber dryer or damp mopping.

Electrical Properties - Standard: surface resistivity: 10¹¹ and 10¹⁴ Ω / ecotile ESD: surface resistivity: 3 x 10⁶Ω and 2.2 x 10⁴Ω / Resistance to ground : 5.7 x 10⁵Ω and 2.9 x 10⁴Ω.

Mechanical Resistance - Tests were carried out in accordance with the requirements of Annex A.1 of BS IEC 61340-5-1:2001. ESD fulfils the recommendations detailed in BS EN 61340 5-1:2001 for floors to be used for primary grounding.

Resistance to Hot Objects/Solder - Good

Interlocking floor tiles

Guidelines & Terms & Conditions of Sale

RAL Colours - Due to the manufacturing process we cannot guarantee a precise match to a RAL colour and the following list is provided as a guide only: Graphite RAL7016, Black - RAL9017, Light Grey - RAL7004, Dark Grey - 7015, Dark Blue - RAL5013, Green - RAL6026, Red - RAL3020 - RAL3009, Yellow - RAL1023.

The following guidelines have been prepared to assist you with the specification, installation and use. The list is not exhaustive but covers the key points and the lessons we have learnt over our many years.

Surface Finish / Patina - The tile is designed to provide exceptional durability and simple installation. This is achieved by the unique interlocking design and method of production. The method of manufacture may result in a witness mark being visible in the tile at the central injection moulding point and along the flow lines from the centre and around the external edge of the tile. ESD contains stainless steel fibres that may be visible on the surface of the tile. This is unavoidable and a fundamental part of the manufacturing process that ensures optimum ESD performance. Please check the tiles, if the marking is unacceptable do not continue with installation as we will not accept responsibility to replace or refund the cost of any goods after 10m² or more have been installed.

Batch Control - We are unable to guarantee 100% colour consistency between individual production batches. Each individual order will be supplied from a single batch but in the event that you need additional tiles or wish to extend the area we cannot guarantee subsequent orders will be supplied from the same batch.

Adhesive - In the vast majority of applications no adhesive is required; the tiles can be dry laid and will take forklift or vehicle traffic without a problem. The tiles may require gluing if there is a risk of heavy point loading or shear (for example a three wheel electric reach truck with the batteries located over a small single back wheel or areas with tight turning circles). It may also be necessary to glue patches of tiles exposed to an isolated heat source such as a catalytic converter or furnace. Please contact us for further advice.

Expansion Gaps - The tile must be fitted with a 5mm expansion gap between the tiles and any fixed point (walls and machinery) The minimum temperature at which the tile can be installed is 15°C. The tiles must be stored within the installation area at a minimum temperature of 15°C for at least 24 hours prior to commencing installation.

Chemical Resistance & Staining - The tile offers good resistance to petrol and other hydrocarbons, however in the event of prolonged and excessive exposure the elastomer in the tiles can be damaged and may result in the tiles curling. In the event of a spillage clean the tiles and if you suspect the chemical has got under the tiles we recommend lifting and cleaning the underside of the tiles. Rubber tyres (car, motorbike & fork truck) contain a chemical that can cause staining as well as other types of floor coverings (vulcanisation / plasticiser migration). This will not damage the tiles but we recommend using a darker colour to minimise the impact of the staining. If you wish to use a light coloured tile in your garage we recommend sealing with Dr Schutz anti-colour or considering our Lifestyle range, please contact the office for details.

External Use - is not recommended for use outdoors.

Direct Sunlight (Shop fronts, south facing loading bay, sky lights etc.) - It is advisable to glue the tiles in areas subject to direct sunlight such as glass fronted entrance foyers, shop fronts, south facing loading bay doors etc. It is possible that the tiles in direct sunlight will get very hot and expand at a faster and higher rate than the remainder of the floor.

Installations being undertaken by Ecotile

The tiles must be left in the installation area to acclimatise for a minimum of 24 hours before installation commences.

We reserve the right to charge for any unforeseen repair work / alterations that may be required to allow installation to be completed, for example if the floor has been damaged by the removal of the old floor finish or to trim doors to fit.

In the event that we are undertaking installation please be aware that it is the customer's responsibility to ensure that the installation area is as clear as possible. The great advantage is that it can be laid without the need to remove machinery; racking benches etc. but to make the job as efficient as possible we request that pallets, boxes, computers etc. are moved or placed on table tops so that our installation team can concentrate on fitting your new floor.

Failure to adhere to the guidelines may invalidate your warranty and in the event that any rectification or repair work is required. we reserve the right to charge for any making good or repairs.

Interlocking floor tiles

Guidelines & Terms & Conditions of Sale

Warrants for the period of ten years from the date of installation that its range of interlocking floor tiles will not deform, degrade or distort and that in the event of any of these things occurring we will replace the defective material free of charge provided that:

The tiles are installed in accordance with ecotile installation instructions (specifically that installation has taken place when the temperature is above 15 degrees centigrade and a minimum of a 5mm gap has been left between the tiles and any fixed points, walls etc.).

The floor has been subject to normal wear and tear and has not been subject to physical misuse or vandalism.

Furthermore we warrant that the ESD range will retain its ESD performance for the life of the product.

The warranty does not extend to:

Damage caused by chemicals or hydrocarbons that have not been tested or are not detailed within the technical data section of our brochure. The tile offers good resistance to most commonly used chemicals and hydrocarbons with the specific exception of toluene or its derivatives. If customers are concerned we recommend that they undertake their own tests prior to installing.

Markings from rubber tyres (car, motorbike, fork truck etc.) cigarettes or other burning agents or staining of the surface by acetone, cutting oils and lubricants (in particular those containing sulphur) or colour fading caused by exposure to UV / sunlight.

Product Data			
Dimensions	Thickness- Smooth	Thickness - Raised Disk	
All Tiles – 500 x 500mm	E500/5- 4.5mm E500/7 - 6.8mm E500/10 - 9.53mm E500/7/ESD - 6.8mm	- - E500/7 - 7.6mm -	
Weight/m ²		Packaging:	
E500/5 5.44kgs/m ² E500/6 Smooth, 8.0kgs/m ² / Slate - 8.2kgs/m ² 2.5m ² per box E500/7 (inc. ESD) Smooth 8.86kgs/m ² / Raised Disk 9.1kgs/m ² E500/10 Smooth 11.24kgs/m ²		Pack Size:	10 tiles per box 2.5m ² per box



Made in Britain



ENHANCED SLIP: Sustainable wet slip resistance EN 14041: 2004 - Pass / DIN51130:2004 - R10 - Suitable for use in areas where there is an increased risk of slipping due to grease, oil water etc. Mean surface roughness Rz ≥37µm The slip resistance across all ecotile products is assured throughout the guaranteed life of the product, with strict adherence to HSE Guidelines.



REACTION TO FIRE: EN 13501-1 Class Bfl-S1
EN ISO 9239-1 ≥8kw/m²



EN 423 GOOD



Impact Resistance
EN13329 -
549 549kg/cm²



* EN/ISO 61340/5, EN 1081, EN1815 & EN6356
Resistance to Ground



EN 13845 50K cycles EN 649 Group T



Noise Reduction
EN 140-8 >46db



* EN/ISO 61340/5, EN 1081, EN1815 & EN6356 -
Surface Resistance



Thickness of wear layer EN 428 6 to 10mm

Notes: * relates to E500/ESD

Accreditations:



Registered to ISO 9001:2015 & ISO 14001:2015

2602019 - QMS & 2702019 - EMS



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DESTELBERGEN

