Magnetic acoustic engineered wooden flooring technical data sheet wood element

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TIERdrylay™ FLOORING SYSTEMS

Description	Drylay backed, and sealed engineered plank with a REGUPOL acoustic layer bonded within for superior coverings on a range of subfloor surfaces
Wood species:	European Oak, prime/rustic
Finish:	White oak
Approval:	FSC available up to 100% anti-slip
Lengths:	Random 450–2400mm (average 1800–2400mm)
Widths:	140/180/220/260mm
Profile:	Tongue and groove ends and 1.5mm bevel to long sides. Magnetic base.
Finished:	Filled and sanded P120 / bespoke finish
Construction:	16mm – 4mm Oak wear layer, 9mm multi-layer Birch plywood and 3mm REGUPOL Sonus 3 Eco acoustic centre layer (18db reduction), 1mm magnetic backing
Lamination:	Hydraulic cold press
Glue line:	D4 moisture curing polyurethane adhesive
Norm:	DIN EN 14342:2013 Multilayer Flooring
Reaction to fire:	Cfls1* optional Bfsl1 available NOTE: * Valid on mineral sub-floors in end use application using adhesives or not
Density:	685 Kg/m^3 370-720 Kg/m^3 acoustic content (see below specific sheets)
Formaldehyde emissions:	Class E1
Warmth conduction:	15mm-0.091 W/m^2 K (Please refer to additional Regupol readings below)
Temperature resistance:	-40 °C to +110°C
Site conditions:	45–65% relative humidity and 18–20°C room temperature – where Underfloor heating is used, do not exceed 27°C
	Good resistance to UV, chemicals, weather conditions, aging and plasticisers
D/S adhesive P2:	A clear PET Film with high performance adhesive, providing excellent long term bonding and strong holding power. Suitable for high temperature use. Tear resistant liner for excellent die-cutting attributes
	Good resistance to UV, chemicals, weather conditions, aging and plasticisers
	Thickness: 0.2mm–0.21mm. Temperature resistance: short term 200°C, long term 100°C
Magnetic backing:	Strontium ferrite isotropic magnetic sheet 0.75mm thick – Attractive Force = 38g/cm2 Magnetic properties: Energy (BH Max): 0.6 MGOe
	Residual induction Br (Gauss): 1600-1800 Gs Intrinsic coercive force Hcl (Oersteds): 2405 Oe Coercive force HcB (Oe): 1306 Oe
	Physical properties: Can be coiled to 13mm radius @ 68°F without cracking Hardness: Shore D45
	Machineability: die cutting, knife cutting, power saws, cleanly and with ease
	Specific gravity: 3.6
Optional **Q-Lon seal:**	Polyurethane foam seal, acoustic seal, anti squeak, water resistant, cold smoke proof. Tested up to 20 years.
	Temp range: -60°C to +70°C
	Abrasion resistance: No abrasion after 285,000 cycles of grinding load
Installation method:	All new access floors should be installed to SR1 standard. Pedestals must be adjusted and levelled to eliminate any rocking or lipping of the raised access panel. The locking nut on the pedestal should be utilised to avoid any opportunity of the pedestal moving during its lifespan. Where possible, the access panels should be fixed to the pedestal. If this is not possible as with some brands, SR1 standard must be achieved. See our 'Tier tips' in our full Installation and maintenance guidelines to ensure a perfect installation.
	Ensure Steel surface on raised access floor is clean from debris and dust to get maximum magnetic bond before laying random planks. Boards can be cut with ease with a cross cutting saw blade, Manual or power.
Removal method:	To remove the boards for access, use a suction cup tool. Apply a small amount of washing up liquid to the cup, apply suction cups tool to the surface of the plank to be lifted, next to a joint. Apply pressure whilst you engage the suction cups mechanism ensuring a full seal, and lift. Surrounding boards need only small lever to break the magnetic bond at an edge, and planks will lift with ease.
Underfloor heating:	This product is compatible with underfloor heating. Temperature resistances listed above.
Cleaning method:	Ensure you use the correct Tier Global cleaning materials. Please check our website for the correct cleaning solution to use on TIER acoustix floors. Do not clean wood flooring with water alone as this will create a high risk of surface coating failure. Clean away any residues on the floor quickly.

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Guarantee:	Tier Global (UK) Ltd guarantees to investigate any complaints reported within 25 years from the date of sales invoice. In the event of a valid claim, Tier Global Ltd will provide replacement materials free of charge.
	The lifetime of our guarantee covers the structural integrity of the product being the production, dimensions and grading of the timber element of the board. For pre-finished floors our guarantee also covers the surface finish will adhere correctly to the boards and will not wear through for general residential use, when a preventative cleaning and maintenance programme is in use.
	Wood is a natural product and will expand and contract throughout the four seasons, during these seasons you may experience some natural movement which is not a product defect and is not covered by this guarantee.
	As a general guideline, the ambient room temperature should be maintained between 15 and 25°C and humidity levels between 45 and 65%. To maintain these humidity levels we would recommend using a humidifier/dehumidifier. Our guarantee is subject to your room conditions being maintained in accordance with British Standards 8201 current recommendations.
	Tier Global (UK) Limited maintenance products should be used to maintain the warranty (samples available).
	All complaints are to be reported in writing by post or email to info@tierglobal.com within 48 hours of the issue becoming visible, to allow us to investigate the cause and extent of the problem. Our guarantee is subject to our terms and conditions.

Acoustic engineered wooden flooring technical data sheet REGUPOL Sonus 3 Eco acoustic layer

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TIERdrylay™ FLOORING SYSTEMS

Description

REGUPOL Sonus 3 Eco is a tough, resilient, low cost acoustic underlay that has been developed to attenuate impact sound beneath a wide range of floor finishes, including carpet, wood, laminates and tiles in concrete construction. REGUPOL Sonus 3 Eco is not recommended for use in timber constructions. Extremely durable, flexible and sustainable, REGUPOL Sonus 3 Eco delivers cost effective impact sound insulation and is ideal for all types of developments.

Benefits

Designed for use with a wide range of floor finishes, including carpet and tiles as well as wooden based floor finishes, e.g. parquet

Offers long term performance without collapse or "bottoming" out under high point loads

Resistant to ageing and deformation

Zero global warming potential (GWP) and zero ozone depletion potential (ODP)

Product manufactured using Recycled Materials and 100% recyclable

Applications

REGUPOL Sonus 3 Eco is popular with developments where effective sound control is essential and budgets must be kept to a minimum. These include:

- Apartments
- Education developments
- Hotels
- Commercial developments
- Leisure developments

Physical information

Material thickness:	3mm and 4.5mm
Material construction:	Rubber/cork

Technical data

Density:	approx 470kg/m^3
Tensile strength (DIN 53571):	approx 0.6N/mm^2 (3mm thick)
Elongation at break (DIN 53571):	approx 18%
Temperature resistance:	-40°C to +110°C
Thermal conductivity:	approx 0.085W/mk
Impact sound insulation ΔLW:	17dB

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