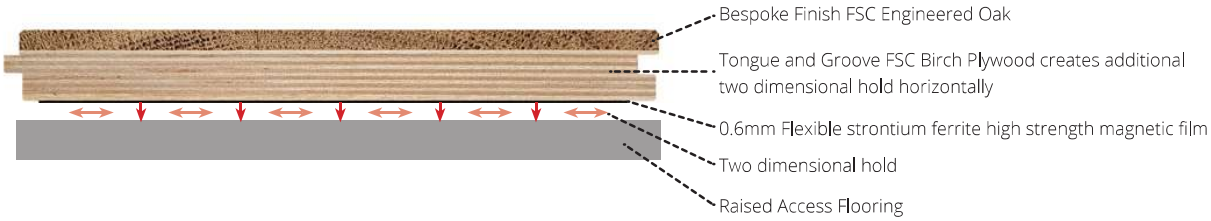
MAGNITUDE

Sustainable Magnetic Wood Flooring



Magnitude Sustainable Magnetic Wood Flooring powered by IOBAC combines our high quality Stability FSC engineered oak with a high strength magnetic film to provide a sustainable, circular, cost saving, adhesive free, contamination free and durable real wood floor installation.

The combination of the tongue and groove planks and high strength magnetic film create a two dimensional hold vertically and horizontally to a magnetically receptive raised access floor.

KEY BENEFITS

STRONG, YET REVERSIBLE HOLD

- Powerful 2-dimensional hold.
- Tongue-and-groove mechanism locks planks together horizontally. A strong magnetic grip holds vertically to a magnetically receptive metal raised access floor.

SUSTAINABLE AND CIRCULAR – ADHESIVE FREE INSTALLATION

- Maximises economic value and minimises environmental impact.
- Wood flooring is sustainable and finishes are plant and water based.
- Easy to deconstruct, reuse, repurpose and recycle.
- Flooring can be reused, significantly reducing landfill waste and avoiding additional embedded carbon from new materials.
- No sub-floor contamination – no messy, expensive remediation work.
- The magnetic film is PVC, phthalate, plasticiser and VOC free.

IMPROVED HEALTH & WELLBEING

- VOC's associated with wet adhesive installation methods are eliminated for improved Indoor Air Quality.
- Magnetic backing does not interfere with hearing loops, Wi-Fi or electronic devices.

FAST INSTALLATION

- Reduced labour time and cost – quick and clean to install and uplift.
- Minimal preparation required – no sealants, primers or plywood bases needed.
- The T&G planks require no additional pinning or fixing (providing installed to a level raised access floor).
- Reduced maintenance costs.
- Ease of access maintained.

DESIGN FLEXIBILITY

- 20 core products or choose from our bespoke range with 1000s of combinations of. colours, textures, sizes and finishes available
- Manufactured in the UK by WFA.

MADE IN BRITAIN · 25 YEAR Guarantee · PEFC · FSC

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ENVIRONMENTAL BENEFITS

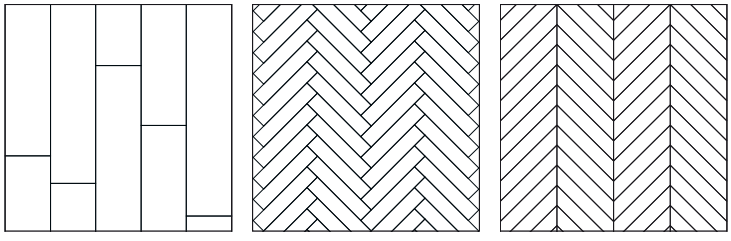
Magnitude Sustainable Wood Flooring contributes towards sustainability assessment certifications such as **BREEAM, SKA** and **LEED** by earning credits for material reuse.

IMPROVED CIRCULARITY
Flooring easily reused, avoiding additional embodied carbon.

DESIGNED FOR DISASSEMBLY
Maximises economic value and minimises environmental impacts through reuse, repair, remanufacture and recycling.

ASSET PROTECTION
Sub-floor undamaged, eliminating costly remedial or replacement work.

Bespoke Core Range & Formats



The design possibilities are endless with 1000s of combinations of colours, textures, sizes and finishes available. Bespoke data sheets available on request.

***** Our fumed and smoked colours are achieved through a process which reacts with the natural tannins in the oak. Although we use controlled processes when smoking **variation in colour will occur** and the final colours are dictated by nature and not by using pigmented stains.

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Where can it be used?

Commercial, Workspace, or any installation with a metal raised access floor.

Subfloor Requirements

The Subfloor **MUST** be to British Standard SR1 tolerance: maximum 3mm over a 2m straight edge.

Lipping between access panels must not be greater than 0.5mm

The panels must be sound, dry, clean, free from contaminants and degreased if required prior to installing Magnitude Sustainable Magnetic Wood Flooring.

See installation guidelines for full details.

Removal and Replacement of Planks

Where access is required the boards can be adapted on site and there are two ways to remove the boards.

Using a suction cup tool, or if the surface finish has a heavier texture the installation of flush ring pull handles is advised, please refer to our installation guidelines for full details.

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Product Data Sheet

Stability 10, 12, 15 & 20mm Plank, Herringbone and Chevron

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Sustainable Magnetic Wood Flooring

Should you require the information on any other details please contact the sales team on **020 8501 6730** or **info@wfa.uk.net**

Product Details

Product Description:	Stability 10 / 12 / 15 / 20mm
Wood Species:	European Oak
Construction:	Engineered
Product Type:	Plank / Herringbone / Chevron
Grade:	Prime / Rustic
Profile:	Tongue & Grooved
Edge Profile:	1.50mm 4 Sided Micro Bevel
Finish:	UV Cured Oiled - Matt or Silk / BF
Size:	Various - See individual data sheets on request
Total Thickness:	**10mm**
Wear Layer:	4mm Oak Wear Layer
Core Layer:	6mm Multi Layer Birch Plywood
Total Thickness:	**12mm**
Wear Layer:	3mm Oak Wear Layer
Core Layer:	9mm Multi Layer Birch Plywood
Total Thickness:	**15mm**
Wear Layer:	4mm Oak Wear Layer
Core Layer:	11mm Multi Layer Birch Plywood
Total Thickness:	**20mm**
Wear Layer:	6mm Oak Wear Layer
Core Layer:	14mm Multi Layer Birch Plywood

Technical Information

Country of Manufacture:	Europe
FSC®:	FSC 100% FSC-C111710
Lamination:	Hydraulic Cold Press
Glue Line:	D3 Water Based Glue
Norm:	EN 14342:2005+A1:2008
Reaction to Fire:	10 / 12 / 15mm - D_{fl}-s1 / 20mm - C_{fl}-s1
Density:	650 kg/m3
Formaldehyde Emissions:	Class E1 Zero Emissions
Warmth Conduction (approx):	10mm – 0.074 W/m K 12mm – 0.088 W/m K 15mm – 0.111 W/m K 20mm – 0.148 W/m K
Production Tolerances;	
Width:	+/- 0.20mm
Thickness (Total):	+/- 0.20mm
Length:	+/- 3.00mm Plank +/- 0.20mm Herringbone & Chevron
90° Angle:	+/- 0.3°

Magnetic Performance

Material Composition:	Magnetisation on one face only, 90% high grade ferrite powder, 10% synthetic binder FREE of PVC and phthalates
Magnetic strength:	42g per cm^2
Hardness:	Shore-D – 33 ± 5
Thickness of Magnet:	0.6mm

Grading

PRIME

Maximum Size of Sound Knots:	Possible knots up to 10mm
Maximum Size of Filled Knots:	Possible knots up to 5mm
Sap Wood:	Minimal Edge and Core Sap Wood
Colour Variation:	Natural Variation Allowed
Grain Variation:	Mixture of Natural Grain

RUSTIC

Maximum Size of Sound Knots:	Up to 70mm
Maximum Size of Filled Knots:	Up to 35mm
Filled Defects:	Allowed
Filled Type:	Coloured Filler
Sap Wood:	Minimal Edge and Core Sap Wood
Colour Variation:	Natural Variation Allowed
Grain Variation:	Mixture of Natural Grain and Knots

Installation

Installation Method: Magnitude Sustainable Magnetic Wood Flooring

Please also refer to our guidelines. ✓

Site Conditions: 45 – 65% relative humidity & 15 – 25°C room temperature.

Maintenance Advice

To fully aid in the care of the floor it is advised that all precautions are carried out. Avoid scratches by minimising grit and dust, install doorway entrance mats and apply felt pads to furniture. Use PH neutral cleaners and avoid soaking the floor with water at all times.

Recommended Products	Initial	Regular	Monthly	Long Term
Sweep / Vacuum:	✓	✓		
Oiled Finish				
Osmo Wash and Care:		✓		
Osmo Maintenance Oil:				✓

Guarantee: 25 years; The lifetime of our guarantee covers the structural integrity of the product being the lamination, production, dimensions and grading. Please see our guarantee sheet for full details.

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Available in the following Bespoke Core Range Colours - for alternative bespoke options please contact us.


BF497 *


BF512


BF638*


BF808


BF902

BF903


BF904


BF911


BF920 *


BF922 *


BF929 *


BF939


BF941 *


BF1976 *


BF2811 *


BF2830


BF3630


BF3750 *


BF3767


BF3796

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ENGINEERED PLANK FLOORING - MAGNETIC

INSTALLATION GUIDELINES

The following should be used for guideline purposes only, as it is the responsibility of the installation contractor to ensure that floors are installed correctly and safely, subject to the relative site conditions, sub floor and specified finish.

These guidelines are designed to complement the current British Standard BS8201 and any other relevant standards of manufacturer's instruction.

SITE CONDITIONS

Before materials are delivered to site, all wet trades should be complete and dried out. The building must be weather tight, i.e. doors and windows fully fitted.

Site conditions should be checked to ensure the humidity levels are - and are maintained at - between 45% and 65% RH, and the room temperature between 15°C and 25°C.

Extremes of temperature / humidity will affect the stability of wood flooring. Low humidity can cause the wood to shrink, and a high level to cause expansion. Typical causes of low humidity are the use of heating at too high a temperature.

We recommend using a thermometer / hygrometer to monitor temperature and humidity. A humidifier / de-humidifier can be used to control the ambient conditions.

As a general guide, areas should be adequately ventilated to prevent a build-up of moisture in the atmosphere. Wood will naturally change its size during the progress of the seasons. In the summer, the humidity is generally at its highest level and wood joints should be reasonably tight together.

During the winter, when heating is typically used, the humidity levels are generally lower and wood flooring will naturally show small gaps between the joints.

This is natural movement and not a manufacturing or installation fault.

The wood flooring should acclimatize in the room where the wood is to be fitted for at least 72 hours prior to installation to balance with the environment it is going to be used in. It should be stored out of direct sunlight, away from walls and radiators and on battens fully supporting the wood to allow airflow around the flooring.

METAL PAN SUBFLOOR REQUIREMENTS

The subfloor must be sound, clean, dry and flat to British Standard SR1 tolerance: a maximum 3mm gap under a 2m long straight edge at any point across the sub floor and no more than 0.5mm lips between metal sub floor panels.

Any residues or contaminates from oil, grease or adhesives should be removed with a degreaser prior to installation of the floor.

The integrity of the floor bond is dependant on the floor achieving full contact with the metal pan substrate.

INSTALLATION

As a general rule of thumb, subject to site conditions and overall width span of area, an expansion gap of 1.5mm per linear metre run throughout the expanse of the flooring is required to the perimeter of the floor, with a minimum expansion gap of 10mm. Dependant on the size of the floor area to be laid some provision may also be required within the body of the floor. This is to allow for changes in ambient conditions, especially changes in humidity, which can cause wood floors to move naturally. Unless suitable provision is made to accommodate movement, the stability of surrounding walls can be affected or undesirable changes in the floor surface might result.

Expansion gaps should also be provided at all other abutments such as radiator pipes, thresholds, door linings, floor sockets, etc.

Expansion gaps should be filled with a cork or neoprene strip to prevent edge boards working apart and can be covered using scotia / quadrant / flat bead / skirting.

Threshold profiles should be installed in all doorways, arches or narrow sections that lead from one room / area to another. These thresholds must allow for the required expansion and contraction. Door frames and architraves can be undercut to allow the wood to slide underneath, still allowing for expansion.

For further information on expansion gaps see the BSI website; BS 8201:2011.

The flooring should be taken from three separate packages and not all from one pack, to avoid areas being installed from the same batch of wood.

When planning the layout of the area, you may wish to balance the board width against the two most prominent walls, taking into account focal points. This is more critical in smaller areas than in larger areas, where you cannot visualize both sides at the same time. Aim to have at least half a board width at each side, as smaller width boards are difficult to fit and highlight any discrepancies in the straightness of the walls.

The selection of a layout is, of course, an aesthetic matter.

Ensure there is at least 300mm between the header joints, and ideally 500mm – or at least two times the width of the board. Place spacers between the boards and the wall to maintain the expansion gap.

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REMOVAL AND REPLACEMENT OF PLANKS

There are two ways to remove the boards for access;

Use a suction cup tool. At the point of installation of the floor, planks will need to be identified as access points and the bottom of the groove side and the end should be removed, plus the tongue on the end of the board should also be removed. Apply the suction cup to the surface of the plank to be lifted. Apply pressure whilst you engage the suction cups mechanism ensuring a full seal, and lift. Surrounding boards will need only a small lever to break the magnetic bond at an edge, the planks will lift with ease.

For any floor that has a medium brushed and/or textured surface the installation of flush ring pull handles is advised. These should be rebated into the appropriate plank/s.

Basic and easy to operate, simply pull on the ring which will elevate and in turn pull the plank the mounting plate is affixed to from its installation.

Available in different sizes and finishes.

ONGOING CONDITIONS

Throughout the life of the floor, we recommend that the temperature should be maintained between 15°C and 25°C, and relative humidity levels between 45% and 65%, which will keep any movement within the floor to a minimum and ensure that the floor remains stable. As with any wooden floor, if humidity levels rise or fall outside of these parameters, a greater degree of shrinkage or expansion would be expected to occur. ■

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