



# tessera<sup>®</sup> alignment

creating better environments



FLOORING SYSTEMS



**Organisations perform well when people get together and begin to work effectively, because with teamwork the combined effect is always greater than the sum of the individual efforts. However, this only happens with co-operation and a common purpose, when thoughts and ideas are shared then alignment can be reached.**

Multi-height loops give this distinctive floor covering a bold directional theme which is tempered by the introduction of intersecting random blocks of rich cut pile. The result is a highly effective broadloom appearance and a unique linear style.

- A broad collection of 24 colourways ranging from urban neutrals to fresh aquas and teals
- Eight highlight colours, ideal for using alongside the nucleus colourway
- Easily combined with Allura Flex vinyl tiles using the same adhesive, without the need for transition strips, additional profiles, or inconvenient build-up of the sub floor
- Meets SKA rating for M12 soft floor coverings
- Contains 60% recycled content by weight
- 100% Invista Antron Lumena solution dyed polyamide 6.6 yarn for durability and colour fastness



60% recycled content by weight



tip sheared loop construction for structure and pattern



50cm x 50cm carpet tile













208 | nucleus

238 | terrestrial







217 | meteorite

213 | astral



243 | cosmic ray







# Alignment colour options



218 | luminosity

LRV 22



219 | equinox

LRV 24



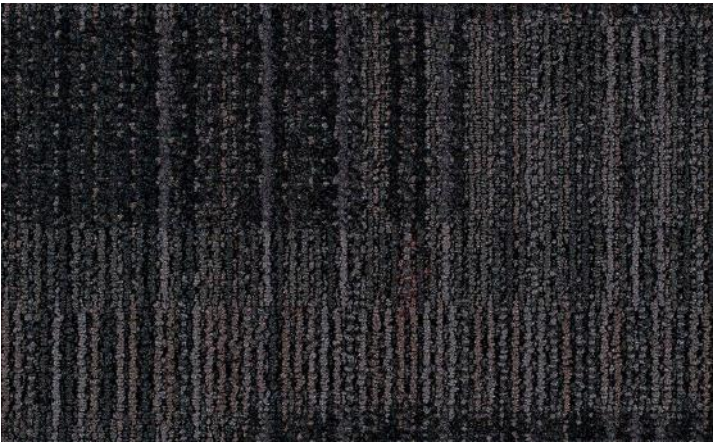
213 | astral

LRV 11



210 | climate

LRV 8



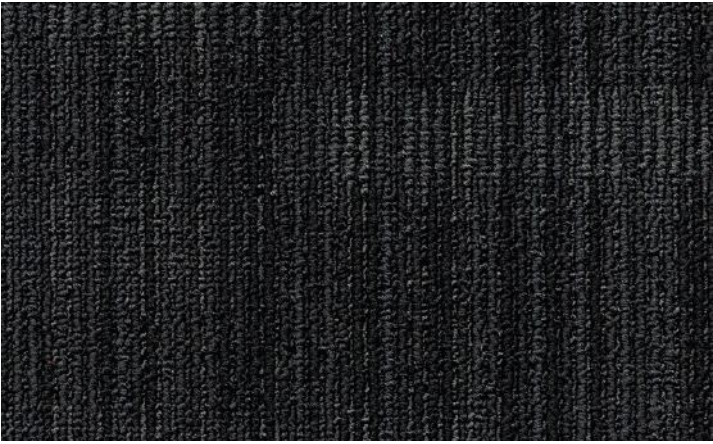
217 | meteorite

LRV 3



209 | celcius

LRV 8



208 | nucleus

LRV 2

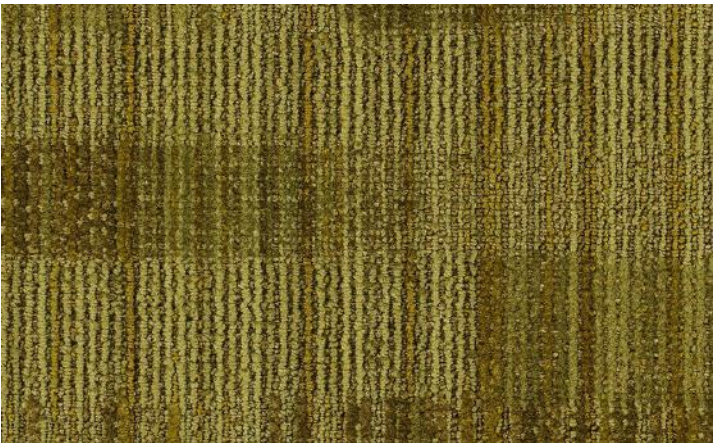


215 | stellar

LRV 6



Alignment colour options



221 | gravity

LRV 10



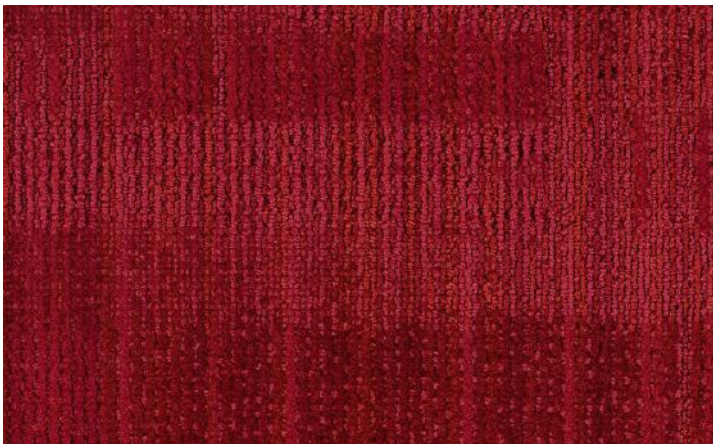
220 | essence

LRV 17



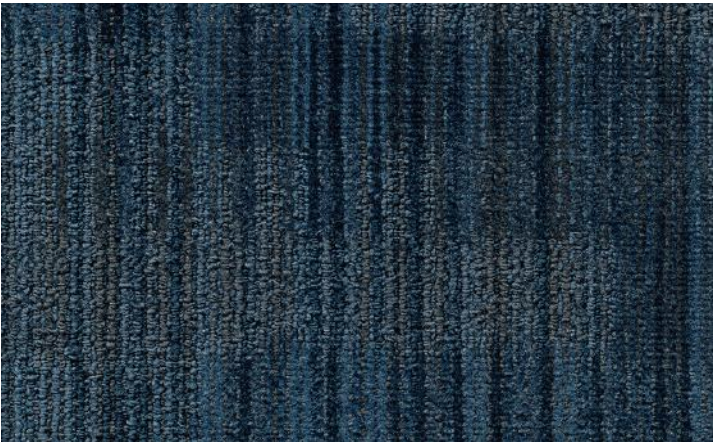
222 | galileo

LRV 11



223 | solstice

LRV 5



204 | horizon

LRV 4



202 | elixir

LRV 4



203 | cyclone

LRV 2



214 | nocturn

LRV 4

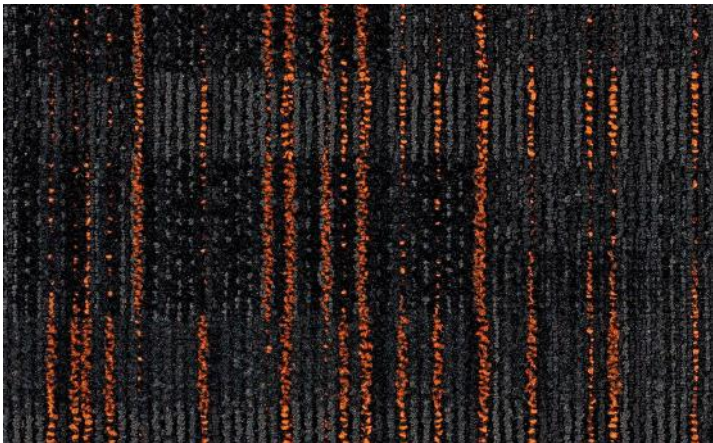


# Alignment colour options



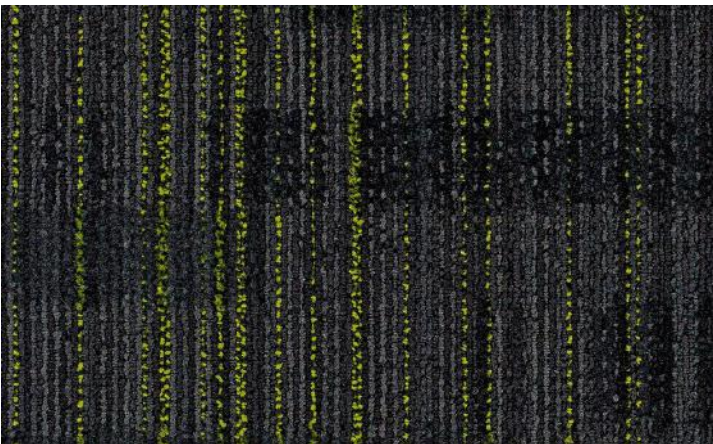
239 | apollo

LRV 2



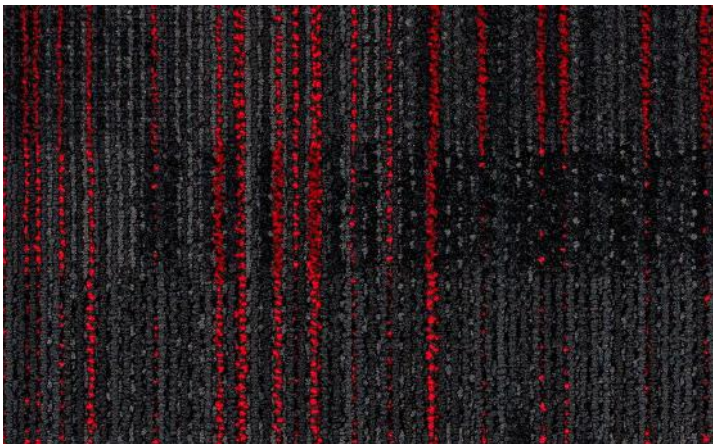
237 | sunspot

LRV 2



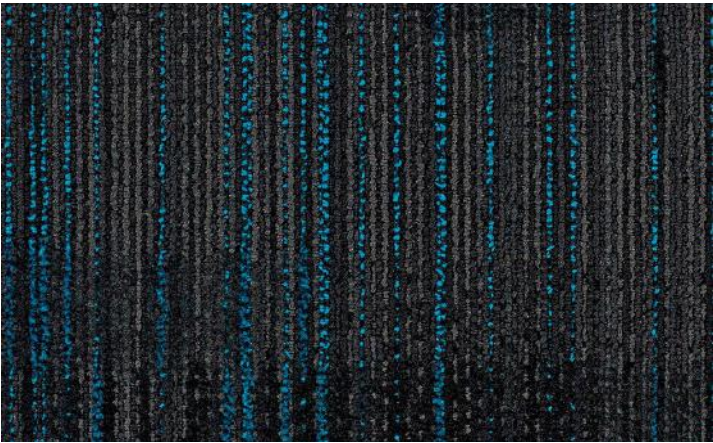
238 | terrestrial

LRV 2



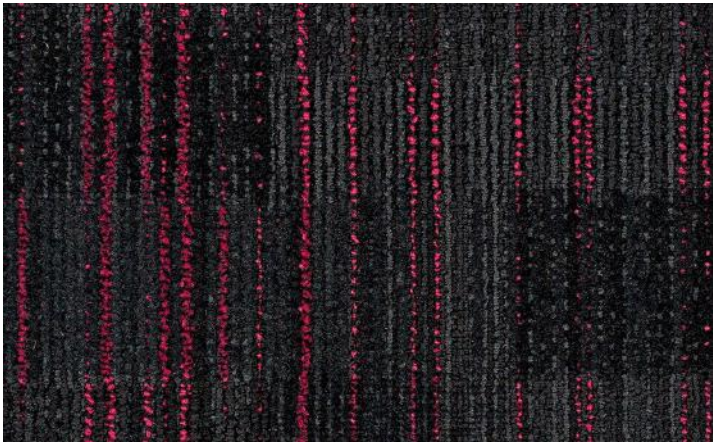
244 | firestar

LRV 2



240 | wavelength

LRV 2



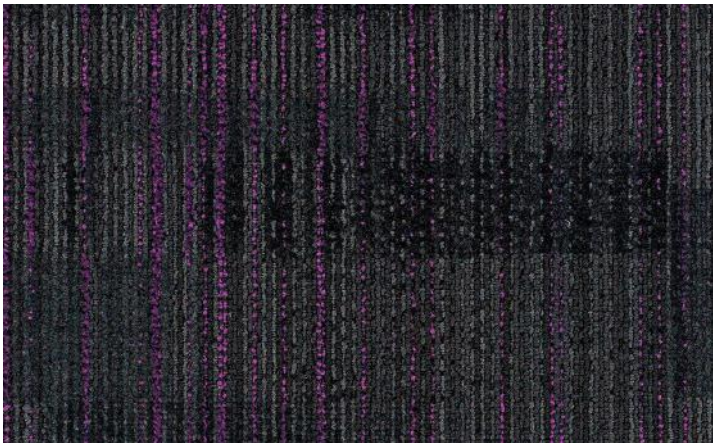
243 | cosmic ray

LRV 2



241 | north star

LRV 2

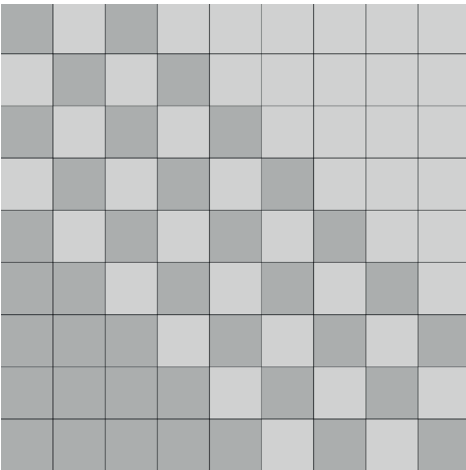
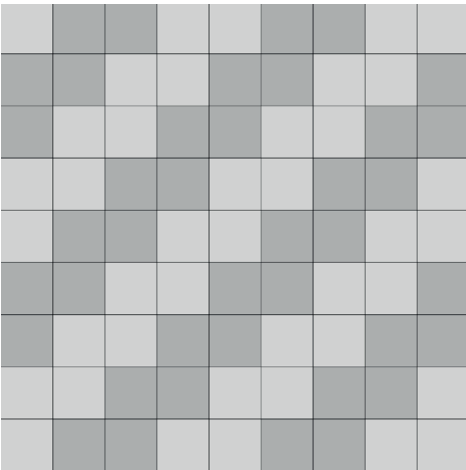
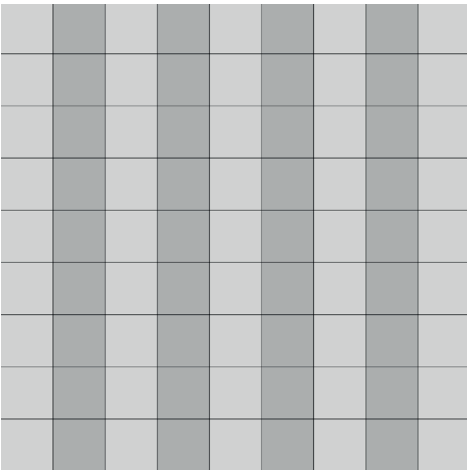
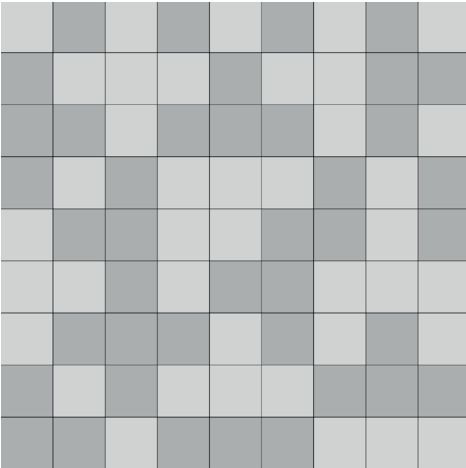
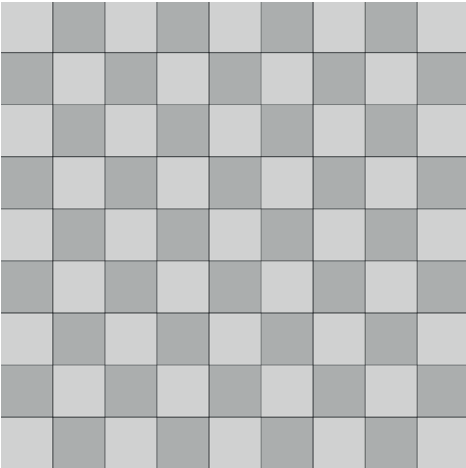
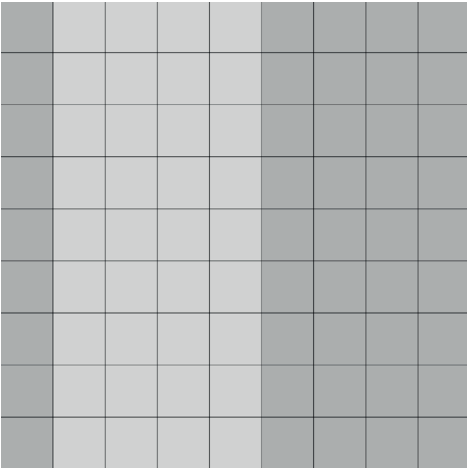


242 | holgram

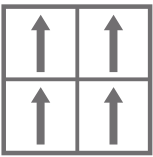
LRV 2



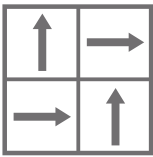
# Alignment installation ideas



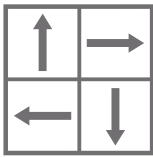
## Alignment fitting options



monolithic



quarter turn



tessellated







# Forbo Environmental Data Sheet

Product name	Tessera Alignment
Product description	Tessera Alignment is a sophisticated cut and loop pile carpet tile manufactured using 100% solution dyed yarn for superior colour fastness. Alignment complies with all requirements of EN1307: Textile Floor Coverings – Classification of Pile Carpets.
Manufacturing location	Bamber Bridge, United Kingdom
Site accreditation	ISO14001, ISO 9001, ISO 45001, SA8000®



## Our footprint – how it’s made

Environmental data	
Total recycled content of product by weight	60%
Post industrial recycled content	60%
% renewable electricity & biogas used	100%

Independent assessment and rating	
ISO 9001 Quality Management System	
ISO 14001 Environmental Management System	
ISO 45001 Occupational Health and Safety Management	
Alignment is made in an SA8000® certified facility	

Carbon footprint		
Estimated carbon footprint using data from Environmental product declaration according to ISO 14025	Raw materials and production	14.2 kg CO <sub>2</sub> eq/m <sup>2</sup>
	Use (1 year)	0.804 kg CO <sub>2</sub> eq/m <sup>2</sup>

Health and well being	
Air quality CHPS 01350 AgBB/DiBt	Tessera products comply to 01350 Indoor Air Quality Standard Pass

Impact sound reduction	26 dB
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Installation	
Recommended adhesives	<p>Carpet tiles must be adhered using an all over tackifier adhesive system: Forbo Eurocol 542 Eurofix Tack Plus, a solvent free release system, is recommended. Where periphery tiles are not constrained by fixtures e.g. walls, edge strips etc, it is recommended that such tiles are adhered using a permanent adhesive; Forbo Eurocol 640 Eurostar Special, again a solvent free adhesive is recommended.</p> <p>Adhesives must be applied according to the manufacturer’s instructions and it is essential that tackifier adhesives are allowed to dry to a tacky finish before laying the carpet tile. Failure to do so could result in a permanent non-release bond.</p> <p>Where contribution to credits for BREEAM sections HEA2 and HEA9 are required then low emission adhesive Eurocol 542 tack plus should be used. If a permanent bond is required, please use Eurocol 640 Eurostar special.</p>



# Forbo Environmental Data Sheet – continued

## Maintenance

Appropriate care and maintenance is essential to longevity and appearance retention and is necessary to maintain product warranties. Refer to the clean and care instructions available from Forbo Flooring Systems.

All Tessera products are suitable for cleaning using the Dry Fusion technique. Dry Fusion uses 95% less water than the normal system of cleaning, produces no waste product, uses non-hazardous and biodegradable cleaning solutions and all packaging and materials within the Dry Fusion System can be recycled.

## End of life

Products suitable for reuse, recycling, downcycling and waste to energy. Forbo Flooring Systems works with recycling companies to clean, reuse and recycle used carpet tiles in the UK.

## Contribution to Green Building Schemes

### BREEAM 2014

BREEAM ratings	<b>Building Type</b>					
	Office	Education	Health	Domestic	Retail (Durability)	Retail (Fashion)
	B	A	A	B	B	A+

### BREEAM 2018

Compliant through declaration number 4788294459.121.1 Valid until April 2024

### LEED (version 4)

Potential direct or indirect contribution to following categories and credits:	<b>Materials and Resources</b>	
		Building product disclosure and optimisation - sourcing of raw materials - up to 1 point
		Construction and demolition waste management up to 2 points
	<b>Indoor environmental quality</b>	Low emitting materials up to 3 points
		Acoustic performance up to 1 point

### Forbo design principles (Reduce, Recycle, Reuse, Renew)


















<b>Reduce</b>	Investment in an extruder has reduced our bitumen usage by 50%.
<b>Reuse</b>	Yarn ends are rewound and used in the production of new Tessera Carpet tiles. All Tessera samples can be returned allowing them to be reused or recycled, reducing the need for virgin materials.
<b>Recycle</b>	Yarns, backing cloth, fillers and latex all contain recycled materials. All tufted Tessera carpet tiles contain at least 56% recycled content by weight.
<b>Renew</b>	All Tessera carpet tiles manufactured at Bamber Bridge are made with 100% renewable forms of energy (renewable electricity & biogas).

visit [www.forbo-flooring.co.uk/downloads](http://www.forbo-flooring.co.uk/downloads) for more information








# Technical specification

Tessera Alignment carpet tiles meet the requirements of EN 1307

Description		Tufted multi-height cut and loop pile carpet tile	
	Dimensions	EN 994	50cm x 50cm (Other sizes available for special orders)
	Total thickness	ISO 1765	6.2mm ± 10%
	Pile height	ISO 1766	3.5mm +15% -10%
	Collection size	24 colourways. 4m² per box	
	Commercial use	EN ISO 10874	Class 33, Suitable for any type of heavy contract application
	Pile composition	100% Invista Antron® Lumena polyamide 6.6	
	Dye method	100% solution dyed	
	Stitch density	ISO 1763	217,488 per m² ± 10%
	Pile weight	ISO 8543	700 gsm ± 10%
	Total weight	ISO 8543	4,195 gsm ± 10%
	Primary backing	Polyester	
	Secondary backing	ProBac recycled mineral filler with low amount of modified bitumen, and polyester fleece. Contains over 76% recycled content. Also available in SOFTbac® secondary backing.	
	Acoustic	ISO 717-2	Impact sound $\Delta L_w = 26$ dB
		ISO 354	Sound absorption = 0.15
	Castor chair use	ISO 4918	$r \geq 2.4$ continuous use
	Light fastness	EN ISO 105-B02	$\geq 5$
	Dimensional stability	EN 986	$\leq 0.2\%$
	Creating Better Environments		
	Renewable Energy	All Tessera tufted carpet tiles are manufactured using 100% renewable energy (electricity & biogas)	
	Recycled Content	Alignment carpet tiles contain 60% recycled content by weight	
	Indoor Air Quality	Alignment carpet tiles comply to 01350 Indoor Air Quality Standard	
	Back to the Floor	Installation off cuts can be collected via Back to the Floor	
	Ska Rating	Alignment meets Ska Rating criteria for M12 soft floor coverings in office, retail and higher education schemes	
	Prodis-GUT	www.pro-dis.info	C94D22E2
	Installation method	Broadloom, quarter turn or tessellated	

Alignment carpet tiles meet the requirements of EN 14041

	Product code	EN 14041	1170100-DoP-101
	Reaction to fire	EN 13501-1	B <sub>f1</sub> -s1
	Slip resistance	EN 13893	$\mu \geq 0.30$
	Body voltage	ISO 6356	< 2 kV
	Thermal resistance	EN 12667	0.079 m².K/W

All Forbo Flooring Systems' sales organisations and manufacturing sites worldwide have certified Quality Management Systems in accordance with ISO 9001. All Forbo Flooring Systems' manufacturing plants have certified Environmental Management Systems in accordance with ISO 14001. Tessera Alignment is manufactured in a facility certified to SA8000® and ISO 45001.



# Contact us



Forbo Flooring Systems is part of the Forbo Group, a global leader in flooring and movement systems, and offers a full range of flooring products for commercial and affordable housing and new build markets. High quality linoleum, vinyl, textile, flocced and entrance flooring products combine functionality, colour and design, offering total flooring solutions for any indoor environment.

Whilst Forbo Flooring UK Limited does its best to ensure that the contents of this brochure are correct and accurate at the time of publication, to the fullest extent permitted by law, Forbo Flooring UK Limited makes no, and expressly disclaims all, guarantees of any kind, express or implied in respect of the information, content, materials or products displayed in this brochure and does not represent that the information is accurate, complete or current and you are advised to visit our website at [www.forbo-flooring.co.uk](http://www.forbo-flooring.co.uk) for up-to-date details or corrections to such contents.

## UK

Forbo Flooring UK Limited  
High Holborn Road  
Ripley  
Derbyshire DE5 3NT  
Email: [info.flooring.uk@forbo.com](mailto:info.flooring.uk@forbo.com)

### London EC1 showroom

79 St John Street, Clerkenwell  
London EC1M 4NR  
Tel: 0207 553 9300  
Email: [ec1@forbo.com](mailto:ec1@forbo.com)

### For commercial enquiries:

If calling from the North,  
London & South East  
Tel: 0800 0282 162  
[bcs.flooring.uk@forbo.com](mailto:bcs.flooring.uk@forbo.com)

If calling from Scotland,  
Midlands & South West  
Tel: 0800 0935 258  
[kcs.flooring.uk@forbo.com](mailto:kcs.flooring.uk@forbo.com)

### Nuway enquiries:

Tel: 01773 740 688  
[efs.flooring.uk@forbo.com](mailto:efs.flooring.uk@forbo.com)

### Residential enquiries:

Tel: 0800 0935 846  
Email: [krccs.flooring.uk@forbo.com](mailto:krccs.flooring.uk@forbo.com)  
[www.forbo-flooring.co.uk](http://www.forbo-flooring.co.uk)



Samples can be ordered over the phone,  
by calling **0800 731 2369**  
(Mon - Fri, 8.30am - 5.00pm)

Samples can be ordered 24/7 by visiting  
**[www.forbo-flooring.co.uk/samples](http://www.forbo-flooring.co.uk/samples)**  
or by emailing **[samples.uk@forbo.com](mailto:samples.uk@forbo.com)**

## Ireland

Forbo Ireland Ltd  
2 Deansgrange Business Park  
Blackrock  
Co Dublin  
Tel: 00353 1 2898 898  
Fax: 00353 1 2898 177  
Email: [info.ireland@forbo.com](mailto:info.ireland@forbo.com)  
[www.forbo-flooring.ie](http://www.forbo-flooring.ie)

### Registered office:

Forbo Flooring UK Limited  
High Holborn Road  
Ripley  
Derbyshire DE5 3NT  
Registered in England 9200318