

# EXPONA®

## EnCORE RIGID LOC

ACOUSTIC LUXURY VINYL FLOORING



19 dB

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ACOUSTIC LUXURY VINYL FLOORING

Whether designing a large scale commercial installation or a warm and inviting home interior scheme, aesthetics are just as important as practicality, especially when considering your floor covering.

Expona EnCore Rigid Loc offers a flooring solution that caters for both commercial and domestic interiors. The rigid construction, acoustic foam layer and use of 5Gi click-locking technology provides superior performance in a quick to install floor covering.

The collection of 12 faithfully replicated wood designs have been expertly selected for their natural beauty and variation for a more authentic finish. Paired with a fine wood grain surface texture to enhance each plank and our exceptional polyurethane reinforcement (PUR), Expona EnCore Rigid Loc is an ideal alternative to hardwood flooring as it offers all the beauty of real wood with the resilience of vinyl.



19dB



PUR



5Gi Loc



Faster  
Installation



Underfoot  
Comfort

# RIGID CORE DESIGN FLOORING

### Superior SPC construction

The rigid Stone Plastic Composite (SPC) construction gives the floor superior stability. It is also ideal for laying over existing floor coverings, again saving on preparation and installation time.












### 5Gi Technology

Each plank in the Expona EnCore Rigid Loc collection features a 5Gi click-locking mechanism, that makes installation quick and easy. The loose lay format means no adhesive is required, reducing installation time and costs.

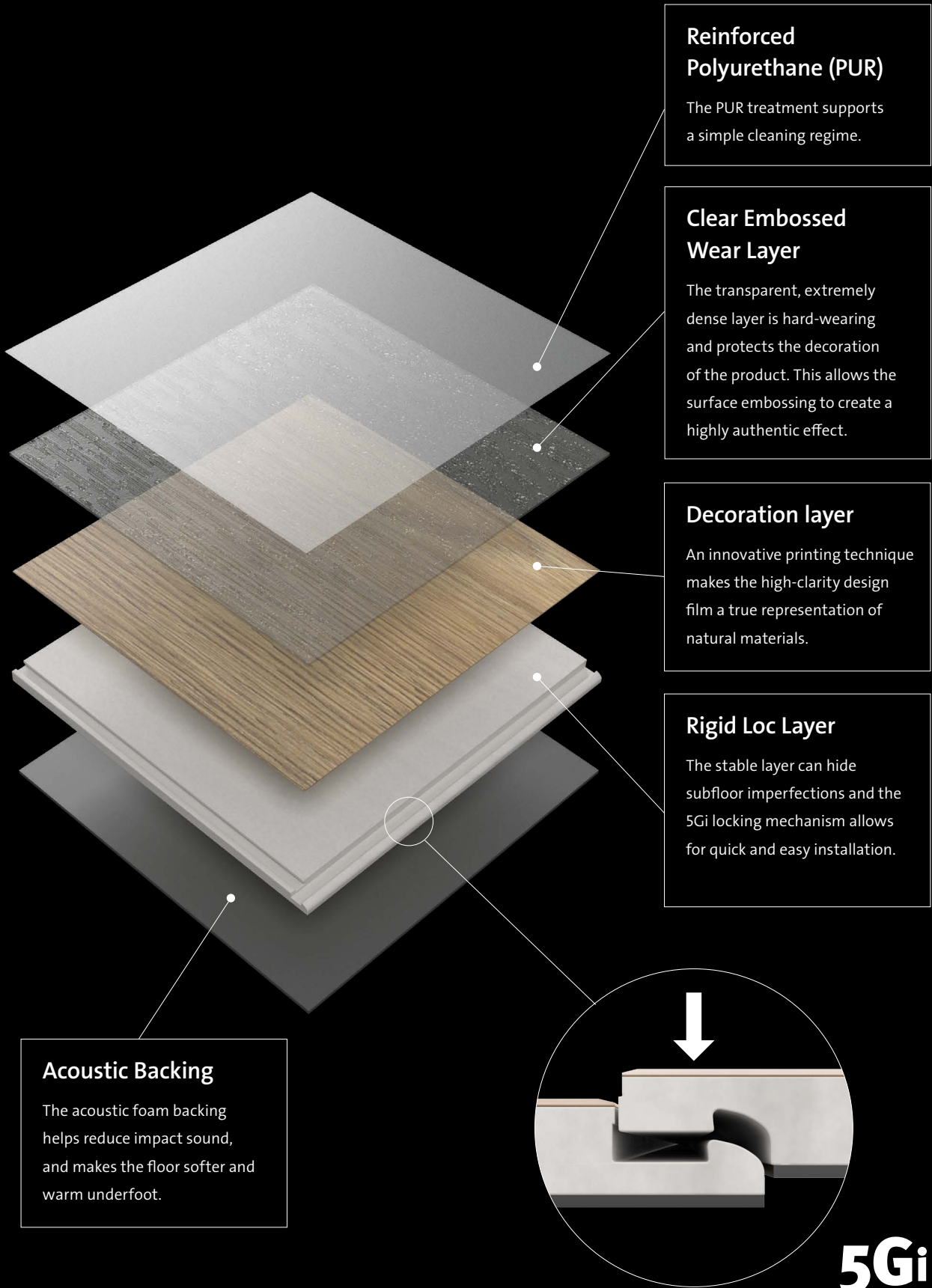
### Durable comfort

Expona EnCore Rigid Loc incorporates an acoustic foam backing, reducing impact sound by 19dB, exceeding UK Building Regulations whilst also providing comfort and warmth underfoot.

The addition of a polyurethane reinforcement (PUR) creates a scratch and stain resistant finish that makes Expona EnCore Rigid Loc ideal for modern households with families and pets, as well as heavy commercial interiors with high foot traffic.

Attractive aesthetics	
	Beautifully recreated natural wood designs
	Authentic surface textures
	Comfortable & warm underfoot
Exceptional engineering	
	Acoustic impact sound reduction of 19db
	100% Waterproof
	Quick & easy installation
	No adhesive or underlay required
	Rigid construction, reducing expansion
	Can be laid over existing subfloors*
	Polyurethane reinforcement (PUR)
	Scratch & stain resistant

\* See installation instructions on page 36 for more details on suitable subfloors.



Simply drop down at the short side joint, and press down to lock in place.



# EnCORE RIGID LOC

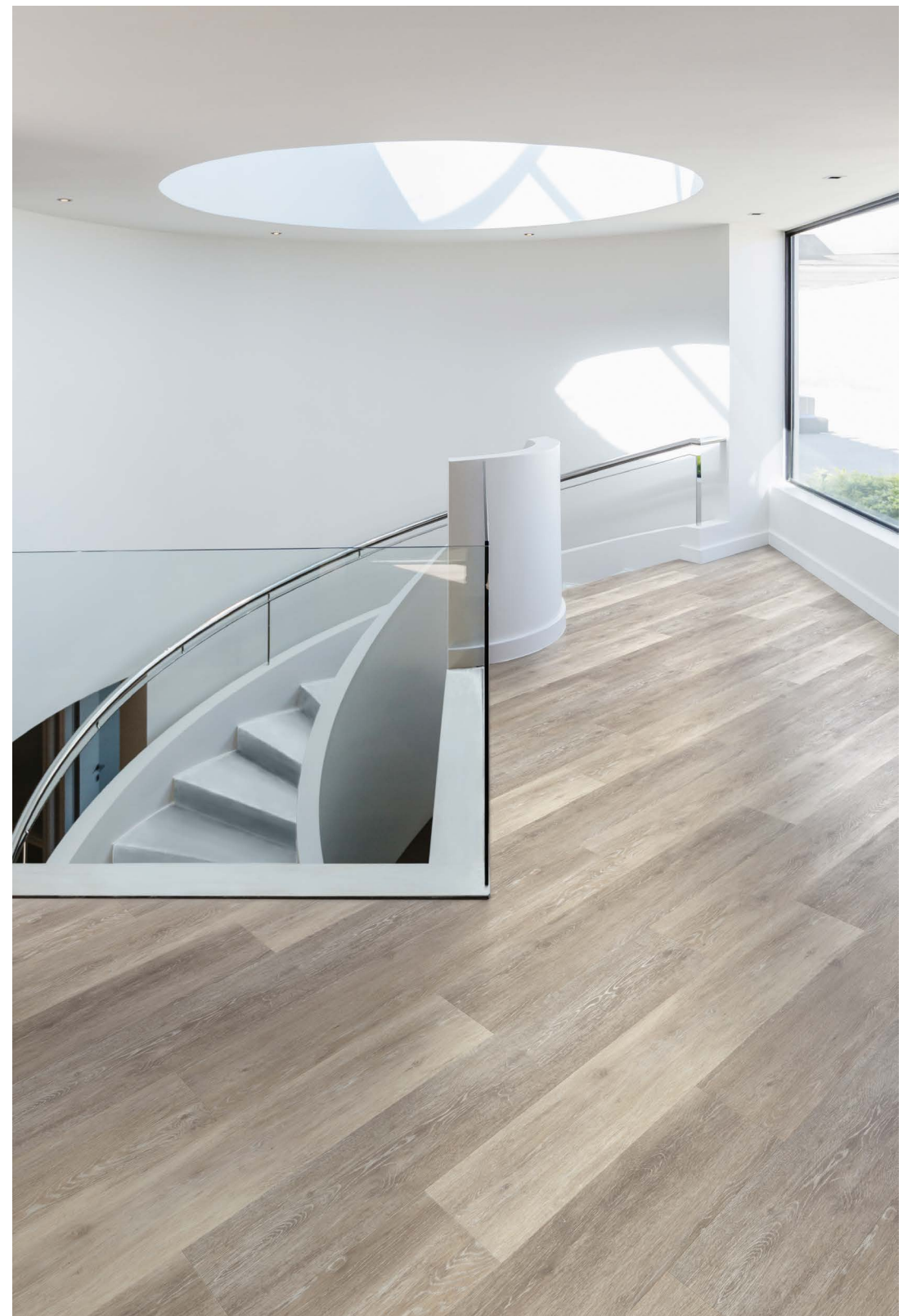
ACOUSTIC LUXURY VINYL FLOORING

Bringing together the natural beauty of timber plank designs and authentic wood surface textures, the Expona EnCore Rigid Loc collection encompasses a wide spectrum of wood species to suit any commercial or residential interior.

Each design features fine grain and knot detailing, creating natural shade variation, and micro bevelled edges for a timeless appearance typical of real wooden floorcoverings.








**9025 Icelandic Oak**  
177.35 x 1212.4mm  
Emboss: Timber structure







**9026 Summerhouse Oak**  
177.35 x 1212.4mm  
Emboss: Timber structure  








**9027 Eden Ash**  
177.35 x 1212.4mm  
Emboss: Timber structure







**9028 Rice Wine Oak**  
 177.35 x 1212.4mm  
 Emboss: Timber structure







**9029 Log Cabin Oak**


177.35 x 1212.4mm

Emboss: Timber structure







**9031 Rich Hazel Oak**  
 177.35 x 1212.4mm  
 Emboss: Timber structure  








**9032 Tennessee Oak**

177.35 x 1212.4mm

Emboss: Timber structure







**9033 Moorland Oak**  
196.4 x 1212.4mm  
Emboss: Timber structure








**9034 Parisian Limed Oak**  
196.4 x 1212.4mm

Emboss: Timber structure







**9035 Harbour Side Oak**  
196.4 x 1212.4mm  
Emboss: Timber structure  








**9036 Treehouse Oak**  
196.4 x 1212.4mm

Emboss: Timber structure







**9037 Shingle Oak**  
 196.4 x 1212.4mm  
 Emboss: Timber structure





# EnCORE RIGID LOC

ACOUSTIC LUXURY VINYL FLOORING

## THE COLLECTION

The following spread summarises the extensive Expona EnCore Rigid Loc collection, featuring accurate product scans and plank sizes. Designs that feature pattern variations and micro bevelled edges are highlighted for easy identification, and the whole collection has been grouped by plank size so depending on the scale of the installation a suitable tile can be quickly selected.






COLLECTION

6.98” x 47.73”  
177.35 x 1212.4mm



  9025 Icelandic Oak



 9026 Summerhouse Oak



  9028 Rice Wine Oak




  9027 Eden Ash




  9029 Log Cabin Oak



 9031 Rich Hazel Oak



  9032 Tennessee Oak

Although we endeavour to ensure the brochure print process represents the true colour of each product, we recommend you view an actual sample which we shall be pleased to supply, free of charge. Visit [polyflor.com](http://polyflor.com) and follow the samples link for further details.

Authenticity is at the heart of Expona, representing the allure, distinction and unpredictability of natural timber. To replicate these materials, the products may contain knots and variation in markings as part of their design.

 Micro bevelled edges     Pattern and/or colour variation

TECHNICAL DATA

Characteristics	Standards	Unit	EXPONA EnCORE RIGID LOC
Type of floorcovering	EN 16511		Multilayer Modular Floor Covering
Surface treatment			PUR
Total weight	EN ISO 23997	g/m²	10,800
Performance classification	EN ISO 10874		23, 34
Gauge	ISO 24337	mm	6.5
Wear layer thickness	EN ISO 24340	mm	0.55
IXPE acoustic layer		mm	1
Packaging and plank size (excluding tongue and groove)	ISO 24337	mm	10 @ 177.35 x 1212.4 = 2.15 m² 9 @ 196.4 x 1212.4 = 2.14 m²
Dimensional stability	EN ISO 23999	%	≤ 0.2
Residual indentation	EN ISO 24343-1	mm	≤ 0.1
Impact resistance	EN 13329 Annex F	mm	Pass ≥ 1800
Colour fastness to artificial light	EN ISO 105-B02	level	≥ 6
Behaviour to fire	EN 13501-1		Bfl - s1
Slip resistance	DIN 51130 EN 13893		R10 Class DS (dry conditions)
Impact sound reduction	EN ISO 10140-3	dB	19
Chemical resistance	EN ISO 26987		*
Abrasion resistance	EN ISO 10582 EN 13329		Type I ≥ 4000 cycles
Castor chair suitability	EN 425		Yes, 25,000 cycles, type W, EN 12 529
Furniture leg	EN 424		Pass (no visible damage)
Swelling	ISO 24336	%	Pass (0.0)
Underfloor heating suitability	EN 1264-2		Suitable max. 27 °C
VOC emissions	Indoor Air Comfort Gold		Eurofins certified product

\* Resistant depending on concentration and time of exposure, in case of increased impact of oils, grease, acids, alkalis and other aggressive chemicals please contact us.



EN 14041



100%  
RECYCLABLE



# INSTALLATION

## GENERAL INFORMATION

Expona EnCore Rigid Loc Flooring is constructed of PVC over a rigid core to offer a strong, durable construction which is 100% waterproof\* and offers impressive acoustic performance. The 1212mm long panels are available in two widths; 177mm and 196mm. The panels are locked together without the need for any glue by a unique locking system comprising protruding (upper and lower) male profiles to create a floating floor where the panels can be installed and locked together in a single action. Expona EnCore Rigid Loc Flooring incorporates an acoustic base and therefore requires no underlay. **To ensure the best finished appearance it is essential to follow these installation instructions carefully.**

## PRIOR TO INSTALLATION

When installing Expona EnCore Rigid Loc Flooring panels always follow current national standards for the installation of floorcoverings. Best current installation practice incorporating the latest technical developments should also be employed. The preparation of the subfloor, the installation of the floorcovering and the measures taken to safeguard value are key factors in ensuring optimum suitability and performance of resilient floorcoverings. On receipt of materials, check that the colours correspond to those ordered and that there is no damage or visual defects in the material. Check that the material is from one batch if that was requested. Claims for visual defects can only be accepted prior to installation and cutting.

## PREPARATION OF SUBFLOORS

Subfloors should be prepared as described in BS 8203 / DIN 18365 or prevailing local / national standards. Expona EnCore Rigid Loc Flooring can be installed over most hard subfloors, provided they are prepared in accordance with local standards. Subfloors must be hard, clean, and free from contamination, dry, durable, flat and sound. Solid subfloors must be tested in accordance to local standards to ensure they are not damp. Carpets and soft floorings are unsuitable as a base for the installation of Expona EnCore Rigid Loc Flooring, and will need to be removed prior to installation. Remove all debris and vacuum the whole subfloor area prior to commencing the installation.

Where underfloor heating is used the maximum temperature on the surface of the flooring must never exceed 27°C. Subfloors should be tested for moisture in accordance with local standards. Solid subfloors should demonstrate a maximum damp content of 75%RH before the installation can begin.

Residual moisture content:			
Cement	without	UFH - 2% CM	
	with	UFH - 1.8% CM	
Anhydrite	without	UFH - 0.5% CM	
	with	UFH - 0.3% CM	

Remove any unevenness in the subfloor prior to installation. Subfloor levels should be in accordance with local national standards and in any event, should never exceed a maximum deviation of 5mm when measured under a 3m long straight edge. High spots and ridges should be removed to prevent damaging the panels locking mechanism.

## CONDITIONING

Expona EnCore Rigid Loc Flooring must be protected against dirt and moisture during storage and both before and during the installation. The climatic conditions acceptable for the installation of Expona EnCore Rigid Loc Flooring are:

- Floor temperature > 15°C
- Room temperature > 18°C
- Air Relative humidity < 50–60%

Prior to installation, open the boxes and place them in the room they are to be installed in for a minimum of 48 hours BEFORE

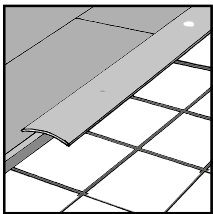
the installation commences, so the material can acclimatise. Boxes should never be stacked greater than 3 high. **Ensure that the room temperatures are between 18 and 27°C during the conditioning period. Shuffle the panels to ensure a random appearance before installation.**

## INSTALLATION

As Expona EnCore Rigid Loc Flooring is a floating floor, a minimum expansion gap of 5mm should be left around the entire installation perimeter and anything protruding from the subfloor such as radiator pipes, fixed down items etc. For larger installations over 5m x 5m an expansion gap of 1mm per linear meter of room length should be used. For example, a room 8m x 4m would require an expansion gap of 8mm around the entire perimeter of the room and around anything protruding from the floor. The length is determined by the direction in which the longest side of the panel is to be fitted. In areas under 5m x 5m use small offcuts as spacers between the panels and the walls to help achieve the correct expansion gap size. Skirting boards should be removed and door frames / architraves undercut to allow for possible expansion. A suitable quadrant or scotia trim can be used to cover the expansion gap.

Expona EnCore Rigid Loc Flooring is a loose lay product. In areas subject to large temperature fluctuations such as heavily glazed areas and areas subject to direct sunlight, special care must be taken including a larger expansion gap of a minimum 10mm and adequate UV protection.

If installing in multiple rooms, finish the Expona EnCore Rigid Loc Flooring panels in the doorway on either side of the door to make separate floors. Allow a larger expansion gap between two such floors of double that left around the perimeter. Use two small offcut pieces of Expona EnCore Rigid Loc Flooring placed back to back to gauge the correct expansion gap size at door thresholds. A suitable threshold strip can then be installed to cover the resultant gap. Expona EnCore Rigid Loc Flooring should never be installed across multiple rooms as one floor. Panels should always be laid with staggered joints, at a distance of at least 150mm. When adjoining other floorcoverings, finish the Expona EnCore Rigid Loc Flooring in the doorway. An appropriate expansion gap should be left between the Expona EnCore Rigid Loc Flooring and the adjoining floorcovering. This can be covered using a suitable threshold or diminishing strip (see diagram below). Areas over 10m x 10m will require specialist advice. Please contact **Polyflor's Customer Technical Support Dept on +44 (0)161 767 1912.**

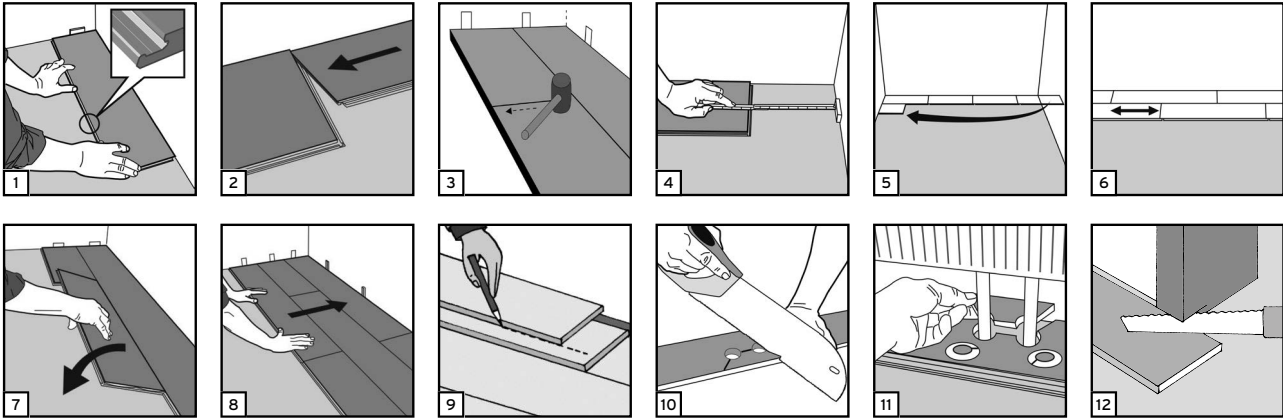


### YOU WILL NEED

- Pencil
- Utility knife
- Retractable measuring tape or folding ruler
- Handsaw / Hacksaw
- Carpenter's 90° square
- Rubber mallet
- Pull bar

The use of safety glasses and protective gloves should also be considered.

\*Expona EnCore Rigid Loc Flooring tiles are 100% waterproof. Therefore they will not absorb water and the structural integrity of the product will not be affected by water e.g. no swelling. In the case of standing water or flooding, Expona EnCore Rigid Loc Flooring will not act as a barrier between standing water/flooding and the subfloor, and as such is not recommended for continually wet areas such as walk in shower rooms.



### 1. First Panel first row:

The panels are laid without glue. Start to lay the floor in the left-hand corner of the room with the lower male profile facing towards you (Fig 1). A minimum expansion gap of 5mm should be left around the installation perimeter and anything protruding from the subfloor. For larger installations an expansion gap of 1mm per linear meter of room length should be used. For example a room 8m x 4m would require an expansion gap of 8mm around the entire perimeter of the room and around anything protruding from the floor. Use small offcuts from the panels as spacers between the panels and the walls to help achieve the correct size gap. Place spacers between the short and long edges of the panel and the walls.

### 2. Second Panel first row:

Place the short end of the second panel close to the corresponding short end of the previous panel. Carefully fold it down with a single action movement (Fig 2). Press firmly down on the short end of the next panel into the corresponding short edge of the first one, these should now lock securely together. Using the rubber mallet gently tap down the short joints along the short end just installed. It is important to ensure early in the installation that the short joints are fully engaged and locked into one another. Provided the panels align and fit flush with each other on the short joints after any hand / mallet pressure has been released, then the joints will be fully engaged. If they do not reapply pressure until this is achieved. Complete the first row in the same way (Fig 3). Continue in this way to as far as full panels can be installed to the end of this first row.

### 3. Last Panel first row:

Insert correct sized spacer between the end of the first row and the wall to ensure the correct expansion gap is left. Before cutting this last panel first turn it around through 180° so the overhanging male profile on the short edge is facing the spacer / wall. This will ensure you have the correct profile required when positioning. Measure the length of this panel to fit (Fig 4), cut to correct length (minimum length 350mm).

Note - The remaining part of this panel will start the next row.

### 4. First Panel second row:

Insert a spacer between the end of the first row and the wall (expansion gap). Start this new row with the leftover piece from the last row (min length 350mm – Fig 5). Insert the upper male profile of the long side of the panel into the corresponding lower profile of the long edge of the panel in the previous row, at a slight angle. Press down until it locks into place. Always try to stagger the short joints approx. 150mm from the nearest short joint in the previous row (Fig 6). Do not forget to include the required expansion gap to the wall.

### 5. Second Panel Second Row:

Gently place the panel close to the short end of the previous one (Fig 7) and fold it down in a single action movement ensuring the corner of the long and short sides connect into the corresponding profiles of the short edge of the first panel second row, and the long edge lower profile of the corresponding panel in the previous row respectively. Press down and firmly to lock into place. Gently tap this short edge joint perfectly into place using the rubber mallet.

### 6. Remaining Rows:

Fit subsequent panels into place in the same way by easing the upper and lower profiles together on the long edges taking care to gently tap the short edge profiles together using the rubber mallet until they lock into place. Remember to place spacers to ensure the correct expansion gap has been left at the walls (Fig 8). Continue in this way to the last row.

### 7. Last Row:

To cut the panels to fit the last row, position them one at a time directly over the previous row in the direction you will be laying them. Lay these panels on top of the installed row (Fig 9). Hold them firmly in place. Then line up a third panel on top. Place the edge of this panel against the wall after inserting a spacer. Use the edge of this panel to mark the cutting line with a pencil on the panel beneath (minimum

width 50mm). Carefully scribe along this line with the utility knife. Remember to place a spacer to the wall before measuring to ensure the correct expansion gap is left. After scribing cut the panels lengthwise. Remember to allow for the expansion gap. Carefully cut any excess with either a saw or a sharp utility knife. If needed a pull bar can be used to pull the panel of the last row into the corresponding profiles of the penultimate row.

### 8. Radiator Pipes:

Mark the centers of the holes on both the long and short sides using a carpenter's square and a pencil. Where the marks cross, drill a pilot hole using a thin #6 or #8 drill bit. Further drill the hole with a spade bit wide enough to accommodate both the diameter of the pipe and the required expansion gap. Cut around as shown with a saw or with a sharp utility knife (Fig 10). Install the floor panel. If necessary put a bead of contact glue on the cut piece and replace. Insert a spacer directly behind the inserted piece to wedge it in place ensuring that the correct sized expansion gap has been left. Leave this in place until the glue has hardened (Fig 11).

### 9. Door Frames / Architraves:

When installing Expona EnCore Rigid Loc Flooring around a door frame or architrave cut into the door frame / architrave with a handsaw, using an offcut panel as a guide for the height and the amount to trim off the door frame. Slide the cut piece under the door frame.

Because Expona EnCore Rigid Loc Flooring is a floating floor, it can be walked on straight away after it has been installed. Remember to take out any offcuts or spacers you have used to gauge the expansion gap around the perimeter. Skirting boards, base boards, quadrants or scotia can be used to conceal the expansion gap, however they should be fitted directly to the wall or skirting board and never directly onto the surface of the product. Leave a small gap between the two (2mm) to allow for the natural movement of the plank.



# HERE TO HELP

## ENVIRONMENT

As a leading global manufacturer of high quality, high performance floorcoverings, Polyflor have demonstrated a high level of commitment to minimising the impact our products have on the environment, and endeavour to meet these requirements with a focus on sustainability and a healthy indoor climate.

All Expona flooring has the prescribed CE mark, as a European declaration of performance and is regularly tested by external third parties including Eurofins, to ensure the exceptional standards are continually met.

Through these annual external inspections, Eurofins, one of Europe’s leading service providers in the field of analysis, have awarded Expona EnCore Rigid Loc the Indoor Air Comfort Gold rating. This certificate is awarded to products with VOC emissions below any globally determined VOC limits.

All Expona flooring is also 100% recyclable and Expona EnCore Rigid Loc contains average 15% recycled material.

## SUSTAINABILITY

As a member of ERFMI, the European Resilient Flooring Manufacturer’s Institute, Polyflor, a company of James Halstead PLC, supports the ideal of sustainable construction.

## VISIT US ONLINE

Visit [polyflor.com](http://polyflor.com) for detailed product and technical information on all flooring collections within the Polyflor portfolio.

Our award winning website provides an easy to follow navigation system to help you find exactly what you are looking for, free downloads, and free product and literature samples which can be easily ordered through the website.

## ORDER SAMPLES

Polyflor provide a complementary product sample service so you can sample your choice of flooring before you make your final selection, and ensure you find the exact floorcovering you are looking for. To order your free sample of any Expona EnCore Rigid Loc colour, visit the Polyflor website, call the dedicated Polyflor Samples Hotline on +44 (0) 161 767 2551 or speak with your local Polyflor provider.

## CONTACT US

For general information on your specific project, either speak with your local Polyflor provider or contact us directly.

If you require additional detailed technical data, either visit [polyflor.com](http://polyflor.com) and follow the links to the technical pages, contact Polyflor Customer Technical Services on +44 (0) 161 767 1912 or email [tech@polyflor.com](mailto:tech@polyflor.com).

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ENVIRONMENTALLY  
PREFERABLE  
FLOORING  
100 % RECYCLABLE



*James Halstead*  
FLOORING





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