



HardieFloor® Structural Flooring



JamesHardie

Smart Flooring Solutions™

About James Hardie®

A Smarter Way™

James Hardie is a world-leading manufacturer of fibre cement building materials.

Founded in 1888 with an enduring set of values, we have grown to generate a turnover in excess of €1 billion. Today our name is synonymous with unsurpassed quality, durability and design excellence across the globe.

Inspired by new technology and driven by our passion for design, we are constantly growing our extensive range of interior and exterior products. Our innovative solutions are chosen by many architects and builders to bring their unique visions to life.

Whether you require a high-performance alternative to traditional building materials or an innovative design solution, you can trust James Hardie to provide you with a smarter way to build.









Introducing HardieFloor®

HardieFloor® system solutions can meet the most demanding design requirements and revisions. From outsmarting acoustic challenges and encouraging the performance of under floor heating, to staying true to form when exposed to extreme forces such as point loads and the elements - temperature, harsh weather, moisture, or heat.

Key Features

10
YEARS

WARRANTY

HardieFloor® Structural Flooring is protected by a 10-year limited product warranty.



Direct to joist

Say hello to hassle free, direct to joist installation with the HardieFloor® product range. By using HardieFloor structural floors you can reduce installation time and save money. And that's not all, due to less layers required with this system, you will also preserve ceiling height space compared to other systems available on the market.



Accepts any floor finish

All floor finishes are ideal from carpet to tile, and, unlike timber or chipboard, HardieFloor flooring requires no tile backer boards, decoupling membranes or plywood overlays before tiling.



Optimises under floor heating

Fibre cement has greater thermal mass than conventional gypsum and wood systems, enhancing the performance of under floor heating systems, locking in heat and releasing it as needed.



Weather resistant

Natural water resistance means there is no need for inconvenient plastic film when weather strikes a build - our robust floors can be left exposed to the elements for 90 days without any damage or effect on performance. HardieFloor structural floors remains squeak-free and solidly intact.



Acoustic performance

With SmartFloor™ Technology, our HardieFloor dB® system combines the structural HardieFloor board with robust integrated acoustic matting to offer optimum noise resistance. These 27mm slim-line tongue and groove boards provide an effective combination of airborne and impact noise reduction without compromising on space or reducing ceiling height.





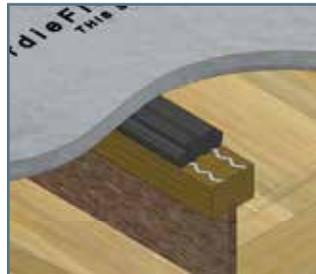
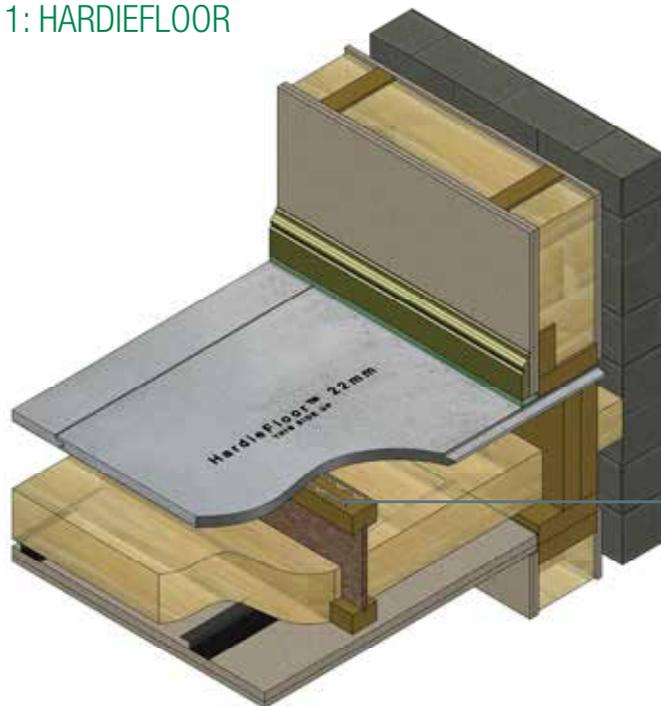
SmartFloor™

4 Options for your project

HardieFloor® Structural Flooring

Our HardieFloor® structural flooring base provides a revolutionary tongue and groove flooring substrate to support all floor finishes. It can also be used with HardieQStrip® to add acoustic performance.

1: HARDIEFLOOR



1a: HardieFloor + HardieQStrip
Add HardieQStrip Acoustic Batten to HardieFloor structural flooring to achieve a 56dB performance level for both airborne and impact noise

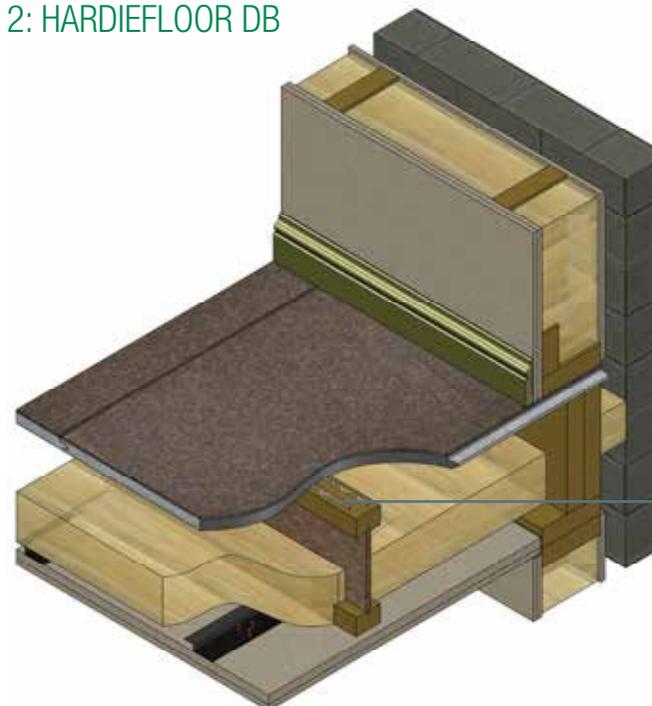
HardieQStrip
Acoustic Batten



HardieFloor dB® Structural Acoustic Flooring

HardieFloor dB® acoustic floor offers all the benefits of HardieFloor structural flooring, but also delivers enhanced airborne and impact performance via an integrated acoustic mat. At 27mm, the floor provides the lowest height for direct to joist acoustic systems in the market.

2: HARDIEFLOOR DB



2a: HardieFloor dB + HardieQStrip
Add HardieQStrip Acoustic Batten to HardieFloor dB structural flooring to achieve an impact noise level of 49db and an airborne level of 55db.

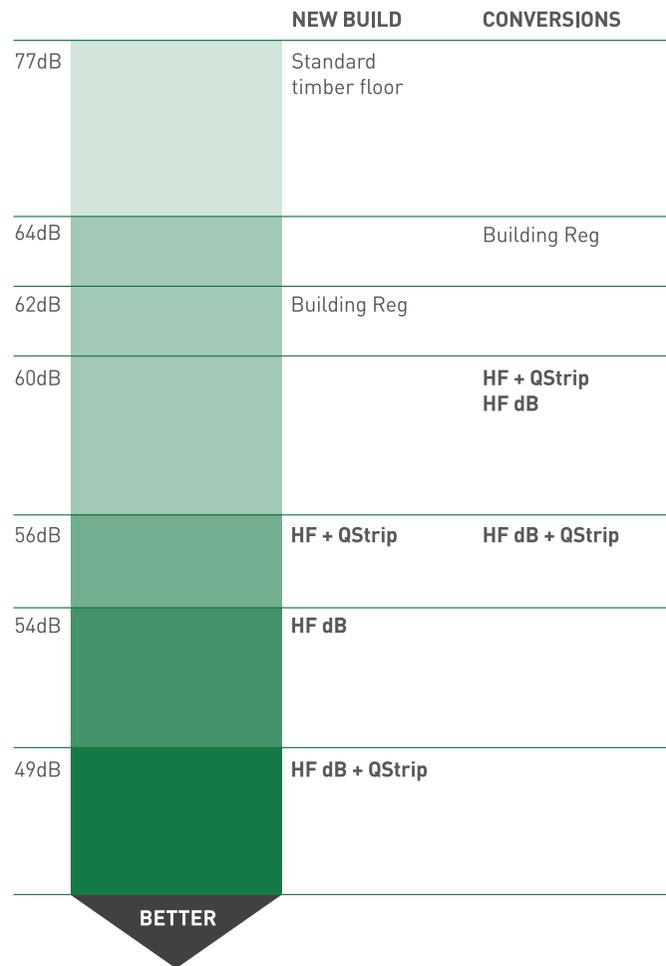
HardieQStrip
Acoustic Batten



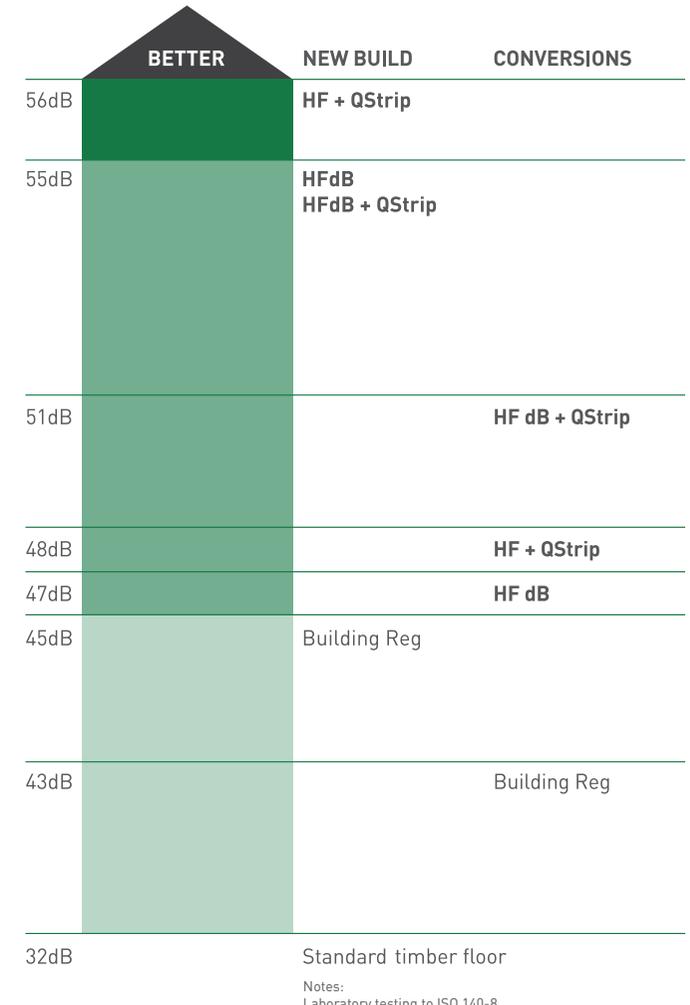


Which solution performs best?

IMPACT



AIRBOURNE

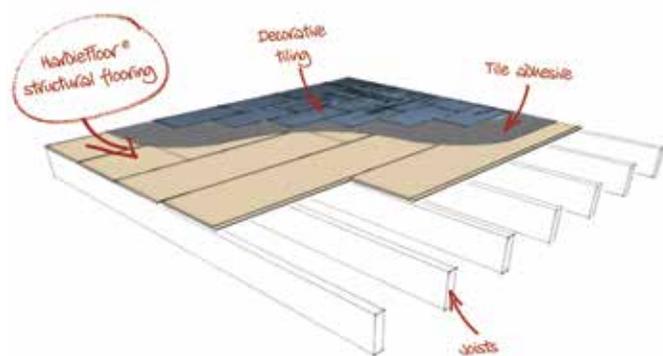


Notes:
 Laboratory testing to ISO 140-8
 100mm of 10kg/m³ density acoustic insulation
 New build: 240mm deep i-joists at 600mm centres
 Conversions: 225mm solid joists at 400mm centres

For Tiled Floors

The HardieFloor® range is the ideal base

British Standards Code of Practice (BS 5385) recommends that timber substrates are to be avoided as a base for floor tiling. HardieFloor® structural flooring is the ideal base as it's made from fibre cement instead of timber. It's robust enough to be tiled onto without the need for an additional plywood overlay, tile backer board or decoupling membrane. When used in wet rooms, apply a suitable waterproofing system within a 1 metre radius of the shower head.



Internal Dry Areas:

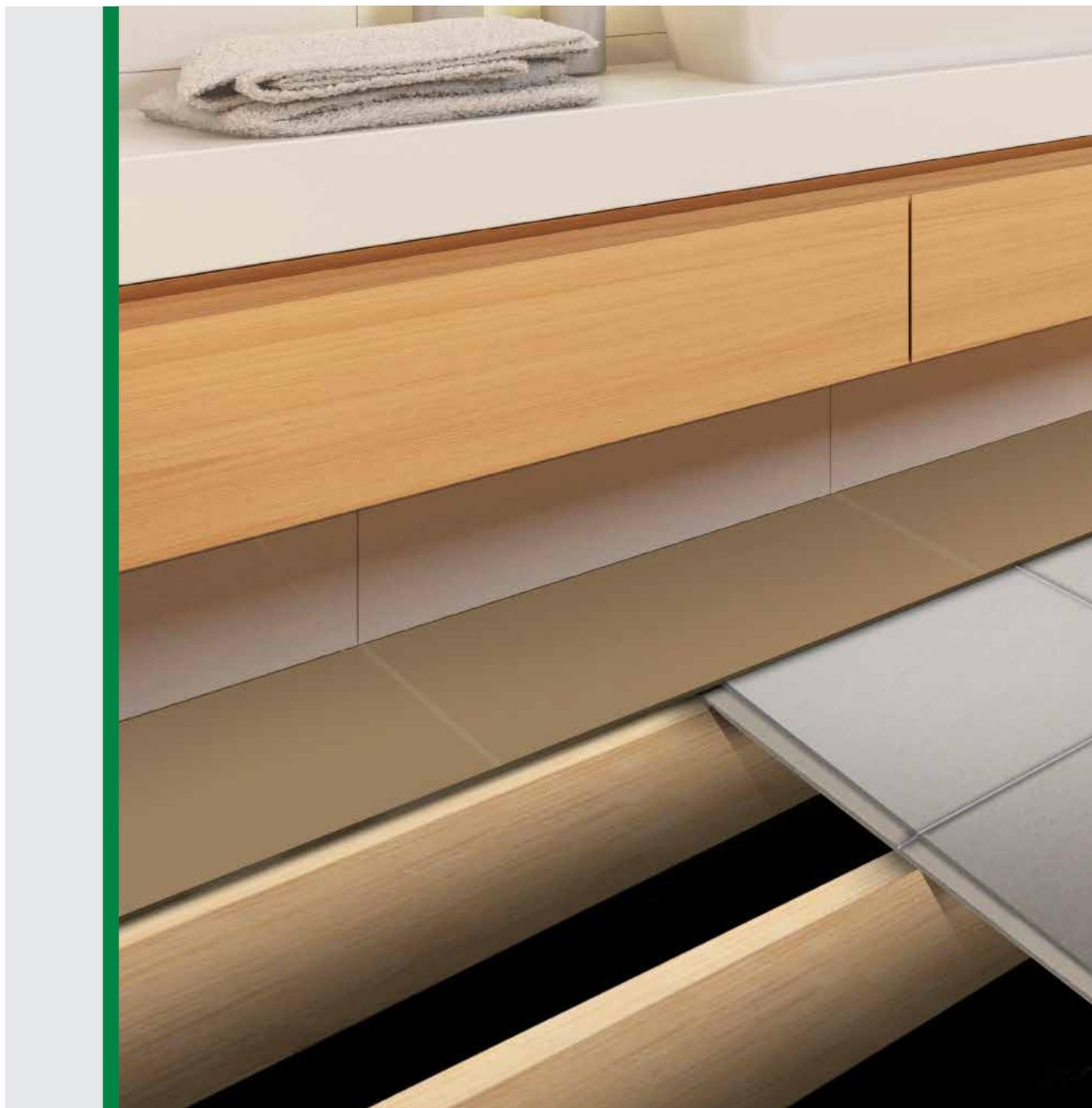
Short square ends are butted together
No joint sealant required
No sealant over fasteners

Internal Wet Areas:

2mm gap at butt joints
All joints filled with sealant
Sealant over all fasteners

Tiles are fixed directly to the sheets using flexible tile adhesive.
Vinyl directly fixed to sheets with appropriate vinyl adhesive.
Tile edges should overlap butt joint by 50mm.

NOTE: Ensure all components are fully compatible with one another and suitable for the intended application including type of vinyl and adhesive.

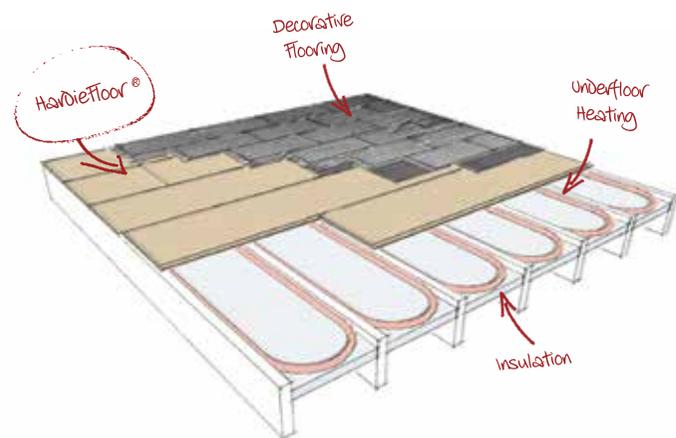




For Under Floor Heating

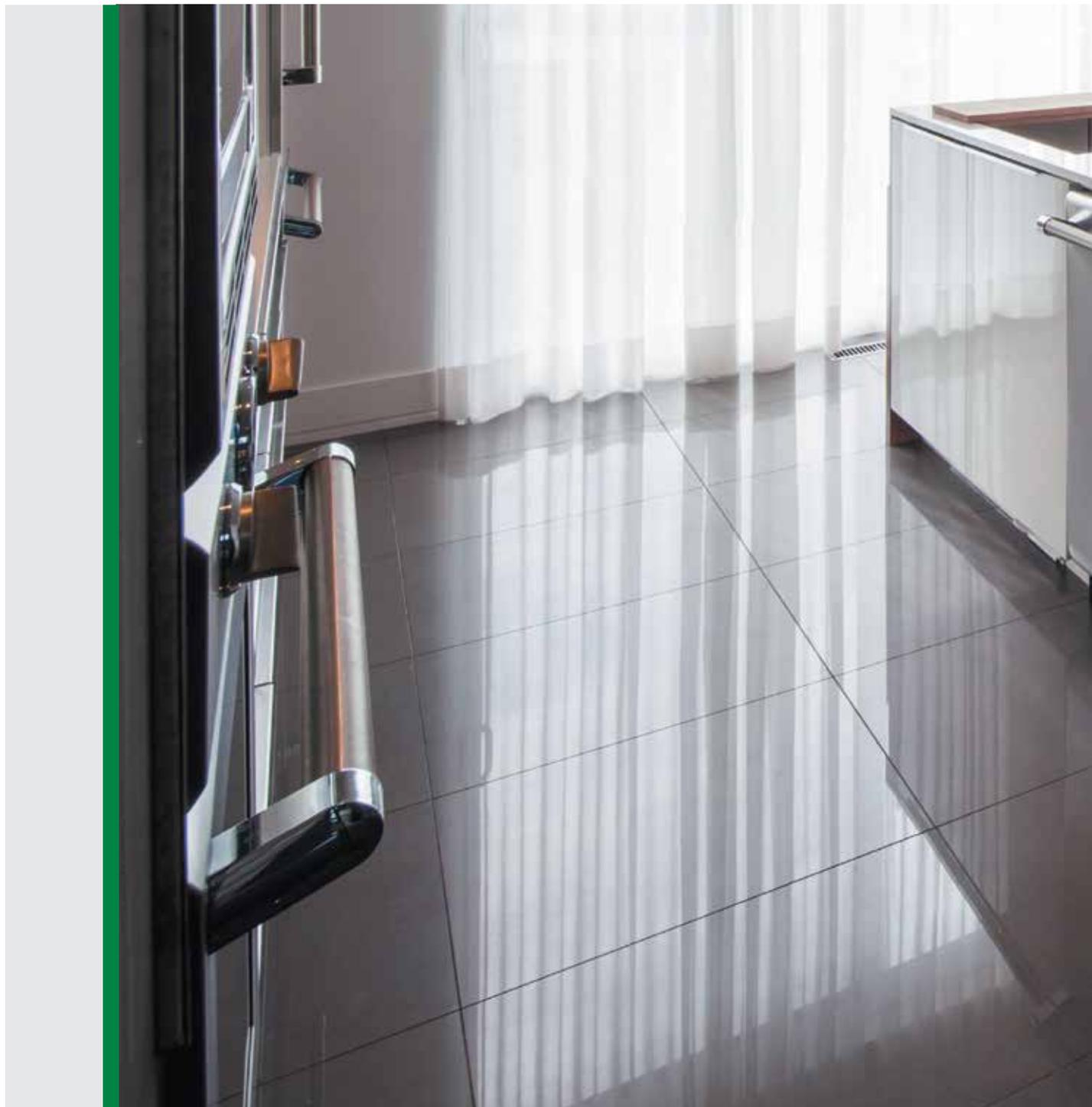
The HardieFloor® structural flooring range is the perfect solution

For clients who desire the comfort of under floor heating, HardieFloor® is the perfect solution. Unlike wood, it won't swell, shrink, expand or buckle due to temperature changes and its thermal conductance properties mean that the heating system will react faster and can help conduct more heat into the room.



Typical thermal performance calculations:

	R Value	U Value	TOG Value
Lambda (k) value = 0.291 W/m.K	0.076 m ² /KW	13.23 W/m ²	0.75 TOG





Product Comparison

By specifying HardieFloor®, squeaky floorboards will become a thing of the past

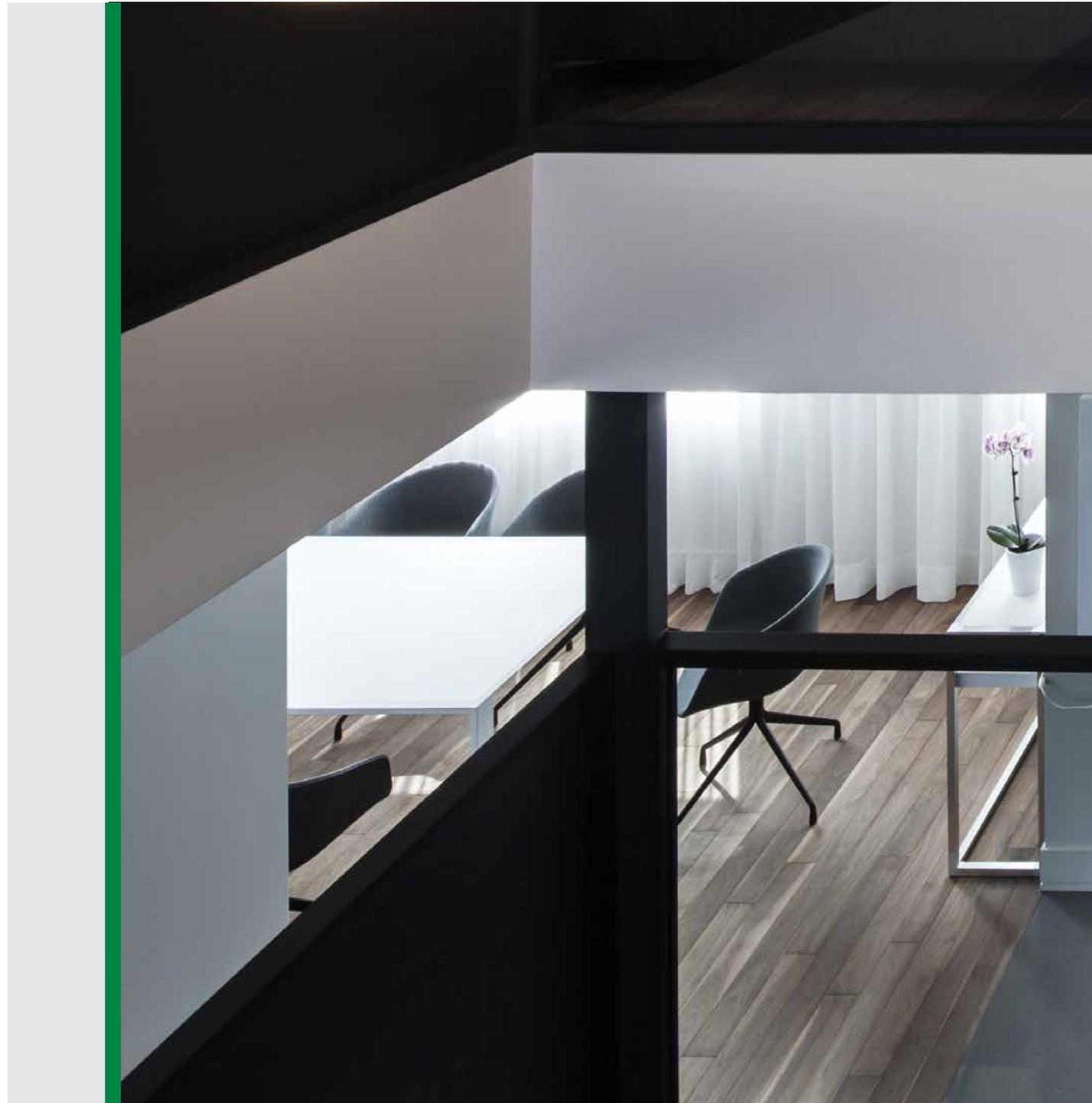
Chipboard can swell, rot and warp when exposed to moisture. HardieFloor® structural flooring is water resistant, providing a squeak-free future floor for the client and peace of mind for the developer. Squeaky floorboards, a major cause of post-purchase dissatisfaction, replacement and call back are today easily avoided by specifying these floors.

Quick as timber, strong as cement

Chipboard sheets ultimately bring a lower quality feel to finished floors and increase floor installation time and wastage on site when compared to HardieFloor structural flooring. To provide a tiled finish, chipboard requires either a tile backer board, or a decoupling membrane. This extra installation step can result in height differences for the finished floor especially when it comes to traversing from tiles to carpet or wood. This smart flooring range accepts all floor coverings directly to the patented fibre cement sheets.

Pre-cast concrete is robust and weather resistant, however it has disadvantages. It's very heavy so it requires not only a crane to install but often wider foundation footings. It may need a screed before floor finishes are applied and can lead to the involvement of additional trades on site.

HardieFloor structural flooring sheets provide a robust quality solid cement feel underfoot. However, they have the installation benefits of being a fibre cement sheet, which can be quickly and easily installed with the minimum of waste. This flooring system allows all finishes and will bring the feel of true luxury to any floor – so, why settle for anything less?





Accessories

Hardie Acoustic Flanking Band

Use this anti-noise gasket between HardieFloor systems and the structural elements. The band can be used to isolate floor treatments, services or anything else requiring acoustic isolation from the structure.

Hardie Joint & Joist Sealant

Use Hardie Joint & Joist Sealant with the HardieFloor structural flooring range; a specialist sealant to ensure acoustic performance that can also be used in wet areas.

HardieBlade® Saw Blade

Specially designed to cut the HardieFloor structural flooring range, this blade reduces dust levels and the diamond tipped edges increase blade life.





TECHNICAL INFORMATION

	HardieFloor® Structural Flooring	HardieFloor dB® Structural Flooring	HardieQStrip® Acoustic Batten	Hardie Acoustic Flanking Band
Basic Composition	Portland cement Cellulose fibre Proprietary additives Ground sand Water No volatile organic compounds or formaldehyde	Portland Cement Cellulose fibre Proprietary additives Ground sand Water Integrated Acoustic Matting Recycled rubber	Rubber	Extruded cross linked closed cell polyolefin foam
Size	2400 x 500 x 19mm 2400 x 500 x 22mm	2400 x 500 x 27mm (not available in 19mm board)	1000 x 60 x 25mm	150mm x 8mm x10m rolls, pre-scored
Weight	26kg / 30kg	35kg		
Warranty from Defects	10 year limited warranty. Terms and conditions apply. For a full copy of the warranty please go to http://www.jameshardie.co.uk/warranty			
Accreditations	LABC / BBA / NHBC			

FIRE CLASSIFICATION

Fire Test	Rating	Explanation	Code
Reaction To Fire	A2	Does not support combustion	EN 13501-1:2007+A1:2009
Smoke Production	S1	Lowest level of smoke production in a fire	EN 13501-1:2007+A1:2009
Flaming Droplets / particles	DO	Does not produce flaming droplets/particles in a fire	EN 13501-1:2007+A1:2009

A Sustainable Approach

James Hardie is committed to sustainable development across all of our activities. We implement practices that aim to benefit building design process and the communities in which we work.

Designed for sustainable building

James Hardie design with sustainability in mind. We focus on developing innovative products that have an extended lifespan, require little maintenance and can be used in energy efficient buildings.

Engineered for durability

We are pioneers, leading the way in developing new technologies and design solutions. We place strong emphasis on research and development and invest significantly in process improvement and product evolution. This has resulted in many technological advancements which have enhanced our sustainability, such as ColorPlus™ Technology and HardieZone™ Technology to create longer lasting facades, and SmartFloor™ Technology to ensure advanced robustness in our structural flooring solutions.

Committed to local communities

Collaborative working is at the heart of our business. We work with our local customers to build effective long term partnerships that are mutually beneficial. We demonstrate social involvement through our corporate and social responsibility practices. This includes our partnership with the Construction Youth Trust, our UK charity of choice.

Improved resource efficiency

We seek continuous improvement in resource efficiencies by working smarter. Life cycle analysis is used to reduce the environmental impacts at each stage of the product lifecycle. We also run an ambitious Zero to Landfill programme.

Smarter green

We have a corporate commitment to supporting sustainable development, and we take this commitment seriously. We measure our environmental performance (backed up by our ISO 14001 & ISO 9001 accreditations in our different plants) and seek to foster a culture of continuous improvement across all aspects of sustainability.







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