



## Data/Factsheet

Environmentally friendly

Excellent thermal conductivity

Impressive acoustic

performance

Easy to install

High recycled content

## Knauf Brio Dry Screed Floor Board

Improved acoustic performance and underfloor heating efficiency for a range of applications

# Brio is a dry floor screed with exceptional performance benefits

Knauf Brio is an engineered gypsum flooring panel with 60% recycled content, specially developed for use in new or refurbished residential and commercial buildings. It sounds almost too good to be true. It's a strong, lightweight and quickly-installed dry screed system. Brio has a very high thermal conductivity ( $\lambda_R = 0.38 \text{ W/mK}$ ) so heating response times are quicker and energy use is reduced. Once installed, Brio creates a robust monolithic floor with a high density of  $1100 \text{ Kg/m}^3$ , and so reduces impact and airborne sound transmission. With a wholly dry installation process, Brio maximises on-site efficiency too. And it's backed by Knauf Drywall's unrivalled service and support.

## KEY FACTS

### What is Brio?

Gypsum fibre dry floor screed panel

Thermally transparent

Dimensionally stable

Ideal over underfloor heating systems

Strong and exceptionally well engineered

High recycled content



# Brio unlocks the potential of underfloor heating

Knauf Brio's high thermal conductivity and low profile of as little as 18mm, combine to minimise losses from underfloor heating systems. This means heating systems can operate at lower flow temperatures and still produce the same desired climate in the room.

With traditional floor systems, such as chipboard or heavy wet screeds, large amounts of energy are wasted heating up the screed itself. This dulls the response times and reduces the efficiency of underfloor heating systems – meaning higher running costs and significantly increased CO<sub>2</sub> emissions.

Combine the comfortable environment underfloor heating creates and dramatically shortened response times with lower running costs, and you can see why occupants love Knauf Brio. And for those embracing future-proof energy sources such as ground or air source heat pumps, Knauf Brio's outstanding heat transfer makes it the perfect environmental and economic choice.

## KEY FACTS

### What does Brio do?

Allows underfloor heat through with minimum resistance and maximum efficiency

Makes room temperature more responsive to control

Allows UFH systems to run at lower flow temperatures

Reduces CO<sub>2</sub> emissions by 500kg per house, per year\*

\*Compared to 22mm chipboard. (Independent test data, details from Knauf Drywall).





## Brio reduces noise underfoot - and in the rooms below

Knauf Brio's high-density gypsum fibreboard mass helps reduce airborne noise to meet acoustic requirements whilst minimising floor build-up heights. Simple constructions, using no additional specialist trades, can easily meet Part-E of the Building Regulations. In fact Knauf Brio has helped the achievement of BREEAM Outstanding ratings thanks to acoustic results well in excess of Part-E and reduced water use on site.

Knauf Brio is also available with an additional laminated wood fibre layer. In refurbishment projects, over uneven timber planks or old screed floors, it gives resilient impact noise reduction as well as limiting airborne noise, whilst adding as little as 28mm to the floor profile.

Combine excellent acoustics with with a solid, high quality floor surface underfoot and it's easy to understand why installing Knauf Brio makes for happier clients more comfortable building occupants.

### KEY FACTS

#### What difference does Brio make in use?

Achieves acoustic performance with the minimum impact on build heights

Helps meet & exceed Part-E of the Building Regulations

Assists in achieving BREEAM points

Gives a robust, comfortable floor finish

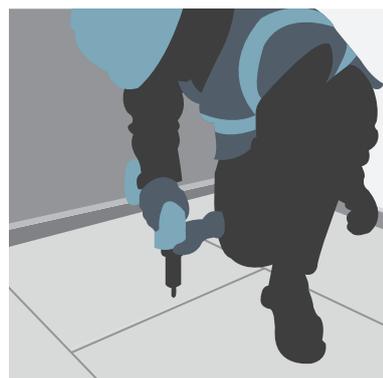
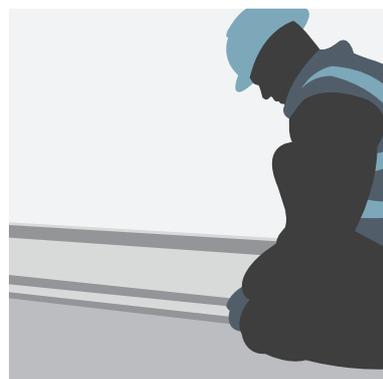
# Brio is quick and easy to install

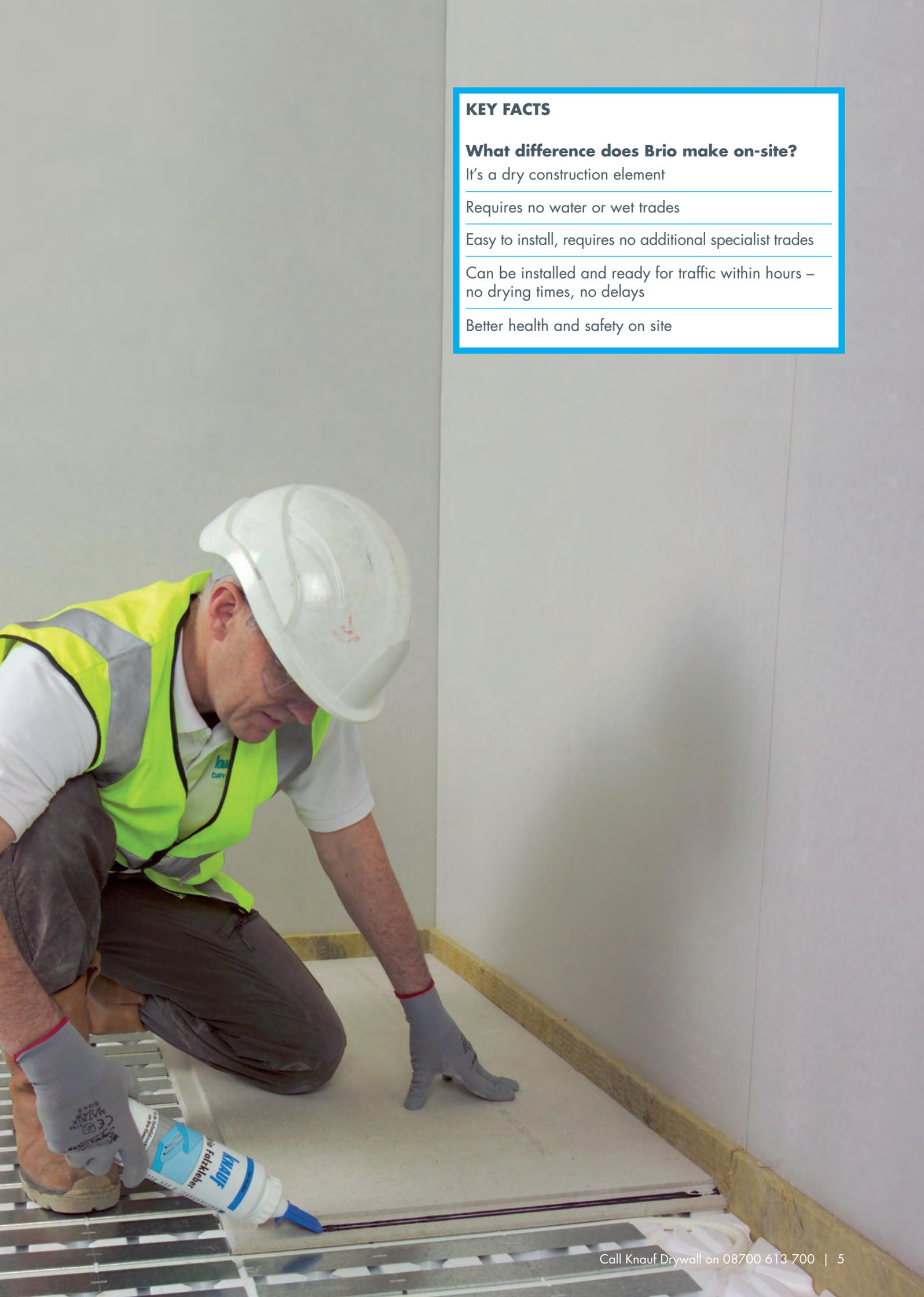
Knauf Brio does not require additional specialist trades on site; installation is well within the capabilities of a competent tradesperson. Brio is manufactured with precision, so that boards fit together smoothly and quickly.

Knauf Brio's dry installation minimises delays on site and adds flexibility to build schedules. Drying times on site are eliminated, as is the additional moisture in the building fabric that comes with wet screeds.

There are none of the trip hazards associated with bulky batten and chipboard systems. Panel joints are simply glued together and fastened with Knauf Brio Screws, designed to stop exactly 1mm short of the bottom of the precision-engineered panel.

The result – every time – is a solid, high quality, level floor that is ready for a wide variety of finishes – and traffic – within hours.





## KEY FACTS

### What difference does Brio make on-site?

It's a dry construction element

Requires no water or wet trades

Easy to install, requires no additional specialist trades

Can be installed and ready for traffic within hours – no drying times, no delays

Better health and safety on site



## KEY FACTS

### What difference does Brio make?

High recycled content

Facilitates the use of heat pumps

Reduces waste and water on site

Cuts carbon emissions through the life of the building

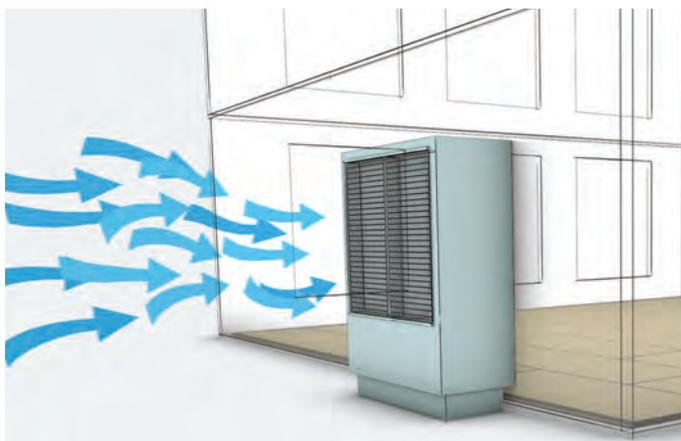
# Brio is the sustainable solution

Knauf Brio comes with excellent environmental credentials, making it ideal for low-carbon buildings and reducing the carbon footprint in refurbishment projects.

Brio's largely recycled content of gypsum and fibre, and its clean manufacturing process, makes it an ideal environmental product choice. In use, Brio continues to reduce CO<sub>2</sub> emissions throughout the life of the building.

When used in place of chipboard, Brio is proven to increase underfloor heating system efficiency by between 36% and 43%\*. By allowing underfloor heating systems to run cooler for the same output, Brio also facilitates the use of renewable energy sources such as ground and air source heat pumps.

\*BSRIA Thermal Comparison Test - Report 53905/1 Edition 2



# Brio ticks all the environmental boxes

## Sustainable in manufacturing

- ✓ Brio has 60% recycled content
- ✓ Knauf Drywall has ISO14001 certification

## Sustainable in construction

- ✓ Scores two water management points on Code for Sustainable Homes
- ✓ Cuts vehicle movements on site
- ✓ Reduces load on tower blocks, which can cut foundation and steelwork requirements
- ✓ Reduces cement content of building

## Sustainable in use

- ✓ Saves up to 500kg CO<sub>2</sub> per dwelling per year\*
- ✓ Optimises benefit of air and ground source heat pumps

\*Compared to 22mm chipboard. (Independent test data, details from Knauf Drywall).

## Also available from Knauf Drywall

Knauf GIFAfloor for commercial and structural applications including Raised Partial Access



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N.E. Lincolnshire



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