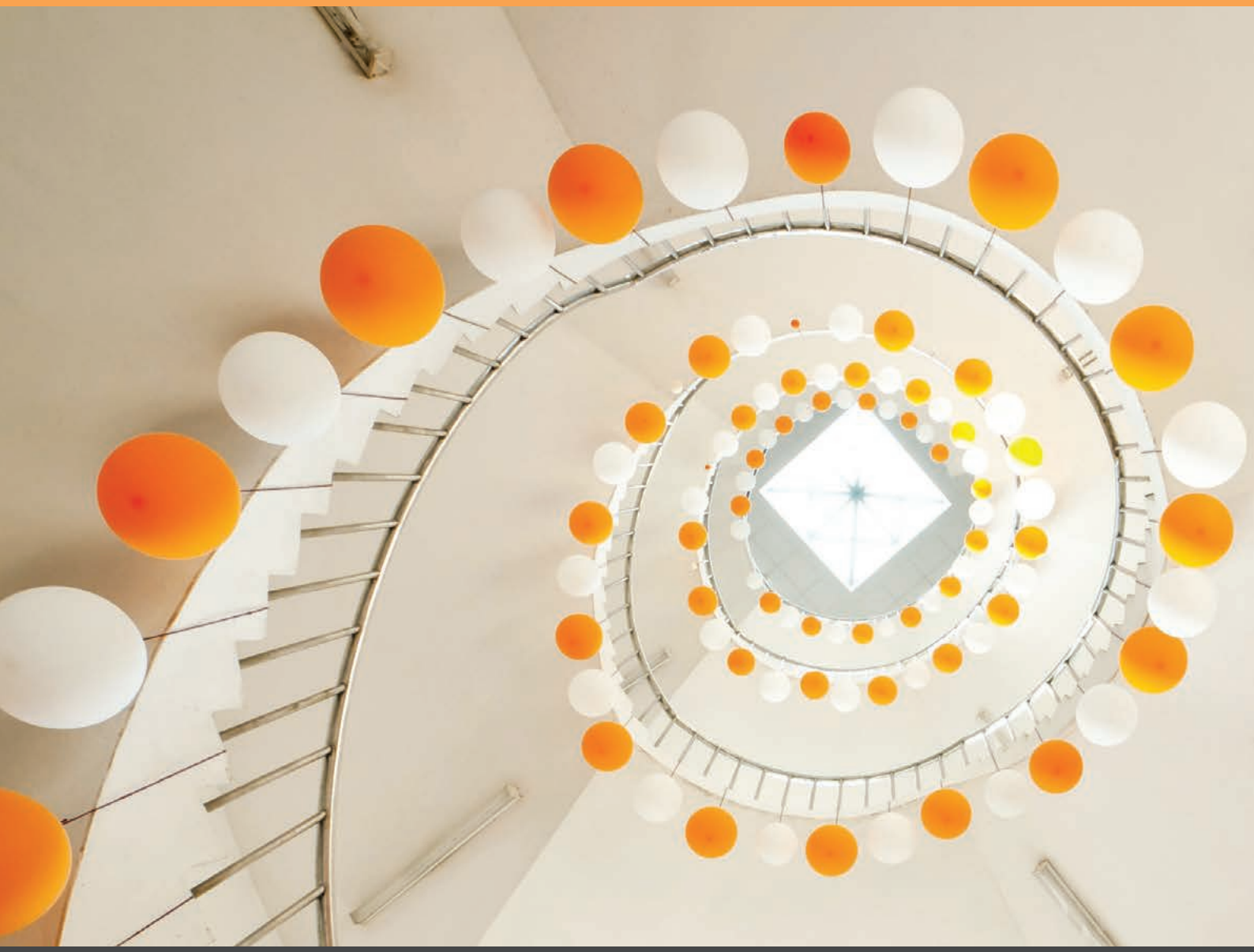
fermacell
in focus

The ultimate building board





fermacell

The ultimate building board

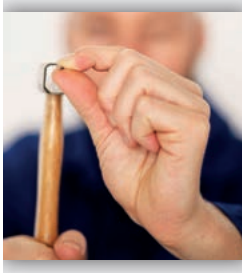
fermacell gypsum fibreboard was developed in 1971 and since then has become the obvious choice across Europe for high-performance dry lining projects. Combining the strength of solid block work with the flexibility of dry lining, the acoustic, fire, moisture, impact and load hanging performance place **fermacell** in a category of its own, truly the "ultimate building board".

Subsequent product development has created the **fermacell** flooring system and the **fermacell** Powerpanel cementitious board, all underpinned by the same passion for quality and well-engineered solutions as the original **fermacell**.

Today, **fermacell** is part of the Xella International group, a multi-national business with 92 factories in 19 countries across the world. In addition to **fermacell**, brands such as YTONG and HEBEL (aerated concrete), SILKA (calcium-silicate bricks), MULTIPOR (insulation systems) and AESTUVER (fire protection boards) are highly successful building products in many markets across the world.

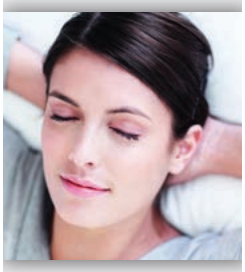
fermacell impact strength and rigidity

Whether you are fitting an LCD screen, cupboards or handrails, with **fermacell** board these can be fixed directly to the board without fastening to the substructure. Additionally, a single screw can hold up to 30 kg, and a toggle bolt up to 50 kg. When **fermacell** is used as sheathing board in timber frame construction, 12.5 mm can contribute to the racking strength of the frame. With these superior properties, **fermacell** is suited to commercial projects such as schools, hospitals and hotels.



fermacell effective sound insulation

When used for walls, floors and ceilings, **fermacell** offers effective and proven sound insulation – improving the acoustic performance of buildings. A 75 mm steel stud wall, using **fermacell** with no insulation, can achieve sound insulation values ranging from 43 dB R_w to 64 dB R_w depending on the position of the room within the building. These advantages play a significant role, particularly in the construction of offices, hotels, schools and private homes.



fermacell reliable fire protection

With the introduction of new EU fire regulations for both private and public buildings, **fermacell** has been approved under ETA 03/0050, classified as Euroclass A2, **fermacell** has been certified as Class 0 surface spread of flame and it is a material with limited combustibility. **fermacell** is ideally placed where building regulations require fire protection, such as hallways, staircases, attic conversions as well as multi-storey timber frame constructions.



fermacell®

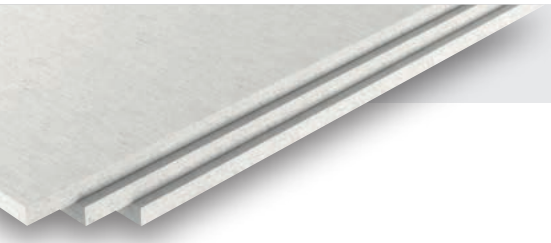
Specify and use with confidence

fermacell products are developed to the highest standards of German engineering and are tested to both British and European building regulations. The **fermacell** "Orange Book" gives comprehensive information to support your decision to use **fermacell**. With its simple homogenous composition, **fermacell** is made of 80% recycled gypsum, 20% cellulose fibres from recycled paper and no added chemicals, helping to improve the BREEAM rating of a building.

eco INSTITUT TESTED PRODUCT ID 0907-13701-002

ÉMISSIONS DANS L'AIR INTÉRIEUR A+ A+ A B C

CE

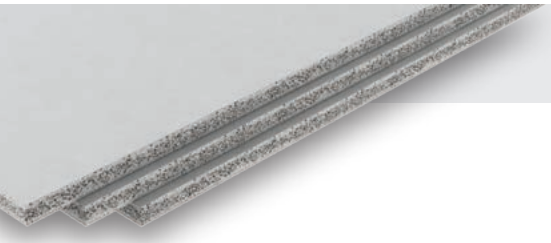


fermacell gypsum fibreboard



1. Comfortable indoor climate
2. Easy to install
3. Suitable for wetrooms
4. Impact resistant
5. Fire resistant
6. Best sound insulation

The **fermacell** brand has stood for the highest quality dry lining for more than 40 years. It offers architects and specifiers freedom in their designs, as well as allowing creative implementation. **fermacell** building boards are suitable for commercial buildings, timber and off site construction. **fermacell** is a unique, single-point solution to a multitude of challenges. It combines high levels of fire resistance, acoustic insulation, and impact strength with exceptional screw holding ability and inherent moisture resistance.



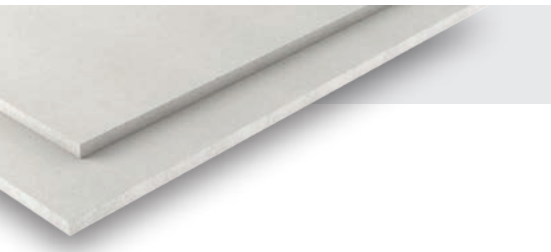
fermacell Powerpanel H_2O



1. Suitable for wet areas
2. Easy to install
3. Unique jointing system
4. Light & impact resistant
5. Easy to fix
6. Rapid finish

Our Powerpanel H_2O product range is used wherever building materials are exposed to considerable strain – particularly from water (such as wet rooms, bathrooms, commercial kitchens and swimming pools), mechanical stress, in interior construction, on exterior facades, or in industrial applications.

Cement-bonded panels, optionally reinforced with a glass fibre mesh, create the required strength and are easy to install without any special tools, providing an impervious to water solution.



fermacell flooring



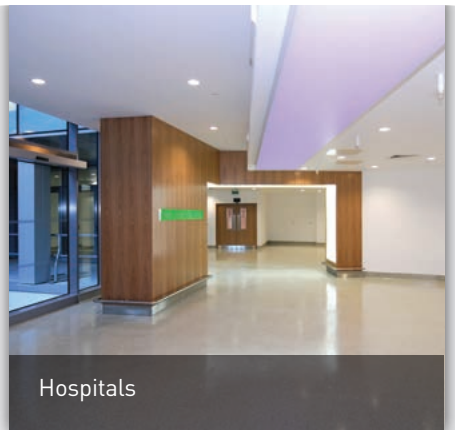
1. Convenient format
2. Rapid usability
3. Ideal for underfloor heating
4. Best sound insulation
5. Safe fire protection
6. Fast installation

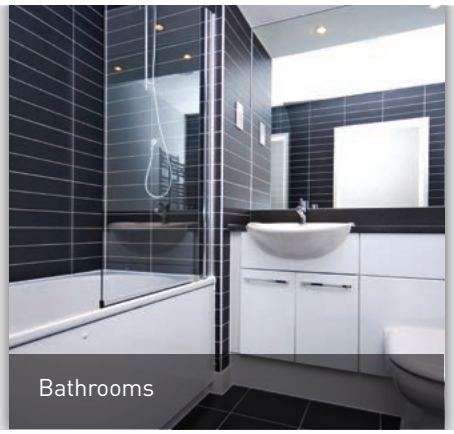
fermacell flooring solutions are designed for use as floating floors in a wide variety of applications. Manufactured from **fermacell** gypsum fibreboards or Powerpanel H_2O, they give a dry, robust and simple flooring solution. Used in conjunction with **fermacell** to the ceiling, the flooring elements provide a wide variety of solutions as a complete floor/ceiling specification; it involves a continuous floating membrane, installed and used within 24 hours – ready to accept a wide range of floor finishes.

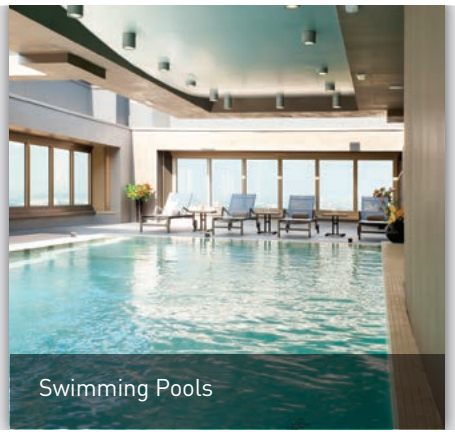
fermacell product range

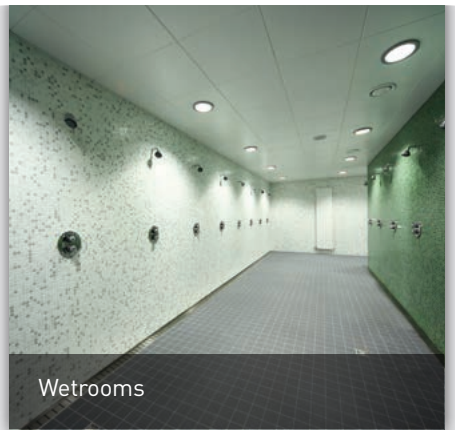

Schools / Education Centres

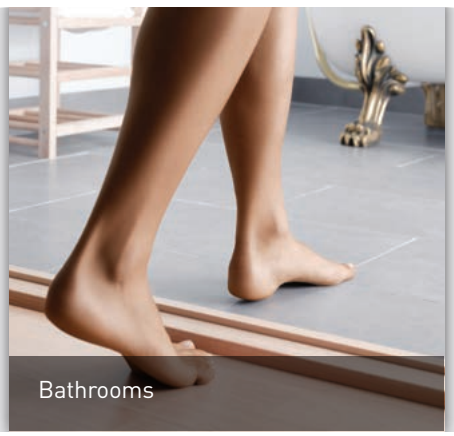

Museums / Galleries

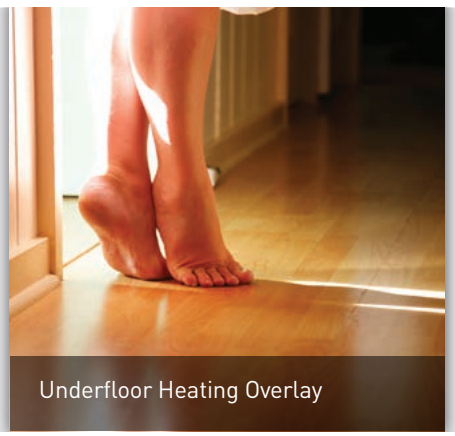

Hospitals

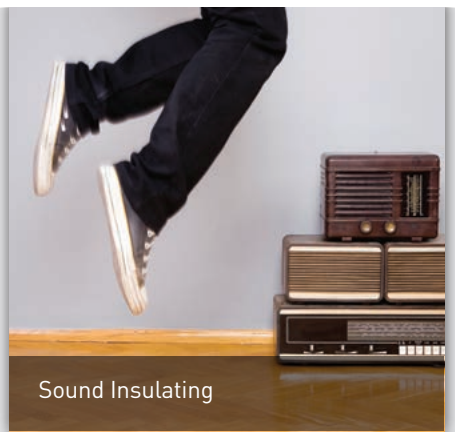

Bathrooms


Swimming Pools


Wetrooms


Bathrooms

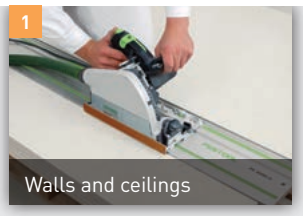

Underfloor Heating Overlay


Sound Insulating

fermacell applications



fermacell building board is a sustainable product and is made completely from recycled materials



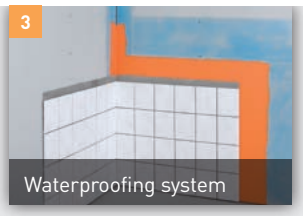
Walls and ceilings

Designed to be used on either metal or timber partitions. It provides properties associated with solid masonry with the flexibility and speed of drywall.



Shaftwall

For lifts, hallways, staircases, attic conversions and any spaces where building regulations require fire protection.



Waterproofing system

Designed to be used with Powerpanel H_2O where a complete, tanked waterproofed system is required, with or without tiles.



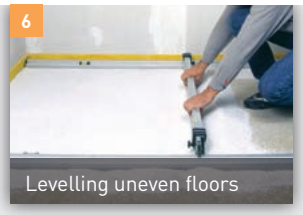
Soundproofing

fermacell is ideal for soundproofing in hotels, offices and conference centres. Single layer of 12.5 mm **fermacell** can achieve 41R_w of sound insulation.



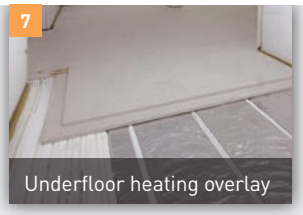
Finishing

fermacell finish is identical to skim plaster and can be achieved by using **fermacell** FST, drying in 45 minutes.



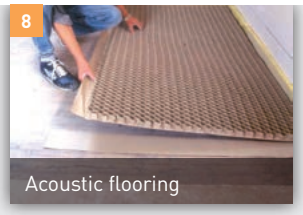
Levelling uneven floors

fermacell dry levelling compound is suitable for levelling of uneven floors from 0-60 mm, placed underneath **fermacell** flooring.



Underfloor heating overlay

With **fermacell** the heating can be up and running 24 hours after laying as no wet screed is required.



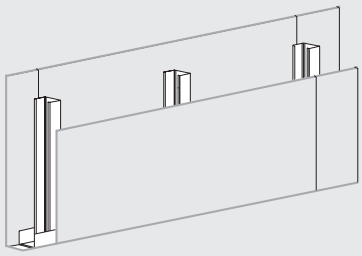
Acoustic flooring

High performance flooring system for improved airborne and impact noise reduction, meeting Part E Regulations.

fermacell performance

Steel frame – option 1

1S15



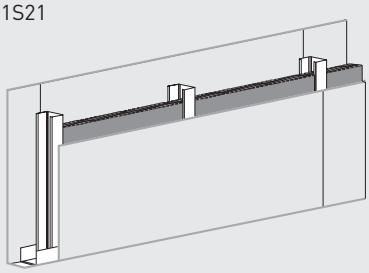
Studs
50 mm DIN standard studs @ 600 mm centres

Facings
1 layer 12.5 mm **fermacell** building board each side

Wall Thickness	75 mm
Fire Rating	30 mins
Sound Insulation	41 R_w
Duty Rating	Severe
Wall Weight	31 kg/m²

Steel frame – option 2

1S21



Studs
75 mm DIN standard studs @ 600 mm centres

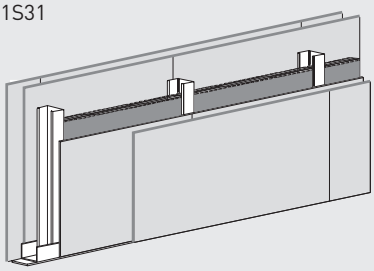
Facings
1 layer 12.5 mm **fermacell** building board each side

Insulation
60 mm mineral stone wool density 30 kg/m³

Wall Thickness	100 mm
Fire Rating	60 mins
Sound Insulation	54 R_w
Duty Rating	Severe
Wall Weight	35 kg/m²

Steel frame – option 3

1S31



Studs
75 mm DIN standard studs @ 600 mm centres

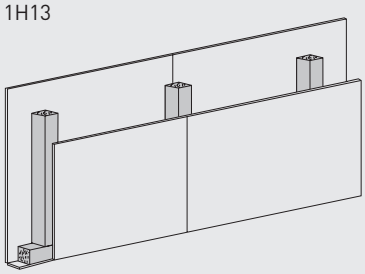
Facings
1 layer 12.5 mm **fermacell** building board each side plus
1 layer 10 mm **fermacell** building board each outer side

Insulation
60 mm mineral stone wool density 30 kg/m³

Wall Thickness	120 mm
Fire Rating	90 mins
Sound Insulation	62 R_w
Duty Rating	Severe
Wall Weight	58 kg/m²

Timber frame

1H13



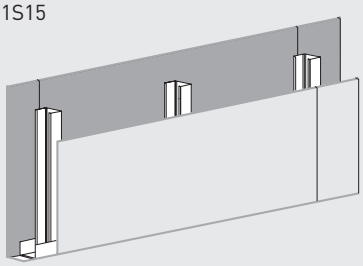
Studs
75 mm x 50 mm @ 600 mm centres

Facings
1 layer 12.5 mm **fermacell** building board each side

Wall Thickness	100 mm
Fire Rating	30 mins
Sound Insulation	41 R_w
Duty Rating	Severe
Wall Weight	40 kg/m²

Powerpanel H_2O

1S15



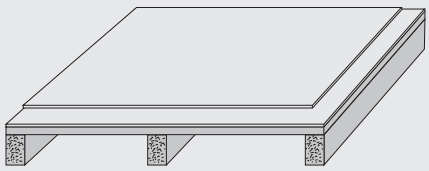
Studs
75 mm DIN standard studs @ 600 mm centres

Facings
1 layer 12.5 mm Powerpanel H_2O inner side plus
1 layer 12.5 mm **fermacell** building board outer side

Wall Thickness	85 mm
Fire Rating	30 mins
Sound Insulation	41 R_w
Duty Rating	Severe
Wall Weight	37 kg/m²

Flooring element

2E22



Areas of application
fermacell flooring is designed for use as a floating floor and it offers a dry screed solution, providing robust and simple solution for refurbishment as well as new build and timber frame.

Facings
25 mm dry flooring element

Floor Thickness	25 mm
Fire Rating from above	60 mins
Thermal Performance	0.08 [1/Δ] m²-K/W
Admissible Point Loading	3 kN
Floor Weight	0.29 kg/m²

Fermacell GmbH
Export Department
Düsseldorfer Landstr. 395
47259 Duisburg
Germany

www.fermacell.com

fermacell®

For additional information please visit the fermacell website.

Technical modifications subject to changes
Last updated: 06/2013

The most recent edition applies. Should you require additional information, please contact our fermacell customer service.

fermacell customer service:
phone: +49 (0) 203 60 880 - 8328
fax: +49 (0) 203 60 880 - 8329
e-mail: fermacell-exportcenter@xella.com
www.fermacell.com
www.fermacell.co.uk
www.fermacell.fr
www.fermacell.es

fermacell® is a registered trademark and a company of the XELLA group.

FC-022-00017/k/06.13