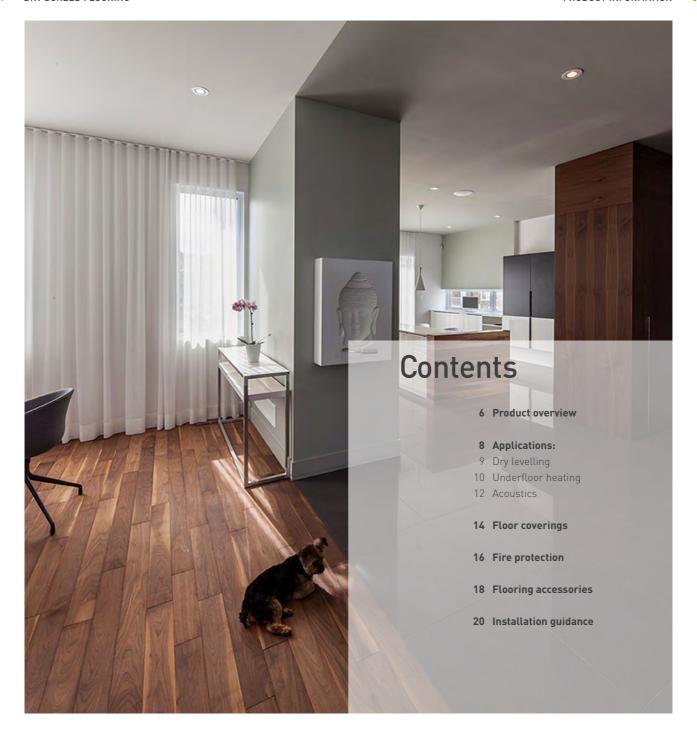




DRY SCREED FLOORING PRODUCT INFORMATION



DRY SCREED FLOORING PRODUCT INFORMATION



Product overview

fermacell® dry flooring systems offer a quick and easy to install, twin layered interlocked floating floor which can be used in a variety of applications.

Offered in three thicknesses: 20 mm, 25 mm and 30 mm, our boards are supplied in a handy lightweight size of $1500 \text{ mm} \times 500 \text{ mm}$.

All our systems hold a European Technical Approval (ETA- 03/0050) and associated CE mark, as well as being independently certified at European level. fermacell flooring also carries a BBA certificate (93/3358).



Which fermacell® product is best for your project?

· Dry screed solution

fermacell® 2E22 or 2E11 Eliminating the need for wet trades completely and able to be worked on within 24 hours!

Overlay for underfloor heating systems

fermacell® 2E22 or 2E11

Offering ontimum thermal condu

Offering optimum thermal conductivity to enhance performance.

· Acoustic overlay

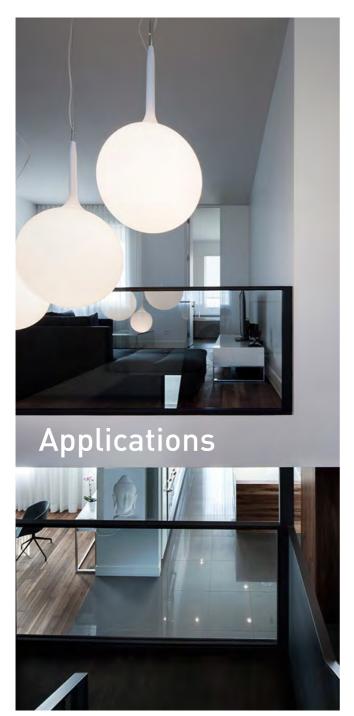
fermacell® 2E31

Comes with an additional wood fibre layer to further optimise acoustic isolation properties.





DRY SCREED FLOORING DRY LEVELLING COMPOUND



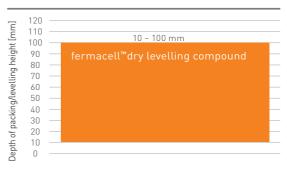
Dry levelling compound

The fermacell™ dry levelling compound can be used for levelling uneven floors in both new build and refurbishment projects. It is a special dried, mineral aerated granulate.

This innovative material has unique physical properties to make the granules extremely versatile. Critically, once laid, the angular and irregular shapes of the grain provide a self-locking mechanism, which provides excellent stability.

Using a dry self levelling system allows for a super-fast installation, with floors ready to work on within 24 hours. The overall system is extremely light-weight when compared to wet alternatives, reducing additional structural loading to the building.





Underfloor heating

For warm water underfloor heating systems, fermacell® 2E22 & 2E11 offer the ideal solution; providing the fast response times not possible with concrete screeds, coupled with the rapid installation of a dry flooring system.

fermacell® flooring offers minimal thermal resistance to enhance the performance of underfloor heating systems. This is less than half the thermal resistance of cheaper alternatives such as floor grade chipboard or ply.

As a result, energy consumption is reduced and overall system efficiencies are achieved. Experts claim that through using underfloor heating and fermacell dry flooring systems together, building occupants can save up to 15% on energy bills per annum when compared with a traditional wet screed and underfloor heating system.



Dry Screed Board 2E11

2E22

Description	2 x 10 mm gypsum fibreboard	2 x 12.5 mm gypsum fibreboard
Thickness (mm)	20	25
Size (mm)	500 x 1500	500 x 1500
Weight (kN/m²)	0.23	0.29
Thermal resistance (m²k/W)	0.065	0.08

Application recommendations

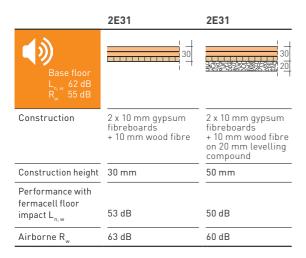
Hot water underfloor heating Domestic wet floors Inlet temperatures max. 55 °C

Acoustics

fermacell® 2E31 offers a high performance, low profile acoustic overlay system which significantly reduces the transmission of both airborne and impact sound.

Also offering a robust feel underfoot, 2E31 is the ideal floating floor treatment to complement structural elements. It is suitable for use with both concrete and timber floors, in either new construction or refurbishment projects. Our floor overlay can be used to support a wide variety of floor finishes.

It provides exceptional airborne and impact noise reduction, outperforming many existing solutions and far exceeding building regulations, Part E (when used as part of a full system, floor & ceiling).



Base Floor = 22 mm wood based board, 220 mm joist, 50 mm cavity insulation, 30 mm resilient metal ceiling system at 400 mm centres, 10 mm fermacell® gypsum fibreboard*.



	2E31	2E11
Base floor L _{n.w} 78 dB R _w 55 dB	30	20 20 20 20 20
Construction	2 x 10 mm gypsum fibreboards + 10 mm wood fibre	2 x 10 mm gypsum fibreboards on 20 mm levelling compound
Construction height	30 mm	40 mm
Performance with fermacell floor impact sound improvement Δ L _w for solid floor according to EN 12354	21 Rw = 61 dB	18 dB

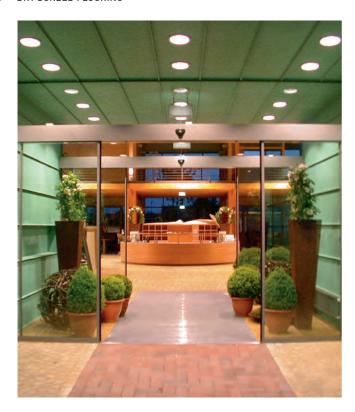
Base Floor = Solid floor, 315 - 400 kg/m², 160 mm reinforced concrete floor

^{*}Ensure build-up meets fire performance required. For further support, contact our technical team.

4 DRY SCREED FLOORING FLOOR COVERINGS 1



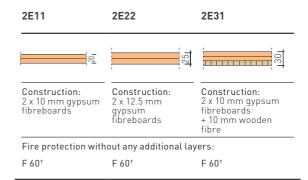
DRY SCREED FLOORING FIRE PROTECTION



Fire protection

fermacell® flooring solutions can also be used to improve the fire protection classification of different types of base floor construction from above.

fermacell gypsum fibreboard is an A2 rated board offering a range of fire solutions. If additional protection is required (i.e. F 120) this can be achieved with fermacell systems. Please contact our technical team for more information

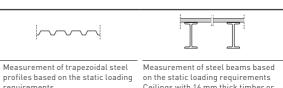


[†]Tested to DIN 4102

Т

he fire protection improvement of types f base floor systems				
Concrete floor + drawing	Wooden joist floor	Wooden joist floor		
	with a structural overlay board	with load-bearing in-fill side supports with a structural overlay board		
dinimum thickness based on the static oading requirements.	Timber-based boards t ≥ 16 mm p ≥ 600 kg/m³ Plywood boards t ≥ 16 mm p ≥ 520 kg/m³ sheets/boards t ≥ 21 mm	Timber-based boards t > 16 mm p > 600 kg/m³ Plywood boards t > 16 mm p > 520 kg/m³ sheets/boards t > 21 mm		

Steel profiled sheet + concrete Steel beam floor



requirements Ceilings with 16 mm thick timber or Please note the special requireconcrete -based boards, or others ments of the AbP certificate suitable alternatives. Additional layers may be required.

^{*} The base floors including their load bearing performance and reinforcing components should be designed in accordance with the dynamic and static load requirements for their intended use.



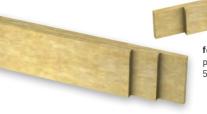
fermacell™ self levelling compound



fermacell™ dry levelling compound



fermacell™ greenline floor glue 1 kg bottle



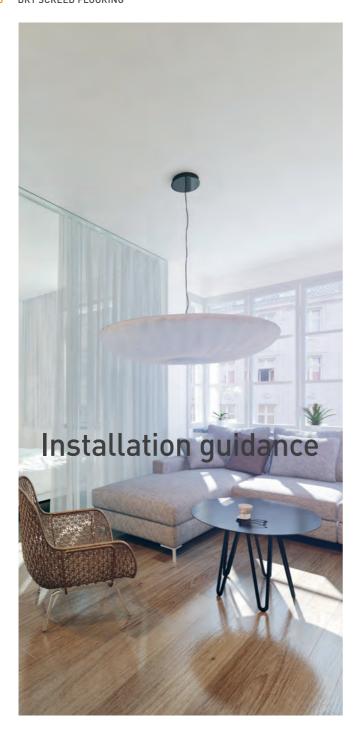
fermacell™ perimeter strips 50 & 100 mm

Flooring accessories

Our flooring is complemented by a range of fermacell™ accessories to complete your installation:

Product	Code	Size
Dry levelling compound	78011	50 ltr bag /18.5 kg
Self levelling compound	78009	25 kg
Greenline floor glue	79225	1 kg bottles carton
50 mm perimeter strip	79079	1.5 kg
100 mm perimeter strip	79076	1.5 kg
19 mm floor screws	79010	1000
22 mm floor screws	79013	1000





Installing dry levelling compond



1 Fitting the perimeter strips



2 Preparing the area to be levelled by creating two dams



3 Pour and level fermacell™ levelling compound



4 Place fermacell flooring on to fermacell levelling compound

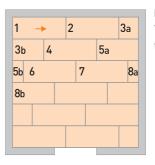
Installing fermacell® boards



Apply perimeter strips and push into the perimeter junctions



2 Saw off any protruding edges for the first row



Installation diagram 1This shows installation towards the door.



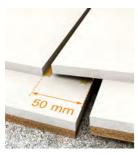
3. Install the fermacell flooring



 Apply the fermacell[™] floor glue to the shiplap joint



Installation diagram 2
This shows installation
away from the door. If
the fermacell flooring
elements are being laid on
dry levelling compound, we
recommend that you work
from the door to avoid
disturbing the granules.



5. Glue the elements to ensure fully bonded



6. Fix by screwing or stapling within 10 minutes – stand on the overlapping edge element

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