fermacell at a glance

Products and solutions

Last updated March 2014



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1 The dry lining market

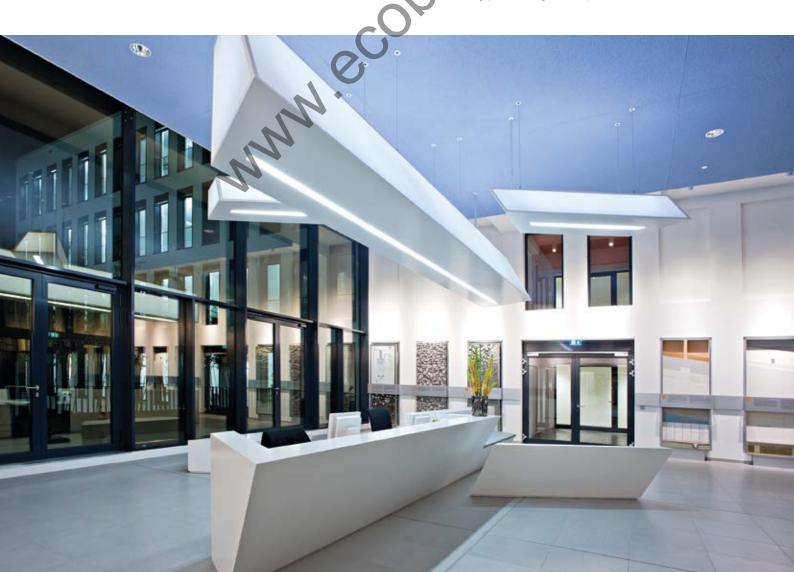
1.1 Dry lining is the future!

We're convinced of that. This method is used for construction and refurbishment projects throughout Europe and far beyond its borders.

The demands on modern building materials are increasing and becoming more and more diverse. The market is dominated by fast, high-quality solutions that meet—or, better still, exceed—all the current safety regulations and energy efficiency requirements.

Like other sectors, the construction industry is undergoing a process of globalisation. Internationally active construction companies and retail chains, as well as international tendering procedures, confirm this trend.

Construction work needs to be completed efficiently in short time frames, without unnecessarily long drying times and without too much dirt, using easy-to-handle products and time-saving processing techniques.



1.2 No limits

In order to maintain and further expand this position, we are continuously developing new user-friendly products and innovative solutions geared towards market requirements. With its tested designs, which can be implemented efficiently, fermacell offers maximum stability, reliable fire protection, and good sound and thermal insulation. The European Technical Approval (ETA) puts fermacell ahead of the field, and the CE marking allows free trade within Europe.

Germany

Fermacell GmbH Düsseldorfer Landstrasse 395 D-47259 Duisburg

phone: +49(0)203 - 60880-3 fax: +49(0)203 - 60880-8349

2 Switzerland

Fermacell GmbH Schweiz Südstrasse 4 3110 Münsingen

phone: +41(0)31 - 7242020 fax: +41(0)31 - 7242029

3 Austria

Fermacell GmbH Zweigniederlassung Österreich Bürocenter B 17 Brown-Boveri-Strasse 6/4/24 2351 Wiener Neudorf phone: +43(0)2236 - 42506

Countries managed by Fermacell GmbH sales office in Austria: Croatia, Slovenia, Hungary, Bosnia and Herzegovina, Montenegro, Serbia, Kosovo

+43(0)2236 - 42509

Great Britain

Fermacell
P.O. Box 10028
Sutton Coldfield B75 7ZF
phone: +44(0)1213113480
fax: +44(0)1213111882

Country managed by Fermacell sales office in Great Britain: Ireland

5 BeNeLux

Fermacell B.V. Postbus 398 6600 AJ Wijchen

phone: +31(0)24 - 6495111 fax: +31(0)24 - 6495126

Fermacell Postbus 54 8790 Waregem

phone: +32(0)475 - 708437 fax: +32(0)56 - 729281

6 France

Fermacell SAS
30, Rue de l'industrie
92563 Rueil Malmaison Cedex
phone: +33(0)1 47169290
fax: +33(0)1 47169291



7 Scandinavia

Fermacell Scandinavia Kirkevej 3 8751 Gedved

phone: +45(0)39 - 698907 fax: +45(0)39 - 39698921

Countries managed by Fermacell Scandinavia sales office in Denmark: Sweden, Finland, Norway, Iceland, Faroe Islands

8 Poland

Fels-Werke GmbH ul. Migdałowa 4 02-796 Warsaw

phone: +48(0)22 - 6451338/(9) fax: +48(0)22 - 6451559

Czech Republic

Fermacell GmbH Žitavského 496 156 00 Prague 5 – Zbraslav phone: +42(0)29 - 6384330 fax: +42(0)29 - 6384333

Country managed by Fermacell GmbH sales office in Czech Republic: Slovakia

10 Italy

Fermacell S.r.I. via Vespucci, 47 24050 Grassobbio – BG phone: +39(0)35 - 4522448 fax: +39(0)35 - 3843941

11 Spain

Fermacell Spain S.L.U. B° La Estacion, s/n 39719 Orejo – Cantabria, Spain phone: +34(0)94 - 2522968

Country managed by Fermacell Spain S.L.U.: Portugal

12 Fermacell GCC

JAFZA View Towers
Building LB 19
Floor no. 21, Room LB192106
Jebel Ali Free Zone,
United Arab Emirates
phone: +971 4 887 6995

Countries managed by Fermacell GCC sales office in the United Arab Emirates: Saudi Arabia, Kuwait, Bahrain, Qatar, Oman.

All other countries managed by the Export Department:

Düsseldorfer Landstrasse 395, D-47259 Duisburg, phone: +49(0)203 - 608803, fax: +49(0)203 - 608808399

2 Comprehensive product range

2.1 fermacell Gypsum Fibreboard

fermacell—the original—was the first gypsum fibreboard on the market. The brand has stood for high-quality dry lining for more than 40 years.

fermacell is made from gypsum and recycled paper fibres. These two natural raw materials are mixed with water, without any other binders being added. The mixture is then pressed into stable boards under high pressure, dried, coated with a water repellent, and cut to the required sizes. The gypsum reacts with the water, penetrating and enveloping the fibres. This produces high stability and noncombustibility.

Because of its material composition, fermacell boards are suitable for general construction, fire protection, and wet

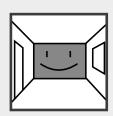






Hotel bathrooms, for example, often require moisture resistance with acoustic insulation and fire protection. Hospitals will add impact resistance and flexibility in accepting wall mounted fittings to this. These criteria often result in solutions involving compromises. They can then only be achieved by using specialist boards and composite layers, often with costly and time consuming consequences.

This in turn creates the potential for confusion, both at detailed drawing stage and on site. Additionally, multiple layering inevitably means thicker walls. fermacell offers a unique, single-point solution to these problems, combining high levels of fire resistance, acoustic insulation, and impact strength with exceptional screw holding ability and inherent moisture resistance.



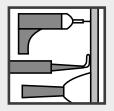
Comfortable indoor climate

fermacell Gypsum Fibreboards are made of gypsum and paper fibres, without any other binders. The breathing and insulating material ensures a comfortable indoor climate.



Impact resistant

fermacell Gypsum Fibreboard reduces double layering or use of sheathing ply. The homogeneous board structure makes it sturdy and able to withstand mechanical loading.



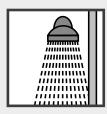
Easy to install

Drilling, cutting, jointing, filling, milling, sawing, grinding. Installation is easy and practical.



Fire resistant

60 minutes fire resistance from single layer partitions up to 10 m high. Class '0' certification. European class A2.



Suitable for wet rooms

fermacell Gypsum Fibreboards are extremely suitable for rooms with variable humidity, e.g. domestic bathrooms.



Best sound insulation

Tests conducted by various worldwide institutes confirm outstanding sound insulating properties.

Want to construct curved walls, trapezoidal room dividers, or suspended ceilings with modern lighting effects? Not a problem with fermacell.

fermacell for dry lining

Dry lining techniques are prevalent in modern construction. And intelligent designs require innovative building materials. fermacell Gypsum Fibreboards certainly fulfil this requirement.

They offer architects and planners maximum freedom in the design of floor plans, as well as allowing creative implementation.

fermacell for timber frame constructions

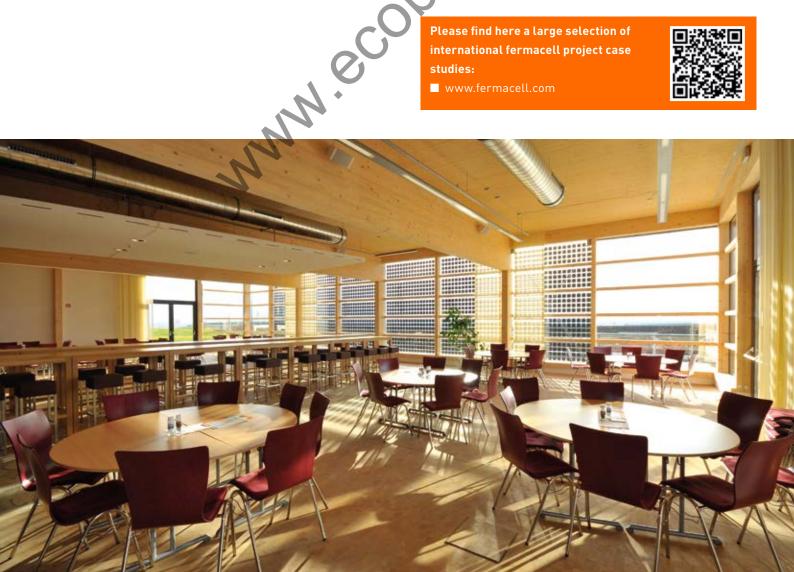
Successful timber construction companies have used **fermacell** Gypsum Fibreboards for over 40 years to ensure professional yet cost-effective construction.

Timber construction techniques reduce construction times significantly in comparison with solid masonry construction, in both new build and modernisation projects, partly because they allow long drying times to be avoided. The streamlined designs also save space and make it possible to implement economic solutions.

Please find here a large selection of international fermacell project case

www.fermacell.com





2.2 fermacell Flooring Elements

Besides panels for wall and ceiling linings, fermacell also offers top-quality flooring elements that fulfil a variety of floor requirements with their different systems configurations.

fermacell flooring solutions are designed for use as floating floors in a wide variety of applications. Manufactured from **fermacell** Gypsum Fibreboards or Powerpanel $\rm H_2O$, they give a dry, robust, and simple solution for your flooring requirements. Used in conjunction with fermacell to the ceiling, the flooring elements provide a wide variety of solutions as a complete floor/ceiling specification. There are five main areas of use for fermacell flooring, and the constructions vary slightly according to the specific application.

All systems share the same basic technology, which involves a continuous floating membrane that can be installed and used within 24 hours, and which is ready to accept a wide range of floor finishes.

- Improving acoustic insulation: types 2 E 31 and 2 E 32
- Floor heating: types 2 E 22
- Levelling uneven floors: a range of solutions is available from 0+2,000 mm.
- Improving thermal insulation: types 2 E 13 and 2 E 14
- Wet-room floors: fermacell Powerpanel TE







Please find here our latest installation video for fermacell flooring elements:

■ www.fermacell.com





Convenient format

fermacell Flooring Elements can be installed by one person.



Best sound insulation

Impact sound insulation can be improved considerably with

fermacell Flooring Elements.



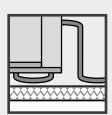
Rapid useability

The flooring elements can be walked on and covered as soon as the floor glue has hardened. They can even withstand chair rollers.



Safe fire protection

The proven construction means that fire protection is no problem either.



Ideal for underfloor heating

fermacell Flooring Elements are also ideal for underfloor heating.



Fast installation

The proven overlap creates a reliable joint and makes installation fast, easy, and flexible.

fermacell Powerpanel

The cement-bonded construction panels with exceptional resistance for both inside and outside.

Our Powerpanel product family is used wherever building materials are exposed to considerable strain—particularly from Majil.coll water or 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. Thanks to the individual formulations, these panels can be given very specific properties for special applications.





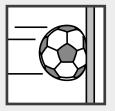






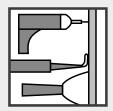
Suitable for wet rooms

Hard-wearing and resistant against water in interior and exterior areas. Particularly suitable for domestic and public rooms, e. g. bathrooms, kitchens, and swimming pools.



Light and impact resistant

fermacell Powerpanel boards have low weight, are sturdy, and able to withstand mechanical loading.



Easy to install

fermacell Powerpanel can be installed without any special tools.



Easy to fix

Powerpanel H₂O boards can be screwed or stapled to the substructure.



Unique jointing system

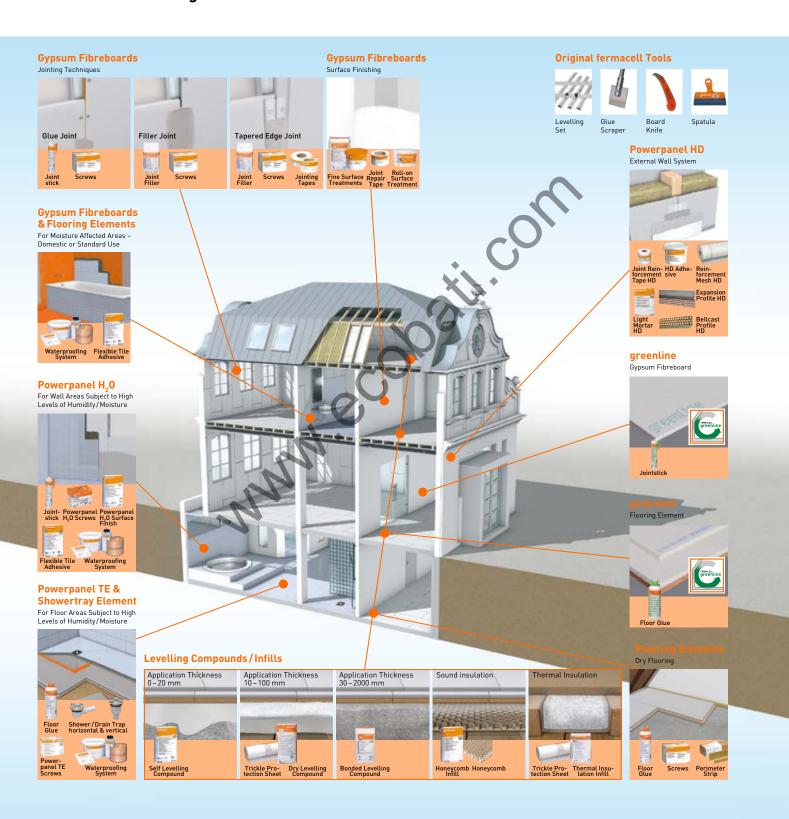
Glued, square-edge Powerpanel H₂O boards produce a continuous membrane.



Rapid finish

fermacell Powerpanel FST (FINE SUR-FACE TREATMENT) produces a highquality finish.

2.4 Products at a glance



Key advantages

3.1 Reliable fire protection

With fermacell, the increasing fire safety requirements for both private and public buildings can be fulfilled economically and reliably.

fermacell Gypsum Fibreboards, approved under ETA 03/0050, are classified as A2-s1, d0 in accordance with EN 13501-1 (non-combustible). Fire-resistant constructions (30 to 120 minutes) can therefore be produced even with 10 mm thick fermacell board. These products have been awarded test certificates by European and international material testing agencies for wall and ceiling constructions.

Safety for hallways, staircases, attic conversions, and any spaces where building regulations require fire protection, complete reconstruction with fermacell, with no need to change the material used. fermacell even offers ideal solutions for multi-storey timber frame construction, which is gaining in popularity.

fermacell Firepanel A1

Because fire protection testing for building materials has been harmonised across Europe, certain building elements in a variety of application areas can, in many countries, only be produced with non-combustible materials A1. The national classes were superseded by the European classification

system. The new **fermacell** Firepanel A1 fulfils these stringent requirements, offering a safe solution for preventive structural fire protection in Europe.

fermacell AESTUVER

Lastly, fermacell's fire protection expertise also includes one of the leading brands in structural fire protection. Besides fire protection systems solutions, fermacell AESTUVER carries a wide choice of products for bulkheads, fire protection coatings, and fire protection joints.







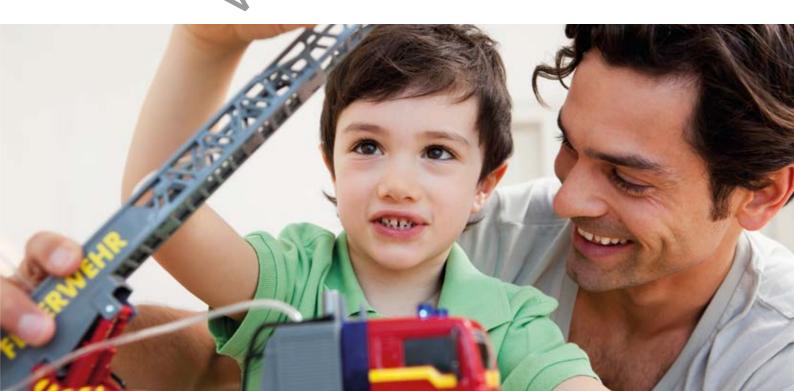


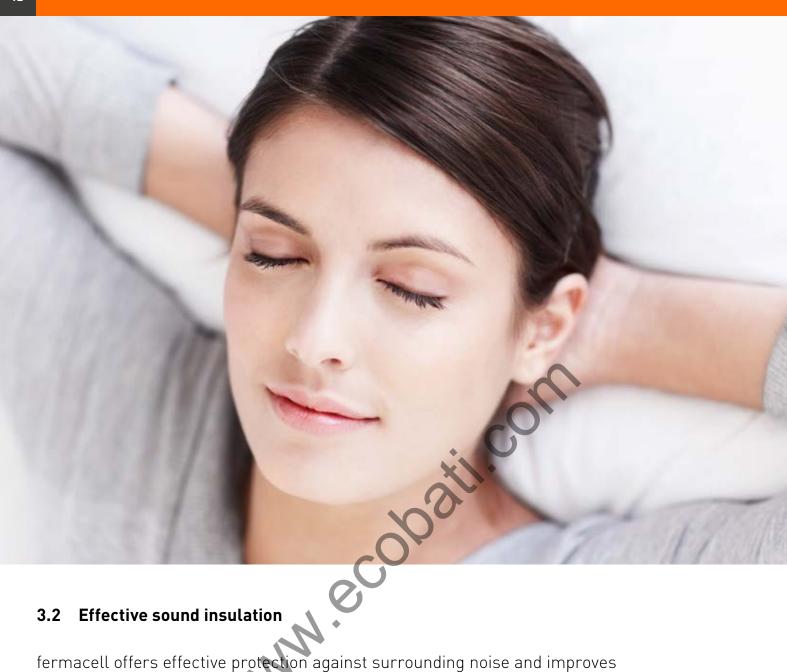


For additional information please visit the fermacell AESTUVER website:

■ www.fermacell-aestuver.com







Effective sound insulation

fermacell offers effective protection against surrounding noise and improves acoustic comfort.

Tests conducted by various institutes confirm the outstanding sound-insulating properties of **fermacell** Gypsum Fibreboards and Powerpanel products, which from their homogeneous board structures. Constructions using fermacell prefabricated walls with cavity-free insulation, tested in accordance with established standards, achieve sound insulation values ranging from 43 dB $R_{\rm w}$ to 64 dB $R_{\rm w}$

depending on the position of the room within the building. With their streamlined design, these walls also help to save space, have a low weight, and easily accomodate changes in the floor plan.

These advantages play a significant role, particularly in the construction of offices, hotels, schools, clinics, and private homes.

3.3 Stability and impact strength

Stability

Both professionals and DIY enthusiasts appreciate the special resilience of **fermacell** Gypsum Fibreboards. Wall cupboards, shelves, and many other items can be fixed firmly without having to be connected to the substructure. In property construction, this also makes fitting handrails, brackets for heavy equipment, or information boards much easier.

A screw with a cavity dowel in a 12.5 mm thick **fermacell** Gypsum Fibreboards can support a bracket weighing up to 50 kg. When fixing items to ceilings, such as heavy lamps, fermacell can bear a weight of up to 22 kg per screw with the same board thickness and using a kipp handle or spring toggle bolt.

Impact strength

The special manufacturing process ensures that the gypsum reacts with the water, penetrating and enveloping the recycled paper fibres. This produces the high stability of the **fermacell** Gypsum Fibreboards. The high mechanical resilience of fermacell is particularly evident in buildings such as schools, sports halls, kindergartens, hospitals, and hotels—wherever impact stress can be caused by people or objects.

Impact resistance

In areas with particularly stringent requirements in terms of stability, e. g. sports halls, the use of impact-resistant designs with **fermacell** Gypsum Fibreboards or Powerpanel $\rm H_2O$ allows surfaces to remain functional over the long term.



3.4 Healthy living

fermacell greenline is a revolutionary building board manufactured by fermacell that absorbs and neutralises for good volatile organic compounds (VOCs) from the air. It considerably improves the quality of the air in buildings and constructions and brings us one step closer to the dream of a zero-emissions home. **fermacell** greenline is manufactured without compromise to the renowned properties of the fermacell multi-purpose building board—retaining its superior impact, acoustic, and moisture-resistant qualities whilst answering the call for an environmentally friendly and sustainable product.

Environmentally friendly production methods and products are fermacell's primary business objectives.









Its unique manufacturing techniques produce a building board of great quality, flexibility, and strength, which is made completely from recycled materials, making it a totally sustainable product that is ideal for walls, ceilings, or floors.

Both the product and the process have been awarded the coveted Rosenheim Institute of Construction Biology and Ecology certificate.

At the end of the board's manufacturing process the panel surfaces are coated with keratin. It possesses properties, which embed harmful substances in its molecular structure, so that they become insoluble, and the harmful substances are thus neutralised

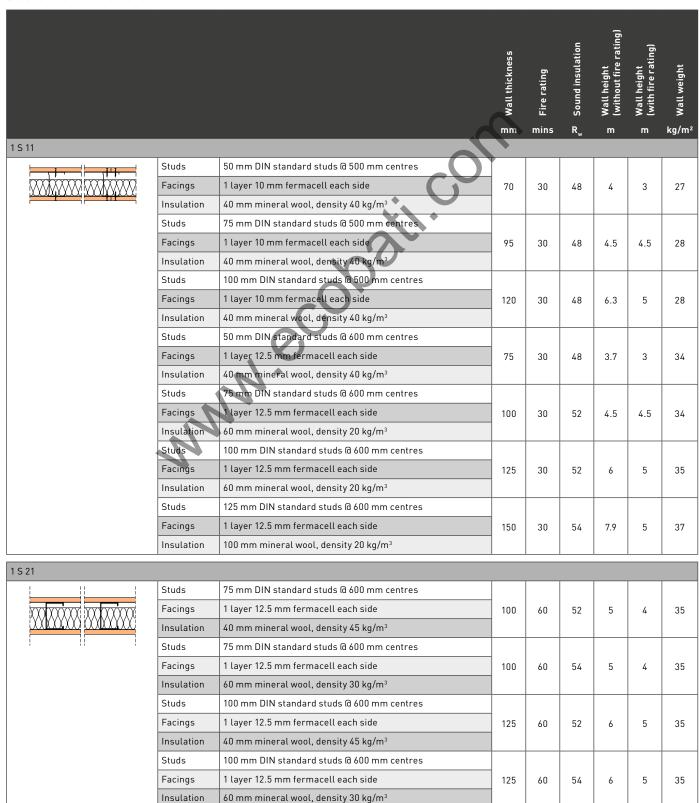
The purifying properties of the board remain active and fermacell greenline was tested and certified in a comprehensive study by the independent eco-institute of Cologne.



4 System performances

4.1 System specifications

Steel studs with insulation



Steel studs with insulation

Steet studs with insutation	•										
			3 Wall thickness	sui Fire rating	ع Soundinsulation	Wall height 3 (without fire rating)	Wall height F (with fire rating)	kg/w "Wall weight			
1 S 24											
	Studs	50 mm DIN standard studs @ 600 mm centres									
	Facings	1 layer 12,5 mm fermacell each side plus 1 layer 10 mm fermacell each outer side	95	60	59	4	4	58			
	Insulation	40 mm mineral wool, density 20 kg/m ³									
i ii i		. , ,									
1 S 25											
	Studs	2×75 mm DIN standard studs @ 600 mm centres		\ \		3.5 ²⁾ ,	3.5 ²⁾ ,				
	Facings	1 layer 12.5 mm fermacell each side	≥ 180	60	60	4 ^{1]} , 5 ^{3]}	4 ^{1]} , 5 ^{3]}	38			
	Insulation	60 mm mineral wool, density 30 kg/m³				,					
	Studs	2×75 mm DIN standard studs @ 600 mm centres				3.5 ²⁾ ,	3.5 ² ,				
	Facings	1 layer 12.5 mm fermacell each side	≥ 180	60	57	5 ¹ , 6 ³	5 ¹⁾ , 6 ³⁾	38			
	Insulation	40 mm mineral wool, density 45 kg/m³									
1 S 29		100									
	Studs	50 mm DIN standard studs @ 600 mm centres									
	Facings	1 layers 12.5 mm fermacell each side plus		,	- /	,					
		1 layer 10 mm fermacell outer side	85	60	54	4	3	46			
	Insulation	40 mm mineral wool, density 40 kg/m³									
	Studs	75 mm DIN standard studs @ 600 mm centres									
	Facings	1 layers 12.5 mm fermacell each side plus 1 layer 10 mm fermacell outer side	110	60	56	5	5	46			
	Insulation	70 mm mineral wool, density 30 kg/m³ or 60 mm mineral wool, density 35 kg/m³									
	Studs	100 mm DIN standard studs @ 600 mm centres									
	Facings	1 layers 12.5 mm fermacell each side plus 1 layer 10 mm fermacell outer side	135	60	57	6.65	5	46			
	Insulation	70 mm mineral wool, density 30 kg/m³ or 60 mm mineral wool, density 35 kg/m³									
1 S 31											
	Studs	50 mm DIN standard studs @ 500 mm centres									
	Facings	2 layers 10 mm fermacell each side	90	90	52	4.1	4	57			
	Insulation	40 mm mineral wool, density 100 kg/m³	90								
	Studs	75 mm DIN standard studs @ 500 mm centres									
	Facings	2 layers 10 mm fermacell each side	115	90	60	6.4	4	57			
	Insulation	60 mm mineral wool, density 30 kg/m³									
	Studs	100 mm DIN standard studs @ 500 mm centres									
	Facings	2 layers 10 mm fermacell each side	140	140	140	140 90) 90 <i>6</i>	60 8	8.6 4	4	58
	Insulation	60 mm mineral wool, density 30 kg/m³			60 8.6		,				
		, , , , ,									

¹⁾ Wall thickness, heights, and construction properties quoted are for separated steel stud partitions with U channels and C studs fixed parallel to each other and jointed with an insulation strip (for example a self-adhesive insulation strip). No mechanical bracing across studs.

²¹ Wall thickness, heights, and construction properties quoted are for separated steel stud partitions with U channels and C studs fixed parallel to each other without any jointing between the two separated stud sections.

³⁾ Wall thickness, heights, and construction properties quoted are for separated steel stud partitions with U channels and C studs fixed parallel to each other and connected to each other at <1/3 height with a fillet of board or an off-cut of steel stud.

Steel studs with insulation

			Wall thickness	sur Fire rating	Sound insulation	Wall height (without fire rating)	Wall height (with fire rating)	kg/Wall weight
1 S 31 (continued)								
	Studs	50 mm DIN standard studs @ 600 mm centres						
	Facings	1 layer 12.5 mm fermacell each side plus 1 layer 10 mm fermacell each outer side	90	90	50	4	4	58
	Insulation	50 mm mineral wool, density 50 kg/m³ or 60 mm mineral wool, density 30 kg/m³						
	Studs	50 mm DIN standard studs @ 600 mm centres						
	Facings	2 layers 12.5 mm fermacell each side	100	90	50	4	4	64
	Insulation	50 mm mineral wool, density 50 kg/m³ or 60 mm mineral wool, density 30 kg/m³						
	Studs	75 mm DIN standard studs @ 600 mm centres						
		1 layer 12.5 mm fermacell each side plus 1 layer 10 mm fermacell each outer side	120	90	62	6.1	5.5	58
	Insulation	60 mm mineral wool, density 30 kg/m³						
	Studs	75 mm DIN standard studs @ 600 mm centres						
	Facings	2 layers 12.5 mm fermacell each side	125	90	62	6.5	5.5	64
	Insulation	60 mm mineral wool, density 30 kg/m³						
	Studs	100 mm DIN standard studs @ 600 mm centres						
	Facings	1 layer 12.5 mm fermacell each side plus 1 layer 10 mm fermacell each outer side	145	90	62	8.5	6.5	59
	Insulation	60 mm mineral wool, density 30 kg/m³						
	Studs	100 mm DIN standard studs @ 600 mm centres						
	Facings	2 layers 12.5 mm fermacell each side	150	90	62	8.95	6.5	65
	Insulation	60 mm mineral wool, density 30 kg/m³						
	Studs	100 mm DIN standard studs @ 600 mm centres						
	Facings	2 layers 12.5 mm fermacell each side	150	120	62	8.95	4.5	65
	Insulation	50 mm mineral wool, density 50 kg/m³						
	Studs	125 mm DIN standard studs @ 600 mm centres						
	Facings	1 layer 12.5 mm fermacell each side plus 1 layer 10 mm fermacell each outer side	170	90	62	10.4	7.5	59
	Insulation	60 mm mineral wool, density 30 kg/m³]					
	Studs	125 mm DIN standard studs @ 600 mm centres						
	Facings	2 layers 12.5 mm fermacell each side	175	90	62	10.8	7.5	65
	Insulation	50 mm mineral wool, density 50 kg/m³						
1 S 33			·					
! !! !	Studs	75 mm DIN standard studs @ 900 mm centres						
	Facings	1 layer 18 mm fermacell each side	111	90	57	4	4	50
	Insulation	60 mm mineral wool, density 50 kg/m³	'''	, ,	0,		-	
	Studs	100 mm DIN standard studs @ 900 mm centres	136					
	Facings	1 layer 18 mm fermacell each side		90	57	6.05	5	50
	Insulation	60 mm mineral wool, density 50 kg/m³	.55		· ·			50
	Studs	100 mm DIN standard studs @ 900 mm centres						
	Facings	1 layers 18 mm fermacell each side	136 1	136 120	57	4.5	4.5	50
	Insulation	80 mm mineral wool, density 50 kg/m³	.55	123	0,	1.5	7.5	
		,,,	1		<u> </u>		1	

Steel studs with insulation

			Wall thickness	. Fire rating	Sound insulation	Wall height (without fire rating)	Wall height (with fire rating)	· Wall weight	
1 \$ 41			mm	mins	R _w	m	m	kg/m²	
1 5 41	Studs	75 mm DIN standard studs @ 600 mm centres							
	Facings	1 layer 15 mm fermacell each side plus 1 layer 12.5 mm fermacell each outer side	135	120	62	5.5	5	76	
	Insulation	50 mm mineral wool, density 50 kg/m3							
	Studs	100 mm DIN standard studs @ 600 mm centres							
	Facings	1 layer 15 mm fermacell each side plus 1 layer 12.5 mm fermacell each outer side	160 120	62	6.5	6	77		
	Insulation	50 mm mineral wool, density 50 kg/m³							
	Studs	125 mm DIN standard studs @ 600 mm centres							
	Facings	1 layer 15 mm fermacell each side plus 1 layer 12.5 mm fermacell each outer side		120	62	7	6.5	77	
	Insulation	50 mm mineral wool, density 50 kg/m³							
1 S 51									
	Studs	100 mm DIN standard studs @ 600 mm centres							
	Facings	2 layers 12.5 mm fermacell each side plus 1 layer 10 mm fermacell each outer side	170	180	64	6.5	6	89	
	Insulation	80 mm mineral wool, density 50 kg/m³							
	Studs	125 mm DIN standard studs @ 600 mm centres							
	Facings	2 layers 12.5 mm fermacell each side plus 1 layer 10 mm fermacell each outer side	195	195 180	180	64	7	6.5	89
	Insulation	80 mm mineral wool, density 50 kg/m³							

Steel studs without insulation

	4		3 Wall thickness	sui Fire rating	ک Sound insulation	Wall height (without fire rating)	Wall height (with fire rating)	y Wall weight
1 S 15	_					_	_	
	ituds	50 mm DIN standard studs @ 600 mm centres					•	0.4
	acings	1 layer 12.5 mm fermacell each side	75	30	41	3	3	31
St.	ituds	75 mm DIN standard studs @ 600 mm centres	100	20		, -	, -	20
Fa	acings	1 layer 12.5 mm fermacell each side	100	30	43	4.5	4.5	32
St	ituds	100 mm DIN standard studs @ 600 mm centres	405			,	_	
Fa	acings	1 layer 12.5 mm fermacell each side	125	30	43	6	5	33
St	ituds	125 mm DIN standard studs @ 600 mm centres	450	00		F.0		0,1
Fa	acings	1 layer 12.5 mm fermacell each side	150	30	43	7.9	5.5	34
St	ituds	75 mm DIN standard studs @ 600 mm centres	405			, -	, -	00
Fa	acings	1 layer 15 mm fermacell each side	105	60	43	4.5	4.5	38

Steel studs without insulation

			Wall thickness	Fire rating	Sound insulation	Wall height (without fire rating)	Wall height (with fire rating)	Wall weight
			mm	mins	$R_{\rm w}$	m	m	kg/m²
1 S 16								
	Studs	75 mm DIN standard studs @ 600 mm centres						
	Facings	1 layers 12.5 mm fermacell each side plus 1 layer 10 mm fermacell each outer side	110	30	46	4.85	4.5	44
	Studs	100 mm DIN standard studs @ 600 mm centres						
	Facings	1 layers 12.5 mm fermacell each side plus 1 layer 10 mm fermacell each outer side	135	30	48	6.65	5	45
	Studs	125 mm DIN standard studs @ 600 mm centres						
	Facings	1 layers 12.5 mm fermacell each side plus 1 layer 10 mm fermacell each outer side	160	30	48	8.35	5.5	46
1 S 22		20						
1322	Studs	75 mm DIN standard studs @ 600 mm centres						
			125	60	52	6.5	5.5	63
	Facings Studs	2 layers 12.5 mm fermacell each side 150 mm DIN standard studs @ 600 mm centres						
	Facings 2 layers 12.5 mm fermacell each side	150	60	54	8.95	6.5	63	
	Studs	175 mm DIN standard studs @ 600 mm centres						
			175	60	54	10.8	7.5	64
	Facings	2 layers 12.5 mm fermacell each side						
1 S 23		7.0						
	Studs	75 mm DIN standard studs @ 600 mm centres						
	Facings	1 layer 12.5 mm plus 10 mm fermacell each side plus 1 layer 10 mm fermacell outer side	130	60	57	7.65	5.5	67
	Studs	100 mm DIN standard studs @ 600 mm centres						
1 1	Facings	1 layer 12.5 mm plus 10 mm fermacell each side plus 1 layer 10 mm fermacell outer side	155	60	59	9.7	6.5	68
	Studs	125 mm DIN standard studs @ 600 mm centres						
	Facings	1 layer 12.5 mm plus 10 mm fermacell each side plus 1 layer 10 mm fermacell outer side	180	60	59	11.25	7.5	69
1 S 35								
	Studs	75 mm DIN standard studs @ 600 mm centres						
	Facings	2 layers 12.5 mm fermacell each side plus 1 layer 10 mm fermacell each outer side	145	90	60	9.35	6.5	79
	Studs	100 mm DIN standard studs @ 600 mm centres						
	Facings	2 layers 12.5 mm fermacell each side plus 1 layer 10 mm fermacell each outer side	170	90	62	11.25	7.5	80
	Studs	125 mm DIN standard studs @ 600 mm centres						
	Facings	2 layers 12.5 mm fermacell each side plus	195	90	62	12	8.5	81
	rucings	1 layer 10 mm fermacell each outer side						

Timber walls with insulation—non-load-bearing

rimber watts with insulation	on non toda	bearing					
			3 Wall thickness	sur Fire rating	ع Sound insulation	3 Wall height	wall weight
1 H 11					,, ^w		Kg/III
1 11 11	Battens	60×40 mm @ 600 mm centres					
		1 layer 12.5 mm fermacell each side	0.5	20	44	2.1	20
	Facings Insulation	40 mm mineral wool, density 30 kg/m ³	85	30	44	3.1	38
		80×40 mm @ 600 mm centres					
	Battens		405				,,
	Facings	1 layer 12.5 mm fermacell each side	105	30	44	4.1	40
	Insulation	40 mm mineral wool, density 30 kg/m³					
	Battens	75×50 mm @ 600 mm centres					
	Facings	1 layer 12.5 mm fermacell each side	100	30	47	4.1	41
	Insulation	70 mm mineral wool, density 30 kg/m³					
	Battens	89×38 mm @ 600 mm centres					
	Facings	1 layer 12.5 mm fermacell each side	114	30	44	4.1	40
	Insulation	40 mm mineral wool, density 30 kg/m³					
1 H 22							
1 11 1	Battens	75×50 mm @ 600 mm centres					
	Facings	1 layer 12.5 mm fermacell each side					
	Insulation	40 mm mineral wool, density 45 kg/m³ or	100	60	44	4.1	40
		60 mm mineral wool, density 30 kg/m³					
	Battens	75×50 mm @ 600 mm centres					
	Facings	1 layer 12.5 mm fermacell each side	100	60	47	4.1	40
	Insulation	70 mm mineral wool, density 30 kg/m³					
	Battens	89×38 mm @ 600 mm centres					
	Facings	1 layer 12.5 mm fermacell each side	114	60	44	4.1	41
	Insulation	40 mm mineral wool, density 45 kg/m³ or	114		44	4.1	4'
		60 mm mineral wool, density 30 kg/m³					
	Battens	89×38 mm @ 600 mm centres					
	Facings	1 layer 12.5 mm fermacell each side	114	60	47	4.1	41
	Insulation	70 mm mineral wool, density 30 kg/m³					
1 H 31							
	Battens	60×40 mm @ 600 mm centres					
F//2	Facings	1 layer 12.5 mm fermacell each side plus					
		1 layer 10 mm fermacell each outer side	105	90	51	3.1	62
	Insulation	50 mm mineral wool, density 50 kg/m³ or 70 mm mineral wool, density 30 kg/m³					
	Battens	80×40 mm @ 600 mm centres					
	Facings	1 layer 12.5 mm fermacell each side plus	125	90	51	4.1	64
	Insulation	1 layer 10 mm fermacell each outer side 40 mm mineral wool, density 30 kg/m³					
	Battens	75×50 mm @ 600 mm centres					
	Facings	1 layer 12.5 mm fermacell each side plus 1 layer 10 mm fermacell each outer side	120	90	51	4.1	64
	Insulation	70 mm mineral wool, density 30 kg/m³					
	Battens	89×38 mm @ 600 mm centres					
	Facings	1 layer 12.5 mm fermacell each side plus 1 layer 10 mm fermacell each outer side	134	90	51	4.1	64
	Insulation	40 mm mineral wool, density 30 kg/m³					
		, ,					

Steel walls—Powerpanel H_2O

			Wall thickness	s sire rating	s Soundinsulation	Wall height (without fire rating)	Wall height (with fire rating)	y S Wallweight
1 S 11 H ₂ 0								
	Studs	75 mm DIN standard studs @ 600 mm centres						
	Facings	1 layer 12.5 mm Powerpanel H ₂ O each side	100	30	49	4	4	30
	Insulation	60 mm mineral wool, density 25 kg/m³						
	Studs	100 mm DIN standard studs @ 600 mm centres						
	Facings	1 layer 12.5 mm Powerpanel H ₂ O each side	125	30	49	4.5	4.5	30
	Insulation	60 mm mineral wool, density 25 kg/m³						
1 S 12 H ₂ 0								
	Studs	50 mm DIN standard studs @ 600 mm centres	T					
	Facings	1 layer 12.5 mm fermacell one side plus						
	1 delligs	1 layer 12.5 mm Powerpanel H ₂ 0 other side	75	30	49	3.7	3	33
	Insulation	40 mm mineral wool, density 50 kg/ m ³						
	Studs	75 mm DIN standard studs @ 600 mm centres						
	Facings	1 layer 12.5 mm fermacell one side plus 1 layer 12.5 mm Powerpanel H ₂ O other side	100	30	51	4.2	4.2	33
	Insulation	60 mm mineral wool, density 25 kg/m³						
	Studs	100 mm DIN standard studs @ 600 mm centres						
	Facings	1 layer 12.5 mm fermacell one side plus 1 layer 12.5 mm Powerpanel H ₂ O other side	125	30	51	6	5	33
	Insulation	60 mm mineral wool, density 25 kg/m³						
1 S 41 H ₂ 0								
	Studs	75 mm DIN standard studs @ 600 mm centres						
MANY MANY	Facings	2 layers 12.5 mm Powerpanel H ₂ O each side	125	90	57	4	4	55
	Insulation	60 mm mineral wool, density 25 kg/m³						
	Studs	100 mm DIN standard studs @ 600 mm centres						
	Facings	2 layers 12.5 mm Powerpanel H ₂ O each side	150	90	57	5.85	5.85	55
	Insulation	60 mm mineral wool, density 25 kg/m³						
1 S 42 H ₂ 0								
!!!!!	Studs	75 mm DIN standard studs @ 600 mm centres						
	Facings	1 layer 12.5 mm fermacell each side plus 1 layer 12.5 mm Powerpanel H ₂ O each outer side	125	120	60	4.85	4.85	60
		60 mm mineral wool, density 25 kg/m³						
	Studs	100 mm DIN standard studs @ 600 mm centres						
	Facings	1 layer 12.5 mm fermacell each side plus 1 layer 12.5 mm Powerpanel H ₂ O outer side	150	120	60	7.45	6.5	60
	Insulation	60 mm mineral wool, density 25 kg/m³						
	moditation	33 Miler de Wood, delisity 25 kg/iii						

$\ \, \text{Timber walls--Powerpanel H}_2 \text{O}$

1 H 21 H ₂ 0			3 Wall thickness	w s Fire rating	Sound insulation	Wall height Without fire rating)	Wall height (with fire rating)	kg/Wall weight
	Battens	60×40 mm @ 600 mm centres						
	Facings	1 layer 12.5 mm Powerpanel H ₂ O each side	85	60	42	3.1	3.1	33
	Insulation	60 mm mineral wool, density 25 kg/m³						
	Battens	75×50 mm @ 600 mm centres						
	Facings	1 layer 12.5 mm Powerpanel H ₂ O each side	100	60	42	4.1	4.1	35
	Insulation	60 mm mineral wool, density 25 kg/m³						
	Battens	89×38 mm @ 600 mm centres	11					
	Facings	1 layer 12.5 mm Powerpanel H ₂ O each side	114	60	42	4.1	4.1	36
	Insulation	60 mm mineral wool, density 25 kg/m³						

Steel walls—Firepanel A1

			Wall thickness	Fire rating DIN 4102 (EN 13501)	Sound insulation (without insulation)	Sound insulation (with insulation) ₁₁	Wall height (without fire rating)	Wall height (with fire rating)	Wall weight		
			mm	mins	$R_{\rm w}$	$R_{\rm w}$	m	m	kg/m²		
1 S 31 A1											
	Studs	50 mm DIN standard studs @ 600 mm centres	90		≥ 48	56	4	3	50		
XXXXXXXX	Facings	2 layers 10 mm Firepanel A1 each side			» 40	50			30		
	Studs	75 mm DIN standard studs @ 600 mm centres	115		≥ 48	60	5	3	50		
	Facings	2 layers 10 mm Firepanel A1 each side	113	90	, 40				30		
	Studs	100 mm DIN standard studs @ 600 mm centres	140		≥ 48	60	5	3	50		
	Facings	2 layers 10 mm Firepanel A1 each side	140		× 40	00	J		30		
	Studs	125 mm DIN standard studs @ 600 mm centres	165		_ / 0	≥ 48 60	5	3	51		
	Facings	2 layers 10 mm Firepanel A1 each side	103		» 40	00	J		31		
1 S 41 A1											
	Studs	75 mm DIN standard studs @ 600 mm centres	105		F,		,		.,		
777777	Facings	2 layers 12.5 mm Firepanel A1 each side	125		54	62	4	3	64		
	Studs	100 mm DIN standard studs @ 600 mm centres	T	150 40		1		/0	,	_	,,
	Facings	2 layers 12.5 mm Firepanel A1 each side	150	120	56	62	4	3	64		
	Studs	125 mm DIN standard studs @ 600 mm centres	175		56 62	/2	4 3	2			
	Facings	2 layers 12.5 mm Firepanel A1 each side	1/5	175	36	02	4	3	64		

^{1]} Mineral wool thickness ≥ 40 mm

fermacell Flooring Elements

Termacent Frooring Etements							
		J Thickness	Eire ratingfrom above	B) [V/Y] [V/Thermal (M/Y) [V/Y) [V/Y)	x Admissible Z point loading	Areas of application	by Element y weight
2 E 11							
	20 mm flooring element	20	30	0.06	2	1 + 2	0.23
2 E 22							
	25 mm flooring element	25	60	0.08	3	1+2+3	0.29
2 E 13							
	20 mm flooring element plus 20 mm rigid foamed polystyrene	40	30	0.56	2	1 + 2	0.23
2 E 14	**						
	20 mm flooring element plus 30 mm rigid foamed polystyrene	50	30	0.81	2	1 + 2	0.24
2 E 23	-0-						
	25 mm flooring element plus 20 mm rigid foamed polystyrene	45	60	0.58	3	1+2+3	0.29
2 E 31							
	20 mm flooring element plus 10 mm wood fibre insulating slab	30	90	0.26	3	1+2+3	0.25
2 E 33							
	25 mm flooring element plus 10 mm wood fibre insulating slab	35	90	0.28	3	1+2+3	0.31
2 E 32							
	20 mm flooring element plus 10 mm mineral wool insulating slab	30	90	0.28	1	1	0.25
2 E 35							
	25 mm flooring element plus 20 mm mineral wool insulating slab	45	90	0.31	1	1	0.33
Powerpanel TE							
	25 mm Powerpanel flooring element for wet areas	25	30	0.14	3	1+2+3	0.25
	,						

	Areas of application	Category in Accordance to DIN EN 1991-1-1/NA:2010-12	Admissible Point Loading kN	Admissible Surface Load kN/m²
1	Rooms and hallways in residential buildings and hotel rooms, including associated kitchens and bathrooms.	A2/A3	1.0	1.5/2.0
2	Hallways in office buildings, office spaces, doctors' practices without heavy equipment, hospital wards, and lounges including hallways.	B1	2.0	2.0
	Salesroom areas with floor surfaces of up to $50\ m^2$ in residential, office, and similar buildings.	D1	2.0	2.0
3	Hallways and kitchens in hotels and retirement homes without heavy equipment, hallways in boarding schools, etc. Treatment rooms in hospitals including operating theatres without heavy equipment; cellar rooms in residential buildings.	B2	3.0	3.0
	Surfaces with tables, e.g. school rooms, cafés, restaurants, dining rooms, reading	C1	3.0	4.0
	rooms, reception rooms, day nurseries, crèches, and staff rooms.	(deviating from DIN EN 1991-1-1)	(4.0)	(3.0)
4	Hallways in hospitals (deviating from DIN EN 1991-1-1) as well as all examples from B1 and B2, but with heavy equipment.	B3	4.0	5.0
	Surfaces in churches, theatres or cinemas, conference rooms, lecture rooms, and waiting rooms.	C2	4.0	4.0
	Freely accessible surfaces, e.g. museum areas, exhibition areas, entrance areas in public buildings and hotels, as well as hallways belonging to categories C1 to C3.	4.0	5.0	
	Surfaces for large gatherings of people, e.g. in buildings such as concert halls.	4.0	5.0	
	Surfaces in retail shops and department stores.	D2	4.0	5.0

4.2 Board dimensions

1200×1200 mm

fermacell Gypsum Fibreboards				
Format		Thickness		
	10 mm	12.5 mm	15 mm	18 mm
		Basis	weight	
	11.5 kg/m²	15 kg/m²	18 kg/m²	21 kg/m²
1000×1500 mm	•	•	•	•
1200×2000 mm	•	1		
1200×2500 mm	•	•	•	•
1200×2600 mm	•	•	•	•
1200×3000 mm	•	•	•	•
Specially cut sizes on request				

fermacell Gypsum Fibreboards tapered edge on 2 sides				
Format	Thickness			
	10 mm	12.5 mm	15 mm	
		Basis weight		
	11.5 kg/m²	15 kg/m²	18 kg/m²	
1200×2500 mm	•	•		
1200×2600 mm	•	•	•	
1200×3000 mm	•	•	•	
	fermacell Gypsum Fibreboards—tapered edge on 4 sides			

on request

fermacell greenline—naturally neutralises VOCs				
Format	Thickness			
	10 mm	12.5 mm	15 mm	
	Basis weight			
	11.5 kg/m²	15 kg/m²	18 kg/m²	
1500×1000 mm	•	•	•	
1200×3000 mm	•	•	•	
fermacell greenline—tapered edge on 2 sides				
1200×2600 mm	•	•	•	
fermacell greenline—tapered edge on 4 sides				
1200×2000 mm	•	•	•	

fermacell Firepanel A1			
Format	Thickness		
	10 mm	12.5 mm	15 mm
		Basis weight	
	11.5 kg/m²	15 kg/m²	18 kg/m²
1200×2000 mm	•	•	•
1200×2600 mm	•	•	•
Other cut sizes and deliver	y date on request		

fermacell	fermacell Flooring Elements		
Туре	Construction	Thickness	
2 E 11	2×10 mm fermacell	20 mm	
2 E 13	2×10 mm fermacell + 20 mm rigid foamed polystyrene	40 mm	
2 E 14	2×10 mm fermacell + 30 mm rigid foamed polystyrene	50 mm	
2 E 22	2×12.5 mm fermacell	25 mm	
2 E 23	2×12.5 mm fermacell + 20 mm rigid foamed polystyrene	45 mm	
2 E 31	2×20 mm flooring element + 10 mm wood fibre insulating slab	30 mm	
2 E 32	2×10 mm fermacell + 10 mm mineral wool	30 mm	
2 E 33	2×25 mm flooring element + 10 mm wood fibre insulating slab	35 mm	
2 E 35	2×12.5 mm fermacell + 20 mm mineral wool	45 mm	

Dimensions: $1.50 \times 0.50 \text{ m} = 0.75 \text{ m}^2$

fermacell greenline Flooring Elements—naturally neutralises VOCs		
Туре	Construction	Thickness
2 E 11gl	2×10 mm greenline	20 mm
2 E 22gl	2×12.5 mm greenline	25 mm
2 E 31gl	2×10 mm greenline + 10 mm wood fibre insulating slab	30 mm

fermacell Flooring Elements Powerpanel TE		75
Format	Construction	Thickness
500×1250 mm	2×12.5 mm Powerpanel H ₂ 0	25 mm
Dimensions: 1.25	× 0.50 m = 0.625 m ²	10

 fermacell Powerpanel H₂0

 Format
 Thickness

 1200×1000 mm
 12.5 mm

 1200×2000 mm
 12.5 mm

 1200×3010 mm
 12.5 mm

 Other cut sizes and delivery date on request

Weight: 12.5 kg/m²

fermacell Powerpanel HD		
Format	Thickness	
1250×1000 mm	15 mm	
1200×2600 mm	15 mm	
1200×3000 mm 15 mm		
Other cut sizes and delivery date on request		

Weight: 15 kg/m²

4.3 Board data

fermacell Gypsum Fibreboards and fermacell greenline		
Certificates		
European Technical Approval	ETA-03/0050	

Dimensional tolerances at constant humidity—board dimensions		
Length, width	± 0 to -2 mm	
Diagonal difference	≤ 2 mm	
Thickness	± 0.2 mm	

Data	
Reaction to fire (according to EN 13501-1)	non-combustible, A2
Marking according to DIN EN 15283-2	GF-I-W2-C1
Nominal density (production target) ρ_{κ}	1 150 ± 50 kg/m³
Vapour resistance µ	13
Thermal conductivity λ	0.32 W/mK
Specific heat capacity	1.1 kJ/kgK
Brinell hardness	30 N/mm²
Swelling after 24 hrs saturation	< 2%
Thermal coefficient of expansion	0.001%/K
Expansion/shrinkage on alteration of the relative humidity of 30% (20°C)	0.25 mm/m
Moisture content at 65% relative air humidity and 20°C air temperature	1.3%
pH value	7–8

Characteristic stiffness values of fermacell Gypsum Fibreboards, fermacell greenline and fermacell Vapor in N/mm²		
Perpendicular to the board surface		
E-modulus bending E _{m,mean}	3800	
Shearing modulus G _{mean}	1600	
Slab stress		
E-modulus bending E _{m,mean}	3800	
E-modulus tension E _{t,mean}	3800	
E-modulus compression E _{c,mean}	3800	
Shearing modulus G	1600	

Characteristic strength values of fermacell Gypsum Fibreboards, fermacell greenline, and fermacell Vapor in N/mm² for design calculations according to DIN 1052 or EN 1995-1-1				
Perpendicular to the plane of the board	Thickness of board			
	10	12.5	15	18
Bending f _{m,k}	4.6	4.3	4.0	3.6
Shear f _{v,k}	1.9	1.8	1.7	1.6
Slab stress				
Bending f _{m,k}	4.3	4.2	4.1	4.0
Tension f _{t,k}	2.5	2.4	2.4	2.3

8.5

3.5

8.5

3.6

3.7

8.5

3.4

Compression $f_{c,k}$

Shear $f_{v,k}$

fermacell Vapor		
Dimensional tolerances at constant humidity—board dimensions		
Length, width	± 0 to -2 mm	
Diagonal difference	≤ 2 mm	
Thickness	± 0.2 mm	

Data	
Reaction to fire (according to EN 13501-1)	non-combustible, A2
Marking according to DIN EN 15283-2	GF-I-W2-C1
Nominal density	1 150 ± 50 kg/m³
Sd value (according to installation situation)	3.1 or 4.5 m
Thermal conductivity λ	0.32 W/mK
Brinell hardness	30 N/mm²
Specific heat capacity	c = 1.1 kJ/kgK
Swelling after 24 hrs saturation	< 2%
Thermal coefficient of expansion	0.001%/K
Expansion/shrinkage on alteration of the relative humidity of 30% (20°C)	0.25 mm/m
Moisture Content at 65% relative air humidity and 20°C air temperature	1.3%
pH value	7–8

fermacell Firepanel A1	(2)
Dimensional tolerances at constant humidity—b	ooard dimensions
Length, Width	± 0 to -2 mm
Diagonal Difference	≤ 2 mm
Thickness	± 0.2 mm

Data	
Reaction to fire (according to EN 13501-1)	non-combustible, A1
Marking according to DIN EN 15283-2	GF-I-W2-C1
IMO FTPC part 1	non-combustible
Building material classification	national/European
Nominal density	1 200 ± 50 kg/m³
Bending strength	> 5.8 N/mm²
Vapour resistance µ	16
Thermal conductivity λ	0.38 W/mK
Expansion/shrinkage on alteration of the relative humidity of 30% (20°C)	0.25 mm/m
Moisture Content at 65% relative air humidity and 20°C air temperature	1.3%
pH value	7–8

fermacell Powerpanel H ₂ 0	
Certificates	
European Technical Approval	ETA-07/0087

Dimensional tolerances at constant humidity—board dimensions		
Length, width	± 1 mm	
Diagonal difference	≤ 2 mm	
Thickness	± 0.5 mm	

Data	
Reaction to fire (according to EN 13501-1)	non-combustible, A1
Nominal density (production target) $ ho_k$	1000 kg/m³
Vapour resistance µ	56 according to DIN EN 12572
Thermal conductivity $\lambda_{_{10,\mathrm{tr}}}$	0.173 W/mK according to DIN EN 12664
Specific heat capacity c _p	1.0 kJ/kgK
Moisture content at 65% relative air humidity and 20°C air temperature	approx. 5%
pH value	approx. 10

Characteristic strength values of 12.5 mm fermacell Powerpanel $\rm H_20$ in $\rm N/mm^2$		
Perpendicular to the board surface		
Bending f _{m,k}	6.0	
Compression f _{c,k}	11.7	

fermacell Powerpanel HD	
Certificates	
European Technical Approval	ETA-13/0609

Dimensional tolerances at constant humidity—board dimensions		
Length, width, thickness	± 1 mm	
Diagonal difference	≤ 2 mm	

Data	
Reaction to fire (according to EN 13501-1)	non-combustible, A1
Nominal density (Production target) $\rho_{\textrm{\tiny K}}$	approx. 1000 kg/m³
Basis weight	approx. 15 kg/m²
Vapour resistance µ*	40
Thermal conductivity λ	0.30 W/mK
Specific heat capacity c _p	1.0 kJ/kgK
Coefficient of thermal expansion (air temperature: -20°C to +75°C)	11.0 · 10-6 1/K
Moisture content at room temperature	ca. 7%
Frost-resistant	

^{*} Powerpanel HD board with proven jointing technology and HD rendering system

Characteristic strength values of 15 mn in N/mm² for design calculations accord		
Perpendicular to the plane of the board		
Bending f _{m,k}	2,1	
Shear f _{v,k}	1.3	

Slab stress	
Bending f _{m,k}	2.1
Tension f _{t,k}	0.7
Compression f _{c,k}	9.7
Shear f _{v,k}	3.0

AESTUVER fire protection boards				
Certificates				
European Technical Approval	ETA-11/0458			

Dimensional tolerances at constant humidity—board dimensions		
Length, width, thickness	± 1 mm	
Diagonal difference	≤ 2 mm	

Data	
Reaction to fire (according to EN 13501-1)	non-combustible, A1
Nominal density (dry)	approx. 700 kg/m³ 1)
Value calculated for thermal conductivity	surface layer 0.136 W/(mK)
Moisture content (20°C, 65% rel. humidity)	approx. 7 weight -%
Moisture absorption (20°C, 65% rel. humidity)	± 5 weight -%
E-modulus	≥ 3 000 N/mm² 1]
Flexural strength	≥ 3.5 N/mm²
Compressive strength (according to DIN 18555)	≥ 9 N/mm² 1)
Alkalinity (pH value)	approx. 12

Sample Value exemplarily for 20 mm boards

Photos:

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