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Screws

For wall and ceiling construction with Fermacell Gypsum Fibreboards

Use

For fixing Fermacell to metal and timber studs and joists.

Properties

Fermacell Screws are characterised by the following properties:

- **Easy to screw in**
  - The optimised thread geometry provides fast penetration and guarantees a perfect perfect hold in the sub-frame
  - Use a Phillips PH2 bit for installing the screws
- **Self Countersinking**
  - The geometry of the head enables perfect countersinking of the screw into the boards
- **Rustproof**
  - Galvanized with a zinc phosphate coating to DIN 50942
- **Suitable for use with most electric screwdrivers**
  - The Fermacell Collated Screws can be installed with most brands of screw guns, eg, Hilti, Makita, Hitachi and Senco.

Usage

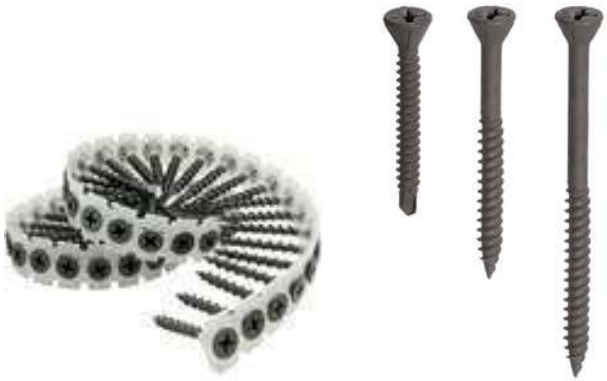
The screws can be used for single and multi-layer fixing of Fermacell boards into timber and metal studwork and joists. Fermacell Drill Tip Screws (3.5 × 30 mm) can be used on metal studwork up to 2 mm in gauge. Fermacell Screws can be fixed close to the edge of the boards (approx. 10 mm) without splitting. Fermacell screws can be screwed directly into the board so no pre-drilling is required.

Screws can be fixed with electric screwdrivers (approx. 500W, with a speed 0-4000 rpm) or with most leading brands of screw guns using compatible drill bits.

Spacing and material specification

Refer to tables starting on page 2.

Figure



Types of screws

Sizes (mm)	3.9 x 30	3.9 x 30 Collated	3.9 x 30 Drill Tip	3.9 x 40	3.5 x 55
Quantity per box	1000/ 250	1000 (50x20)	1000/ 250	1000	1000
Part no:	79011/ 79021	79049	79052/ 79048	79047	79053
EAN no 4007548..	..001601 ..001663	..014007	..014045 ..014038	..014021	..014014
Duty no:	73181290	73181290	73181290	73181290	73181290
Weight per pack	2.1 kg 0.65 kg	2.6 kg	2.1kg/ 0.65kg	2.6 kg	3.4 kg
Pack/ Carton	10/ 40	10	10/ 40ext	10	10
Weight/ Carton	~ 21 kg ~ 26 kg	~ 26 kg	~ 21 kg ~ 26 kg	~ 26 kg	~ 34 kg

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Screws

Type, spacings and usage of fixing single and multi-layers of Fermacell back to steel or timber stud. For non-load bearing partitions.

Walls			
Board thickness /Construction	FERMACELL Screws		
Metal stud - 1 layer	Length [mm]	Spacing [mm]	Usage [No/m²]
10 mm	30	250	26
12.5 mm	30	250	20
15 mm	30	250	20
18 mm	40	250	20
Metal stud – 2-layers. 2nd layer fixed into the stud			
1st layer 10 mm	30	400	16
2nd layer 10 mm	40	250	26
1st layer 12.5 mm or 15 mm	30	400	12
2nd layer 10 mm, 12.5 mm or 15 mm	40	250	20
Metal stud – 3-layers, 1 to 3 layers fixed into the stud			
1st layer 12.5 mm or 15 mm	30	400	12
2nd layer 10 mm or 12.5 mm	40	400	12
3rd layer 10 mm or 12.5 mm	55	250	20
Timber stud – 1 layer			
10 mm	30	250	26
12.5 mm	30	250	20
15 mm	30	250	20
18 mm	40	250	20
Timber stud - 2 layers, 2nd layer fixed into the stud			
1st Layer 10 mm	30	400	16
2nd layer 10 mm	40	250	26
1st layer 12.5 mm	30	400	12
2nd layer 12.5 mm	40	250	20
1st layer 15 mm	40	400	12
2nd layer 12.5 mm or 15 mm	40	250	20
Timber stud - 3 layers, 1 to 3 Layers fixed into the stud			
1st layer 12.5 mm	30	400	12
2nd Layer 10 mm or 12.5 mm	40	400	12
3rd layer 10 mm or 12.5 mm	55	250	20

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Type, spacing and usage of fixing Fermacell board to board.

Walls – fixing board to board			
Board thickness/construction	FERMACELL Screws Screw rows ≤ 40 cm		
Wall division per m^2 wall area	Length [mm]	Spacing [mm]	Usage (no./m^2}
10 on 10 or 12.5	30	250	26
12.5 on 12.5 or 15	30	250	26
15 on 15	30	250	26
18 on 18	40	250	26

- In multiple layer wall constructions with 10 mm Fermacell, the last layer of board can be fastened with 55 mm Fermacell screws directly into the sub-frame.
- In walls with fire protection criteria, fastening intervals differing from this table may be mandated by the relevant test certificates.
- 30 mm FERMACELL Drill Tip Screws can be used to secure 10 mm, 12.5 mm or 15 mm Fermacell boards to steel stud work with a gauge of up to 2mm. You should use approx. 4 screws per metre run of board.

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Spacing and use of fixings in ceilings per m² of ceiling area.

Ceilings			
Board thickness/Construction	FERMACELL Screws		
Metal– 1-layer	Length [mm]	Spacing [mm]	Usage [Amount/m²]
10 mm	30	200	22
12.5 mm	30	200	19
15 mm	30	200	16
Metal – 2-layers, 2nd layer fixed into sub-frame			
1st Layer 10 mm	30	300	16
2nd Layer 10 mm	40	200	22
1st Layer 12.5 mm	30	300	14
2nd Layer 12.5 mm	40	200	19
1st Layer 15 mm	30	300	12
2nd Layer 12.5 mm or 15 mm	40	200	16
Metal – 3-layers, 1 to 3 layers fixed into sub-frame			
1st Layer 15 mm	30	300	12
2nd Layer 12.5 mm	40	300	12
3rd Layer 12.5 mm	55	200	16
Timber – 1-layer			
10 mm	30	200	22
12.5 mm	30	200	19
15 mm	40	200	16
Timber – 2-layers, 2nd layer fixed into the sub-frame			
1st Layer 10 mm	30	300	16
2nd Layer 10 mm	40	200	22
1st Layer 12.5 mm	30	300	14
2nd Layer 12.5 mm	40	200	19
1st Layer 15 mm	40	300	12
2nd Layer 12.5 mm or 15 mm	40	200	16
Timber – 3 layers, 1 to 3 Layers fixed into the sub-frame			
1st Layer 15 mm	40	300	12
2nd Layer 12.5 mm	40	300	12
3rd Layer 12.5 mm	55	200	16

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Type, spacing and usage of fixing Fermacell board to board.

Ceilings - fixing board to board			
Board thickness/construction	FERMACELL Screws Spacing ≤ 30 cm		
Ceiling spacing per m² ceiling	Length [mm]	Spacing [mm]	Usage [Amount/m²]
10 mm to 10 mm or 12,5 mm	30	150	30
12.5 mm to 12.5 mm or 15 mm	30	150	30
15 mm to 15 mm	30	150	30

Note:
- In multiple layer ceiling constructions with 10 mm Fermacell boards, the last layer of board can be fastened with Fermacell 55 mm screws directly into the sub-frame.
- In ceilings with fire protection criteria, fastening intervals differing from this table may be mandated by the relevant test certificates.
- FERMACELL 30 mm Drill Tip Screws can be used to secure 10 mm, 12.5 mm or 15 mm
For fixing Fermacell boards to steel sub frames of up to 2 mm thickness, the usage should be approx. 5 screws per m².

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