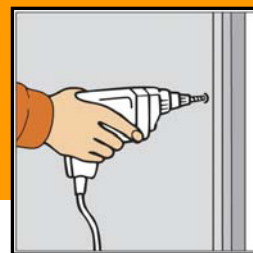


## Screws



### For wall and ceiling construction with Fermacell Gypsum Fibreboards

#### Use

For fixing Fermacell to metal and timber studs and joists.

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.

#### Properties

Fermacell Screws are characterised by the following properties:

- **Easy to screw in**
  - The optimised thread geometry provides fast penetration and guarantees a 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 x 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.

#### Spacing and material specification

Refer to tables starting on page 2.

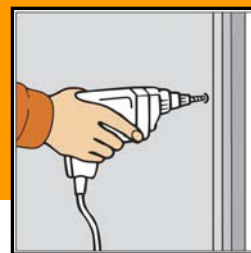
#### Figure



#### 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           | ..001601           | ..014007          | ..014045             | ..014021 | ..014014 |
| 4007548..        | ..001663           |                   | ..014038             |          |          |
| Duty no:         | 73181290           | 73181290          | 73181290             | 73181290 | 73181290 |
| Weight per pack  | 2.1 kg             | 2.6 kg            | 2.1kg/0.65kg         | 2.6 kg   | 3.4 kg   |
| Pack/ Carton     | 10/40              | 10                | 10/40 <sup>ext</sup> | 10       | 10       |
| Weight/ Carton   | ~ 21 kg<br>~ 26 kg | ~ 26 kg           | ~ 21 kg<br>~ 26 kg   | ~ 26 kg  | ~ 34 kg  |

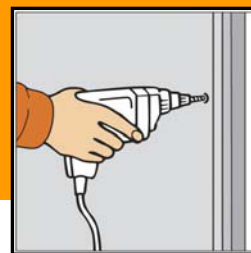
## Screws



**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            |

## Screws



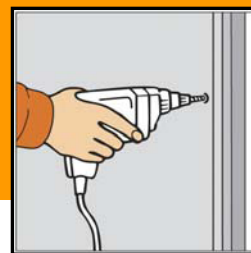
### Type, spacing and usage of fixing Fermacell board to board.

| Walls – fixing board to board  |                                        |                 |                |
|--------------------------------|----------------------------------------|-----------------|----------------|
| Board thickness/construction   | FERMACELL Screws<br>Screw rows ≤ 40 cm |                 |                |
| Wall division per m² wall area | Length<br>[mm]                         | Spacing<br>[mm] | Usage {no./m²} |
| 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.



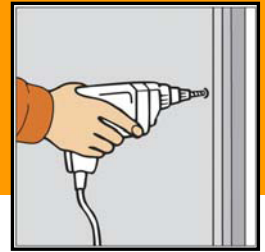
## Screws



Spacing and use of fixings in ceilings per m<sup>2</sup> 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                |

## Screws



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

| Ceilings - fixing board to board |                                     |                 |                      |
|----------------------------------|-------------------------------------|-----------------|----------------------|
| Board thickness/construction     | FERMACELL Screws<br>Spacing ≤ 30 cm |                 |                      |
| Ceiling spacing per m² ceiling   | Length<br>[mm]                      | Spacing<br>[mm] | Usage<br>[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 m<sup>2</sup>.

We reserve the right to change specifications. Version 03/2010  
Please ensure that you are in possession of the current version.  
If you need technical assistance then please call our helpline.

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