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Accessories for the installation of gypsum plasterboard

Nails

DIN 18 182 Part 4

Zubehör für die Verarbeitung von Gipskartonplatten; Nägel

In keeping with current practice in standards published by the International Organization for Standardization (ISO), a comma has been used throughout as the decimal marker.

Dimensions in mm

Contents

1 Scope and field of application

This standard specifies nails intended to be used when fixing DIN 18 180 gypsum plasterboard to framework of timber or other appropriate materials.

2 Concept

For the purposes of this standard, a nail is a steel wire nail with purpose-made cone point, shank and head style, to be driven in with a portable tool.

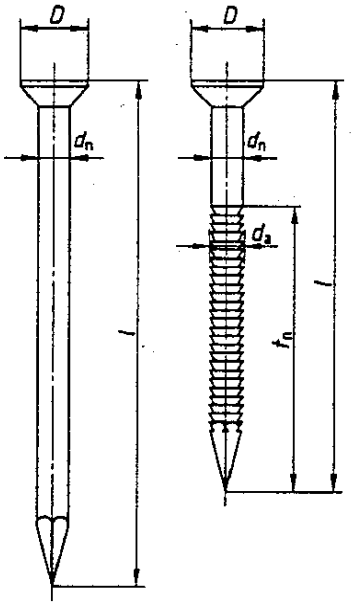
3 Dimensions and designation

The nail dimensions shall be as given in table 1, the shank design being as shown in figure 1.

The designation of nails as specified in this standard shall include name, DIN number, the symbol given in table 1, length and shank design.

Designation of an annular ringed shank (R) nail, with a shank diameter of 2,5 mm (25) and a length of 35 mm:

Nail DIN 18 182 – 25 – 35 R



Plain (G) Annular ringed (R)

Ringed section length: $t_n \geq 8 \times d_n$
Ringed section diameter: $d_a > d_n$

Figure 1: Shank design

Table 1: Dimensions

Column	1	2	3	4	5
Line	Symbol	Shank diameter, d_n ±0,1	Shank design[1]	Minimum head diameter[2], D	Length l +3 0
1	22	2,2	R	5,0	28 to 50
2			G		37 to 50
3	25	2,5	R	5,5	30 to 70
4			G		40 to 70
5	28	2,8	R	6,0	41 to 70
6			G		52 to 70

[1] G – plain shank; R – annular ringed shank.

[2] At the manufacturer's discretion, nail heads may be flat or be provided with a spherical recess.

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4 Requirements

4.1 Types

The head styles shall be selected so that the plasterboard is not damaged when fixed by means of a driving tool. Shank design R shall ensure that the nail complies at least with loadbearing capacity class II (of DIN 1052 Part 2).

4.2 Material

Nails shall be made of steel (grade at manufacturer's discretion), with a tensile strength of at least 600 N/mm^2.

4.3 Corrosion protection

Nails shall be adequately protected against corrosion (e.g. by galvanizing, to a thickness of at least 5 µm [35 g/m^2]). This shall not have an adverse effect on the installation of gypsum plasterboard nor on any filling work.

4.4 Varnishing

Nails may be varnished.

5 Marking

The packaging of nails shall be marked with the manufacturer's symbol and the designation specified in clause 3.

Standards referred to

DIN 1052 Part 2 Structural use of timber; mechanically fastened joints

DIN 18 180 Gypsum plasterboard; types, requirements and testing

Other relevant standards

DIN 18 181 Gypsum plasterboard; installation

International Patent Classification

E 04 B 1/40

F 16 B 15/06