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Fire resistance classification No. LBO – 100 – KZ/22E

Classified product:

**Non-loadbearing walls double sided clad with 1 x 12.5 mm thick
gypsum plasterboards Norgips GKF type DF, Norgips GKFI type DFH2
or Norgips Acoustic Super type DFH2IR**

Sponsor:

Norgips Sp. z o.o.
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02-634 Warszawa

Prepared by:

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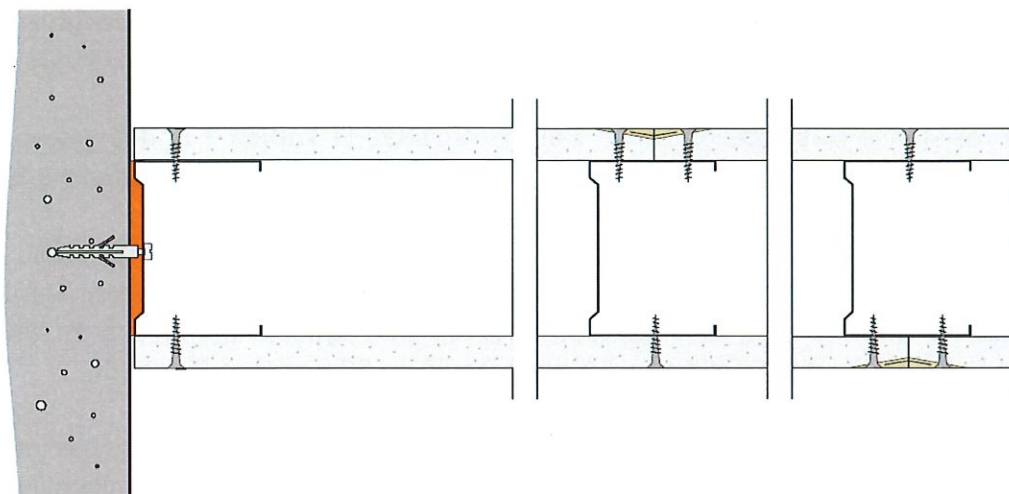
1. This classification has been prepared based on the following documents:

- 1.1. Standard PN-EN 1364-1:2015-08 Fire resistance tests for non-loadbearing elements – Part 1: Walls.
- 1.2. Standard PN-EN 1363-1:2020-07 Fire resistance tests – Part 1: General requirements.
- 1.3. Standard PN-EN 13501-2: 2016-07 Fire classification of construction products and building elements – Part 2: Classification using data from fire resistance tests, excluding ventilation services.
- 1.4. Standard PN-EN 13279-1:2009 Gypsum binders and gypsum plasters – Part 1: Definitions and requirements.
- 1.5. Standard PN-EN 13963:2014-10 Jointing materials for gypsum boards – Definitions, requirements and test methods.
- 1.6. Standard PN-EN 14566+A1:2012. Mechanical fasteners for gypsum plasterboard systems – Definitions, requirements and test methods.
- 1.7. Standard PN-EN 14195:2015-02 Metal framing components for gypsum board systems – Definitions, requirements and test methods.
- 1.8. Report No. LZP04-06094/18/R12NZP Non-loadbearing wall SD-1x12.5 GKF DF/CW50, double sided cladded with 1 x 12.5 mm thick gypsum plasterboards Norgips S GKF type DF. Fire Tests Laboratory of the Building Research Institute (Instytut Techniki Budowlanej), Warsaw 2018.
- 1.9. Standard PN-EN 520+A1:2012 Gypsum plasterboards – Definitions, requirements and test methods.
- 1.10. Standard PN-EN 10143:2006 Continuously hot-dip coated steel sheet and strip – Tolerances on dimensions and shape.
- 1.11. Technical documentation provided by Norgips Sp. z o.o.

2. Technical description of partition walls Norgips, double sided cladded with gypsum plasterboards Norgips GKF type DF, Norgips GKFI type DFH2 or Norgips Acoustic Super type DFH2IR

2.1 Partition walls

SD-1x12.5 GKF DF/CW 50, SD-1x12.5 GKF DF/CW 75, SD-1x12.5 GKF DF/CW 100, SD-1x12.5 GKF DF/VP 66, SD-1x12.5 GKF DF/VP 70, SD-1x12.5 GKF DF/VP 95, SD-1x12.5 GKF DF/VP 120 double sided cladded with 1x12.5 mm thick gypsum plasterboards Norgips GKF type DF, and
SD-1x12.5 GKFI DFH2/CW 50, SD-1x12.5 GKFI DFH2/CW 75, SD-1x12.5 GKFI DFH2/CW 100, SD-1x12.5 GKFI DFH2/VP 66, SD-1x12.5 GKFI DFH2/VP 70 and SD-1x12.5 GKFI DFH2/VP 95, SD-1x12.5 GKFI DFH2/VP 120 double sided cladded with 1x12.5 mm thick gypsum plasterboards Norgips GKFI type DFH2, and
SD-1x12.5 DFH2IR/CW 50, SD-1x12.5 DFH2IR/CW 75, SD-1x12.5 DFH2IR/CW 100, SD-1x12.5 DFH2IR/VP 66, SD-1x12.5 DFH2IR/VP 70, SD-1x12.5 DFH2IR/VP 95 and SD-1x12.5 DFH2IR/VP 120 double sided cladded with 1x12.5 mm thick gypsum plasterboards Norgips Acoustic Super type DFH2IR, with the single framework



The walls are built on the frameworks made of system profiles e.g. Norgips **CW 50 and UW 50, CW 75 and UW 75, CW 100 and UW 100** or **VP 66 and HP 66, VP 70 and HP 70, VP 95 and HP 95, VP 120 and HP 120** which were made of nominally 0.55 mm +/- 0.06 mm or 0.6 mm +/- 0.06 mm thick cold bent galvanized steel.

The **CW 50 and UW 50, CW 75 and UW 75 or CW 100 and UW 100** or **VP 66 and HP 66, VP 70 and HP 70, VP 95 and HP 95, VP 120 and HP 120** perimeter profiles are fixed to the ceiling, floor and side walls by means of mechanical connectors such as, e.g.: wall plugs, dowels, connectors shot into the connected places, etc. The aforementioned mechanical connectors are placed every 80 cm. 3 mm thick e.g. **Norgips polyethylene sealing tape** is placed between the perimeter steel profiles and the ceiling, floor and side walls. Profiles **CW 50, CW 75, CW 100 or VP 66, VP 70, VP 95, VP 120**, hereafter referred to as posts, are positioned vertically and slid between the bottom and top shelves of, respectively, profiles **UW 50, UW 75, UW 100 or HP 66, HP, HP 70, HP 95, HP 120** (see Figure 2). The axes of the adjacent posts are placed maximally every **60 cm or every 62.5 cm**. The length of profiles **CW 50, CW 75 or CW 100 or VP 66, VP 70, VP 95, VP 120** should be 1.5 cm less than the distance between the webs of the bottom and top profiles: **UW 50, UW 75 or UW 100 or HP 66, HP, HP 70, HP 95, HP 120** (see Figure 2).

The boards are fixed in such a way that the vertical connections from two sides of the wall are not made on one and the same post. The vertical connections are shifted in relation to one another by **at least 30 cm**; usually they are shifted by **60 cm or 62.5 cm**.

If there are horizontal connections on the surface of the wall, between the adjacent boards, they have to be shifted in relation to one another by **at least 40 cm**. Gypsum plasterboards **Norgips GKF type DF or Norgips GKFI type DFH2 or Norgips Acoustic Super type DFH2IR** are fixed to the bottom UW profiles and CW profiles (posts) by means of system sheet **steel screws e.g. Norgips Ø 3.5 x 25 mm** placed maximally **every 25 cm**. Screw heads, the vertical and horizontal connections between the **Norgips GKF boards type DF or the Norgips GKFI boards type DFH2 or the Norgips Acoustic Super boards type DFH2IR** are covered with gypsum filler e.g. **Norgips Start, Norgips Super Filler, Norgips Strong Filler** or ready mix jointing compound e.g. **Norgips Start & Finish**. The e.g. Norgips self-adhesive reinforcing tapes made of glass fibre or reinforcing

tapes made of interfacing are applied at the connections between the boards. For final covering it is recommended to use ready mix jointing compound e.g. **Norgips Start & Finish**, **Norgips Extra Finish**, gypsum finish e.g. **Norgips Finish** or gypsum filler e.g. **Norgips Strong Filler**. Constructional details regarding the partition walls are presented in Figures 1 and 2.

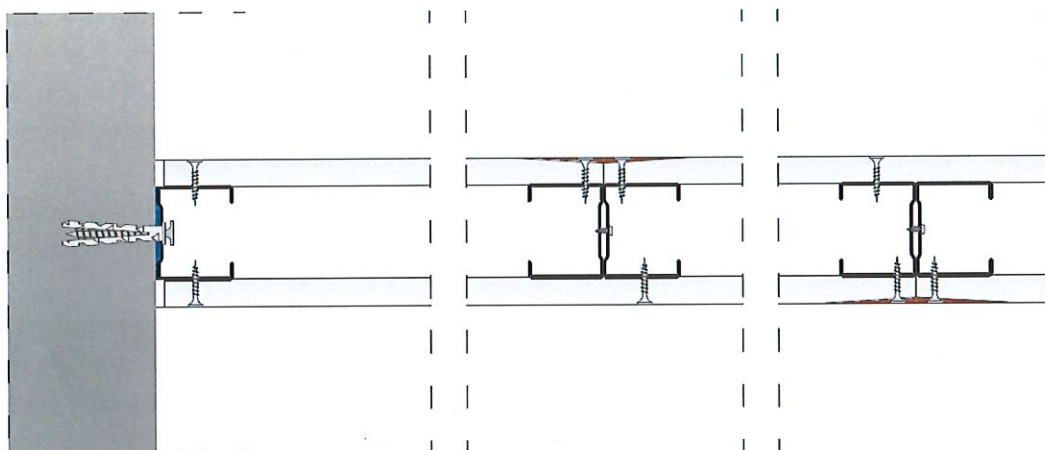
The fire resistance classification of the walls is provided in **Tables 1 and 2 – see columns 8 and 10**, the maximum height of the walls is specified in **Tables 1 and 2 – see columns 9 and 11**.

Electric cables and wall boxes for electric installations can be installed in the wall. The wall boxes should be protected with a layer of putty Norgips Start, Norgips Super Filler or Norgips Strong Filler (thickness: at least 15 mm) or should be encased with gypsum plasterboards, and the minimum distance between the edges of the wall boxes should be 60 mm (see Figure 5).

In places where there is the constructional dilatation of the building and when the length of a straight (without dilatation) section of the wall is more than 15 m one should apply dilatation (see Figures 3 and 4).

2.2 Partition walls

SD-1x12.5 GKF DF/CW 50 + CW 50, SD-1x12.5 GKF DF/CW 75 + CW 75, SD-1x12.5 GKF DF/CW 100 + CW 100, SD-1x12.5 GKF DF/VP 66 + VP 66, SD-1x12.5 GKF DF/VP 70 + VP 70, SD-1x12.5 GKF DF/VP 95 + VP 95, SD-1x12.5 GKF DF/VP 120 + VP 120 double sided cladded with 1x12.5 mm thick gypsum plasterboards Norgips GKF type DF, and SD-1x12.5 GKFI DFH2/CW 50 + CW 50, SD-1x12.5 GKFI DFH2/CW 75 + CW 75, SD-1x12.5 GKFI DFH2/CW 100 + CW 100, SD-1x12.5 GKFI DFH2/VP 66 + VP 66, SD-1x12.5 GKFI DFH2/VP 70 + VP 70 and SD-1x12.5 GKFI DFH2/VP 95 + VP 95, SD-1x12.5 GKFI DFH2/VP 120 + VP 120 double sided cladded with 1x12.5 mm thick gypsum plasterboards Norgips GKFI type DFH2, and SD-1x12.5 DFH2IR/CW 50 + CW 50, SD-1x12.5 DFH2IR/CW 75 + CW 75, SD-1x12.5 DFH2IR/CW 100 + CW 100, SD-1x12.5 DFH2IR/VP 66 + VP 66, SD-1x12.5 DFH2IR/VP 70 + VP 70, SD-1x12.5 DFH2IR/VP 95 + VP 95 and SD-1x12.5 DFH2IR/VP 120 + VP 120 double sided cladded with 1x12.5 mm thick gypsum plasterboards Norgips Acoustic Super type DFH2IR, with the single framework made of double profiles CW



The walls are built on the frameworks made of system profiles e.g. Norgips **CW 50 and UW 50, CW 75 and UW 75 or CW 100 and UW 100 or VP 66 and HP 66, VP 70 and HP 70, VP 95 and HP 95, VP 120 and HP 120** which were made of nominally 0.55 mm +/- 0.06 mm or 0.6 mm +/- 0.06 mm thick cold bent galvanized steel.

The **CW 50 and UW 50, CW 75 and UW 75 or CW 100 and UW 100 or VP 66 and HP 66, VP 70 and HP 70, VP 95 and HP 95, VP 120 and HP 120** perimeter profiles are fixed to the ceiling, floor and side walls by means of mechanical connectors such as, e.g.: wall plugs, dowels, connectors shot into the connected places, etc. The aforementioned mechanical connectors are placed every 80 cm. 3 mm thick e.g. **Norgips polyethylene sealing tape** is placed between the perimeter steel profiles and the ceiling, floor and side walls. Double profiles **CW 50, CW 75, CW 100 or VP 66, VP 70, VP 95, VP 120** are made from single profiles (respectively, **CW 50, CW 75, CW 100 or VP 66, VP 70, VP 95, VP 120**) which were connected with one another at their webs by being screwed using **screws e.g. Norgips Ø 3.5 x 9.5 mm** with self-drilling endings placed at most every 40 cm. These double profiles, hereafter referred to as posts, are positioned vertically and slid between the bottom and top shelves of, respectively, profiles **UW 50, UW 75, UW 100 or HP 66, HP 70, HP 95, HP 120** (see Figure 2). The axes of the adjacent posts are placed maximally every 60 cm or every 62.5 cm. The length of profiles **CW 50, CW 75, CW 100 or VP 66, VP 70, VP 95, VP 120**

should be 1.5 cm less than the distance between the webs of the bottom and top profiles: **UW 50, UW 75, UW 100 or HP 66, HP, HP 70, HP 95, HP 120** (see Figure 2).

The boards are fixed in such a way that the vertical connections from two sides of the wall are not made on one and the same post. The vertical connections are shifted in relation to one another by at least 30 cm; usually they are shifted by **60 cm or 62.5 cm**.

If there are horizontal connections on the surface of the wall, between the adjacent boards, they have to be shifted in relation to one another **by at least 40 cm**. Gypsum plasterboards **Norgips GKF type DF or Norgips GKFI type DFH2 or Norgips Acoustic Super type DFH2IR** are fixed to the bottom UW profiles and CW profiles (posts) by means of system sheet **steel screws e.g. Norgips Ø 3.5 x 25 mm** placed **maximally every 25 cm**. Screw heads, the vertical and horizontal connections between the **Norgips GKF boards type DF or the Norgips GKFI boards type DFH2 or the Norgips Acoustic Super boards type DFH2IR** are covered with gypsum filler e.g. **Norgips Start, Norgips Super Filler, Norgips Strong Filler** or ready mix jointing compound e.g. **Norgips Start & Finish**. The e.g. Norgips self-adhesive reinforcing tapes made of glass fibre or reinforcing tapes made of interfacing are applied at the connections between the boards. For final covering it is recommended to use ready mix jointing compound e.g. **Norgips Start & Finish, Norgips Extra Finish**, gypsum finish e.g. **Norgips Finish** or gypsum filler e.g. **Norgips Strong Filler**.

The fire resistance classification of the walls is provided in **Tables 2 and 3** – see columns **8 and 10**, the maximum height of the walls is specified in **Tables 2 and 3** – see columns **9 and 11**.

Electric cables and wall boxes for electric installations can be installed in the wall. The wall boxes should be protected with a layer of putty Norgips Start, Norgips Super Filler or Norgips Strong Filler (thickness: at least 15 mm) or should be encased with gypsum plasterboards, and the minimum distance between the edges of the wall boxes should be 60 mm (see Figure 5).

In places where there is the constructional dilatation of the building and when the length of a straight (without dilatation) section of the wall is more than 15 m one should apply dilatation (see Figures 3 and 4).

3. Fire resistance test of the non-loadbearing partition wall with the cladding made of gypsum plasterboards manufactured by Norgips Sp. z o.o.

A fire resistance test of the non-loadbearing partition wall (SD-1x12.5 GKF DF/CW 50), double sided cladded with 1 x 12.5 mm thick gypsum plasterboards Norgips S GKF type DF was carried out by the Fire Tests Laboratory of the Building Research Institute (Instytut Techniki Budowlanej).

Test report: LZP04-06094/18/R12NZP [1.8].

4. Fire resistance classification of the non-loadbearing partition walls

Based on the analysis of the fire resistance test results indicated in item 3, the following products:

non-loadbearing partition walls with the cladding made of gypsum plasterboards manufactured by Norgips Sp. z o.o.

prepared in accordance with the technical description presented in item 2, are classified:

- in accordance with standard PN-EN 13501-2:2016-07 [1.3] as belonging to the fire resistance classes indicated in Tables 1 ÷ 3, column 8 by the maximum heights specified in Tables 1 ÷ 3, column 9.
- in accordance with the criteria presented in standard PN-EN 13501-2:2016-07 [1.3] as belonging to the fire resistance classes indicated in Tables 1 ÷ 3, column 10 by the maximum heights specified in Tables 1 ÷ 3, column 11.

5. Non-loadbearing walls – casings of risers and lift shafts with the cladding made of gypsum plasterboards manufactured by Norgips Sp. z o.o. used as separation from fire

Non-loadbearing walls – casings of risers and lift shafts prepared in accordance with the technical description presented in item 2 can be used as separation from fire meeting the **REI** fire resistance criteria if the following conditions are met:

- the walls are fixed to or placed on the construction meeting the criteria for a fire resistance class equal to or higher than the fire resistance class (EI) of the wall,
- the walls are not subjected to the mechanical load generated by the construction of the building,
- the walls are fixed to the elements of the building in accordance with the building project.

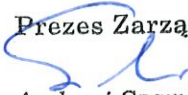
6. Validity

The classification presented in item 4 is valid until 6.10.2027 on the condition that there are no changes in the construction or materials of the classified products.

Annex 1 – Drawings presenting the non-loadbearing walls double sided cladded with 1 x 12.5 mm thick gypsum plasterboards Norgips GKF type DF, Norgips GKFI type DFH2 or Norgips Acoustic Super type DFH2IR

Annex 2 – Tables 1 - 3 presenting the technical data of the non-loadbearing walls double sided cladded with 1 x 12.5 mm thick gypsum plasterboards Norgips GKF type DF, Norgips GKFI type DFH2 or Norgips Acoustic Super type DFH2IR

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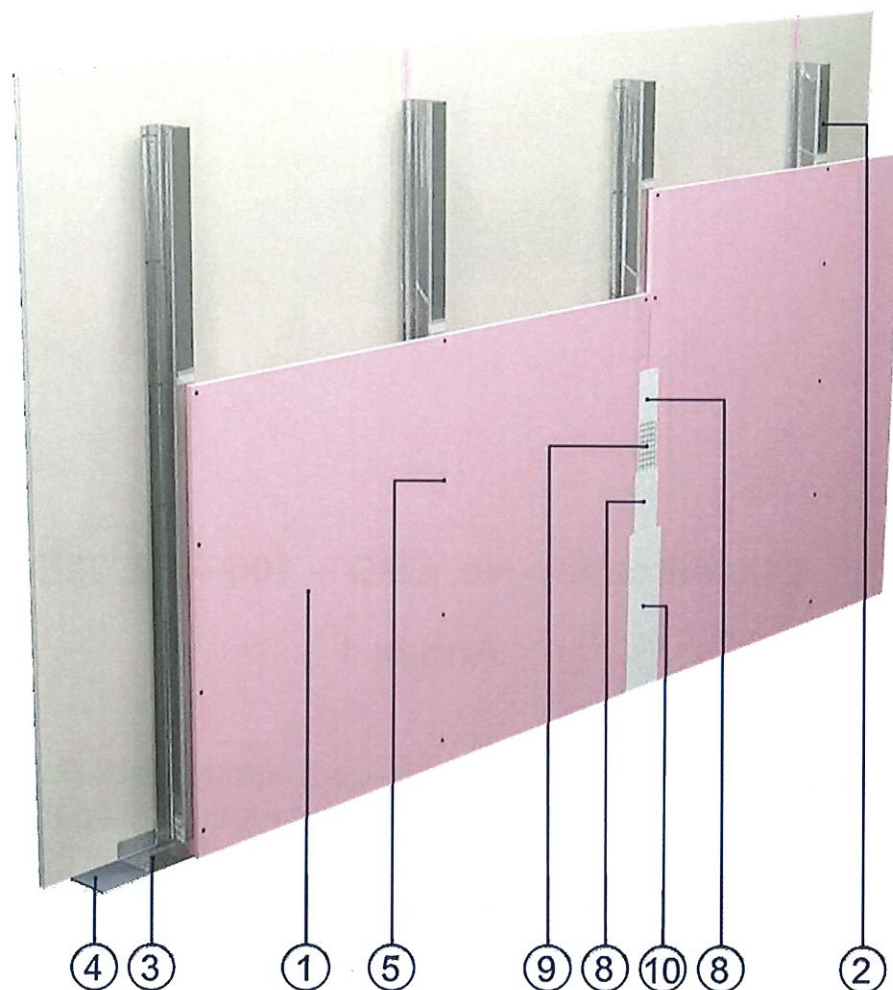

Andrzej Szarycki

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Classification No. LBO – 100 – KZ/22E

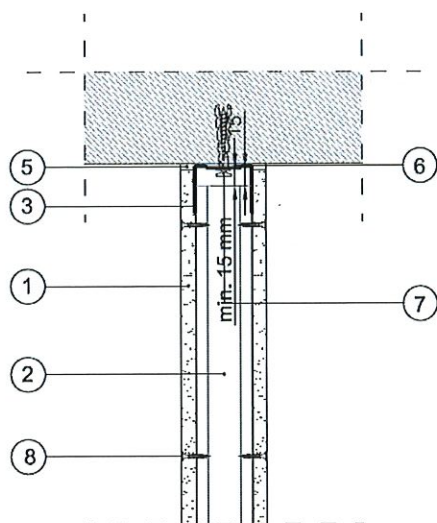
Annex 1

Drawings presenting the non-loadbearing walls double sided
cladded with 1 x 12.5 mm thick gypsum plasterboards
Norgips GKF type DF, Norgips GKFI type DFH2 or Norgips
Acoustic Super type DFH2IR

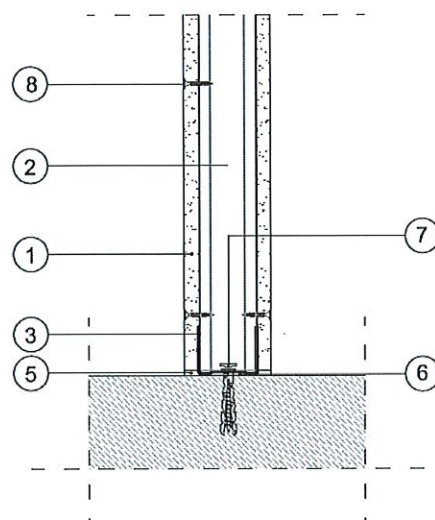


1. Gypsum plasterboards Norgips GKF type DF, Norgips GKFI type DFH2, Norgips Acoustic Super type DFH2IR, thickness: 1 x 12.5 mm
2. Profiles e.g. Norgips CW 50, CW 75, CW 100 or VP 66, VP 70, VP 95, VP 120 made of at least 0.55 mm thick steel, placed every 60 cm
3. Profiles e.g. Norgips UW 50, UW 75, UW 100 or HP 66, HP 70, HP 95, HP 120 made of at least 0.55 mm thick steel
4. Sealing tape e.g. Norgips
5. Sheet steel screws e.g. Norgips 3.5 mm x 25 mm placed every 25 cm
8. Gypsum filler Norgips Start, Norgips Super Filler, Norgips Strong Filler or ready mix jointing compound e.g. Norgips Start & Finish
9. Self-adhesive reinforcing tape made of glass fibre or interfacing
10. Gypsum filler e.g. Norgips Finish, Norgips Strong Filler or ready mix jointing compound e.g. Norgips Extra Finish, Norgips Start & Finish

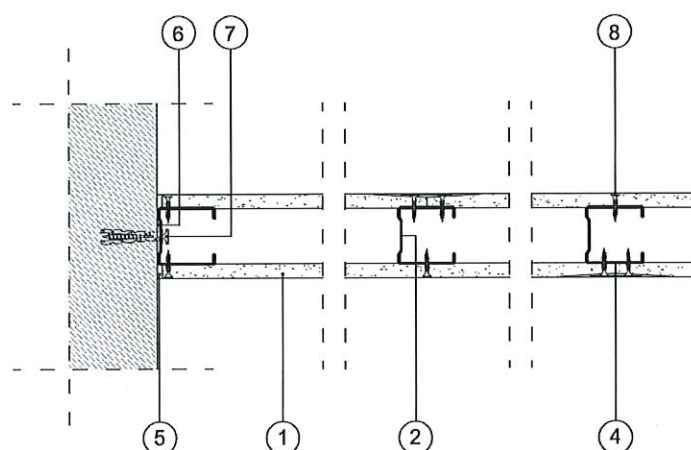
Figure 1 Elements of the partition wall



Vertical section – top connection



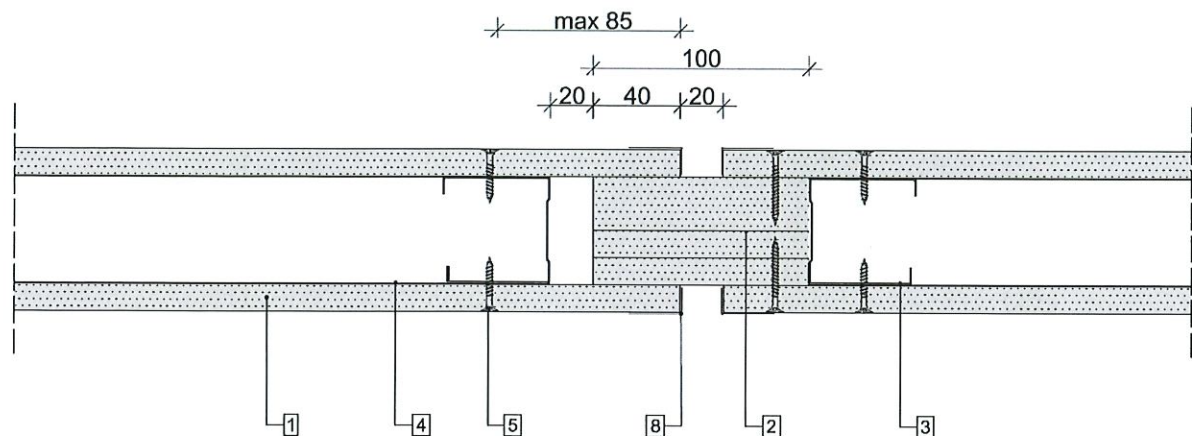
Vertical section – bottom connection



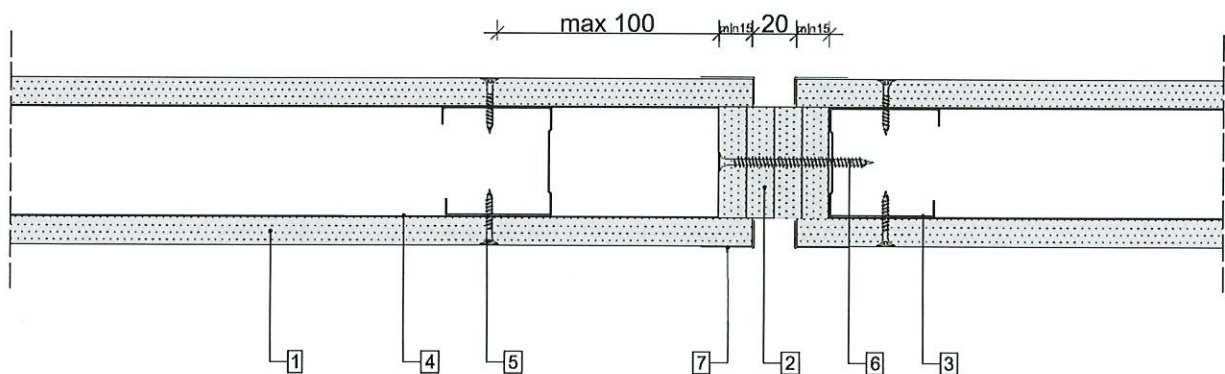
Horizontal section

1. Gypsum plasterboards Norgips GKF type DF, Norgips GKFI type DFH2, Norgips Acoustic Super type DFH2IR, thickness: 1 x 12.5 mm
2. Profiles e.g. Norgips CW 50, CW 75, CW 100 or VP 66, VP 70, VP 95, VP 120 made of at least 0.55 mm thick steel, placed every 60 cm
3. Profiles e.g. Norgips UW 50, UW 75, UW 100 or HP 66, HP 70, HP 95, HP 120 made of at least 0.55 mm thick steel
4. Gypsum filler e.g. Norgips Start, Norgips Super Filler, Norgips Strong Filler or ready mix jointing compound e.g. Norgips Start & Finish + reinforcing tape
5. Gypsum filler e.g. Norgips Start, Norgips Super Filler, Norgips Strong Filler or ready mix jointing compound e.g. Norgips Start & Finish
6. Sealing tape e.g. Norgips
7. Mechanical connectors, minimally $\varnothing 6 \times 40$ mm placed maximally every 80 cm
8. Sheet steel screws e.g. Norgips 3.5 mm x 25 mm placed every 25 cm

Figure 2 Elements of the partition wall



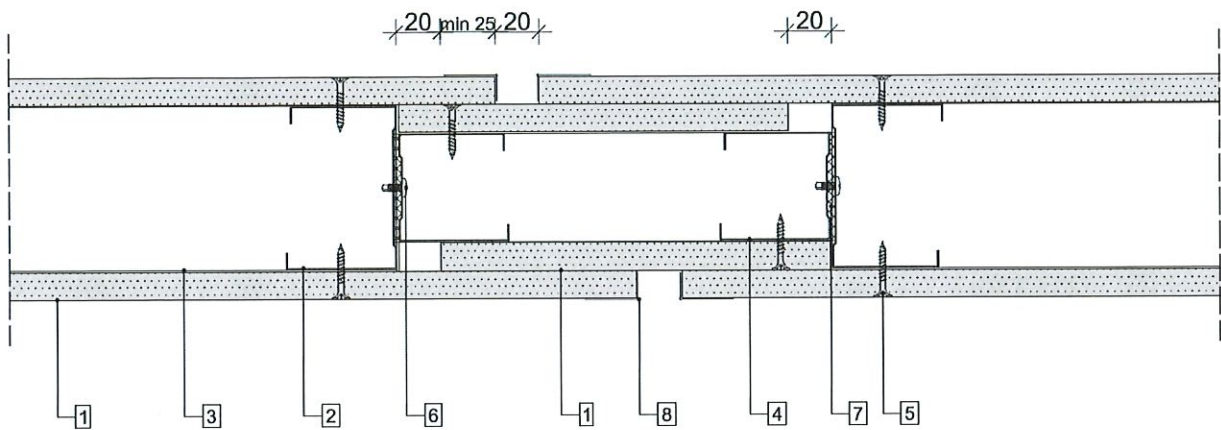
Expansion joint – variant 1



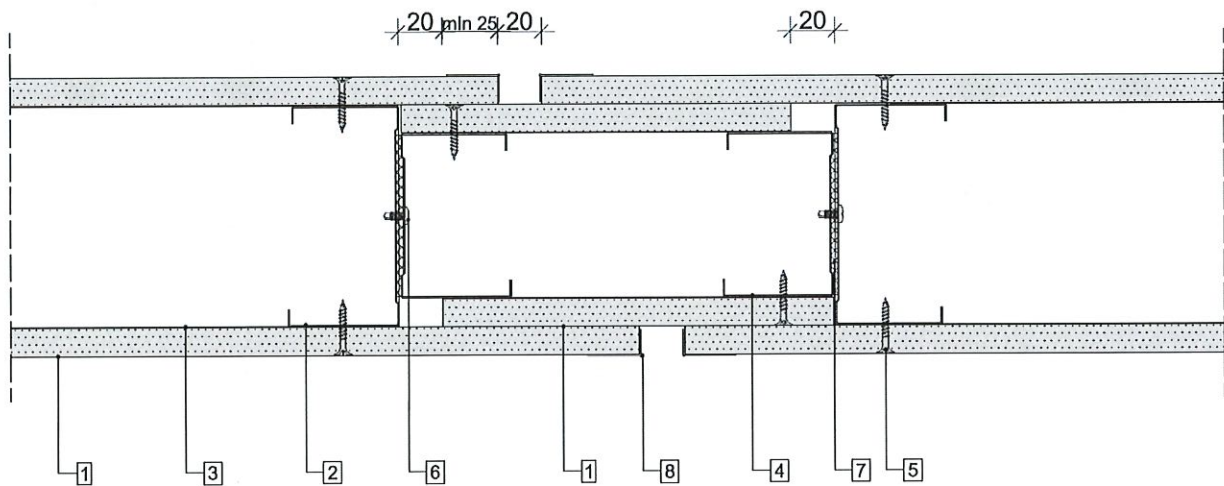
Expansion joint – variant 2

1. Gypsum plasterboards Norgips GKF type DF, Norgips GKFI type DFH2, Norgips Acoustic Super type DFH2IR, thickness: 1 x 12.5 mm
2. Strips of gypsum plasterboards Norgips GKF type DF, Norgips GKFI type DFH2, Norgips Acoustic Super type DFH2IR, thickness: 4 x 12.5 mm
3. Profiles e.g. Norgips CW 50 or VP 66 or VP 70 made of at least 0.55 mm thick steel
4. Profiles e.g. Norgips UW 50 or HP 66 or HP 70 made of at least 0.55 mm thick steel
5. Sheet steel screws e.g. Norgips 3.5 mm x 25 mm placed every 25 cm
6. Sheet steel screws e.g. Norgips 4.2 mm x 70 mm placed every 50 cm
7. Protection corner (recommended)

Figure 3 Dilatation for the partition wall with the framework made of profiles CW and UW 50



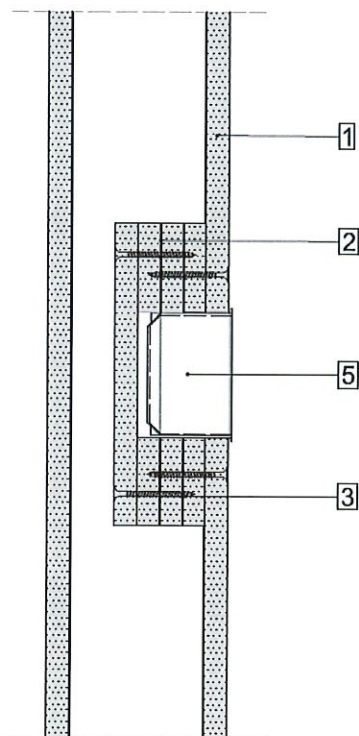
Expansion joint – variant 1



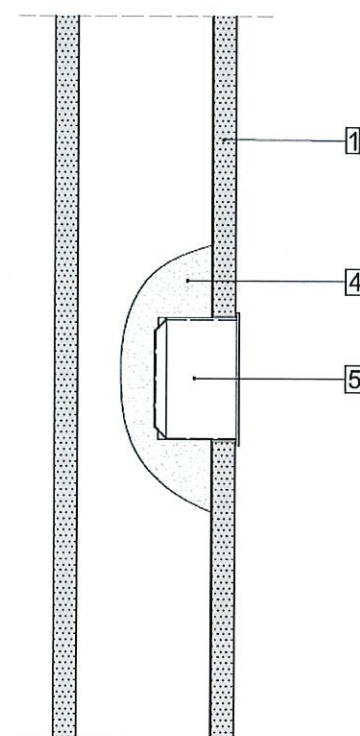
Expansion joint – variant 2

1. Gypsum plasterboards Norgips GKF type DF, Norgips GKFI type DFH2, Norgips Acoustic Super type DFH2IR, thickness: 1 x 12.5 mm
2. Profiles e.g. Norgips CW 75 or CW 100 or VP 95 or VP 120 made of at least 0.55 mm thick steel
3. Profiles e.g. Norgips UW 75 or UW 100 or HP 95 or HP 120 made of at least 0.55 mm thick steel
4. Profiles e.g. Norgips CW 50 or CW 75 or VP 70 or VP 95 made of at least 0.55 mm thick steel
5. Sheet steel screws e.g. Norgips 3.5 mm x 25 mm placed every 25 cm
6. Sheet steel screws e.g. Norgips 3.5 mm x 9.5 mm placed every 50 cm
7. Sealing tape e.g. Norgips
8. Protection corner (recommended)

Figure 4 Dilatation for the partition wall with the framework made of profiles CW and UW 75 and 100



Protection by means of
the encasing made of
gypsum plasterboards



Protection by means of
gypsum putty

1. Gypsum plasterboards Norgips GKF type DF, Norgips GKFI type DFH2, Norgips Acoustic Super type DFH2IR, thickness: 1 x 12.5 mm
2. Gypsum plasterboards Norgips GKF type DF, Norgips GKFI type DFH2, Norgips Acoustic Super type DFH2IR, thickness: 4 x 12.5 mm
3. Sheet steel screws e.g. Norgips 3.5 mm x 45 mm
4. Gypsum filler e.g. Norgips Start, Norgips Super Filler or Norgips Strong Filler, thickness: at least 15 mm
5. Wall box for electric installations

Figure 5 Elements of the protection of wall boxes for electric installations

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Annex 2

Tables 1 - 3

Table 1

Technical data for the following types of the Norgips partition walls:

SD-1 x 12.5 GKFI DF/CW 50, SD-1 x 12.5 GKFI DF/CW 75, SD-1 x 12.5 GKFI DFH2/CW 50, SD-1 x 12.5 GKFI DFH2/CW 75, SD-1x12.5 GKFI DFH2/CW 100, SD-1x12.5 GKFI DF/NP 66, SD-1x12.5 GKFI DF/NP 70, SD-1x12.5 GKFI DF/NP 95, SD-1x12.5 GKFI DFH2/NP 66, SD-1x12.5 GKFI DFH2/NP 70, SD-1x12.5 GKFI DFH2/NP 95, SD-1x12.5 GKFI DFH2/NP 120

Symbol of the Norgips system wall	Type of profiles	Maximum distance between the CW profiles [cm]	Type of the cladding made of gypsum plasterboards		Total thickness of the wall [mm]	Filling with mineral wool	Fire resistance classification of the wall			
			Type/thickness [mm]	Minimum weight of the board [kg/m²]			According to standard PN-EN 13501-2:2016-07		According to the criteria of standard PN-EN 13501-2:2016- 07	
							Fire resistance class	Maximum height [cm]		Fire resistance class
1	2	3	4	5	6	7	8	9	10	11
SD-1x12.5 GKF DF/CW 50 SD-1x12.5 GKF DF/VP 66 SD-1x12.5 GKF DF/VP 70	CW 50 VP 66 VP 70	60/62.5 40/41.7 30/31.3	DF 1x12.5	10.0	75 91 95	No filling or any mineral wool of the A1 class of reaction to fire	EI 45	330 400 400	EI 45	330 410 480
SD-1x12.5 GKF DF/CW 75 SD-1x12.5 GKF DF/VP 95	CW 75 VP 95	60/62.5 40/41.7 30/31.3	DF 1x12.5	10.0	100 120		EI 45	400 400 400	EI 45	440 500 560
SD-1x12.5 GKF DF/CW 100 SD-1x12.5 GKF DF/VP 120	CW 100 VP 120	60/62.5 40/41.7 30/31.3	DF 1x12.5	10.0	125 145		EI 45	400 400 400	EI 45	580 620 650
SD-1x12.5 GKFI DFH2/CW 50 SD-1x12.5 GKFI DFH2/VP 66 SD-1x12.5 GKFI DFH2/VP 70	CW 50 VP 66 VP 70	60/62.5 40/41.7 30/31.3	DFH2 1x12.5	10.0	75 91 95		EI 45	330 400 400	EI 45	330 410 480
SD-1x12.5 GKFI DFH2/CW 75 SD-1x12.5 GKFI DFH2/VP 95	CW 75 VP 95	60/62.5 40/41.7 30/31.3	DFH2 1x12.5	10.0	100 120		EI 45	400 400 400	EI 45	440 500 560
SD-1x12.5 GKFI DFH2/CW 100 SD-1x12.5 GKFI DFH2/VP 120	CW 100 VP 120	60/62.5 40/41.7 30/31.3	DFH2 1x12.5	10.0	125 145	EI 45	400 400 400	EI 45	580 620 650	

Note: For acoustic reasons, it is possible to use mineral wool boards of the A1 class of reaction to fire and gypsum plasterboards of greater thickness, and additional layers of boards.

Table 2

Technical data for the following types of the Norgips partition walls:

SD-1 x 12.5 DFH2IR/CW 50, SD-1 x 12.5 DFH2IR/CW 75, SD-1x12.5 GKF DFH2IR/CW 100, SD-1 x 12.5 DFH2IR/CW 50+CW 50 W 50, SD-1 x 12.5 DFH2IR/CW 75+CW 75, SD-1x12.5 DFH2IR/CW 100+CW 100, SD-1 x 12.5 DFH2IR/VP 66, SD-1 x 12.5 DFH2IR/VP 70, SD-1x12.5 DFH2IR/VP 95, SD-1x12.5 DFH2IR/VP 120, SD-1 x 12.5 DFH2IR/VP 66+VP 66, SD-1 x 12.5 DFH2IR/VP 70+VP 70, SD-1x12.5 DFH2IR/VP 95+VP 95, SD-1x12.5 DFH2IR/VP 120+VP 120

Symbol of the Norgips system wall	Type of profiles	Maximum distance between the CW profiles [cm]	Type of the cladding made of gypsum plasterboards		Total thickness of the wall [mm]	Filling with mineral wool	Fire resistance classification of the wall				
			Type/thickness [mm]	Minimum weight of the board [kg/m ²]			According to standard PN-EN 13501-2:2016-07		According to the criteria of standard PN-EN 13501-2:2016- 07		
							Fire resistance class	Maximum height [cm]		Fire resistance class	Maximum height [cm]
1	2	3	4	5	6	7	8	9	10	11	
SD-1x12.5 DFH2IR/CW 50 SD-1x12.5 DFH2IR/VP 66 SD-1x12.5 DFH2IR/VP 70	CW 50 VP 66 VP 70	60/62.5 40/41.7 30/31.3	DFH2IR 1x12.5	10.0	75 91 95		EI 45	330 400 400	EI 45	330 410 480	
SD-1x12.5 DFH2IR/CW 75 SD-1x12.5 DFH2IR/VP 95	CW 75 VP 95	60/62.5 40/41.7 30/31.3	DFH2IR 1x12.5	10.0	100 120		EI 45	400 400 400	EI 45	440 500 560	
SD-1x12.5 DFH2IR/CW 100 SD-1x12.5 DFH2IR/VP 120	CW 100 VP 120	60/62.5 40/41.7 30/31.3	DFH2IR 1x12.5	10.0	125 145	No filling or any mineral wool of the A1 class of reaction to fire	EI 45	400 400 400	EI 45	580 620 650	
SD-1x12.5 DFH2IR/CW 50+CW 50 SD-1x12.5 DFH2IR/VP 66+VP 66 SD-1x12.5 DFH2IR/VP 70+VP 70	CW 50 VP 66 VP 70	60/62.5 40/41.7 30/31.3	DFH2IR 1x12.5	10.0	75 91 95		EI 45	400 400 400	EI 45	430 520 600	
SD-1x12.5 DFH2IR/CW 75+CW 75 SD-1x12.5 DFH2IR/VP 95+VP 95	CW 75 VP 95	60/62.5 40/41.7 30/31.3	DFH2IR 1x12.5	10.0	100 120		EI 45	400 400 400	EI 45	570 630 650	
SD-1x12.5 DFH2IR/CW 100+CW 100 SD-1x12.5 DFH2IR/VP 120+VP 120	CW 100 VP 120	60/62.5 40/41.7 30/31.3	DFH2IR 1x12.5	10.0	125 145		EI 45	400 400 400	EI 45	650 650 650	

Note: For acoustic reasons, it is possible to use mineral wool boards of the A1 class of reaction to fire and gypsum plasterboards of greater thickness, and additional layers of boards.

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Table 3

Technical data for the following types of the Norgips partition walls:

SD-1 x 12.5 GKF DF/CW 50+CW 50, SD-1 x 12.5 GKF DF/CW 75+CW 75, SD-1x12.5 GKF DF/CW 100+CW 100, SD-1 x 12.5 GKF DFH2/CW 50+CW 50, SD-1 x 12.5 GKF DFH2/CW 75+CW 75, SD-1x12.5 GKF DFH2/CW 100+CW 100, SD-1x12.5 GKF DF/VP 66 + VP 66, SD-1x12.5 GKF DF/VP 70 + VP 70, SD-1x12.5 GKF DF/VP 95 + VP 95, SD-1x12.5 GKF DF/VP 120 + VP 120, SD-1x12.5 GKF DFH2/VP 66 + VP 66, D-1x12.5 GKF DFH2/VP 70 + VP 70, SD-1x12.5 GKF DFH2/VP 95 + VP 95, SD-1x12.5 GKF DFH2/VP 120 + VP 120

Symbol of the Norgips system wall	Type of profiles	Maximum distance between the CW profiles [cm]	Type of the cladding made of gypsum plasterboards		Total thickness of the wall [mm]	Filling with mineral wool	Fire resistance classification of the wall			
			Type/thickness [mm]	Minimum weight of the board [kg/m²]			According to standard PN-EN 13501-2:2016-07		According to the criteria of standard PN-EN 13501- 2:2016-07	
							Fire resistance class	Maximum height [cm]		Fire resistance class
1	2	3	4	5	6	7	8	9	10	11
SD-1x12.5 GKF DF/CW 50+CW 50 SD-1x12.5 GKF DF/VP 66+VP 66 SD-1x12.5 GKF DF/VP 70+VP 70	CW 50 VP 66 VP 70	60/62.5 40/41.7 30/31.3	DF 1x12.5	10.0	75 91 95	No filling or any mineral wool of the A1 class of reaction to fire	EI 45	400 400 400	EI 45	430 520 600
SD-1x12.5 GKF DF/CW 75+CW 75 SD-1x12.5 GKF DF/VP 95+VP 95	CW 75 VP 95	60/62.5 40/41.7 30/31.3	DF 1x12.5	10.0	100 120		EI 45	400 400 400	EI 45	570 630 650
SD-1x12.5 GKF DF/CW 100+CW 100 SD-1x12.5 GKF DF/VP 120+VP 120	CW 100 VP 120	60/62.5 40/41.7 30/31.3	DF 1x12.5	10.0	125 145		EI 45	400 400 400	EI 45	650 650 650
SD-1x12.5 GKF1 DFH2/CW 50+CW 50 SD-1x12.5 GKF1 DFH2/VP 66+VP 66 SD-1x12.5 GKF1 DFH2/VP 70+VP 70	CW 50 VP 66 VP 70	60/62.5 40/41.7 30/31.3	DFH2 1x12.5	10.0	75 91 95		EI 45	400 400 400	EI 45	430 520 600
SD-1x12.5 GKF1 DFH2/CW 75+CW 75 SD-1x12.5 GKF1 DFH2/VP 95+VP 95	CW 75 VP 95	60/62.5 40/41.7 30/31.3	DFH2 1x12.5	10.0	100 120		EI 45	400 400 400	EI 45	570 630 650
SD-1x12.5 GKF1 DFH2/CW 100+CW 100 SD-1x12.5 GKF1 DFH2/VP 120+VP 120	CW 100 VP 120	60/62.5 40/41.7 30/31.3	DFH2 1x12.5	10.0	125 145		EI 45	400 400 400	EI 45	650 650 650

Note: For acoustic reasons, it is possible to use mineral wool boards of the A1 class of reaction to fire and gypsum plasterboards of greater thickness, and additional layers of boards.