GRYFIT LAB

GROUP OF TESTING LABORATORIES
GRYFITLAB

ul. Prosta 2, Łozienica, 72-100 Goleniów, POLAND
tel. (091) 431 82 29, fax (091) 418 97 57, mobile: 607-900-480
www.gryfitlab.com, e-mail: contact@gryfitlab.com

Fire resistance classification No. LBO – 127 – KZ/24E

Classified product:

Norgips non-loadbearing partition walls with both sides lining of gypsum plasterboards Norgips S GKB type A, Norgips Acoustic type A, Norgips HARD type DIR and Norgips S GKBI type H2 on steel profiles of Norgips system

Sponsor:

Norgips Sp. z o.o.
ul. Krakowiaków 50
02-255 Warszawa
Poland

Prepared by:

Zespół Laboratoriów Badawczych Gryfitlab
ul. Prosta 2, Łozienica
72-100 Goleniów
Poland

Place and date of issue:

Łozienica, 27.03.2024

Copy No. 1
Classification consists of 39 pages together with Annex 1 and Annex 2
The classification was printed in 3 copies. Copies Nos. 1, 2 – for the Sponsor, Copy No. 3 – AA

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 13501-2:2023-09 Fire classifications of construction products and building elements – Part 2: Classification on the basis of the results of fire resistance tests, excluding ventilation.

1.4. Standard PN-EN 13279-1:2009 Gypsum binders and gypsum plasters. 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. Test report No. 020.BO.23.AK Non-loadbearing partition wall SD-2x12,5 GKB A CW 50 with both sides lining of gypsum plasterboards Norgips S GKB typu A 2 x 12,5 mm on steel profiles of Norgips system CW 50 i UW 50 with thick glass mineral wool filling. 50mm.ICIMB, Kraków 19.12.2023 r.

1.9. Technical documentation provided by Norgips Sp. z o.o.

1.10. Standard PN-EN 520+A1:2012 Gypsum plasterboards – Definitions, requirements and test methods.

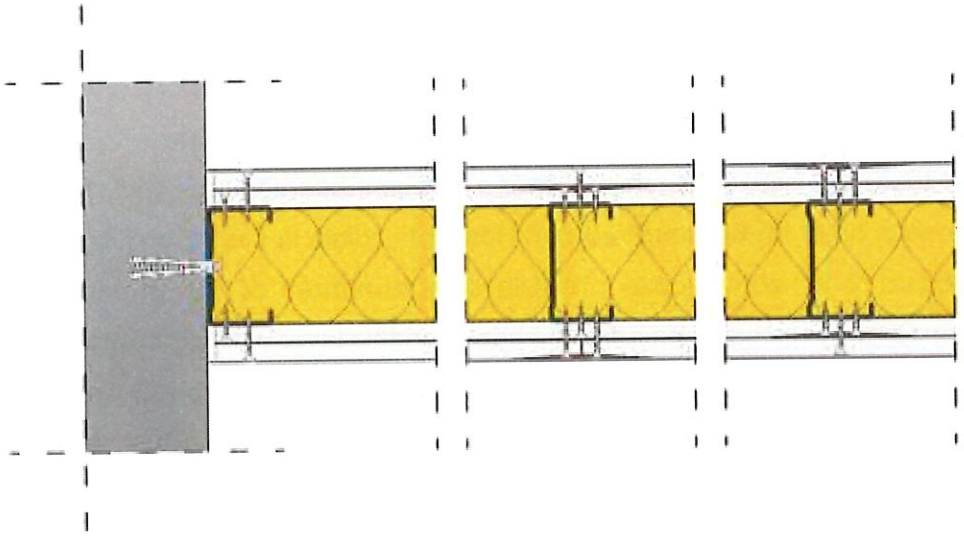
1.11. Standard PN-EN 10143:2006 Continuously hot-dip coated steel sheet and strip — Tolerances on dimensions and shape.

1.12. Test report ITB nr LK00-6041/14/R20NK. ITB Warszawa 2014 r.

1.13. Document ITB nr 06041/14/R20NK (LK00-6041/14/R20NK) Technical assessment of the partition walls of the Norgips system. ITB Warszawa 2014 r.

2. Technical description of Norgips partitions with both sides lining of gypsum plasterboards Norgips GKB type A, Norgips Acoustic type A or Norgips GKBI type H2 thickness of 2 x 12,5 mm

2.1. Partitions SD - 2x12,5 GKB A/CW 50 W50, SD - 2x12,5 GKB A/CW 75 W50, SD - 2x12,5 GKB A/CW 100 W50, 2x12,5 ACO A/CW 50 W50, SD - 2x12,5 ACO A/CW 75 W50, SD - 2x12,5 ACO A/CW 100 W50, SD - 2x12,5 HARD DIR/CW 50 W50, SD - 2x12,5 HARD DIR/CW 75 W50, SD - 2x12,5 HARD DIR/CW 100 W50, SD - 2x12,5 GKBI H2/CW 50 W50, SD - 2x12,5 GKBI DFH2/CW 75 W50, SD - 2x12,5 GKBI H2/CW 100 W50, SD - 2x12,5 GKB A/VP 66, SD - 2x12,5 GKB A/VP 70, W50, SD - 2x12,5 GKB A/VP 95 W50, SD - 2x12,5 GKB A/VP 120 W50, SD - 2x12,5 ACO A/VP 66 W50, 2x12,5 ACO A/VP 70 W50, SD - 2x12,5 ACO A/VP 95 W50, SD - 2x12,5 ACO A/VP 120 W50, SD - 2x12,5 HARD DIR/VP 66 W50, SD - 2x12,5 HARD DIR/VP 70 W50, SD - 2x12,5 HARD DIR/VP 95 W50, SD - 2x12,5 HARD DIR/VP 120 W50, SD - 2x12,5 GKBI H2/VP 66 W50, SD - 2x12,5 GKBI H2/VP 70 W50, SD - 2x12,5 GKBI DFH2/VP 95 W50, SD - 2x12,5 GKBI H2/VP 120 W50 with both sides lining of gypsum plasterboards Norgips S GKB type A, Norgips Acoustic type A, Norgips HARD DIR or Norgips S GKBI type H2 thickness of 2 x 12,5 mm brand of Norgips made on single structure with at least 50 mm mineral wool filling.



Wall structure consists of singe profiles e.g. Norgips **CW 50 and UW 50, CW 75 and UW 75, CW 100 and UW 100 or VP 66, VP 70, VP 95, VP 120** made of cold-formed, galvanized steel sheet normal thickness of **0,55 mm** within tolerance of +/- 0,06 mm **or 0,6 mm** within tolerance od +/- 0,06 mm.

Perimeter profiles **CW 50 and UW 50, CW 75 and UW 75, CW 100 and UW 100 or VP 66, VP 70, VP 95, VP 120**are fixed to the soffit, floor and side walls by means of mechanical fasteners like anchors, dowels, in **80 cm** spacing.

The system polyethylene sealing tape brand of Norgips thickness of **3 mm** is placed between perimeter profiles and soffit, floor and side walls. The vertical single profiles **CW 50, CW 75, CW 100 or VP 66, VP 70, VP 95, VP 120** are inserted between bottom and top flanges of **UW 50, UW 75, UW 100 or HP 66, HP 70, HP 95, HP 120** profiles. Their maximal spacing in axes is **60 cm** or **62,5 cm**. The length of **CW 50, CW 75, CW 100 or VP 66, VP 70, VP 95, VP 120** profiles is shorter of 1,5 cm than the distance between webs of the bottom and top profiles **UW 50, UW 75, UW 100 or HP 66, HP 70, HP 95, HP 120.**

First layer of gypsum plasterboards **GKB type A** thickness of **12,5 mm, Acoustic type A** thickness of **12,5 mm, Norgips HARD type DIR** thickness of **12,5 mm** or **GKBI type H2** thickness of **12,5** mm is fixed to the bottom **UW** profiles and to **CW** profiles (studs) with steel screws ϕ **3,5 x 25 mm** in maximal spacing of **75 cm**. Second layer of gypsum plasterboards **GKB type A** thickness of **12,5 mm, Acoustic type A** thickness of **12,5 mm, Norgips HARD type DIR** thickness of **12,5 mm** or **GKBI type H2** thickness of **12,5 mm** is fixed to the bottom UW profiles and to CW profiles (studs) with steel screw ϕ **3,5 x 35 mm** in maximal spacing of **25 cm**.

The boards are installed in this way that there are no vertical joints first layer of lining on both sides of the wall. Vertical joints are shifted **minimum of 30 cm**, usually this shift is **60 cm** or **62,5 cm**. The vertical joints in second layer of lining are shifted in regard to vertical joints in first layer of lining **minimum of 30 cm**, usually this is **60 cm or 62,5 cm**.

In case that there are horizontal joints between adjacent boards in the wall, they are shifted in regard to each other **minimum of 40 cm**. Horizontal joints in the second layer of lining are shifted in regard to horizontal joints in first layer of **minimum of 40 cm** and are shifted in regard to horizontal joints between adjacent boards in this layer of lining **minimum of 40 cm**.

The screw heads and vertical and horizontal joints of boards **GKB type A, Acoustic type A, HARD type DIR or GKBI type H2** are finished with e.g. **Norgips Start, Norgips Super Filler,** or **Norgips Start & Finish (Norgips Light Ready Mix)** system jointing compound, and vertical and horizontal joints in second board layer are additionally reinforced with reinforcing self-adhesive fiberglass tape or reinforcing fleece tape.

For final finishing the ready-made jointing compounds e.g. **Norgips Start & Finish (Norgips Light Ready Mix), Norgips Extra Finish** or gypsum putty **Norgips Finish** are recommended.

The partition walls are filled with at least 50 mm mineral wool (reaction to fire class of A1).

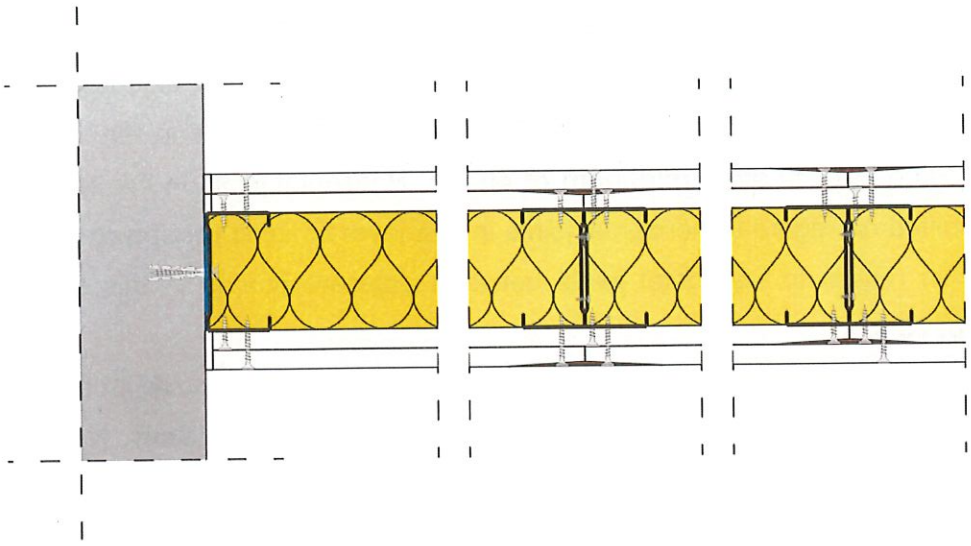
Constructional details of partitions are shown in **Fig. 1 ÷ 2**.

Fire resistance classification of walls is given in **Table 1 – columns 7 and 9**, maximal height of walls is given in **Table 1 – columns 8 and 10**.

In places, where there is expansion joint or movement joint in the building, and in cases when the length of the straight (non-interrupted) part of wall exceeds 15 m the movable connection according to **Fig. 3-4** shall be used.

In the wall, electric cables can be led and electric junction boxes can be installed according to **Fig. 16**.

2.2. Partitions SD - 2x12,5 GKB A/CW 50+CW 50 W50, SD- 2x12,5 GKB A/CW 75+CW 75 W50, SD - 2x12,5 GKB A/CW 100+CW 100 W50, SD - 2x12,5 ACO A/CW 50+CW 50 W50, SD- 2x12,5 ACO A/CW 75+CW 75 W50, SD - 2x12,5 ACO A/CW 100+CW 100 W50, SD - 2x12,5 HARD DIR/CW 50+CW 50 W50, SD- 2x12,5 HARD DIR/CW 75+CW 75 W50, SD - 2x12,5 HARD DIR/CW 100+CW 100 W50, SD - 2x12,5 GKBI H2/CW 50+CW 50 W50, SD - 2x12,5 GKBI H2/CW 75+CW 75 W50, SD - 2x12,5 GKBI H2/CW 100+CW 100 W50, SD - 2x12,5 GKB A/VP 66+VP 66 W50, SD - 2x12,5 GKB A/VP 70+VP 70 W50, SD- 2x12,5 GKB A/ SD - 2x12,5 GKB A/VP 95+VP 95 W50, SD - 2x12,5 GKB A/VP 120+VP 120 W50, SD - 2x12,5 ACO A/VP 66+VP 66 W50, SD - 2x12,5 ACO A/VP 70+VP 70 W50, SD- 2x12,5 ACO A/VP 95+VP 95 W50, SD - 2x12,5 ACO A/VP 120+VP 120 W50, SD - 2x12,5 HARD DIR/VP 66+VP 66 W50, SD - 2x12,5 HARD DIR/VP 70+VP 70 W50, SD- 2x12,5 HARD DIR/VP 95+VP 95 W50, SD - 2x12,5 HARD DIR/VP 120+VP 120 W50, SD - 2x12,5 GKBI H2/VP 66+VP 66 W50, SD - 2x12,5 GKBI H2/VP 70+VP 70 W50, SD - 2x12,5 GKBI H2/VP 95+VP 95 W50, SD - 2x12,5 GKBI H2/VP 120+VP 120 W50 with both sides lining of gypsum plasterboards Norgips S GKB type A, Norgips Acoustic type A, Norgips HARD type DIR or Norgips S GKBI typ H2 thickness of 2x12,5 mm made on single structure with double CW profiles with at least 50 mm mineral wool filling.



Wall structure consists of profiles e.g. Norgips **CW 50 and UW 50, CW 75 and UW 75, CW 100 and UW 100 or VP 66, VP 70, VP 95, VP 120** made of cold-formed, galvanized steel

sheet nominal thickness of **0,55** mm within tolerance of +/- 0,06 mm or **0,6 mm** within tolerance of +/- 0,06 mm.

Perimeter profiles **CW 50 and UW 50, CW 75 and UW 75, CW 100 and UW 100 or VP 66, VP 70, VP 95, VP 120** are fixed to the soffit, floor and side walls by means of mechanical fasteners like anchors, dowels, in **80 cm** spacing.

The polyethylene sealing tape brand of e.g. Norgips thickness of **3 mm** is placed between perimeter profiles and soffit, floor and side walls. The vertical double profiles **CW 50, CW 75, CW 100 or VP 66, VP 70, VP 95, VP 120** with webs screwed by means of steel self-tapping screw ϕ **3,5 x 9,5 mm** in maximum 40 cm spacing, are inserted between bottom and top flanges of **UW 50, UW 75, UW 100 or HP 66, HP 70, HP 95, HP 120** profiles. Their maximal spacing in axes is **60 cm** or **62,5 cm**. The length of **CW 50, CW 75, CW 100 or VP 66, VP 70, VP 95, VP 120** profiles is shorter of 1,5 cm than the distance between webs of the bottom and top profiles **UW 50, UW 75, UW 100 or HP 66, HP 70, HP 95, HP 120**.

First layer of gypsum plasterboards **GKB type A** thickness of **12,5 mm, Acoustic type A thickness of 12,5 mm, Norgips HARD type DIR** thickness of **12,5 mm** or **GKBI type H2** thickness of **12,5 mm** is fixed to the bottom **UW** profiles and to **CW** profiles (studs) with steel screw **ϕ 3,5 x 25 mm** in maximal spacing of **75 cm**. Second layer of gypsum plasterboards **GKB type A** thickness of **12,5 mm**, **Acoustic type A** thickness of **12,5 mm, Norgips HARD type DIR** thickness of **12,5 mm** or **GKBI type H2** thickness of **12,5 mm** is fixed to the bottom **UW** profiles and to **CW** profiles (studs) with steel screw ϕ **3,5 x 35 mm** in maximal spacing of **25 cm**. The boards are installed in this way that there are no vertical joints in first of lining on both sides of the wall. Vertical joints are shifted **minimum of 30 cm**, usually this shift is **60 cm** or **62,5 cm**. The vertical joints in second layer of lining are shifted in regard to vertical joints in first layer of lining **minimum of 30 cm**, usually this shift is **60 cm** or **62,5 cm**. In case that there are horizontal joints between adjacent boards in the wall, they are shifted in regard to each other **minimum of 40 cm**. Horizontal joints in the second layer of living are shifted on regard to horizontal joints in first layer of lining **minimum of 40 cm** and are shifted in regard to horizontal joints between adjacent boards in this layer of lining **minimum of 40 cm.**

The screw heads and vertical and horizontal joints of boards **GKB type A, Acoustic type A, HARD type DIR or GKBI type H2** are finished with e.g. **Norgips Start, Norgips Super Filler** or **Norgips Start & Finish (Norgips Light Ready Mix)** system jointing compound, and vertical and horizontal joints in second board layer are additionally reinforced with reinforcing self-adhesive fiberglass tape or reinforcing fleece tape.

For final finishing the ready-made jointing compounds e.g. **Norgips Start & Finish (Norgips Light Ready Mix), Norgips Extra Finish** or gypsum putty **Norgips Finish** are

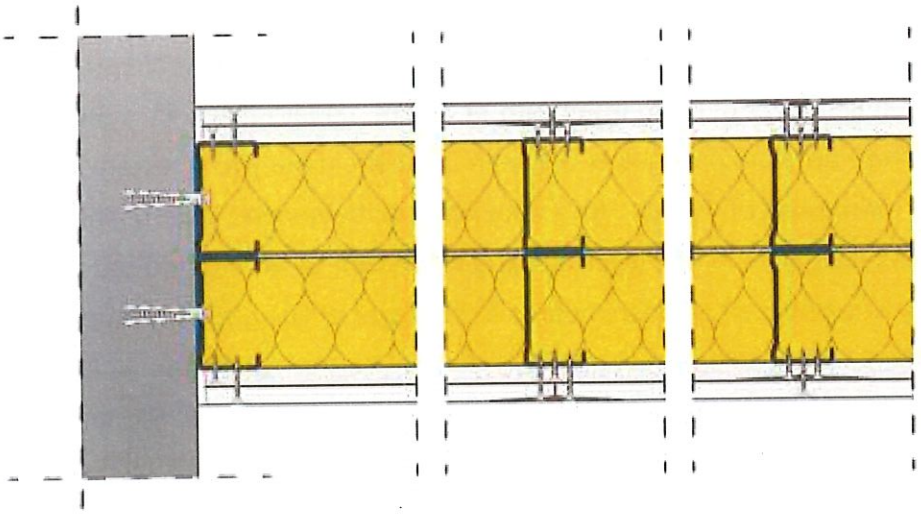
recommended. The partition walls are filled with at least 50 mm mineral wool (reaction to fire class of A1). Constructional details of partitions are shown in **Fig. 5 ÷ 6**.

Fire resistance classification of walls is given in **Table 2 – columns 7 and 9**, maximal height of walls is given in **Table 2 – columns 8 and 10**.

In places, where there is expansion joint or movement joint in the building, and in cases when the length of the straight (non-interrupted) part of wall exceeds 15 m the movable connection according to **Fig. 3-4** shall be used.

In the wall, electric cables can be led and electric junction boxes can be installed according to **Fig. 16**.

2.3. Partitions SD - 2x12,5 GKB A/2xCW 50 W50, SD - 2x12,5 GKB A/2xCW 75 W50, SD - 2x12,5 GKB A/2xCW 100 W50, SD - 2x12,5 ACO A/2xCW 50 W50, SD - 2x12,5 ACO A/2xCW 75 W50, SD - 2x12,5 ACO A/2xCW 100 W50, SD - 2x12,5 GKB A/2xCW 50 W50, SD - 2x12,5 HARD DIR/2xCW 75 W50, SD - 2x12,5 HARD DIR/2xCW 100 W50, SD - 2x12,5 GKBI H2/2xCW 50 W50, SD - 2x12,5 GKBI H2/2xCW 75 W50, SD - 2x12,5 GKBI H2/2xCW 100 W50, SD - 2x12,5 GKB A/2xVP 66 W50, SD - 2x12,5 GKB A/2xVP 70 W50, SD - 2x12,5 GKB A/2xVP 95 W50, SD - 2x12,5 GKB A/2xVP 120 W50, SD - 2x12,5 ACO A/2xVP 66 W50, SD - 2x12,5 ACO A/2xVP 70 W50, SD - 2x12,5 ACO A/2xVP 95 W50, SD - 2x12,5 ACO A/2xVP 120 W50, SD - 2x12,5 HARD DIR /2xVP 66 W50, SD - 2x12,5 HARD DIR /2xVP 70 W50, SD - 2x12,5 HARD DIR/2xVP 95 W50, SD - 2x12,5 HARD DIR/2xVP 120 W50, SD - 2x12,5 GKBI H2/2xVP 66 W50, SD - 2x12,5 GKBI H2/2xVP 70 W50, SD - 2x12,5 GKBI H2/2xVP 95 W50, SD - 2x12,5 GKBI H2/2xVP 120 W50 with both sides lining of gypsum plasterboards Norgips S GKB type A, Norgips Acoustic type A, Norgips HARD type DIR or Norgips S GKBI type H2 thickness of 2x12,5 mm brand of Norgips made on double structure with at least 50 mm mineral wool filling.



Wall structure consists of profiles e.g. Norgips **CW 50 and UW 50, CW 75 and UW 75, CW 100 and UW 100 or VP 66, VP 70, VP 95, VP 120** made of cold-formed, galvanized steel sheet nominal thickness of **0,55 mm** within tolerance of +/- 0,06 mm or **0,6 mm** within tolerance of +/- 0,06 mm.

Perimeter profiles **CW 50 and UW 50, CW 75 and UW 75, CW 100 and UW 100 or VP 66, VP 70, VP 95, VP 120** are fixed in two rows at the distance of 3-5 mm, to the soffit, floor and side walls by means of mechanical fasteners like anchors, dowels, in **80 cm** spacing.

The system polyethylene sealing tape brand of e.g. Norgips thickness of **3 mm** is placed between perimeter profiles and soffit, floor and side walls. The same polyethylene sealing tape is placed between adjacent profiles **CW 50, CW 75, CW 100 or VP 66, VP 70, VP 95, VP 120** located in two rows of the wall structure. The vertical singe profiles **CW 50, CW 75, CW 100 or VP 66, VP 70, VP 95, VP 120** are inserted between bottom and top flanges of **UW 50, UW 75, UW 100 or HP 66, HP 70, HP 95, HP 120** profiles. Their maximal spacing in axes is **60 cm** or **62,5 cm**. The length of **CW 50, CW 75, CW 100 or VP 66, VP 70, VP 95, VP 120** profiles is shorter of 1,5 cm than the distance between webs of the bottom and top profiles **UW 50, UW 75, UW 100 or HP 66, HP 70, HP 95, HP 120**.

First layer of gypsum plasterboards **GKB type A** thickness of **12,5 mm, Acoustic type A** thickness of **12,5 mm, Norgips HARD type DIR** thickness of **12,5 mm** or **GKBI type H2** thickness of **12,5 mm** is fixed to the bottom **UW** profiles and to **CW** profiles (studs) with steel screw ϕ **3,5 x 25 mm** in maximal spacing of **75 cm.** Second layer of gypsum plasterboard **GKB type A** thickness of **12,5 mm, Acoustic type A** thickness of **12,5 mm, Norgips HARD type DIR** thickness of **12,5 mm** or **GKBI type H2** thickness of **12,5 mm** is fixed to the bottom **UW** profiles and to **CW** profiles (studs) with steel screws ϕ **3,5 x 35 mm** in maximal spacing of **25 cm.** The boards are installed in this way that there are no vertical joints in first layer of lining on both sides of the wall. Vertical joints are shifted **minimum of 30 cm**, usually this shift is **60 cm** or **62,5 cm.** The vertical joints in second layer of lining are shifted in regard to vertical joints in first layer of lining **minimum of 30 cm**, usually this shift is **60 cm** or **62,5 cm**. In case that there are horizontal joints between adjacent in the wall, they are shifted in regard to each other **minimum of 40 cm**. Horizontal joints in the second layer of lining are shifted in regard to horizontal joints in first layer of lining **minimum of 40 cm** and are shifted in regard to horizontal joints between adjacent boards in this layer of lining **minimum of 40 cm**.

The screw heads and vertical and horizontal joints of boards **GKB type A, Acoustic type A, HARD type DIR or GKBI type H2** are finished with e.g. **Norgips Start, Norgips Super Filler or Norgips Start & Finish (Norgips Light Ready Mix)** system jointing compound, and vertical and horizontal joints in second board layer are additionally reinforced with reinforcing self-adhesive fiberglass tape or reinforcing fleece tape.

For final finishing the ready-made jointing compounds e.g. **Norgips Start & Finish (Norgips Light Ready Mix), Norgips Extra Finish** or gypsum putty **Norgips Finish** are recommended.

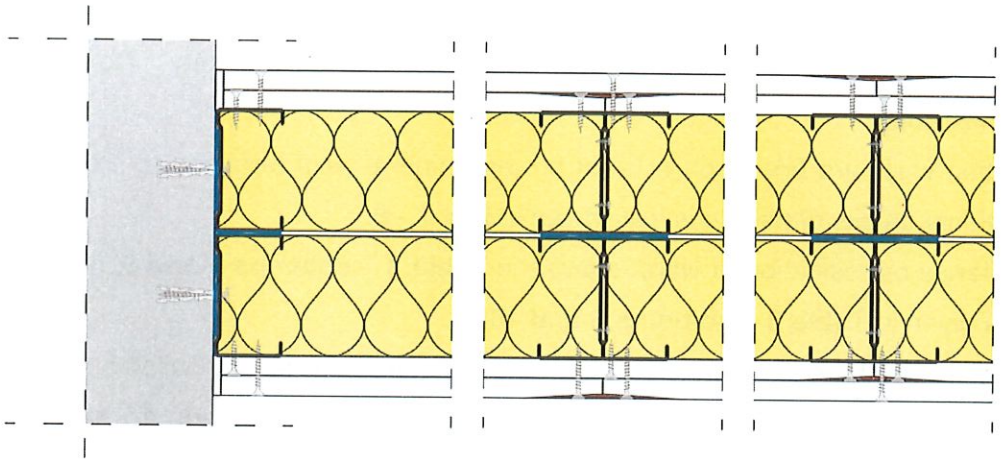
The partition walls are filled with at least 50 mm mineral wool (reaction to fire class of A1). Constructional details of partitions are shown in **Fig. 7 - 8.**

Fire resistance classification of walls is given in **Table 3 – columns 7 and 9**, maximal height of walls is given in **Table 3 – columns 8 and 10**.

In places, where there is expansion joint or movement joint in the building, and in cases when the length of the straight (non-interrupted) part of wall exceeds 15 m the movable connection according to **Fig. 11-12** shall be used.

In the wall, electric cables can be led and electric junction boxes can be installed according to **Fig. 16**.

2.4. Partitions SD - 2x12,5 GKB A/2xCW 50+CW 50 W50, SD - 2x12,5 GKB A/2xCW 75+CW 75 W50, SD - 2x12,5 GKB A/2xCW 100+CW 100 W50, SD - 2x12,5 ACO A/2xCW 50+CW 50 W50, SD - 2x12,5 ACO A/2xCW 75+CW 75 W50, SD - 2x12,5 ACO A/2xCW 100+CW 100 W50, SD - 2x12,5 HARD DIR A/2xCW 50+CW 50 W50, SD - 2x12,5 HARD DIR/2xCW 75+CW 75 W50, SD - 2x12,5 HARD DIR/2xCW 100+CW 100 W50, SD - 2x12,5 GKBI H2/2xCW 50+CW 50 W50, SD - 2x12,5 GKBI H2/2xCW 75+CW 75 W50, SD - 2x12,5 GKBI H2/2xCW 100+CW 100 W50, SD - 2x12,5 GKB A/2xVP 66+VP 66 W50, SD - 2x12,5 GKB A/2xVP 70+VP 70 W50, SD - 2x12,5 GKB A/2xVP 95+VP 95 W50, SD - 2x12,5 GKB A/2xVP 120+VP 120 W50, SD - 2x12,5 ACO A/2xVP 66+VP 66 W50, SD - 2x12,5 ACO A/2xVP 70+VP 70 W50, SD - 2x12,5 ACO A/2xVP 95+VP 95 W50, SD - 2x12,5 ACO A/2xVP 120+VP 120 W50, SD - 2x12,5 HARD DIR /2xVP 66+VP 66 W50, SD - 2x12,5 HARD DIR /2xVP 70+VP 70 W50, SD - 2x12,5 HARD DIR /2xVP 95+VP 95 W50, SD - 2x12,5 HARD DIR/2xVP 120+VP 120 W50, SD - 2x12,5 GKBI H2/2xVP 66+VP 66 W50, SD - 2x12,5 GKBI H2/2xVP 70+VP 70 W50, SD - 2x12,5 GKBI H2/2xVP 95+VP 95 W50, SD - 2x12,5 GKBI H2/2xVP 120+VP 120 W50 with both sides lining of gypsum plasterboards Norgips S GKB type A, Norgips Acoustic type A, Norgips HARD type DIR or Norgips S GKBI type H2 thickness of 2 x 12,5 mm brand of Norgips made on double structure with double CW profiles with at least 50 mm mineral wool filling.



Wall structure consists of double profiles e.g. Norgips **CW 50 and UW 50, CW 75 and UW 75, CW 100 and UW 100 or VP 66, VP 70, VP 95, VP 120** made of cold-formed, galvanized steel sheet nominal thickness of **0,55 mm** within tolerance of +/- 0,66 mm or **0,6 mm** within tolerance of +/- 0,06 mm.

Perimeter profiles **CW 50 and UW 50, CW 75 and UW 75, CW 100 and UW 100 or VP 66, VP 70, VP 95, VP 120** are fixed in two rows at the distance of 3-5 mm, to the soffit, floor and side walls by means of mechanical fasteners like anchors, dowels, in **80 cm** spacing.

Perimeter profiles **CW 50, CW 75, CW 100 or VP 66, VP 70, VP 95, VP 120** and **UW 50, UW 75, UW 100 or HP 66, HP 70, HP 95, HP 120** are fixed in two rows at the distance of 3-5 mm, to the soffit, floor and side walls by means of mechanical fasteners like anchors, dowels, in **80 cm** spacing.

The system polyethylene sealing tape brand of e.g. Norgips thickness of **3 mm** is placed between perimeter profiles and soffit, floor and side walls. The same polyethylene sealing tape is placed between adjacent profiles **CW 50 and UW 50, CW 75 and UW 75, CW 100 and UW 100 or VP 66, VP 70, VP 95, VP 120** located in two rows of the wall structure. The vertical double profiles **CW 50, CW 75, CW 100 or VP 66, VP 70, VP 95, VP 120** with webs screwed by means of system steel self-tapping screw ϕ **3,5 x 9,5 mm** in maximum 40 cm spacing, are inserted between bottom and top flanges of **UW 50, UW 75, UW 100 or HP 66, HP 70, HP 95, HP 120** profiles. Their maximal spacing in axes is **60 cm** or **62,5 cm**. The length of **CW 50, CW 75, CW 100 or VP 66, VP 70, VP 95, VP 120** profiles is shorter of 1,5 cm than the distance between webs of the bottom and top profiles **UW 50, UW 75, UW 100 or HP 66, HP 70, HP 95, HP 120**.

First layer of gypsum plasterboards **GKB type A** thickness of **12,5 mm, Acoustic type A** thickness of **12,5 mm, Norgips HARD type DIR** thickness of **12,5 mm** or **GKBI type H2** thickness of **12,5 mm** is fixed to the bottom **UW** profiles and to **CW** profiles (studs) with steel screw ϕ **3,5 x 25 mm** in maximal spacing of **75 cm**.

Second layer of gypsum plasterboard **GKB type A** thickness of **12,5 mm, Acoustic type A** thickness of **12,5 mm, Norgips HARD type DIR** thickness of **12,5 mm** or **GKBI type H2** thickness of **12,5 mm** is fixed to the bottom **UW** profiles and to **CW** profiles (studs) with steel screws ϕ **3,5 x 35 mm** in maximal spacing of **25 cm**. The boards are installed in this way that there are no vertical joints in first layer of lining on both sides of the wall. Vertical joints are shifted **minimum of 30 cm**, usually this shift is **60 cm** or **62,5 cm.** The vertical joints in second layer of lining are shifted in regard to vertical joints in first layer of lining **minimum of 30 cm**, usually this shift is **60 cm** or **62,5 cm**. In case that there are horizontal joints between adjacent in the wall, they are shifted in regard to each other **minimum of 40 cm**. Horizontal joints in the second layer of lining are shifted in regard to horizontal joints in first layer of lining **minimum of 40 cm** and are shifted in regard to horizontal joints between adjacent boards in this layer of lining **minimum of 40 cm**.

The screw heads and vertical and horizontal joints of boards **GKB type A, Acoustic type A, HARD type DIR or GKBI type H2** are finished with e.g. **Norgips Start**, **Norgips Super Filler** or **Norgips Start & Finish (Norgips Light Ready Mix)** system jointing compound, and vertical and horizontal joints in second board layer are additionally reinforced with reinforcing self-adhesive fiberglass tape or reinforcing fleece tape.

For final finishing the ready-made jointing compounds e.g. **Norgips Start & Finish (Norgips Light Ready Mix), Norgips Extra Finish** or gypsum putty **Norgips Finish** are recommended.

The partition walls are filled with at least **50 mm** mineral wool (reaction to fire class of A1).

Constructional details of partitions are shown in **Fig. 9 - 10.**

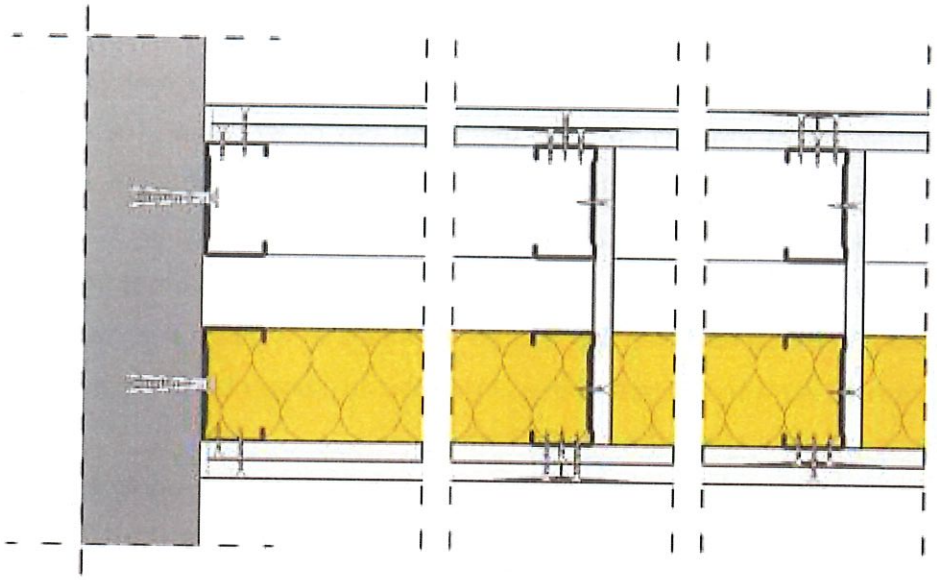
Fire resistance classification of walls is given in **Table 4 – columns 7 and 9**, maximal height of walls is given in **Table 4 – columns 8 and 10**.

In places, where there is expansion joint or movement joint in the building, and in cases when the length of the straight (non-interrupted) part of wall exceeds 15 m the movable connection according to **Fig. 11-12** shall be used.

In the wall, electric cables can be led and electric junction boxes can be installed according to **Fig. 16**.

2.5. Partitions SDI - 2x12,5 GKB A/2xCW 50 W50, SDI - 2x12,5 GKB A/2xCW 75 W50, SDI - 2x12,5 GKB A/2xCW 100 W50, SDI - 2x12,5 ACO A/2xCW 50 W50, SDI - 2x12,5 ACO A/2xCW 75 W50, SDI - 2x12,5 ACO A/2xCW 100 W50, SDI - 2x12,5 HARD DIR/2xCW 50 W50, SDI - 2x12,5 HARD DIR/2xCW 75 W50, SDI - 2x12,5 HARD DIR/2xCW 100 W50, SDI - 2x12,5 GKBI H2/2xCW 50 W50, SDI - 2x12,5 GKBI H2/2xCW 75 W50, SDI - 2x12,5 GKBI H2/2xCW 100 W50 with both sides lining of gypsum plasterboards Norgips S GKB type A, Norgips Acoustic type A, Norgips HARD type DIR or Norgips S GKBI type H2 thickness

of 2x12,5 mm brand of Norgips made on double structure with at least 50 mm mineral wool filling.



Wall structure consists of double profiles e.g. Norgips **CW 50 and UW 50, CW 75 and UW 75, CW 100 and UW 100 or VP 66, VP 70, VP 95, VP 120** made of cold-formed, galvanized steel sheet nominal thickness of **0,55 mm** within tolerance of +/- 0,66 mm or **0,6 mm** within tolerance of +/- 0,06 mm.

Perimeter profiles **CW 50 and UW 50, CW 75 and UW 75, CW 100 and UW 100 or VP 66, VP 70, VP 95, VP 120** are fixed in two rows at the distance of maximum 13 cm, to the soffit, floor and side walls by means of mechanical fasteners like anchors, dowels, in **80 cm** spacing.

The system polyethylene sealing tape brand of e.g. Norgips thickness of **3 mm** is placed between perimeter profiles and soffit, floor and side walls. The vertical single profiles **CW 50, CW 75, CW 100 or VP 66, VP 70, VP 95, VP 120** are inserted between bottom and top flanges of **UW 50, UW 75, UW 100 or HP 66, HP 70, HP 95, HP 120** profiles. The profiles **CW 50, CW 75, CW 100 or VP 66, VP 70, VP 95, VP 120** adjacent in two rows are connected with batten of plasterboards **GKB type A** thickness of **12,5 mm, Acoustic type A** thickness of **12,5 mm, Norgips HARD type DIR** thickness of **12,5 mm** or **GKBI type H2** thickness of **12,5 mm**. The minimum height is 30 cm; spacing in batten axes is 90 cm. The battens are fixed with screws ϕ **3,5 x 25 m.** The battens are fixed with screws ϕ **3,5 x 25 m.**

The profiles (studs) maximal spacing in axes is **60 cm** or **62,5 cm**. The length of **CW 50, CW 75, CW 100 or VP 66, VP 70, VP 95, VP 120** profiles is shorter of 1,5 cm than the distance between webs of the bottom and top profiles **UW 50, UW 75, UW 100 or HP 66, HP 70, HP 95, HP 120**.

First layer of gypsum plasterboards **GKB type** A thickness of **12,5 mm, Acoustic type A** thickness of **12,5 mm, Norgips HARD type DIR** thickness of **12,5 mm** or **GKBI type H2** thickness of **12,5 mm** is fixed to the bottom **UW** profiles and to **CW** profiles (studs) with steel screw ϕ **3,5 x 25 mm** in maximal spacing of **75 cm.**

Second layer of gypsum plasterboard **GKB type A** thickness of **12,5 mm, Acoustic type A** thickness of **12,5 mm, Norgips HARD type DIR** thickness of **12,5 mm** or **GKBI type H2** thickness of **12,5 mm** is fixed to the bottom **UW** profiles and to **CW** profiles (studs) with steel screws ϕ **3,5 x 35 mm** in maximal spacing of **25 cm**. The boards are installed in this way that there are no vertical joints in first layer of lining on both sides of the wall. Vertical joints are shifted **minimum of 30 cm**, usually this shift is **60 cm** or **62,5 cm**. The vertical joints in second layer of lining are shifted in regard to vertical joints in first layer of lining **minimum of 30 cm**, usually this shift is **60 cm** or **62,5 cm**. In case that there are horizontal joints between adjacent in the wall, they are shifted in regard to each other **minimum of 40 cm**. Horizontal joints in the second layer of lining are shifted in regard to horizontal joints in first layer of lining **minimum of 40 cm** and are shifted in regard to horizontal joints between adjacent boards in this layer of lining **minimum of 40 cm**

The screw heads and vertical and horizontal joints of boards **GKB type A, Acoustic type A, HARD type DIR** or **GKBI type H2** are finished with e.g. **Norgips Start, Norgips Super Filler** or **Norgips Start & Finish (Norgips Light Ready Mix)** system jointing compound, and vertical and horizontal joints in second board layer are additionally reinforced with reinforcing self-adhesive fiberglass tape or reinforcing fleece tape. For final finishing the ready-made jointing compounds e.g. **Norgips Start & Finish (Norgips Light Ready Mix), Norgips Extra Finish** or gypsum putty **Norgips Finish** are recommended.

The partition walls are filled with at least **50 mm** mineral wool (reaction to fire class of A1).

Constructional details of partitions are shown in **Fig. 13 - 14.**

Fire resistance classification of walls is given in **Table 5 – columns 8 and 10**, maximal height of walls is given in **Table 5 – columns 9 and 11**.

In places, where there is expansion joint or movement joint in the building, and in cases when the length of the straight (non-interrupted) part of wall exceeds 15 m the movable connection according to **Fig. 15** shall be used.

In the wall, electric cables can be led and electric junction boxes can be installed according to **Fig. 16**.

3. Fire resistance test of non-loadbearing partition with lining of gypsum plasterboards of company Norgips Sp. z o.o.

In the laboratory of the INSTITUTE OF CERAMICS AND BUILDING MATERIALS - ŁUKASIEWICZ RESEARCH NETWORK in Krakow the fire resistance test of non-loadbearing partition SD – 2x12,5 GKB A CW 50 with both sides lining of gypsum plasterboards Norgips S GKB type A thickness of 2 x 12,5 mm brand of Norgips on system steel profiles CW 50 and UW 50 of company Norgips Sp. z o.o. with glass mineral wool filling. (thick 50mm).Test Report No No. 020.BO.23.AK [1.8].

4. Fire resistance classification of non-loadbearing partitions

Based on analysis of test results indicated in item 3, the non-loadbearing partitions with linings of gypsum plasterboards of company Norgips Sp. z o.o., constructed in accordance with technical description given in clause 2, are classified:

- According to the standard PN-EN 13501-2:2023-09 [1.3] in fire resistance classes given in Tables No 1 ÷ 5 in column 7, for maximal wall heights given in Tables No 1 ÷ 5 in column 8,
- According to the criteria of the standard PN-EN 13501-2:2023-09 [1.3] in fire resistance classes given in Tables No 1 ÷ 5 in column 9, for maximal wall heights given in Tables No 1 ÷ 5 in column 10,

5. Non-loadbearing partitions with linings of gypsum plasterboards of company Norgips Sp. z o.o. performing fire separation function

Non-loadbearing partitions, executed in accordance with technical description given in clause 3, can serve as fire separation fulfilling the fire resistance criteria REI, provided that they are:

- Fixed to or supported on structural element fulfilling criteria of fire resistance class not less than fire resistance class of wall in respect of EI criteria,
- Not subjected to mechanical loads coming from building structure,
- Fixed to the elements of the building in accordance with the building design.

6. Classification validity period

The classification given in clause 5 is valid until 27.03.2029, on the condition that the technical solutions of the non-load bearing partition walls are not changed with respect to the utilised materials, or design.

Appendix 1 - Drawings of non-load-bering wall partitions Norgips with lining of gypsum plasterboards Norgips S GKB type A, Norgips S Acoustic type A, Norgips S HARD type DIR and Norgips S GKBI type H2

Appendix 2 - Tables 1-5 with technical data of non-load-bering partitions wall Norgips with lining of gypsum plasterboards Norgips S GKB type A, Norgips S Acoustic type A, Norgips S HARD type DIR and Norgips S GKBI type H2.

Prezes Zarządu

Andrzej Szarycki

GRYFITLAB Sp. z o.o.
Zespół Laboratoriów
Badawczych Gryfitlab
ul. Prosta 2, Łozienica
72-100 GOLENIÓW

Fire resistance classification No. LBO – 127 – KZ/24E

Appendix 1

Drawings of non-load-bering partitions wall Norgips with lining of gypsum plasterboards Norgips S GKB type A, Norgips S Acoustic type A, Norgips HARD type DIR and Norgips S GKBI type H2

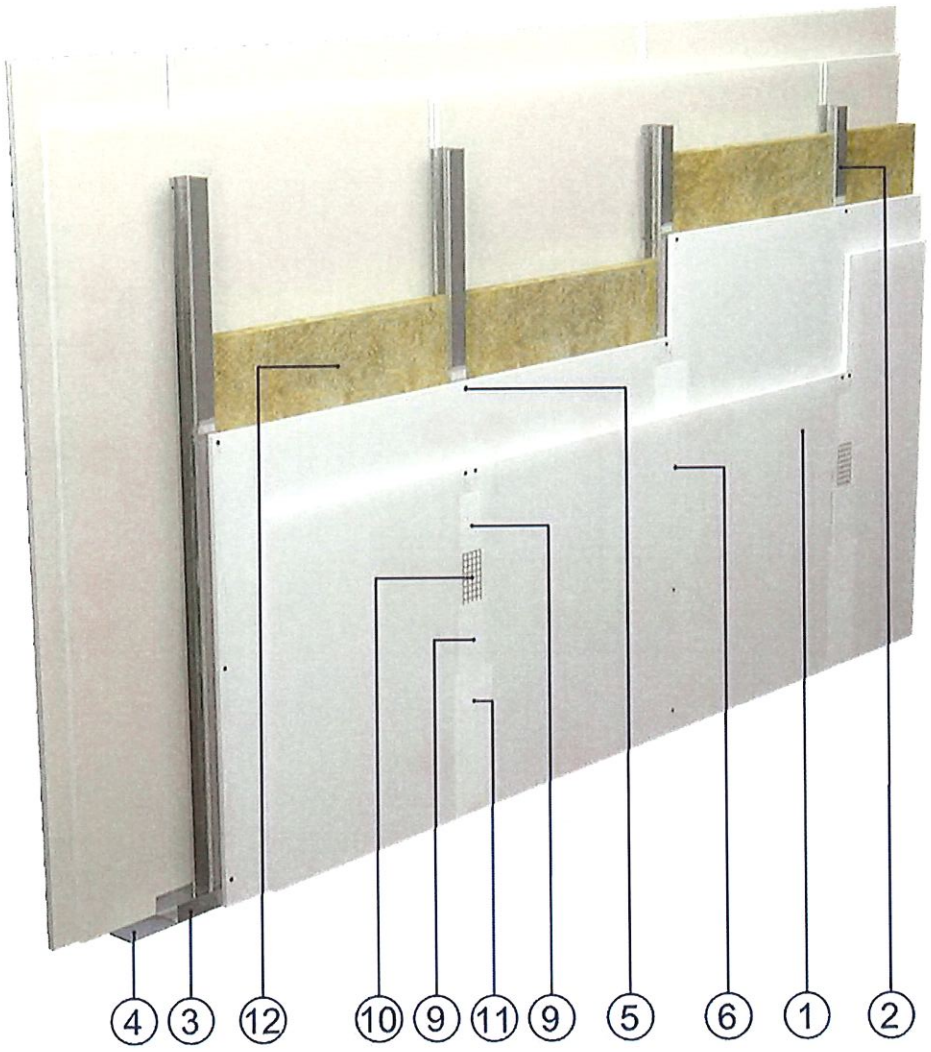


Fig. 1. View of the wall

1. Gypsum plasterboards Norgips S GKB type A, Acoustic type A, HARD type DIR or GKBI type H2 thickness of 2 x 12,5 mm
2. Profile e.g. Norgips CW 50/CW 75/CW 100 or VP 66/ VP 70/ VP 95/ VP 120 of steel sheet thickness of min. 0,55 mm in maximal spacing of 60 cm or 62,5 cm
3. Profile e.g. Norgips UW 50/UW 75/ UW 100 or HP 66/ HP 70/ HP 95/ HP 120 of steel sheet thickness of min. 0,55 mm
4. Sealing tape e.g. Norgips width 50 mm/75 mm/100 mm
5. Steel screw ϕ 3,5 x 25 mm in max. 75 cm spacing
6. Steel screw ϕ 3,5 x 35 mm in max. 25 cm spacing
9. Gypsum filler e.g. Norgips Start, Super Filler
   or ready-mixed Norgips Start & Finish (Norgips Light Ready Mix)
10. Reinforcing self-adhesive fiberglass or fleece tape
11. Ready-made jointing compounds e.g. Norgips Start & Finish (Norgips Light Ready Mix), Norgips Extra Finish or gypsum filler Norgips Finish
12. Mineral wool

GRYFITLAB Sp. z o.o.
Zespół Laboratoriów
Badawczych Gryfitlab
ul. Prosta 2, Łozienica
72-100 GOLENIÓW

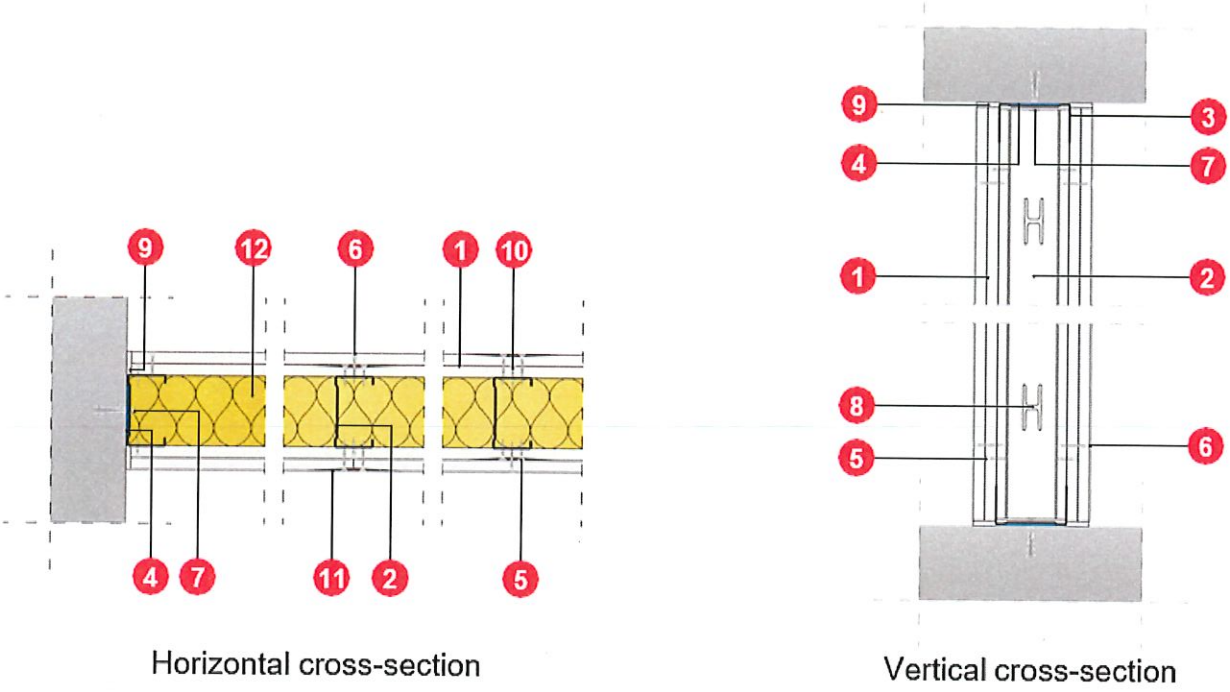


Fig. 2 Cross-section

1. Gypsum plasterboards Norgips S GKB type A, Acoustic type A, HARD type DIR or GKBI type H2 thickness of 2 x 12,5 mm
2. Profile e.g. Norgips CW 50/CW 75/CW 100 or VP 66/ VP 70/ VP 95/ VP 120 of steel sheet thickness of min. 0,55 mm in maximal spacing of 60 cm or 62,5 cm
3. Profile e.g. Norgips UW 50/UW 75/ UW 100 or HP 66/ HP 70/ HP 95/ HP 120 of steel sheet thickness of min. 0,55 mm
4. Sealing tape e.g. Norgips width 50 mm/75 mm/100 mm
5. Steel screw ϕ 3,5 x 25 mm in max. 75 cm spacing
6. Steel screw ϕ 3,5 x 35 mm in max. 25 cm spacing
7. Mechanical fastener e.g. anchor, dowel, min. ϕ 6 x 40 mm in max. 80 cm spacing
8. Holes in studs for routing installation cables
9. Gypsum filler e.g. Norgips Start, Super Filler or ready-mixed Norgips Start & Finish (Norgips Light Ready Mix)
10. Gypsum filler e.g. Norgips Start, Super Filler or ready-mixed Norgips Start & Finish (Norgips Light Ready Mix) + reinforcing self-adhesive fiberglass or fleece tape
11. Ready-mixed finishing compound e.g. Norgips Extra Finish, ready-mixed Norgips Start & Finish (Norgips Light Ready Mix) or gypsum filler Norgips Finish
12. Mineral wool

GRYFITLAB Sp. z o.o.
Zespół Laboratoriów
Badawczych Gryfitlab
ul. Prosta 2, Łozienica
72-100 GOLENIÓW

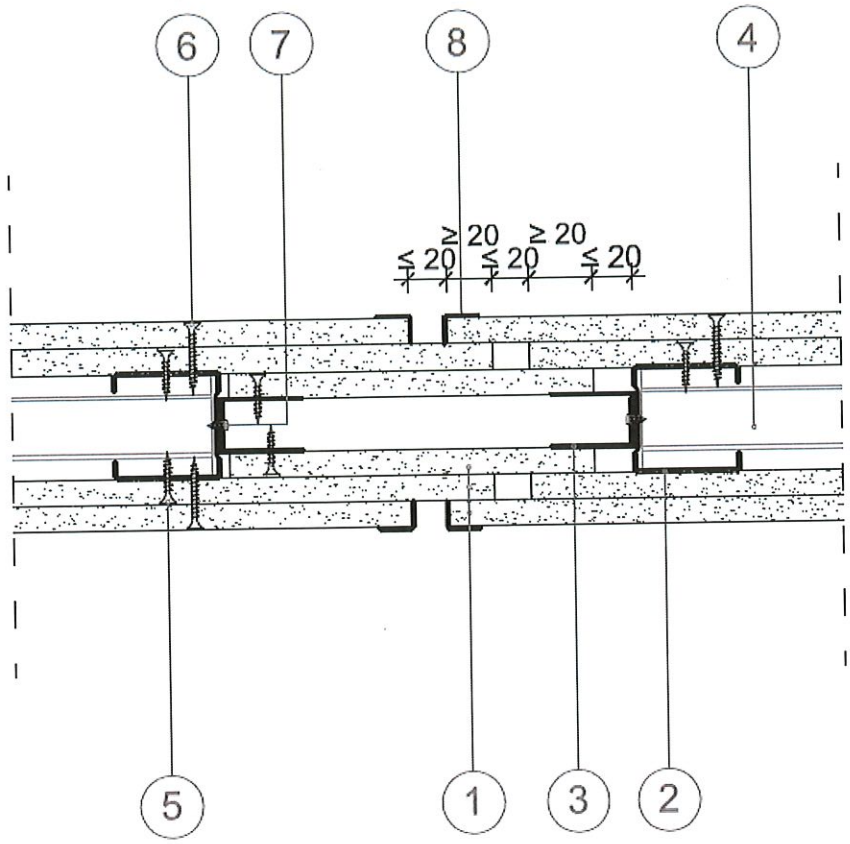


Fig. 3. Movable connection

1. Gypsum plasterboards Norgips S GKB type A, Acoustic type A, HARD type DIR or GKBI type H2 thickness of 2 x 12,5 mm
2. Profile e.g. Norgips CW 50/CW 75/CW 100 of steel sheet thickness of min. 0,55 mm
3. Angles 2xL 25x50/2xL 50x50/2xL 75x50 of steel sheet thickness of min. 0,55 mm screwed to profiles CW 50/CW 75/CW 100 with steel self-tapping screws ϕ 3,5 x 9,5 in max. 40 cm spacing
4. Profile e.g. Norgips UW 50/UW 75/ UW 100 of steel sheet thickness of min. 0,55 mm
5. Steel screw ϕ 3,5 x 25 mm in max. 75 cm spacing
6. Steel screw ϕ 3,5 x 35 mm in max. 25 cm spacing
7. Steel self-tapping screws ϕ 3,5 x 9,5 mm in max. 40 cm spacing
8. Corner protection profile for gypsum plasterboards (recommended)

GRYFITLAB Sp. z o.o.
Zespół Laboratoriów
Badawczych Gryfitlab
ul. Prosta 2, Łozienica
72-100 GOLENIÓW

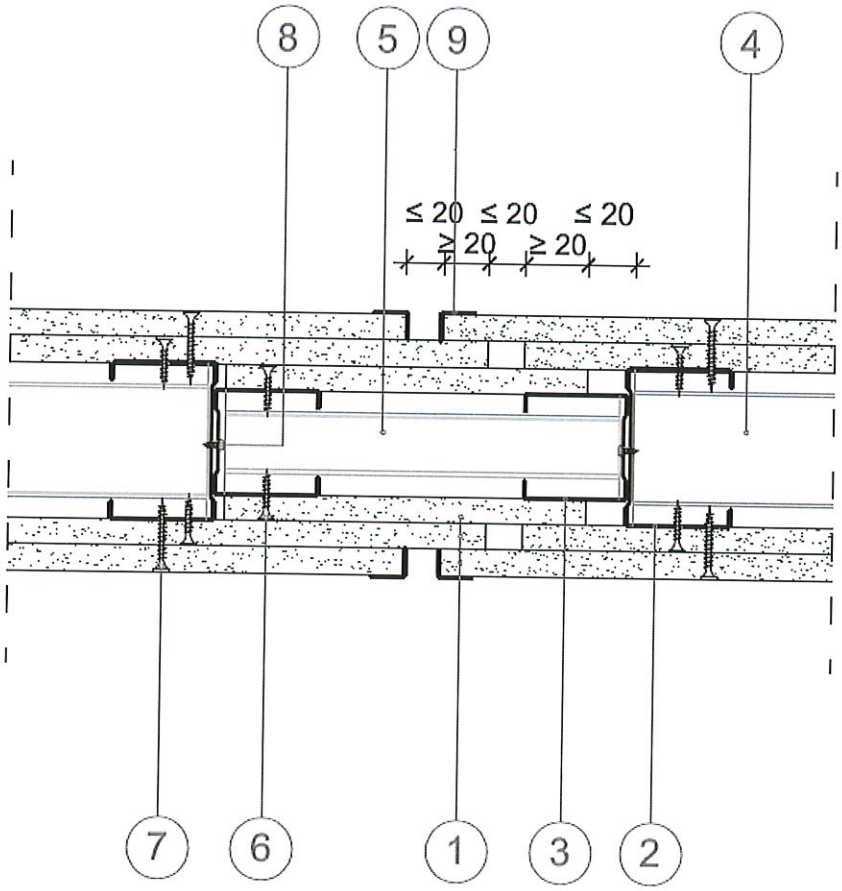


Fig. 4. Movable connection

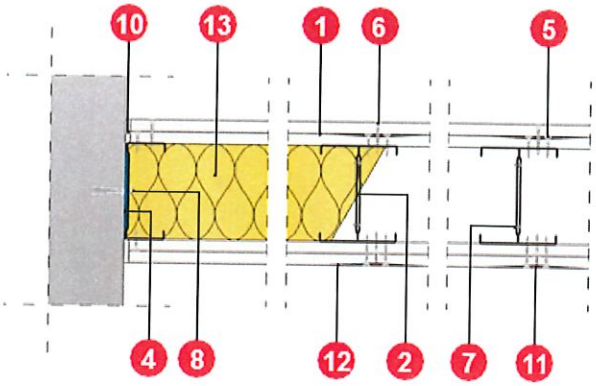
1. Gypsum plasterboards Norgips S GKB type A, Acoustic type A, HARD type DIR or GKBI type H2 thickness of 2 x 12,5 mm
2. Profile e.g. Norgips e.g. CW 75/CW 100 of steel sheet thickness of min. 0,55 mm
3. Profile e.g. Norgips e.g. CW 50/CW 75 of steel sheet thickness of min. 0,55 mm
4. Profile e.g. Norgips UW 75/ UW 100 of steel sheet thickness of min. 0,55 mm
5. Profile Norgips UW 50/UW 75/ of steel sheet thickness of min. 0,55 mm
6. Steel screw ϕ 3,5 x 25 mm in max. 75 cm spacing
7. Steel screw ϕ 3,5 x 35 mm in max. 25 cm spacing
8. Steel self-tapping screws ϕ 3,5 x 9,5 mm in max. 40 cm spacing
9. Corner protection profile for gypsum plasterboards (recommended)

GRYFITLAB Sp. z o.o.
Zespół Laboratoriów
Badawczych Gryfitlab
ul. Prosta 2, Łozienica
72-100 GOLENIÓW

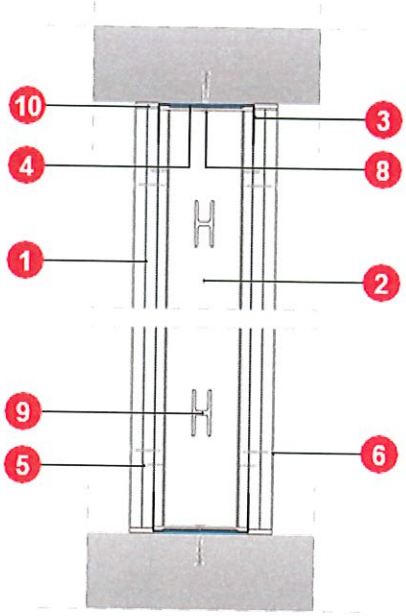
Fig. 5. View of the wall

1. Gypsum plasterboards Norgips S GKB type A, Acoustic type A, HARD type DIR or GKBI type H2 thickness of 2 x 12,5 mm
2. Double profile e.g. Norgips CW 50/CW 75/CW 100 or VP 66/ VP 70/ VP 95/ VP 120 of steel sheet thickness of min. 0,55 mm with webs screwed by means of steel self-tapping screw ϕ 3,5 x 9,5 mm in maximum 40 cm spacing in maximal spacing of 60 cm or 62,5 cm
3. Profile e.g. Norgips UW 50/UW 75/ UW 100 or HP 66/ HP 70/ HP 95/ HP 120 of steel sheet thickness of min. 0,55 mm
4. Sealing tape e.g. Norgips width 50 mm/75 mm/100 mm
5. Steel screw ϕ 3,5 x 25 mm in max. 75 cm spacing
6. Steel screw ϕ 3,5 x 25 mm in max. 75 cm spacing
10. Gypsum filler e.g. Norgips Start, Super Filler
    or ready-mixed Norgips Start & Finish (Norgips Light Ready Mix)
11. Reinforcing self-adhesive fiberglass or fleece tape
12. Ready-made jointing compounds e.g. Norgips Start & Finish (Norgips Light Ready Mix), Norgips Extra Finish or gypsum filler Norgips Finish
13. Mineral wool

GRYFITLAB Sp. z o.o.
Zespół Laboratoriów
Badawczych Gryfitlab
ul. Prosta 2, Łozienica
72-100 GOLENIÓW



Horizontal cross-section



Vertical cross-section

Fig. 6 Cross-section

1. Gypsum plasterboards Norgips S GKB type A, Acoustic type A, HARD type DIR or GKBI type H2 thickness of 2 x 12,5 mm
2. Profile e.g. Norgips CW 50/CW 75/CW 100 or VP 66/ VP 70/ VP 95/ VP 120 of steel sheet thickness of min. 0,55 mm in maximal spacing of 60 cm or 62,5 cm
3. Profile e.g. Norgips UW 50/UW 75/ UW 100 or HP 66/ HP 70/ HP 95/ HP 120 of steel sheet thickness of min. 0,55 mm
4. Sealing tape e.g. Norgips width 50 mm/75 mm/100 mm
5. Steel screw ϕ 3,5 x 25 mm in max. 75 cm spacing
6. Steel screw ϕ 3,5 x 35 mm in max. 25 cm spacing
7. Steel screw ϕ 3,5 x 9,5 mm in max. 40 cm spacing
8. Mechanical fastener e.g. anchor, dowel, min. ϕ 6 x 40 mm in max. 80 cm spacing
9. Holes in studs for routing installation cables
10. Gypsum filler e.g. Norgips Start, Super Filler or ready-mixed Norgips Start & Finish
11. Gypsum filler e.g. Norgips Start, Super Filler or ready-mixed Norgips Start & Finish (Norgips Light Ready Mix) + reinforcing self-adhesive fiberglass or fleece tape
12. Ready-made jointing compounds e.g. Norgips Start & Finish (Norgips Light Read Mix), Norgips Extra Finish or gypsum filler Norgips Finish
13. Mineral wool

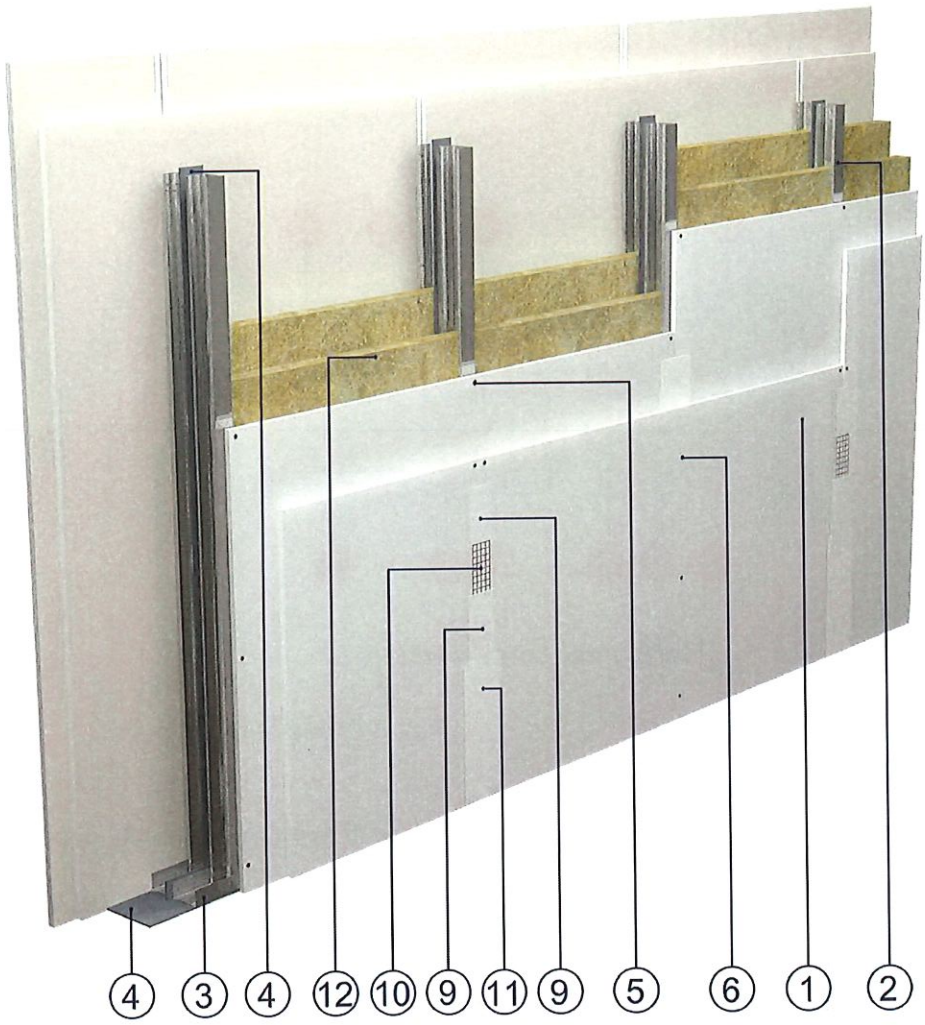
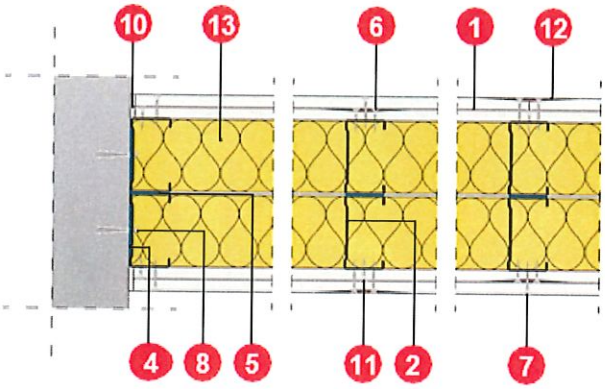


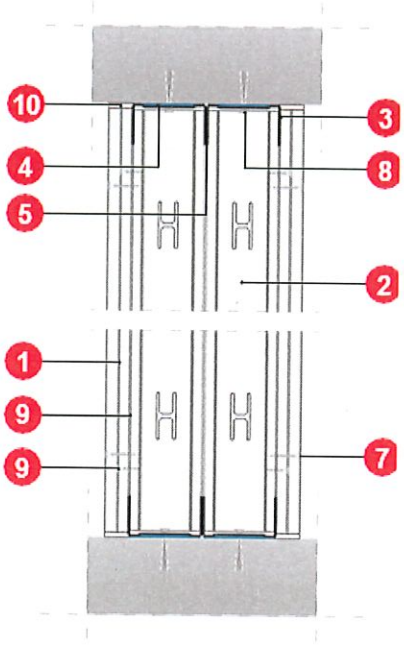
Fig. 7. View of the wall

1. Gypsum plasterboards Norgips S GKB type A, Acoustic type A, HARD type DIR or GKBI type H2 thickness of 2 x 12,5 mm
2. Profile e.g. Norgips CW 50/CW 75/CW 100 or VP 66/ VP 70/ VP 95/ VP 120 of steel sheet thickness of min. 0,55 mm fixed in two rows in maximal spacing of 60 cm or 62,5 cm
3. Profile e.g. Norgips UW 50/UW 75/ UW 100 or HP 66/ HP 70/ HP 95/ HP 120 of steel sheet thickness of min. 0,55 mm fixed in two rows
4. Sealing tape e.g. Norgips width 50 mm/75 mm/100 mm
5. Steel screw ϕ 3,5 x 25 mm in max. 75 cm spacing
6. Steel screw ϕ 3,5 x 35 mm in max. 25 cm spacing
9. Gypsum filler e.g. Norgips Start, Super Filler or ready-mixed Norgips Start & Finish (Norgips Light Ready Mix)
10. Reinforcing self-adhesive fiberglass or fleece tape
11. Ready-made jointing compounds e.g. Norgips Start & Finish (Norgips Light Ready Mix), Norgips Extra Finish or gypsum filler Norgips Finish
12. Mineral wool

GRYFITLAB Sp. z o.o.
Zespół Laboratoriów
Badawczych Gryfitlab
ul. Prosta 2, Łozienica
72-100 GOLENIÓW



Horizontal cross-section



Vertical cross-section

Fig. 8 Cross-section

1. Gypsum plasterboards Norgips S GKB type A, Acoustic type A, HARD type DIR or GKBI type H2 thickness of 2 x 12,5 mm
2. Profile e.g. Norgips CW 50/CW 75/CW 100 or VP 66/ VP 70/ VP 95/ VP 120 of steel sheet thickness of min. 0,55 mm fixed in two rows in maximal spacing of 60 cm or 62,5 cm
3. Profile e.g. Norgips UW 50/UW 75/ UW 100 or HP 66/ HP 70/ HP 95/ HP 120 of steel sheet thickness of min. 0,55 mm fixed in two rows
4. Sealing tape e.g. Norgips width 50 mm/75 mm/100 mm
5. Sealing tape e.g. Norgips width 50 mm
6. Steel screw ϕ 3,5 x 25 mm in max. 75 cm spacing
7. Steel screw ϕ 3,5 x 35 mm in max. 25 cm spacing
8. Mechanical fastener e.g. anchor, dowel, min. ϕ 6 x 40 mm in max. 80 cm spacing
9. Holes in studs for routing installation cables
10. Gypsum filler e.g. Norgips Start, Super Filler or ready-mixed Norgips Start & Finish (Norgips Light Ready Mix)
11. Gypsum filler e.g. Norgips Start, Super Filler or ready-mixed Norgips Start & Finish (Norgips Light Ready Mix) + reinforcing self-adhesive fiberglass or fleece tape
12. Ready-mixed finishing compound e.g. Norgips Extra Finish, ready-mixed Norgips Start & Finish (Norgips Light Ready Mix) or gypsum filler Norgips Finish
13. Mineral wool

GRYFITLAB Sp. z o.o.
Zespół Laboratoriów
Badawczych Gryfitlab
ul. Prosta 2, Łozienica
72-100 GOLENIÓW

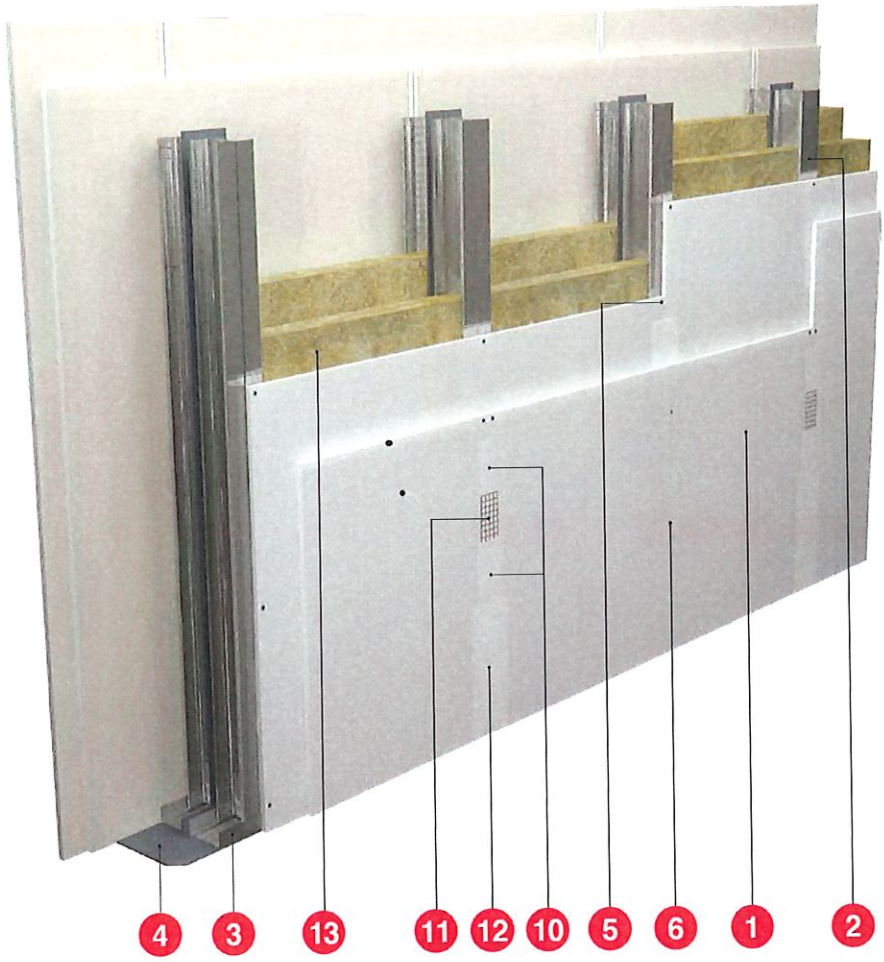
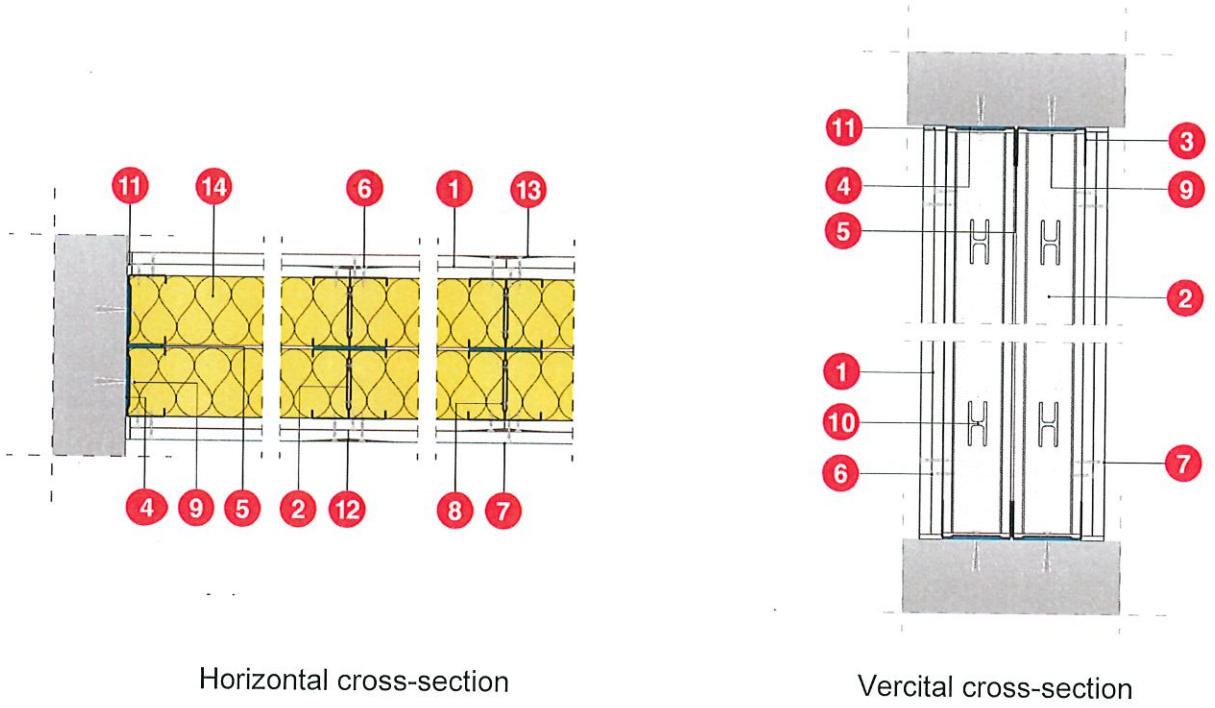


Fig. 9. View of the wall

1. Gypsum plasterboards Norgips S GKB type A, Acoustic type A, HARD type DIR or GKBI type H2 thickness of 2 x 12,5 mm
2. Double profile e.g. Norgips CW 50/CW 75/CW 100 or VP 66/ VP 70/ VP 95/ VP 120 of steel sheet thickness of min. 0,55 mm with webs screwed by means of steel self-tapping screw ϕ 3,5 x 9,5 mm in maximum 40 cm spacing fixed in two rows in maximal spacing of 60 cm or 62,5 cm
3. Profile e.g. Norgips UW 50/UW 75/ UW 100 or HP 66, HP 70, HP 95, HP 120 of steel sheet thickness of min. 0,55 mm fixed in two rows
4. Sealing tape e.g. Norgips width 50 mm/75 mm/100 mm
5. Steel screw ϕ 3,5 x 25 mm in max. 75 cm spacing
6. Steel screw ϕ 3,5 x 35 mm in max. 25 cm spacing
10. Gypsum filler e.g. Norgips Start, Super Filler or ready-mixed Norgips Start & Finish (Norgips Light Ready Mix)
11. Reinforcing self-adhesive fiberglass or fleece tape
12. Ready-made jointing compounds e.g. Norgips Start & Finish (Norgips Light Ready Mix), Norgips Extra Finish
    or gypsum filler Norgips Finish
13. Mineral wool

GRYFITLAB Sp. z o.o.
Zespół Laboratoriów
Badawczych Gryfitlab
ul. Prosta 2, Łozienica
72-100 GOLENIÓW



Horizontal cross-section

Vercital cross-section

Fig. 10 Cross-section

1. Gypsum plasterboards Norgips S GKB type A, Acoustic type A, HARD type DIR or GKBI type H2 thickness of 2 x 12,5 mm
2. Double profile e.g. Norgips CW 50/CW 75/CW 100 or VP 66/ VP 70/ VP 95/ VP 120 of steel sheet thickness of min. 0,55 mm fixed in two rows in maximal spacing of 60 cm or 62,5 cm
3. Profile e.g. Norgips UW 50/UW 75/ UW 100 or HP 66/ HP 70/ HP 95/ HP 120 of steel sheet thickness of min. 0,55 mm fixed in two rows
4. Sealing tape e.g. Norgips width 50 mm/75 mm/100 mm
5. Sealing tape e.g. Norgips width 50 mm
6. Steel screw ϕ 3,5 x 25 mm in max. 75 cm spacing
7. Steel screw ϕ 3,5 x 35 mm in max. 25 cm spacing
8. Steel screw ϕ 3,5 x 9,5 mm in max. 40 cm spacing
9. Mechanical fastener e.g. anchor, dowel, min. ϕ 6 x 40 mm in max. 80 cm spacing
10. Holes in studs for routing installation cables
11. Gypsum filler e.g. Norgips Start, Super Filler or ready-mixed Norgips Start & Finish (Norgips Light Ready Mix)
12. Gypsum filler e.g. Norgips Start, Super Filler, Strong Filler or ready-mixed Norgips Start & Finish (Norgips Light Ready Mix) + reinforcing self-adhesive fiberglass or fleece tape
13. Ready-mixed finishing compound e.g. Norgips Extra Finish, ready-mixed Norgips Start & Finish (Norgips Light Ready Mix) or gypsum filler Norgips Finish
14. Mineral wool

GRYFITLAB Sp. z o.o.
Zespół Laboratoriów
Badawczych Gryfitlab
ul. Prosta 2, Łozienica
72-100 GOLENIÓW

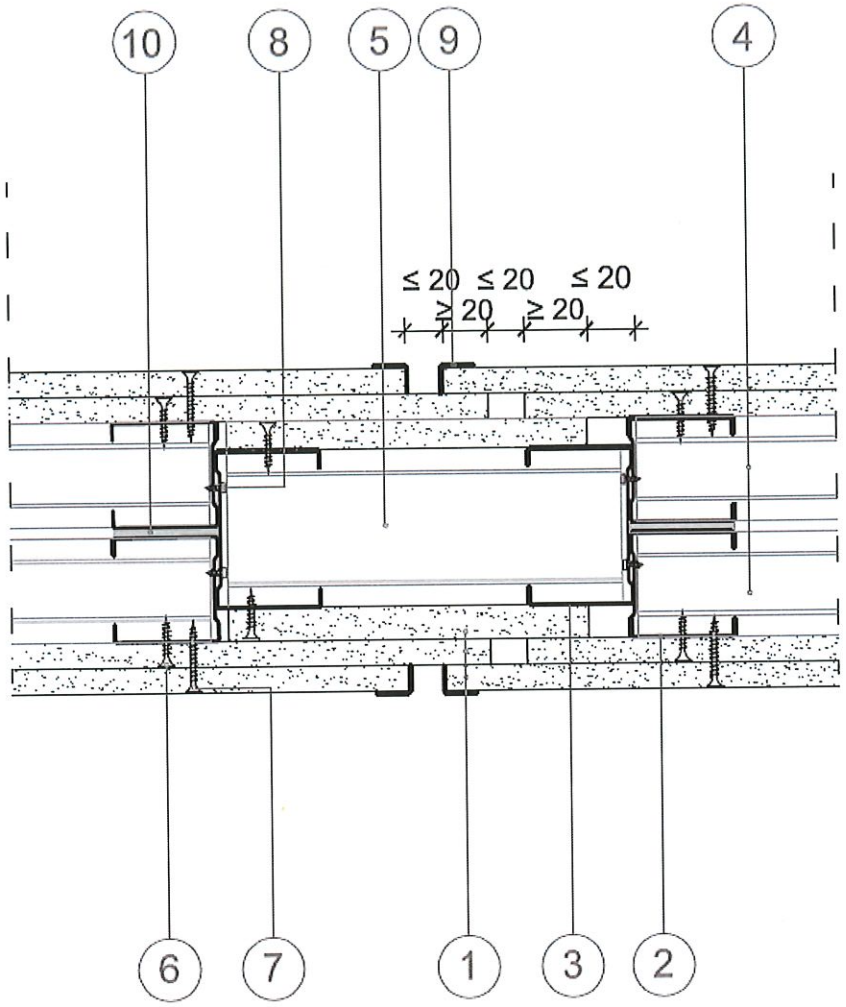


Fig. 11. Movable connection

1. Gypsum plasterboards Norgips S GKB type A, Acoustic type A, HARD type DIR or GKBI type H2 thickness of 2 x 12,5 mm
2. Profile e.g. Norgips CW 50 of steel sheet thickness of min. 0,55 mm
3. Profile e.g. Norgips CW 75 of steel sheet thickness of min. 0,55 mm
4. Profile e.g. Norgips UW 50 of steel sheet thickness of min. 0,55 mm
5. Profile e.g. Norgips UW 75 of steel sheet thickness of min. 0,55 mm
6. Steel screw ϕ 3,5 x 25 mm in max. 75 cm spacing
7. Steel screw ϕ 3,5 x 35 mm in max. 25 cm spacing
8. Steel self-tapping screws ϕ 3,5 x 9,5 mm in max. 40 cm spacing
9. Corner protection profile for gypsum plasterboards (recommended)
10. Sealing tape width 50 mm

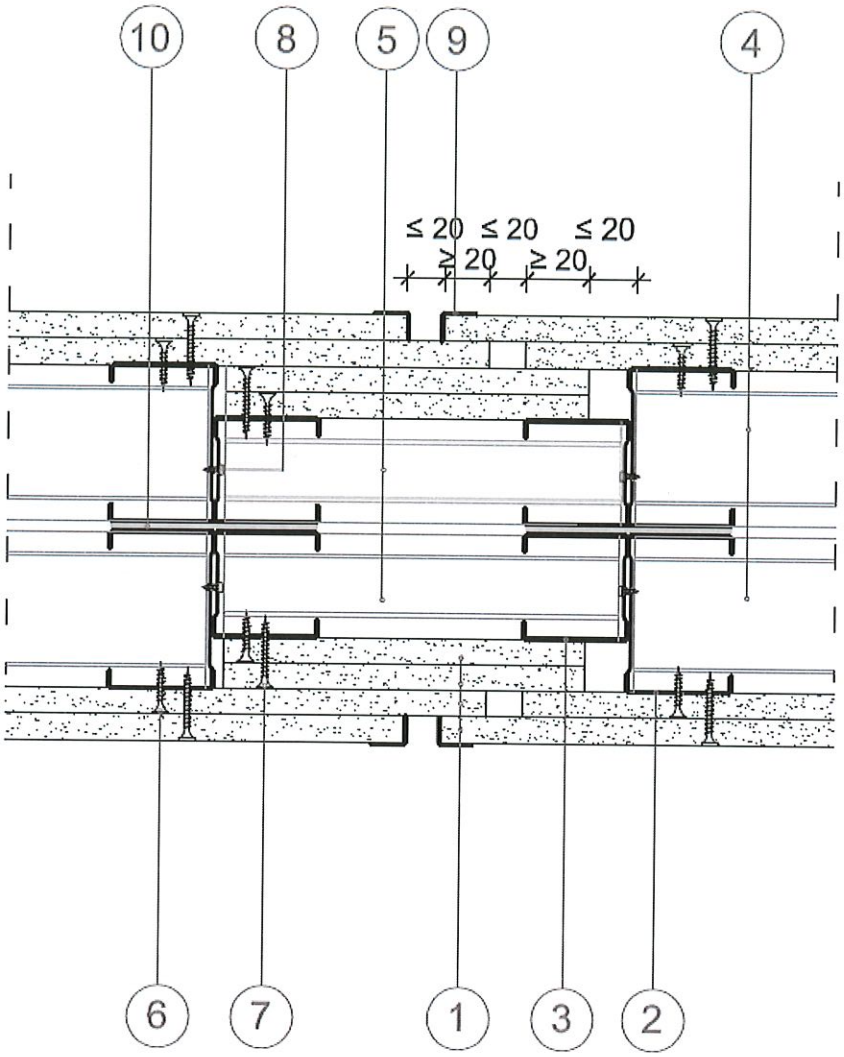


Fig. 12. Movable connection

1. Gypsum plasterboards Norgips S GKB type A, Acoustic type A, HARD type DIR or GKBI type H2 thickness of 2 x 12,5 mm
2. Profile e.g. Norgips CW 75/CW 100 of steel sheet thickness of min. 0,55 mm
3. Profile e.g. Norgips CW 50/CW 75 of steel sheet thickness of min. 0,55 mm
4. Profile e.g. Norgips UW 75/ UW 100 of steel sheet thickness of min. 0,55 mm
5. Profile e.g. Norgips UW 50/UW 75/ of steel sheet thickness of min. 0,55 mm
6. Steel screw ϕ 3,5 x 25 mm in max. 75 cm spacing
7. Steel screw ϕ 3,5 x 35 mm in max. 25 cm spacing
8. Steel self-tapping screws ϕ 3,5 x 9,5 mm in max. 40 cm spacing
9. Corner protection profile for gypsum plasterboards (recommended)
10. Sealing tape width 50 mm

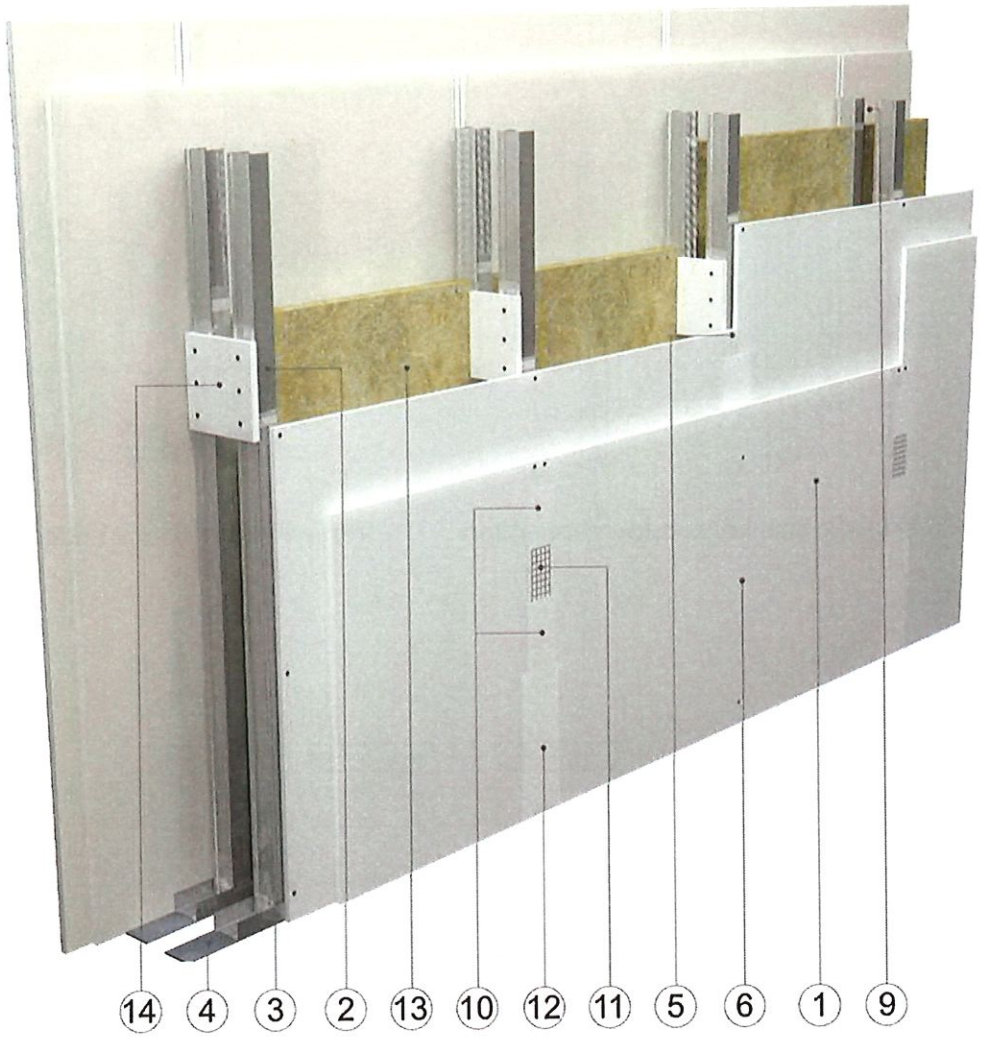
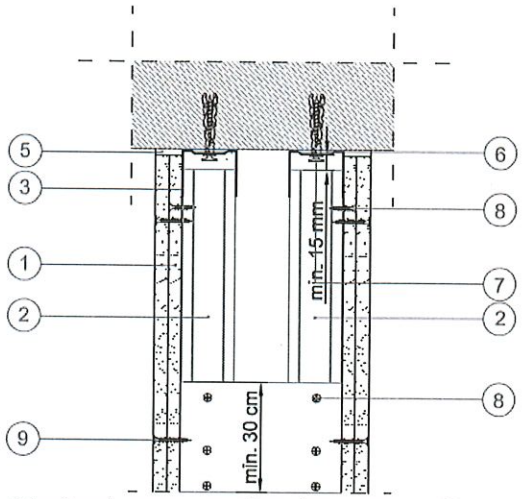
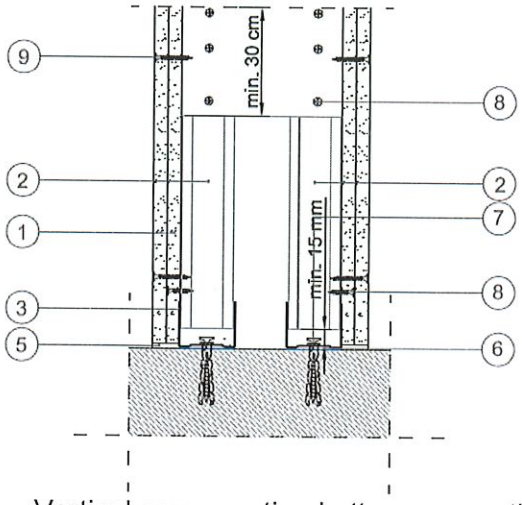


Fig. 13. View of the wall

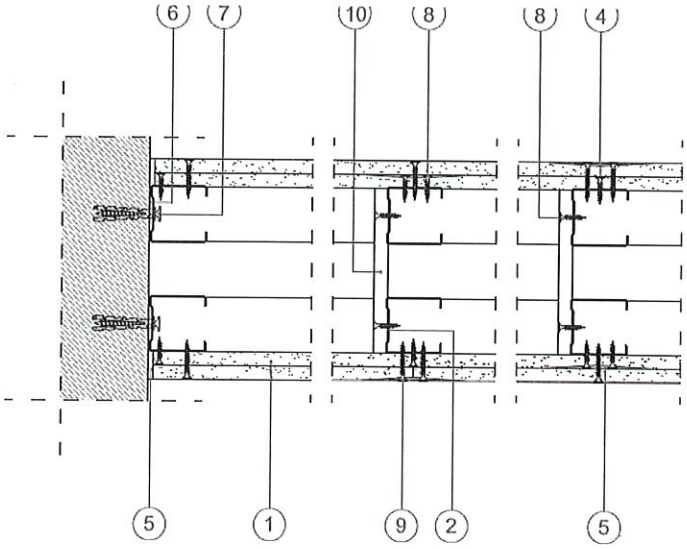
1. Gypsum plasterboards Norgips S GKB type A, Acoustic type A, HARD type DIR or GKBI type H2 thickness of 2 x 12,5 mm
2. Profile e.g. Norgips CW 50/CW 75/CW 100 or VP 66/ VP 70/ VP 95/ VP 120 of steel sheet thickness of min. 0,55 mm fixed in two rows in maximal spacing of 60 cm or 62,5 cm fixed in two rows
3. Profile e.g. Norgips UW 50/UW 75/ UW 100 or HP 66/ HP 70/ HP 95/ HP 120 of steel sheet thickness of min. 0,55 mm fixed in two rows
4. Sealing tape e.g. Norgips width 50 mm/75 mm/100 mm
5. Steel screw ϕ 3,5 x 25 mm in max. 75 cm spacing
6. Steel screw ϕ 3,5 x 25 mm in max. 75 cm spacing
10. Gypsum filler e.g. Norgips Start, Super Filler or ready-mixed Norgips Start & Finish (Norgips Light Ready Mix)
11. Reinforcing self-adhesive fiberglass or fleece tape
12. Ready-made jointing compounds e.g. Norgips Start & Finish (Norgips Light Ready Mix), Norgips Extra Finish or gypsum filler Norgips Finish
13. Mineral wool
14. Batten made of plasterboards Norgips S GKB type A, Acoustic type A, HARD type DIR or GKBI type H2 thickness of 12,5 mm



Vertical cross section top connection



Vertical cross section bottom connection



Horizontal cross section

Fig. 14 Cross-section

1. Gypsum plasterboards Norgips S GKB type A, Acoustic type A, HARD type DIR or GKBI type H2 thickness of 2 x 12,5 mm
2. Profile e.g. Norgips CW 50/CW 75/CW 100 or VP 66, VP 70, VP 95, VP 120 of steel sheet thickness of min. 0,55 mm in maximal spacing of 60 cm or 62,5 cm
3. Profile e.g. Norgips UW 50/UW 75/ UW 100 or HP 66, HP 70, HP 95, HP 120 of steel sheet thickness of min. 0,55 mm
4. Gypsum filler e.g. Norgips Start, Super Filler or ready-mixed Norgips Start & Finish (Norgips Light Ready Mix) + Norgips system reinforcing self-adhesive fiberglass or fleece tape
5. Gypsum filler e.g. Norgips Start, Super Filler or ready-mixed Norgips Start & Finish (Norgips Light Ready Mix)
6. Sealing tape e.g. Norgips width 50 mm/75 mm/100 mm
7. Mechanical fastener e.g. anchor, dowel, min. ϕ 6 x 40 mm in max. 80 cm spacing
8. Steel screw ϕ 3,5 x 25 mm in max. 75 cm spacing
9. Steel screw ϕ 3,5 x 35 mm in max. 25 cm spacing
10. Batten made of gypsum plasterboard Norgips S GKB type A, Acoustic type A, HARD type DIR or GKBI type H2 thickness of 12,5 mm

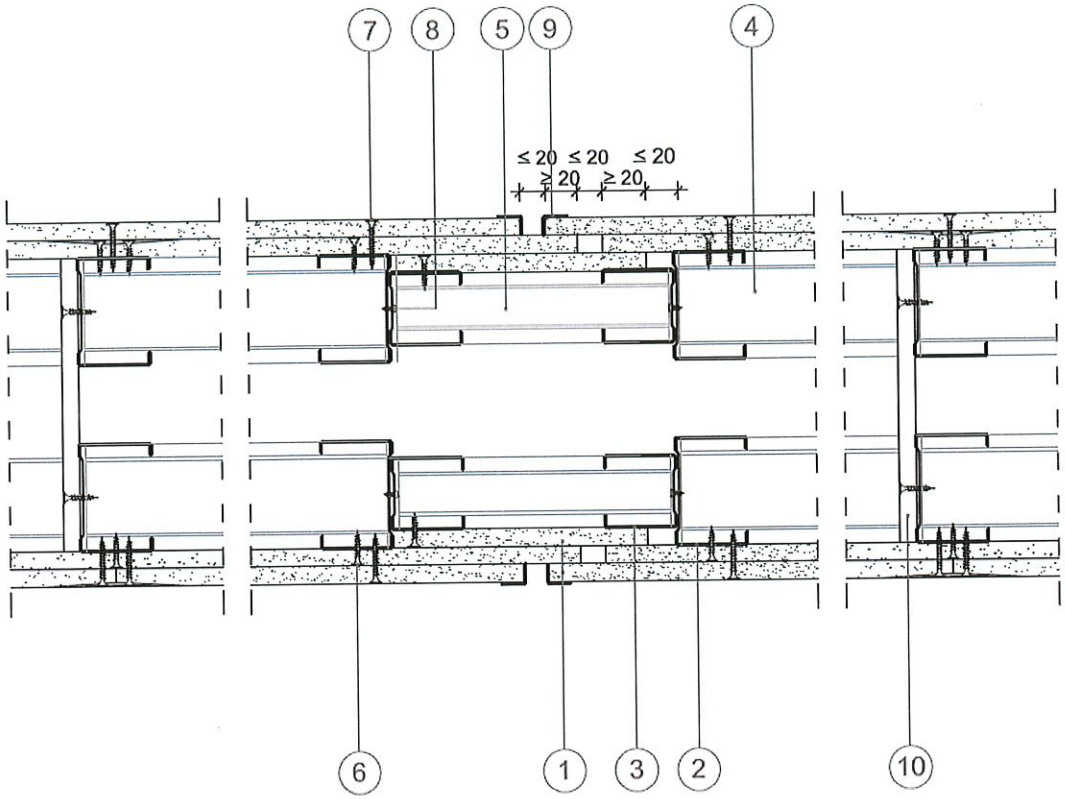
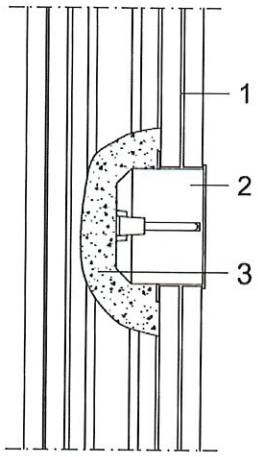


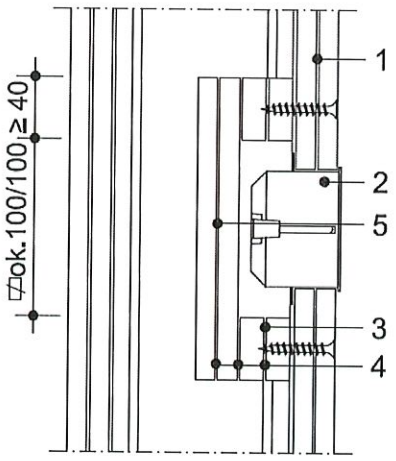
Fig. 15. Movable connection

1. Gypsum plasterboards Norgips S GKB type A, Acoustic type A, HARD type DIR or GKBI type H2 thickness of 2 x 12,5 mm
2. Profile e.g. Norgips CW 75/CW 100 of steel sheet thickness of min. 0,55 mm
3. Profile e.g. Norgips CW 50/CW 75 of steel sheet thickness of min. 0,55 mm
4. Profile e.g. Norgips UW 75/ UW 100 of steel sheet thickness of min. 0,55 mm
5. Profile e.g. Norgips UW 50/UW 75/ of steel sheet thickness of min. 0,55 mm
6. Steel screw ϕ 3,5 x 25 mm in max. 75 cm spacing
7. Steel screw ϕ 3,5 x 35 mm in max. 25 cm spacing
8. Steel self-tapping screws ϕ 3,5 x 9,5 mm in max. 40 cm spacing
9. Corner protection profile for gypsum plasterboards (recommended)
10. Batten made of gypsum plasterboard Norgips S GKB type , Acoustic type A, HARD type DIR or GKBI type H2 thickness of 12,5 mm



Installation of electric junction boxes with gypsum jointing compound

1. Gypsum plasterboards Norgips S GKB type A, Acoustic type A, HARD type DIR or GKBI type H2 thickness of 2 x 12,5 mm
2. Electric junction box
3. Gypsum filler e.g. Norgips Start, Super Filler
   or ready-mixed Norgips Start & Finish (Norgips Light Ready Mix)



Installation of electric junction boxes with casing made of boards

1. Gypsum plasterboards Norgips S GKB type A, Acoustic type A, HARD type DIR or GKBI type H2 thickness of 2 x 12,5 mm
2. Electric junction box
3. Casing made of boards GKB type A, Acoustic type A, HARD type DIR or GKBI type H2 thickness of 12,5 mm depending of box dimensions
4. Gypsum filler e.g. Norgips Start, Super Filler
   or ready-mixed Norgips Start & Finish (Norgips Light Ready Mix)
5. Casing made of boards GKB type A, Acoustic type A, HARD type DIR or GKBI type H2 thickness of 12,5 mm

Fig. 16. Horizontal cross section

The way of fixing electric junction boxes in the walls

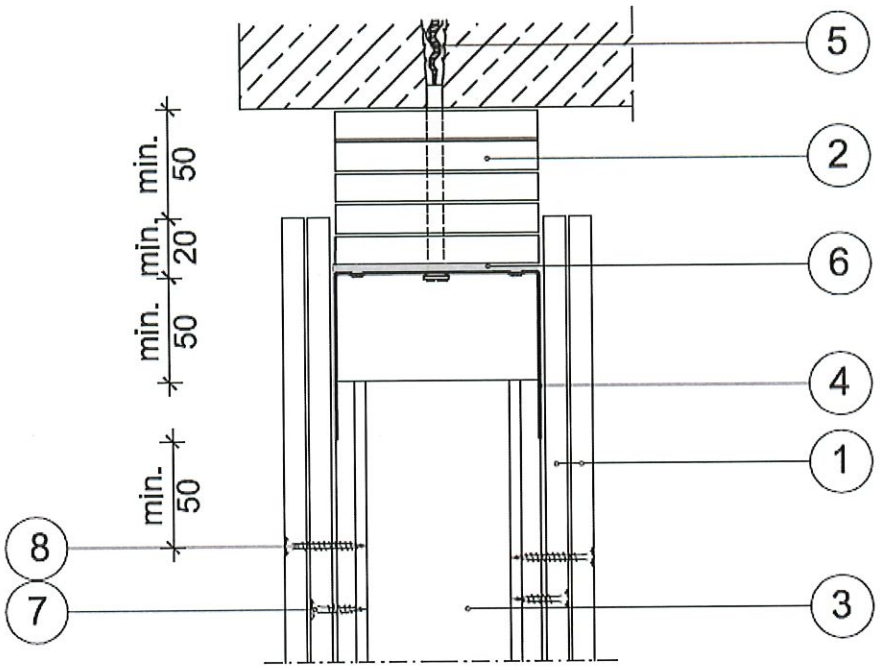


Fig. 17. Vertical cross section

Slip connection of the wall with floor for the floor deflection up to 50 mm

1. Gypsum plasterboards Norgips S GKB type A, Acoustic type A, HARD type DIR or GKBI type H2 thickness of 2 x 12,5 mm
2. Strips of gypsum plasterboards Norgips GKF type DF or GKFI type DFH2 thickness of 5x15 mm
3. Profile e.g. Norgips CW 50/CW 75/CW 100 or VP 66/ VP 70/ VP 95/ VP 120 of steel sheet thickness of min. 0,55 mm in maximal spacing of 60 cm or 62,5 cm
4. Profile e.g. Norgips U 50x100/U 75x100/ U 100x100 or angle 2xL 50x100/2xL 75x100/ 2xL 100x100 of steel sheet thickness of min. 1 mm
5. Mechanical fastener e.g. anchor, dowel, min. ϕ 8 x 120 mm in max. 80 cm spacing
6. Sealing tape e.g. Norgips width 50 mm/75 mm/100 mm
7. Steel screw ϕ 3,5 x 25 mm in max. 75 cm spacing
8. Steel screw ϕ 3,5 x 35 mm in max. 25 cm spacing

GRYFITLAB Sp. z o.o.
Zespół Laboratoriów
Badawczych Gryfitlab
ul. Prosta 2, Łozienica
72-100 GOLENIÓW

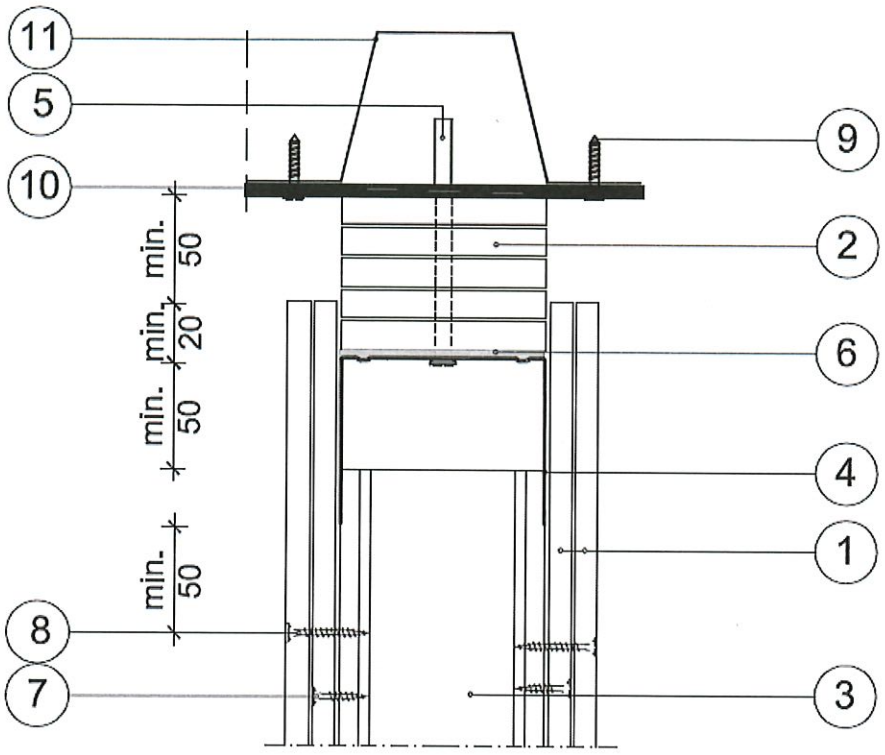


Fig. 20. Vertical cross section

Slip connection of the wall with floor for the floor deflection up to 50 mm

1. Gypsum plasterboards Norgips S GKB type A, Acoustic type A, HARD type DIR or GKBI type H2 thickness of 2 x 12,5 mm
2. Strips of gypsum plasterboards Norgips GKF type DF or GKFI type DFH2 thickness of 5x15 mm
3. Profile e.g. Norgips CW 50/CW 75/CW 100 or VP 66/ VP 70/ VP 95/ VP 120 of steel sheet thickness of min. 0,55 mm in maximal spacing of 60 cm or 62,5 cm
4. Profile Norgips U 50x100/U 75x100/ U 100x100 or angle 2xL 50x100/2xL 75x100/ 2xL 100x100 of steel sheet thickness of min. 1 mm
5. Mechanical fastener e.g. anchor, dowel, min. ϕ 8 x 120 mm in max. 80 cm spacing
6. Sealing tape e.g. Norgips width 50 mm/75 mm/100 mm
7. Steel screw ϕ 3,5 x 25 mm in max. 75 cm spacing
8. Steel screw ϕ 3,5 x 35 mm in max. 25 cm spacing
9. Mechanical fastener
10. Strip of steel sheet thickness of 3 mm
11. Trapezoidal steel sheet

GRYFITLAB Sp. z o.o.
Zespół Laboratoriów
Badawczych Gryfitlab
ul. Prosta 2, Łozienica
72-100 GOLENIÓW

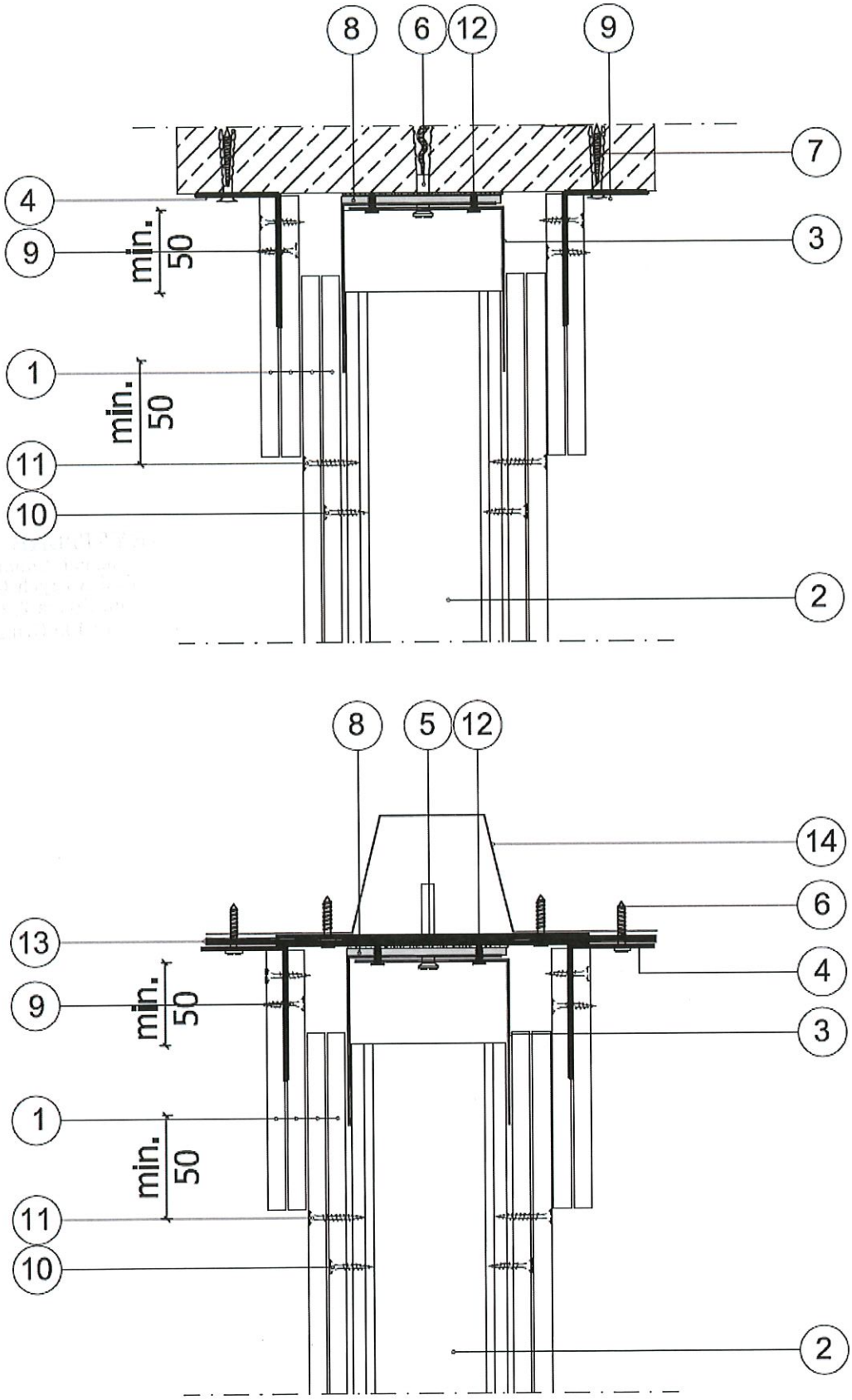


Fig. 21. Vertical cross section

Slip connection of the wall with floor or roof for the floor or roof deflection up to 50 mm

1. Gypsum plasterboards Norgips S GKB type A, Acoustic type A, HARD type DIR or GKBI type H2 thickness of 2 x 12,5 mm
2. Profile e.g. Norgips CW 50/CW 75/CW 100 or VP 66/ VP 70/ VP 95/ VP 120 of steel sheet thickness of min. 0,55 mm in maximal spacing of 60 cm or 62,5 cm
3. Profile e.g. Norgips U 50x100/U 75x100/ U 100x100 or angle 2xL 50x100/2xL 75x100/ 2xL 100x100 of steel sheet thickness of min. 1 mm
4. Steel angle L 50x80 of steel sheet thickness of min. 1 mm
5. Steel dowel min. ϕ 6 x 40 mm in max 80 cm spacing
6. Mechanical fastener e.g. steel screw min. ϕ 5 x 40 mm in max 80 cm spacing
7. Mechanical fastener e.g. anchor, dowel, min. ϕ 6 x 40 mm in max 80 cm spacing
8. Sealing tape e.g. Norgips width 50 mm/75 mm/100 mm
9. Steel screw ϕ 3,5 x 25 mm in max. 50 cm spacing
10. Steel screw ϕ 3,5 x 25 mm in max. 75 cm spacing
11. Steel screw ϕ 3,5 x 35 mm in max. 25 cm spacing
12. Mechanical fastener
13. Strip of steel sheet thickness of 3 mm
14. Trapezoidal steel sheet

GRYFITLAB Sp. z o.o.
Zespół Laboratoriów
Badawczych Gryfitlab
ul. Prosta 2, Łozienica
72-100 GOLENIÓW

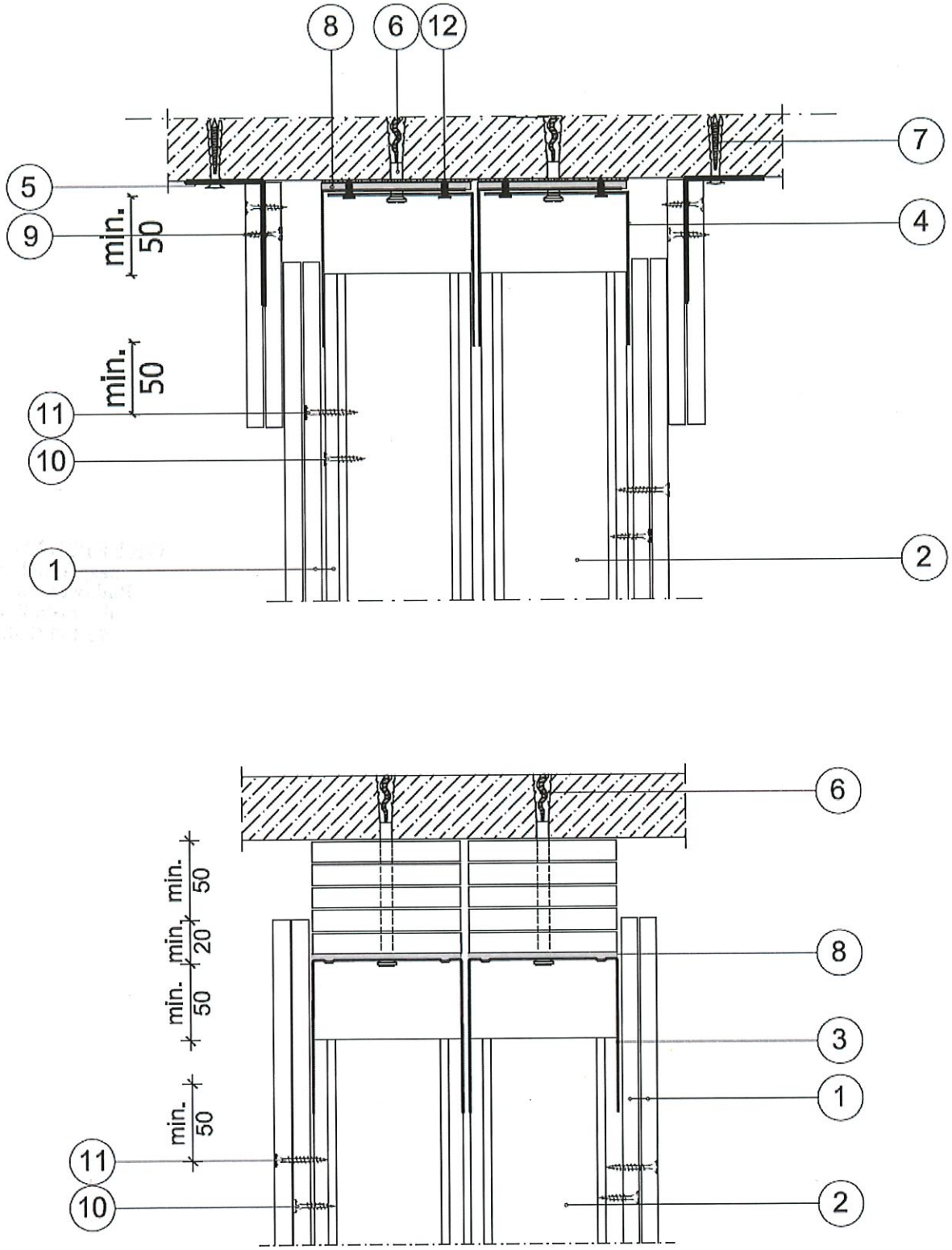


Fig. 22. Vertical cross section

Slip connection of the wall with floor or roof for the floor or roof deflection up to 50 mm

1. Gypsum plasterboards Norgips S GKB type A, Acoustic type A, HARD type DIR or GKBI type H2 thickness of 2 x 12,5 mm
2. Profile e.g. Norgips CW 50/CW 75/CW 100 or VP 66/ VP 70/ VP 95/ VP 120 of steel sheet thickness of min. 0,55 mm in maximal spacing of 60 cm or 62,5 cm
3. Profile e.g. Norgips U 50x100/U 75x100/ U 100x100 or angle 2xL 50x100/2xL 75x100/ 2xL 100x100 of steel sheet thickness of min. 1 mm
4. Steel angle L 50x80 of steel sheet thickness of min. 1 mm
5. Steel dowel min. ϕ 6 x 40 mm in max 80 cm spacing
6. Mechanical fastener e.g. steel screw min. ϕ 5 x 40 mm in max 80 cm spacing
7. Mechanical fastener e.g. anchor, dowel, min. ϕ 6 x 40 mm in max 80 cm spacing
8. Sealing tape e.g. Norgips width 50 mm/75 mm/100 mm
9. Steel screw ϕ 3,5 x 25 mm in max. 50 cm spacing
10. Steel screw ϕ 3,5 x 25 mm in max. 75 cm spacing
11. Steel screw ϕ 3,5 x 35 mm in max. 25 cm spacing
12. Mechanical fastener
13. Strip of steel sheet thickness of 3 mm
14. Trapezoidal steel sheet

GRYFITLAB Sp. z o.o.
Zespół Laboratoriów
Badawczych Gryfitlab
ul. Prosta 2, Łozienica
72-100 GOLENIÓW

Fire resistance classification No. LBO – 127 – KZ/24E

Appendix 1

Tables 1 - 5

Table 1. Technical details of Norgips partition walls, with the covering made of plasterboards GKB type A, GKBI type H2, Acoustic A type A and HARD type DIR – for the following partition walls:
SD-2x12,5 GKB A/CW 50 W 50, SD-2x12,5 ACO A/CW 50 W 50, SD-2x12,5 HARD DIR/CW 50 W 50, SD-2x12,5 GKBI H2/CW 50 W 50, SD-2x12,5 GKB A/CW 75 W 50, SD-2x12,5 ACO A/CW 75 W 50, SD-2x12,5 HARD DIR/CW 75 W 50, SD-2x12,5 GKBI H2/CW 75 W 50, SD-2x12,5 GKB A/CW 100 W 50, SD-2x12,5 ACO A/CW 100 W 50, SD-2x12,5 HARD DIR/CW 100 W 50, SD-2x12,5 GKBI H2/CW 100 W 50, SD-2x12,5 GKB A/VP 66 W 50, SD-2x12,5 ACO A/VP 66 W 50, SD-2x12,5 HARD DIR/VP 66 W 50, SD-2x12,5 GKB A/VP 70 W 50, SD-2x12,5 ACO A/VP 70 W 50, SD-2x12,5 HARD DIR/VP 70 W 50, SD-2x12,5 GKBI H2/VP 66 W 50, SD-2x12,5 GKBI H2/VP 70 W 50, SD-2x12,5 GKB A/VP 95 W 50, SD-2x12,5 ACO A/VP 95 W 50, SD-2x12,5 HARD DIR/VP 95 W 50, SD-2x12,5 GKBI H2/VP 95 W 50, SD-2x12,5 GKB A/VP 120 W 50, SD-2x12,5 ACO A/VP 120 W 50, SD-2x12,5 HARD DIR/VP 120 W 50, SD-2x12,5 GKBI H2/VP 120 W 50.

Designation of the wall of Norgips system	Type of profile	Maximal spacing CW profiles [cm]	Type of gypsum Plasterboard lining: Type / Thickness [mm]	Type of gypsum Plasterboard lining: Minimum mass of the board [kg/m²]	Total wall thickness [mm]	Mineral wool infil	Fire resistance classification: according to the standard PN-EN 13501-2:2023-09: Fire resistance class	according to the standard PN-EN 13501-2:2023-09: Maximal height [cm]	according to the criteria of PN-EN 13501-2:2023-09: Fire resistance class	according to the criteria of PN-EN 13501-2:2023-09: Maximal height [cm]
1	2		3	4	5	6	7	8	9	10
SD-2x12,5 GKB A/CW 50 W 50	CW 50, UW 50	60/62,5	A 2x12,5	6,5	100	Filing with any mineral wool of min. thickness of 50 mm in fire reaction class A1	EI 60	400	EI 60	420
SD-2x12,5 ACO A/CW 50 W 50		40/41,7	ACO A 2x12,5	9,0				400		480
SD-2x12,5 HARD DIR/CW 50 W 50		30/31,3	HARD DIR 2x12,5	11,3				400		550
SD-2x12,5 GKBI H2/CW 50 W 50	CW 50, UW 50	60/62,5	H2 2x12,5	7,0	100		EI 60	330	EI 60	420
		40/41,7						400		480
		30/31,3						400		550
SD-2x12,5 GKB A/CW 75 W 50	CW 75, UW 75	60/62,5	A 2x12,5	6,5	125		EI 60	400	EI 60	580
SD-2x12,5 ACO A/CW 75 W 50		40/41,7	ACO A 2x12,5	9,0				400		650
SD-2x12,5 HARD DIR/CW 75 W 50		30/31,3	HARD DIR 2x12,5	11,3				400		650
SD-2x12,5 GKBI H2/CW 75 W 50	CW 75, UW 75	60/62,5	H2 2x12,5	7,0	125		EI 60	400	EI 60	580
		40/41,7						400		650
		30/31,3						400		650
SD-2x12,5 GKB A/CW 100 W 50	CW 100, UW 100	60/62,5	A 2x12,5	6,5	150		EI 60	400	EI 60	640
SD-2x12,5 ACO A/CW 100 W 50		40/41,7	ACO A 2x12,5	9,0				400		650
SD-2x12,5 HARD DIR/CW 100 W 50		30/31,3	HARD DIR 2x12,5	11,3				400		650
SD-2x12,5 GKBI H2/CW 100 W 50	CW 100, UW 100	60/62,5	H2 2x12,5	7,0	150		EI 60	400	EI 60	640
		40/41,7						400		650
		30/31,3						400		650

NOTE: Due to acoustic requirements thicker gypsum plasterboards and additional layers of gypsum plasterboards can be used.
Plasterboards Acoustic type A and HARD type DIR can be used interchangeably with plasterboards type A.

GRYFITLAB Sp. z o.o.
Zespół Laboratoriów
Badawczych Gryfitlab
ul. Prosta 2, Łozienica
72-100 GOLENIÓW

Table 1. Continuation

Designation of the wall of Norgips system	Type of profile	Maximal spacing CW profiles [cm]	Type of gypsum Plasterboard lining: Type / Thickness [mm]	Type of gypsum Plasterboard lining: Minimum mass of the board [kg/m²]	Total wall thickness [mm]	Mineral wool infil	Fire resistance classification: according to the standard PN-EN 13501-2:2023-09: Fire resistance class	Fire resistance classification: according to the standard PN-EN 13501-2:2023-09: Maximal height [cm]	Fire resistance classification: according to the criteria c PN-EN 13501-2:2023-09: Fire resistance class	Fire resistance classification: according to the criteria c PN-EN 13501-2:2023-09: Maximal height [cm]
1	2		3	4	5	6	7	8	9	10
SD-2x12,5 GKB A/VP 66 W 50	VP 66, HP 66	60/62,5	A 2x12,5	6,5	116	Filing with any mineral wool of min. thickness of 50 mm in fire reaction class A1	EI 60	400	EI 60	420
SD-2x12,5 ACO A/VP 66 W 50		40/41,7	ACO A 2x12,5	9,0				400		480
SD-2x12,5 HARD DIR/VP 66 W 50		30/31,3	HARD DIR 2x12,5	11,3				400		550
SD-2x12,5 GKB A/VP 70 W 50	VP 70, HP 70	60/62,5	A 2x12,5	6,5	120		EI 60	400	EI 60	420
SD-2x12,5 ACO A/VP 70 W 50		40/41,7	ACO A 2x12,5	9,0				400		480
SD-2x12,5 HARD DIR/VP 70 W 50		30/31,3	HARD DIR 2x12,5	11,3				400		550
SD-2x12,5 GKBI H2/VP 66 W 50	VP 66, HP 66	60/62,5	H2 2x12,5	7,0	116		EI 60	330	EI 60	420
SD-2x12,5 GKBI H2/VP 70 W 50	VP 70, HP 70	40/41,7			120			400		480
		30/31,3						400		550
SD-2x12,5 GKB A/VP 95 W 50	VP 95, HP 95	60/62,5	A 2x12,5	6,5	145		EI 60	400	EI 60	580
SD-2x12,5 ACO A/VP 95 W 50		40/41,7	ACO A 2x12,5	9,0				400		650
SD-2x12,5 HARD DIR/VP 95 W 50		30/31,3	HARD DIR 2x12,5	11,3				400		650
SD-2x12,5 GKBI H2/VP 95 W 50	VP 95, HP 95	60/62,5	H2 2x12,5	7,0	145		EI 60	400	EI 60	580
		40/41,7						400		650
		30/31,3						400		650
SD-2x12,5 GKB A/VP 120 W 50	VP 120, HP 120	60/62,5	A 2x12,5	6,5	170		EI 60	400	EI 60	640
SD-2x12,5 ACO A/VP 120 W 50		40/41,7	ACO A 2x12,5	9,0				400		650
SD-2x12,5 HARD DIR/VP 120 W 50		30/31,3	HARD DIR 2x12,5	11,3				400		650
SD-2x12,5 GKBI H2/VP 120 W 50	VP 120, HP 120	60/62,5	H2 2x12,5	7,0	170		EI 60	400	EI 60	640
		40/41,7						400		650
		30/31,3						400		650

NOTE: Due to acoustic requirements thicker gypsum plasterboards and additional layers of gypsum plasterboards can be used.
Plasterboards Acoustic type A and HARD type DIR can be used interchangeably with plasterboards type A.

GRYFITLAB Sp. z o.o.
Zespół Laboratoriów
Badawczych Gryfitlab
ul. Prosta 2, Łozienica
72-100 GOLENIÓW

Table 2. Technical details of Norgips partition walls, with the covering made of plasterboards GKB type A, GKBI type H2, Acoustic A type A and HARD type DIR – for the following partition walls:
SD-2x12,5 GKB A/CW50+CW50 W 50, SD-2x12,5 ACO A/CW50+CW50 W 50, SD-2x12,5 HARD DIR/CW50+CW50 W 50, SD-2x12,5 GKBI H2/CW50+CW50 W 50, SD-2x12,5 GKB A/CW75+CW75 W 50, SD-2x12,5 ACO A/CW75+CW75 W 50, SD-2x12,5 HARD DIR/CW75+CW75 W 50, SD-2x12,5 GKBI H2/CW75+CW75 W 50, SD-2x12,5 GKB A/CW100+CW100 W 50, SD-2x12,5 ACO A/CW100+CW100 W 50, SD-2x12,5 HARD DIR/CW100+CW100 W 50, SD-2x12,5 GKBI H2/CW100+CW100 W 50, SD-2x12,5 GKB A/VP66+VP66 W 50, SD-2x12,5 ACO A/VP66+VP66 W 50, SD-2x12,5 HARD DIR/VP66+VP66 W 50, SD-2x12,5 GKB A/VP70+VP70 W 50, SD-2x12,5 ACO A/VP70+VP70 W 50, SD-2x12,5 HARD DIR/VP70+VP70 W 50, SD-2x12,5 GKBI H2/VP66+VP66 W 50, SD-2x12,5 GKBI H2/VP70+VP70 W 50, SD-2x12,5 GKB A/VP95+VP95 W 50, SD-2x12,5 ACO A/VP95+VP95 W 50, SD-2x12,5 HARD DIR/VP95+VP95 W 50, SD-2x12,5 GKBI H2/VP95+VP95 W 50, SD-2x12,5 GKB A/VP120+VP120 W 50, SD-2x12,5 ACO A/VP120+VP120 W 50, SD-2x12,5 HARD DIR/VP120+VP120 W 50, SD-2x12,5 GKBI H2/VP120+VP120 W 50.

Designation of the wall of Norgips system	Type of profile	Maximal spacing CW profiles [cm]	Type of gypsum Plasterboard lining: Type / Thickness [mm]	Type of gypsum Plasterboard lining: Minimum mass of the board [kg/m²]	Total wall thickness [mm]	Mineral wool infill	Fire resistance classification: according to the standard PN-EN 13501-2:2023-09: Fire resistance class	according to the standard PN-EN 13501-2:2023-09: Maximal height [cm]	according to the criteria of PN-EN 13501-2:2023-09: Fire resistance class	according to the criteria of PN-EN 13501-2:2023-09: Maximal height [cm]
1	2		3	4	5	6	7	8	9	10
SD-2x12,5 GKB A/CW50+CW50 W 50	CW 50, UW 50	60/62,5	A 2x12,5	6,5	100	Filing with any mineral wool of min. thickness of 50 mm in fire reaction class A1	EI 60	400	EI 60	480
SD-2x12,5 ACO A/CW50+CW 50 W 50		40/41,7	ACO A 2x12,5	9,0				400		550
SD-2x12,5 HARD DIR/CW50+CW50 W 50		30/31,3	HARD DIR 2x12,5	11,3				400		580
SD-2x12,5 GKBI H2/CW50+CW50 W 50	CW 50, UW 50	60/62,5 40/41,7 30/31,3	H2 2x12,5	7,0	100		EI 60	400 400 400	EI 60	480 550 580
SD-2x12,5 GKB A/CW 75+CW75 W 50	CW 75, UW 75	60/62,5	A 2x12,5	6,5	125		EI 60	400	EI 60	650
SD-2x12,5 ACO A/CW75+CW75 W 50		40/41,7	ACO A 2x12,5	9,0				400		650
SD-2x12,5 HARD DIR/CW75+CW75 W 50		30/31,3	HARD DIR 2x12,5	11,3				400		650
SD-2x12,5 GKBI H2/CW 75+CW75	CW 75, UW 75	60/62,5 40/41,7 30/31,3	H2 2x12,5	7,0	125		EI 60	400 400 400	EI 60	650 650 650
SD-2x12,5 GKB A/CW100+CW100 W 50	CW 100, UW 100	60/62,5	A 2x12,5	6,5	150		EI 60	400	EI 60	650
SD-2x12,5 ACO A/CW100+CW100 W 50		40/41,7	ACO A 2x12,5	9,0				400		650
SD-2x12,5 HARD DIR/CW100+CW100 W 50		30/31,3	HARD DIR 2x12,5	11,3				400		650
SD-2x12,5 GKBI H2/CW100+CW100 W 50	CW 100, UW 100	60/62,5 40/41,7 30/31,3	H2 2x12,5	7,0	150		EI 60	400 400 400	EI 60	650 650 650

NOTE: Due to acoustic requirements thicker gypsum plasterboards and additional layers of gypsum plasterboards can be used.
Plasterboards Acoustic type A and HARD type DIR can be used interchangeably with plasterboards type A.

GRYFITLAB Sp. z o.o.
Zespół Laboratoriów
Badawczych Gryfitlab
ul. Prosta 2, Łozienica
72-100 GOLENIÓW

Table 2. Continuation

Designation of the wall of Norgips system	Type of profile	Maximal spacing CW profiles [cm]	Type of gypsum Plasterboard lining		Total wall thickness [mm]	Mineral wool infil	Fire resistance classification			
							according to the standard PN-EN 13501-2:2023-09		according to the criteria of PN-EN 13501-2:2023-09	
			Type / Thickness [mm]	Minimum mass of the board [kg/m²]			Fire resistance class	Maximal height [cm]	Fire resistance class	Maximal height [cm]
1	2	3	4	5	6	7	8	8	9	10
SD-2x12,5 GKB A/VP 66+VP 66 W 50	VP 66, HP 66	60/62,5	A 2x12,5	6,5	116	Filing with any mineral wool of min. thickness of 50 mm in fire reaction class A1	EI 60	400	EI 60	480
SD-2x12,5 ACO A/VP 66+VP 66 W 50		40/41,7	ACO A 2x12,5	9,0				400		550
SD-2x12,5 GKBI H2/VP 66+VP 66 W 50			H2 2x12,5	7,0						
SD-2x12,5 HARD DIR/VP 66+VP 66 W 50		30/31,3	HARD DIR 2x12,5	11				400		580
SD-2x12,5 GKB A/VP 70+VP 70 W 50	VP 70, HP 70	60/62,5	A 2x12,5	6,5	120		EI 60	400	EI 60	480
SD-2x12,5 ACO A/VP 70+VP 70 W 50		40/41,7	ACO A 2x12,5	9,0				400		550
SD-2x12,5 GKBI H2/VP 70+VP 70 W 50			H2 2x12,5	7,0						
SD-2x12,5 HARD DIR/VP 70+VP 70 W 50		30/31,3	HARD DIR 2x12,5	11				400		580
SD-2x12,5 GKB A/VP 95+VP 95 W 50	VP 95, HP 95	60/62,5	A 2x12,5	6,5	145		EI 60	400	EI 60	650
SD-2x12,5 ACO A/VP 95+VP 95 W 50		40/41,7	ACO A 2x12,5	9,0				400		650
SD-2x12,5 GKBI H2/VP 95+VP 95 W 50			H2 2x12,5	7,0						
SD-2x12,5 HARD DIR/VP 95+VP 95 W 50		30/31,3	HARD DIR 2x12,5	11				400		650
SD-2x12,5 GKB A/VP 120+VP 120 W 50	VP 120, HP 120	60/62,5	A 2x12,5	6,5	170		EI 60	400	EI 60	650
SD-2x12,5 ACO A/VP 120+VP 120 W 50		40/41,7	ACO A 2x12,5	9,0				400		650
SD-2x12,5 GKBI H2/VP 120+VP 120 W 50			H2 2x12,5	7,0						
SD-2x12,5 HARD DIR/VP 120+VP 120 W 50		30/31,3	HARD DIR 2x12,5	11				400		650

NOTE: Due to acoustic requirements thicker gypsum plasterboards and additional layers of gypsum plasterboards can be used.
Plasterboards Acoustic type A and HARD type DIR can be used interchangeably with plasterboards type A.

GRYFITLAB Sp. z o.o.
Zespół Laboratoriów
Badawczych Gryfitlab
ul. Prosta 2, Łozienica
72-100 GOLENIÓW

Table 3. Technical details of Norgips partition walls, with the covering made of plasterboards GKB type A, GKBI type H2, Acoustic A type A and HARD type DIR – for the following partition walls:
SD-2x12,5 GKB A/2xCW50 W 50, SD-2x12,5 ACO A/2xCW50 W 50, SD-2x12,5 HARD DIR/2xCW50 W 50, SD-2x12,5 GKBI H2/2xCW50 W 50, SD-2x12,5 GKB A/2xCW75 W 50, SD-2x12,5 ACO A/2xCW75 W 50, SD-2x12,5 HARD DIR/2xCW75 W 50, SD-2x12,5 GKBI H2/2xCW75 W 50, SD-2x12,5 GKB A/2xCW100 W 50, SD-2x12,5 ACO A/2xCW100 W 50, SD-2x12,5 HARD DIR/2xCW100 W 50, SD-2x12,5 GKBI H2/2xCW100 W 50, SD-2x12,5 GKB A/2xVP66 W 50, SD-2x12,5 ACO A/2xVP66 W 50, SD-2x12,5 HARD DIR/2xVP66 W 50, SD-2x12,5 GKB A/2xVP70 W 50, SD-2x12,5 ACO A/2xVP70 W 50, SD-2x12,5 HARD DIR/2xVP70 W 50, SD-2x12,5 GKBI H2/2xVP66 W 50, SD-2x12,5 GKBI H2/2xVP70 W 50, SD-2x12,5 GKB A/2xVP95 W 50, SD-2x12,5 ACO A/2xVP95 W 50, SD-2x12,5 HARD DIR/2xVP95 W 50, SD-2x12,5 GKBI H2/2xVP95 W 50, SD-2x12,5 GKB A/2xVP120 W 50, SD-2x12,5 ACO A/2xVP120 W 50, SD-2x12,5 HARD DIR/2xVP120 W 50, SD-2x12,5 GKBI H2/xVP120 W 50.

Designation of the wall of Norgips system	Type of profile	Maximal spacing CW profiles [cm]	Type of gypsum Plasterboard lining: Type / Thickness [mm]	Type of gypsum Plasterboard lining: Minimum mass of the board [kg/m²]	Total wall thickness [mm]	Mineral wool infill	Fire resistance classification: according to the standard PN-EN 13501-2:2023-09: Fire resistance class	according to the standard PN-EN 13501-2:2023-09: Maximal height [cm]	according to the criteria of PN-EN 13501-2:2023-09: Fire resistance class	according to the criteria of PN-EN 13501-2:2023-09: Maximal height [cm]
1	2		3	4	5	6	7	8	9	10
SD-2x12,5 GKB A/2xCW 50 W 50	CW 50, UW 50	60/62,5	A 2x12,5	6,5	155	Filing with any mineral wool of min. thickness of 50 mm in fire reaction class A1	EI 60	400	EI 60	440
SD-2x12,5 ACO GKB A/2xCW 50 W 50		40/41,7	ACO A 2x12,5	9,0				400		500
SD-2x12,5 HARD DIR A/2xCW 50 W 50		30/31,3	HARD DIR 2x12,5	11,3				400		560
SD-2x12,5 GKBI H2/2xCW 50 W 50	CW 50, UW 50	60/62,5 40/41,7 30/31,3	H2 2x12,5	7,0	155		EI 60	400 400 400	EI 60	440 500 560
SD-2x12,5 GKB A/2xCW 75 W 50	CW 75, UW 75	60/62,5	A 2x12,5	6,5	205		EI 60	400	EI 60	600
SD-2x12,5 ACO GKB A/2xCW 75 W 50		40/41,7	ACO A 2x12,5	9,0				400		650
SD-2x12,5 HARD DIR/2xCW 75 W 50		30/31,3	HARD DIR 2x12,5	11,3				400		650
SD-2x12,5 GKBI H2/2xCW 75 W 50	CW 75, UW 75	60/62,5 40/41,7 30/31,3	H2 2x12,5	7,0	205		EI 60	400 400 400	EI 60	600 650 650
SD-2x12,5 GKB A/2xCW 100 W 50	CW 100, UW 100	60/62,5	A 2x12,5	6,5	255		EI 60	400	EI 60	650
SD-2x12,5 ACO GKB A/2xCW 100 W 50		40/41,7	ACO A 2x12,5	9,0				400		650
SD-2x12,5 HARD DIR/2xCW 100 W 50		30/31,3	HARD DIR 2x12,5	11,3				400		650
SD-2x12,5 GKBI H2/2xCW 100 W 50	CW 100, UW 100	60/62,5 40/41,7 30/31,3	H2 2x12,5	7,0	255		EI 60	400 400 400	EI 60	650 650 650

NOTE: Due to acoustic requirements thicker gypsum plasterboards and additional layers of gypsum plasterboards can be used.
Plasterboards Acoustic type A and HARD type DIR can be used interchangeably with plasterboards type A.

GRYFITLAB Sp. z o.o.
Zespół Laboratoriów
Badawczych Gryfitlab
ul. Prosta 2, Łozienica

Table 3. Continuation

Designation of the wall of Norgips system	Type of profile	Maximal spacing CW profiles [cm]	Type of gypsum Plasterboard lining		Total wall thickness [mm]	Mineral wool infil	Fire resistance classification			
							according to the standard PN-EN 13501-2:2023-09		according to the criteria of PN-EN 13501-2:2023-09	
			Type / Thickness [mm]	Minimum mass of the board [kg/m²]			Fire resistance class	Maximal height [cm]	Fire resistance class	Maximal height [cm]
1	2	3	4	5	6	7	8	8	9	10
SD-2x12,5 GKB A/2xVP 66 W 50	VP 66, HP 66	60/62,5	A 2x12,5	6,5	187	Filing with any mineral wool of min. thickness of 50 mm in fire reaction class A1	EI 60	400	EI 60	440
SD-2x12,5 ACO A/2xVP 66 W 50		40/41,7	ACO A 2x12,5	9,0				400		500
SD-2x12,5 GKBI H2/2xVP 66 W 50			H2 2x12,5	7,0						
SD-2x12,5 HARD DIR/2xVP 66 W 50		30/31,3	HARD DIR 2x12,5	11,3				400		560
SD-2x12,5 GKB A/2xVP 70 W 50	VP 70, HP 70	60/62,5	A 2x12,5	6,5	195		EI 60	400	EI 60	440
SD-2x12,5 ACO A/2xVP 70 W 50		40/41,7	ACO A 2x12,5	9,0				400		500
SD-2x12,5 GKBI H2/2xVP 70 W 50			H2 2x12,5	7,0						
SD-2x12,5 HARD DIR/2xVP 70 W 50		30/31,3	HARD DIR 2x12,5	11,3				400		560
SD-2x12,5 GKB A/2xVP 95 W 50	VP 95, HP 95	60/62,5	A 2x12,5	6,5	245		EI 60	400	EI 60	600
SD-2x12,5 ACO A/2xVP 95 W 50		40/41,7	ACO A 2x12,5	9,0				400		650
SD-2x12,5 GKBI H2/2xVP 95 W 50			H2 2x12,5	7,0						
SD-2x12,5 HARD DIR/2xVP 95 W 50		30/31,3	HARD DIR 2x12,5	11,3				400		650
SD-2x12,5 GKB A/2xVP 120 W 50	VP 120, HP 120	60/62,5	A 2x12,5	6,5	295		EI 60	400	EI 60	650
SD-2x12,5 ACO A/2xVP 120 W 50		40/41,7	ACO A 2x12,5	9,0				400		650
SD-2x12,5 GKBI H2/2xVP 120 W 50			H2 2x12,5	7,0						
SD-2x12,5 HARD DIR/2xVP 120 W 50		30/31,3	HARD DIR 2x12,5	11,3				400		650

NOTE: Due to acoustic requirements thicker gypsum plasterboards and additional layers of gypsum plasterboards can be used.
Plasterboards Acoustic type A and HARD type DIR can be used interchangeably with plasterboards type A.

GRYFITLAB Sp. z o.o.
Zespół Laboratoriów
Badawczych Gryfitlab
ul. Prosta 2, Łozienica
72-100 GOLENIÓW

Table 4. Technical details of Norgips partition walls, with the covering made of plasterboards GKB type A, GKBI type H2, Acoustic A type A and HARD type DIR – for the following partition walls:
SD-2x12,5 GKB A/2xCW50+CW50 W 50, SD-2x12,5 ACO A/2xCW50+CW50 W 50, SD-2x12,5 HARD DIR/2xCW50+CW50 W 50, SD-2x12,5 GKBI H2/2xCW50+CW50 W 50,
SD-2x12,5 GKB A/2xCW75+CW75 W 50, SD-2x12,5 ACO A/2xCW75+CW75 W 50, SD-2x12,5 HARD DIR/2xCW75+CW75 W 50, SD-2x12,5 GKBI H2/2xCW75+CW75 W 50,
SD-2x12,5 GKB A/2xCW100+CW100 W 50, SD-2x12,5 ACO A/2xCW100+CW100 W 50, SD-2x12,5 HARD DIR/2xCW100+CW100 W 50, SD-2x12,5 GKBI H2/2xCW100+CW100 W 50,
SD-2x12,5 GKB A/2xVP66+VP66 W 50, SD-2x12,5 ACO A/2xVP66+VP66 W 50, SD-2x12,5 HARD DIR/2xVP66+VP66 W 50, SD-2x12,5 GKB A/2xVP70+VP70 W 50,
SD-2x12,5 ACO A/2xVP70+VP70 W 50, SD-2x12,5 HARD DIR/2xVP70+VP70 W 50, SD-2x12,5 GKBI H2/2xVP66+VP66 W 50, SD-2x12,5 GKBI H2/2xVP70+VP70 W 50,
SD-2x12,5 GKB A/2xVP95+VP95 W 50, SD-2x12,5 ACO A/2xVP95+VP95 W 50, SD-2x12,5 HARD DIR/2xVP95+VP95 W 50, SD-2x12,5 GKBI H2/2xVP95+VP95 W 50,
SD-2x12,5 GKB A/2xVP120+VP120 W 50, SD-2x12,5 ACO A/2xVP120+VP120 W 50, SD-2x12,5 HARD DIR/2xVP120+VP120 W 50, SD-2x12,5 GKBI H2/xVP120+VP120 W 50.

Designation of the wall of Norgips system	Type of profile	Maximal spacing CW profiles [cm]	Type of gypsum Plasterboard lining: Type / Thickness [mm]	Minimum mass of the board [kg/m²]	Total wall thickness [mm]	Mineral wool infill	Fire resistance classification according to the standard PN-EN 13501-2:2023-09: Fire resistance class	Maximal height [cm]	Fire resistance classification according to the criteria of PN-EN 13501-2:2023-09: Fire resistance class	Maximal height [cm]
1	2		3	4	5	6	7	8	9	10
SD-2x12,5 GKB A/2xCW50+CW50 W 50	CW 50, UW 50	60/62,5	A 2x12,5	6,5	155	Filing with any mineral wool of min. thickness of 50 mm in fire reaction class A1	EI 60	400	EI 60	510
SD-2x12,5 ACO A/2xCW50+CW 50 W 50		40/41,7	ACO A 2x12,5	9,0				400		580
SD-2x12,5 HARD DIR/2xCW50+CW50 W 50		30/31,3	HARD DIR 2x12,5	11,3				400		600
SD-2x12,5 GKBI H2/2xCW 50 +CW 50 W 50	CW 50, UW 50	60/62,5 40/41,7 30/31,3	H2 2x12,5	7,0	155		EI 60	330 400 400	EI 60	510 580 600
SD-2x12,5 GKB A/2xCW 75+CW75 W 50	CW 75, UW 75	60/62,5	A 2x12,5	6,5	205		EI 60	400	EI 60	650
SD-2x12,5 ACO A/2xCW75+CW75 W 50		40/41,7	ACO A 2x12,5	9,0				400		650
SD-2x12,5 HARD DIR/2xCW75+CW75 W 50		30/31,3	HARD DIR 2x12,5	11,3				400		650
SD-2x12,5 GKBI H2/2xCW 75 +CW 75 W 50	CW 75, UW 75	60/62,5 40/41,7 30/31,3	H2 2x12,5	7,0	205		EI 60	400 400 400	EI 60	650 650 650
SD-2x12,5 GKB A/2xCW100+CW100 W 50	CW 100, UW 100	60/62,5	A 2x12,5	6,5	255		EI 60	400	EI 60	650
SD-2x12,5 ACO A/2xCW100+CW100 W 50		40/41,7	ACO A 2x12,5	9,0				400		650
SD-2x12,5 HARD DIR/2xCW100+CW100 W 50		30/31,3	HARD DIR 2x12,5	11,3				400		650
SD-2x12,5 GKBI H2/2xCW 100+CW 100 W 50	CW 100, UW 100	60/62,5 40/41,7 30/31,3	H2 2x12,5	7,0	255		EI 60	400 400 400	EI 60	650 650 650

NOTE: Due to acoustic requirements thicker gypsum plasterboards and additional layers of gypsum plasterboards can be used.
Plasterboards Acoustic type A and HARD type DIR can be used interchangeably with plasterboards type A.

GRYFITLAB Sp. z o.o.
Zespół Laboratoriów
Badawczych Gryfitlab
ul. Prosta 2, Łozienica
72-100 GOLENIÓW

Table 4. Continuation

Designation of the wall of Norgips system	Type of profile	Maximal spacing CW profiles [cm]	Type of gypsum Plasterboard lining: Type / Thickness [mm]	Type of gypsum Plasterboard lining: Minimum mass of the board [kg/m²]	Total wall thickness [mm]	Mineral wool infil	Fire resistance classification: according to the standard PN-EN 13501-2:2023-09: Fire resistance class	according to the standard PN-EN 13501-2:2023-09: Maximal height [cm]	according to the criteria of PN-EN 13501-2:2023-09: Fire resistance class	according to the criteria of PN-EN 13501-2:2023-09: Maximal height [cm]
1	2	3	4	5	6	7	8	8	9	10
SD-2x12,5 GKB A/2xVP 66+VP 66 W 50	VP 66, HP 66	60/62,5	A 2x12,5	6,5	187	Filing with any mineral wool of min. thickness of 50 mm in fire reaction class A1	EI 60	400	EI 60	510
SD-2x12,5 ACO A/2xVP 66+VP 66 W 50		40/41,7	ACO A 2x12,5	9,0				400		580
SD-2x12,5 GKBI H2/2xVP 66+VP 66 W 50			H2 2x12,5	7,0						
SD-2x12,5 HARD DIR/2xVP 66+VP 66 W 50		30/31,3	HARD DIR 2x12,5	11,3				400		600
SD-2x12,5 GKB A/2xVP 70+VP 70 W 50	VP 70, HP 70	60/62,5	A 2x12,5	6,5	195		EI 60	400	EI 60	510
SD-2x12,5 ACO A/2xVP 70+VP 70 W 50		40/41,7	ACO A 2x12,5	9,0				400		580
SD-2x12,5 GKBI H2/2xVP 70+VP 70 W 50			H2 2x12,5	7,0						
SD-2x12,5 HARD DIR/2xVP 70+VP 70 W 50		30/31,3	HARD DIR 2x12,5	11,3				400		600
SD-2x12,5 GKB A/2xVP 95+VP 95 W 50	VP 95, HP 95	60/62,5	A 2x12,5	6,5	245		EI 60	400	EI 60	650
SD-2x12,5 ACO A/2xVP 95+VP 95 W 50		40/41,7	ACO A 2x12,5	9,0				400		650
SD-2x12,5 GKBI H2/2xVP 95+VP 95 W 50			H2 2x12,5	7,0						
SD-2x12,5 HARD DIR/2xVP 95+VP 95 W 50		30/31,3	HARD DIR 2x12,5	11				400		650
SD-2x12,5 GKB A/2xVP 120+VP 120 W 50	VP 120, HP 120	60/62,5	A 2x12,5	6,5	295		EI 60	400	EI 60	650
SD-2x12,5 ACO A/2xVP 120+VP 120 W 50		40/41,7	ACO A 2x12,5	9,0				400		650
SD-2x12,5 GKBI H2/2xVP 120+VP 120 W 50			H2 2x12,5	7,0						
SD-2x12,5 HARD DIR/2xVP 120+VP 120 W 50		30/31,3	HARD DIR 2x12,5	11,3				400		650

NOTE: Due to acoustic requirements thicker gypsum plasterboards and additional layers of gypsum plasterboards can be used.
Plasterboards Acoustic type A and HARD type DIR can be used interchangeably with plasterboards type A.

GRYFITLAB Sp. z o.o.
Zespół Laboratoriów
Badawczych Gryfitlab
ul. Prosta 2, Łozienica
72-100 GOLENIÓW

Table 5. Technical details of Norgips partition walls, with the covering made of plasterboards GKB type A, GKBI type H2, Acoustic A type A and HARD type DIR – for the following partition walls:
SDI-2x12,5 GKB A/2xCW50 W 50, SDI-2x12,5 ACO A/2xCW50 W 50, SDI-2x12,5 HARD DIR/2xCW50 W 50, SDI-2x12,5 GKBI H2/2xCW50 W 50, SDI-2x12,5 GKB A/2xCW75 W 50, SDI-2x12,5 ACO A/2xCW75 W 50, SDI-2x12,5 HARD DIR/2xCW75 W 50, SDI-2x12,5 GKBI H2/2xCW75 W 50, SDI-2x12,5 GKB A/2xCW100 W 50, SDI-2x12,5 ACO A/2xCW100 W 50, SDI-2x12,5 HARD DIR/2xCW100 W 50, SDI-2x12,5 GKBI H2/2xCW100 W 50, SDI-2x12,5 GKB A/2xVP66 W 50, SDI-2x12,5 ACO A/2xVP66 W 50, SDI-2x12,5 HARD DIR/2xVP66 W 50, SDI-2x12,5 GKB A/2xVP70 W 50, SDI-2x12,5 ACO A/2xVP70 W 50, SDI-2x12,5 HARD DIR/2xVP70 W 50, SDI-2x12,5 GKBI H2/2xVP66 W 50, SDI-2x12,5 GKBI H2/2xVP70 W 50, SDI-2x12,5 GKB A/2xVP95 W 50, SDI-2x12,5 ACO A/2xVP95 W 50, SDI-2x12,5 HARD DIR/2xVP95 W 50, SDI-2x12,5 GKBI H2/2xVP95 W 50, SDI-2x12,5 GKB A/2xVP120 W 50, SDI-2x12,5 ACO A/2xVP120 W 50, SDI-2x12,5 HARD DIR/2xVP120 W 50, SDI-2x12,5 GKBI H2/xVP120 W 50.

Designation of the wall of Norgips system	Type of profile	Maximal spacing CW profiles [cm]	Type of gypsum Plasterboard lining: Type / Thickness [mm]	Type of gypsum Plasterboard lining: Minimum mass of the board [kg/m²]	Total wall thickness [mm]	Mineral wool infill	Fire resistance classification: according to the standard PN-EN 13501-2:2023-09: Fire resistance class	according to the standard PN-EN 13501-2:2023-09: Maximal height [cm]	according to the criteria of PN-EN 13501-2:2023-09: Fire resistance class	according to the criteria of PN-EN 13501-2:2023-09: Maximal height [cm]
1	2		3	4	5	6	7	8	9	10
SDI-2x12,5 GKB A/2xCW 50 W 50	CW 50, UW 50	60/62,5	A 2x12,5	6,5	up to 280	Filing with any mineral wool of min. thickness of 50 mm in fire reaction class A1	EI 60	400	EI 60	480
SDI-2x12,5 ACO GKB A/2xCW 50 W 50		40/41,7	ACO A 2x12,5	9,0				400		560
SDI-2x12,5 HARD DIR A/2xCW 50 W 50		30/31,3	HARD DIR 2x12,5	11,3				400		630
SDI-2x12,5 GKBI H2/2xCW 50 W 50	CW 50, UW 50	60/62,5	H2 2x12,5	7,0	up to 280		EI 60	400	EI 60	480
		40/41,7						400		560
		30/31,3						400		630
SDI-2x12,5 GKB A/2xCW 75 W 50	CW 75, UW 75	60/62,5	A 2x12,5	6,5	up to 330		EI 60	400	EI 60	650
SDI-2x12,5 ACO GKB A/2xCW 75 W 50		40/41,7	ACO A 2x12,5	9,0				400		650
SDI-2x12,5 HARD DIR/2xCW 75 W 50		30/31,3	HARD DIR 2x12,5	11,3				400		650
SDI-2x12,5 GKBI H2/2xCW 75 W 50	CW 75, UW 75	60/62,5	H2 2x12,5	7,0	up to 330		EI 60	400	EI 60	650
		40/41,7						400		650
		30/31,3						400		650
SDI-2x12,5 GKB A/2xCW 100 W 50	CW 100, UW 100	60/62,5	A 2x12,5	6,5	up to 380		EI 60	400	EI 60	650
SDI-2x12,5 ACO GKB A/2xCW 100 W 50		40/41,7	ACO A 2x12,5	9,0				400		650
SDI-2x12,5 HARD DIR/2xCW 100 W 50		30/31,3	HARD DIR 2x12,5	11,3				400		650
SDI-2x12,5 GKBI H2/2xCW 100 W 50	CW 100, UW 100	60/62,5	H2 2x12,5	7,0	up to 380		EI 60	400	EI 60	650
		40/41,7						400		650
		30/31,3						400		650

NOTE: Due to acoustic requirements thicker gypsum plasterboards and additional layers of gypsum plasterboards can be used.
Plasterboards Acoustic type A and HARD type DIR can be used interchangeably with plasterboards type A.

GRYFITLAB Sp. z o.o.
Zespół Laboratoriów
Badawczych Gryfitlab
ul. Prosta 2, Łozienica
72-100 GOLENIÓW

Table 5. Continuation

Designation of the wall of Norgips system	Type of profile	Maximal spacing CW profiles [cm]	Type of gypsum Plasterboard lining: Type / Thickness [mm]	Type of gypsum Plasterboard lining: Minimum mass of the board [kg/m²]	Total wall thickness [mm]	Mineral wool infil	Fire resistance classification according to the standard PN-EN 13501-2:2023-09: Fire resistance class	Fire resistance classification according to the standard PN-EN 13501-2:2023-09: Maximal height [cm]	Fire resistance classification according to the criteria of PN-EN 13501-2:2023-09: Fire resistance class	Fire resistance classification according to the criteria of PN-EN 13501-2:2023-09: Maximal height [cm]
1	2	3	4	5	6	7	8	8	9	10
SDI-2x12,5 GKB A/2xVP 66 W 50	VP 66, HP 66	60/62,5	A 2x12,5	6,5	up to 280	Filing with any mineral wool of min. thickness of 50 mm in fire reaction class A1	EI 60	400	EI 60	480
SDI-2x12,5 ACO A/2xVP 66 W 50		40/41,7	ACO A 2x12,5	9,0				400		560
SDI-2x12,5 GKBI H2/2xVP 66 W 50			H2 2x12,5	7,0						
SDI-2x12,5 HARD DIR/2xVP 66 W 50		30/31,3	HARD DIR 2x12,5	11,3				400		630
SDI-2x12,5 GKB A/2xVP 70 W 50	VP 70, HP 70	60/62,5	A 2x12,5	6,5	up to 280		EI 60	400	EI 60	480
SDI-2x12,5 ACO A/2xVP 70 W 50		40/41,7	ACO A 2x12,5	9,0				400		560
SDI-2x12,5 GKBI H2/2xVP 70 W 50			H2 2x12,5	7,0						
SDI-2x12,5 HARD DIR/2xVP 70 W 50		30/31,3	HARD DIR 2x12,5	11,3				400		630
SDI-2x12,5 GKB A/2xVP 95 W 50	VP 95, HP 95	60/62,5	A 2x12,5	6,5	up to 330		EI 60	400	EI 60	650
SDI-2x12,5 ACO A/2xVP 95 W 50		40/41,7	ACO A 2x12,5	9,0				400		650
SDI-2x12,5 GKBI H2/2xVP 95 W 50			H2 2x12,5	7,0						
SDI-2x12,5 HARD DIR/2xVP 95 W 50		30/31,3	HARD DIR 2x12,5	11,3				400		650
SDI-2x12,5 GKB A/2xVP 120 W 50	VP 120, HP 120	60/62,5	A 2x12,5	6,5	up to 380		EI 60	400	EI 60	650
SDI-2x12,5 ACO A/2xVP 120 W 50		40/41,7	ACO A 2x12,5	9,0				400		650
SDI-2x12,5 GKBI H2/2xVP 120 W 50			H2 2x12,5	7,0						
SDI-2x12,5 HARD DIR/2xVP 120 W 50		30/31,3	HARD DIR 2x12,5	11,3				400		650

NOTE: Due to acoustic requirements thicker gypsum plasterboards and additional layers of gypsum plasterboards can be used.
Plasterboards Acoustic type A and HARD type DIR can be used interchangeably with plasterboards type A.

GRYFITLAB Sp. z o.o.
Zespół Laboratoriów
Badawczych Gryfitlab
ul. Prosta 2, Łozienica
72-100 GOLENIÓW