NORGIPS®

ATTIC PARTITIONING

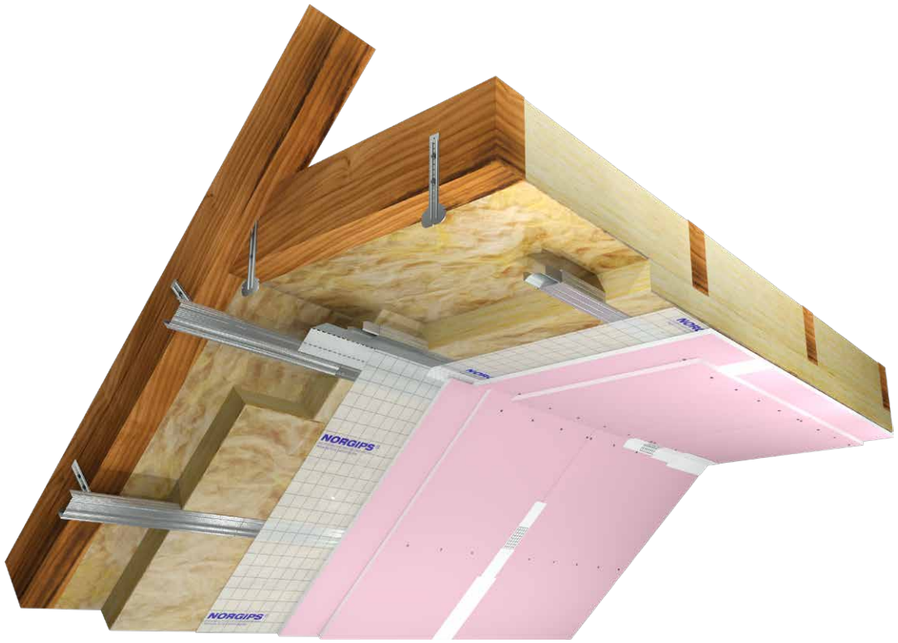
Attic partitioning

NORGIPS solutions

Contents

How to read

NORGIPS Attic Partitioning Solutions

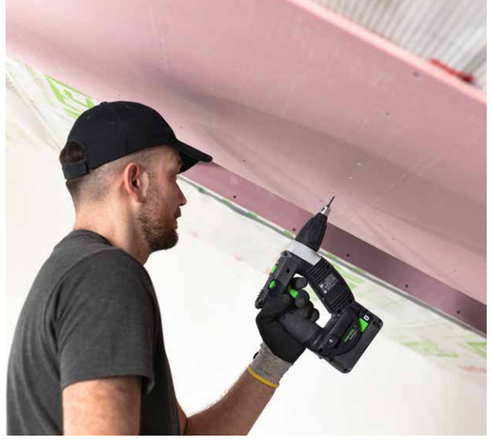


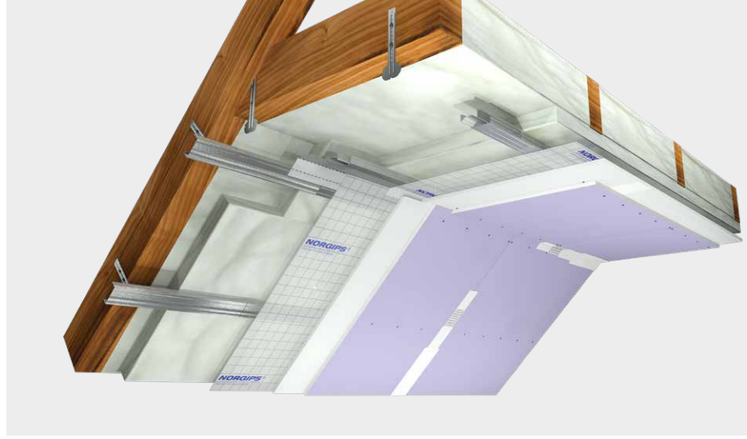
SOLUTION CODE:

ZP – 2x 12,5 GKF DF / CD, L, W

- **ZP** – attic lining
- **2x** – number of plasterboard layers
- **12,5** – plasterboard thickness [mm]
- **GKF DF** – NORGIPS plasterboard code*:
  - **GKB A** – standard
  - **GKBI H2** – impregnated
  - **GKF DF** – fire resistant
  - **GKFI DFH2** – fire resistant, impregnated
  - **ACO A** – acoustic
  - **DFH2IR** – acoustic, fire resistant, impregnated
- **CD60** – profile type
- **L** – hanger type
- **W** – mineral wool

* Check the Technical Information section for more information



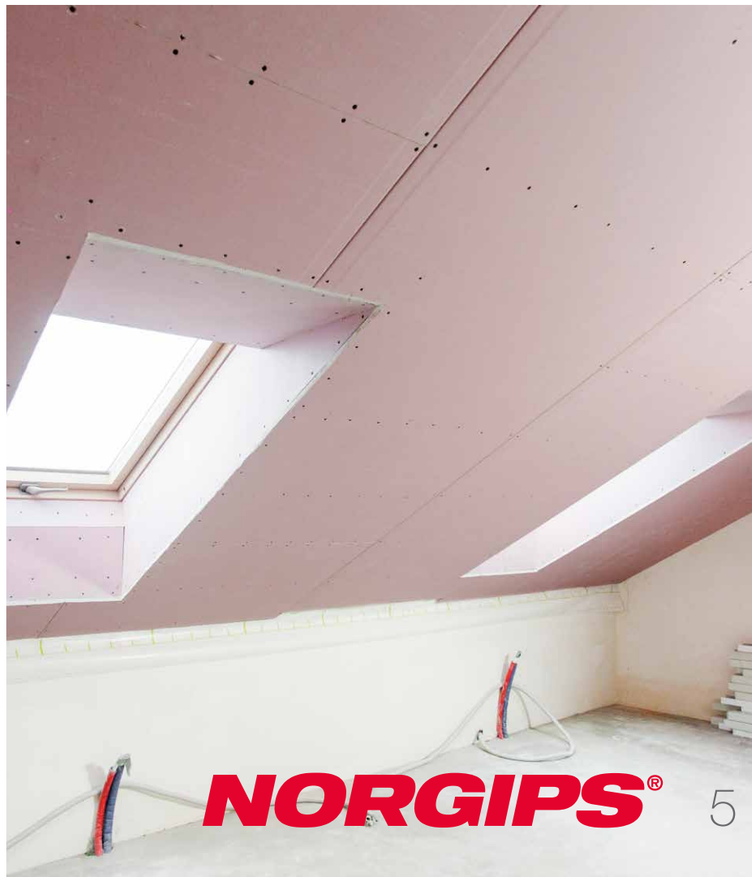


We are proud to present a new catalogue of **NORGIPS Attic Partitioning** solutions.

It is an excellent guide when choosing the optimal solution for attic lining installation – depending on the design, needs or purpose of the room.

The catalogue contains all types of attic structures that Norgips offers – both the most standard and recommended fire resistant ones, as well as DUO solutions – the first fully tested attic lining in Poland that consist of two types of plasterboards. Moreover, our solutions have fire resistance tests using various types of thermal insulation – including PUR foam.

The catalogue is intended for investors, designers and contractors looking for proven, high-standard solutions for attic lining.



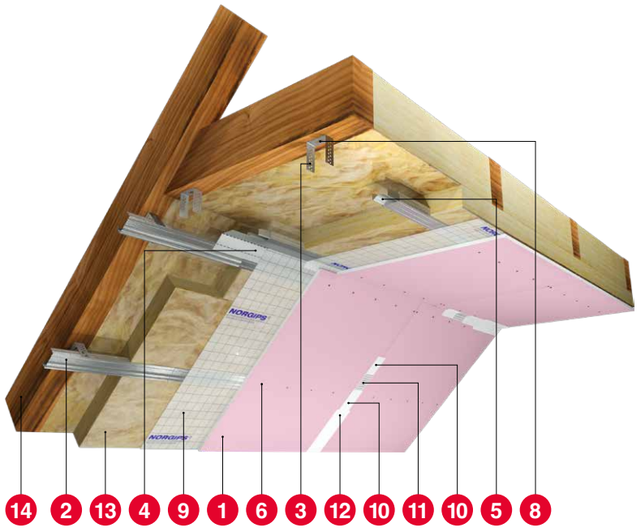
ATTIC PARTITIONING

single plasterboard layer on CD60 profile construction with ES type hanger

Fire resistance class
max. REI 30

Thickness
43 - 140 mm

Installation weight*
10 - 16 kg/m²

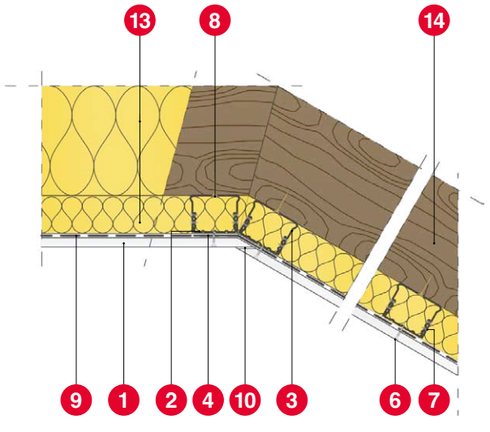


Attic partitioning elements:

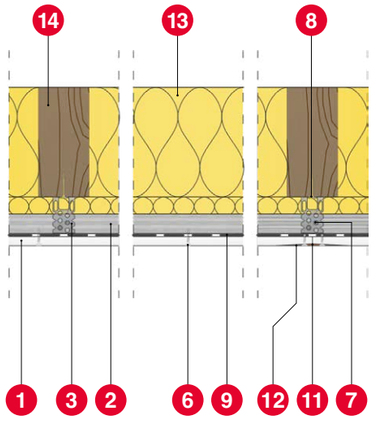
1. Norgips plasterboard
2. Norgips CD 60 profiles, max. axial spacing every 40 cm**
3. Norgips ES/ES Plus hangers
4. Norgips FLEX universal profile
5. Norgips longitudinal fasteners mounted with 4 3.5x9.5 mm sheet metal screws with self-drilling tip
6. Norgips sheet metal screws – max. spacing every 17 cm
7. Norgips 3.5 x 9.5 mm sheet metal screws with self-drilling tip
8. Norgips 3.5 x 35 mm wood screws
9. Vapour barrier membrane
10. Norgips Start & Finish ready-made joint compound or Norgips Start or Strong Filler gypsum joint compound
11. Norgips reinforcing tape
12. Ready-made joint compound Norgips Extra Finish, ready-made joint compound Norgips Start & Finish, gypsum joint compound Norgips Finish
13. Mineral wool
14. Roof rafters

* The weight specified does not include the insulation material weight.

** for solutions without the required fire resistance class, the minimum spacing is 50 cm

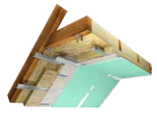


Horizontal section



Vertical section

Solutions and Technical Parameters

Visualization	Solution name ZP – attic lining 1x12.5 – panelling layers [mm] GKB A – board code CD 60 – profile ES / ES Plus / flat – hangers W – mineral wool	Plasterboard type	Construction		Thickness of plasterboards [mm]	Cladding thickness [mm]	Cladding weight [kg/m²]	Fire resistance class REI [min.]	Type of filling	Minimum filling thickness [mm]
			Profile	Hanger						
	ZP – 1x12,5 GKB A/CD 60, ES, W	A	CD60	ES/ES Plus	1x12,5	43-138	10	–	Any	
	ZP – 1x12,5 GKBI H2/CD 60, ES, W	H2	CD60	ES/ES Plus	1x12,5	43-138	11	–	Any	
	ZP – 1x12,5 GKF DF/CD 60, ES, W	DF	CD60	ES/ES Plus	1x12,5	43-138	13	–	Any	
	ZP – 1x15 GKF DF/CD 60, ES, W	DF	CD60	ES/ES Plus	1x15	45-140	16	30	W	150
	ZP – 1x12,5 GKFI DFH2/CD 60, ES, W	DFH2	CD60	ES/ES Plus	1x12,5	43-138	13	–	Any	
	ZP – 1x15 GKFI DFH2/CD 60, ES, W	DFH2	CD60	ES/ES Plus	1x15	45-140	16	30	W	150
	ZP – 1x12,5 DFH2IR/CD 60, ES, W	DFH2IR	CD60	ES/ES Plus	1x12,5	43-138	14	–	Any	

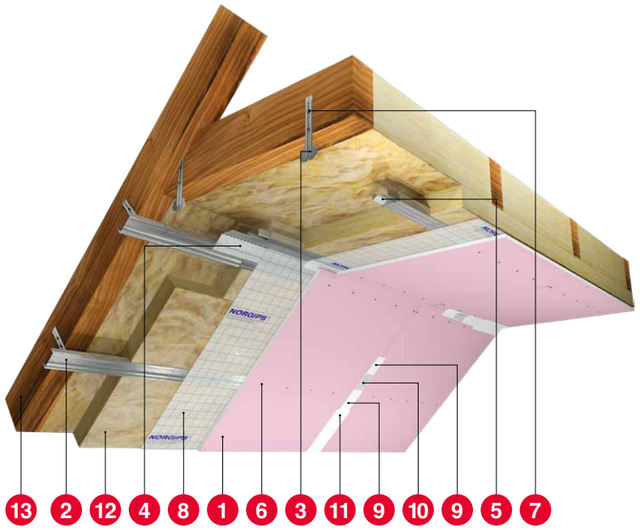
ATTIC PARTITIONING

single plasterboard layer on CD60 profile construction with L type flat hanger

Fire resistance class
max. REI 30

Thickness
43 - 295 mm

Installation weight*
10 - 16 kg/m²

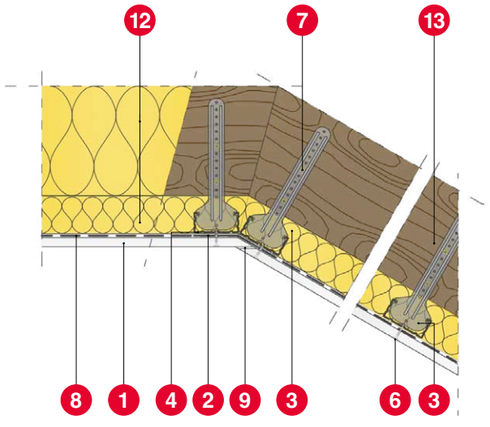


Attic partitioning elements:

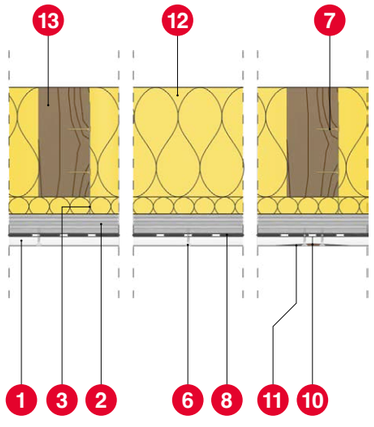
1. Norgips plasterboard
2. Norgips CD 60 profiles, max. axial spacing every 40 cm**
3. Norgips flat hangers
4. Norgips FLEX universal profile
5. Norgips longitudinal fasteners mounted with 4 3.5x9.5 mm sheet metal screws with self-drilling tip
6. Norgips sheet metal screws – max. spacing every 17 cm
7. Norgips 3.5 x 35 mm wood screws
8. Vapour barrier membrane
9. Norgips Start & Finish ready-made joint compound or Norgips Start or Strong Filler gypsum joint compound
10. Norgips reinforcing tape
11. Ready-made joint compound Norgips Extra Finish, ready-made joint compound Norgips Start & Finish, gypsum joint compound Norgips Finish
12. Mineral wool
13. Roof rafters

* The weight specified does not include the insulation material weight.

** for solutions without the required fire resistance class, the minimum spacing is 50 cm

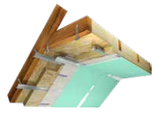


Horizontal section



Vertical section

Solutions and Technical Parameters

Visualization	Solution name ZP – attic lining 1x12.5 – panelling layers [mm] GKB A – board code CD 60 – profile ES / ES Plus / flat – hangers W – mineral wool	Plasterboard type	Construction		Thickness of plasterboards [mm]	Cladding thickness [mm]	Cladding weight [kg/m²]	Fire resistance class REI [min.]	Type of filling	Minimum filling thickness [mm]
			Profile	Hanger						
	ZP - 1x12,5 GKB A/CD 60, L, W	A	CD60	flat	1x12,5	43-290	10	-	Any	
	ZP - 1x12,5 GKBI H2/CD 60, L, W	H2	CD60	flat	1x12,5	43-290	11	-	Any	
	ZP - 1x12,5 GKF DF/CD 60, L, W	DF	CD60	flat	1x12,5	43-290	13	-	Any	
	ZP - 1x15 GKF DF/CD 60, L, W	DF	CD60	flat	1x15	45-295	16	30	W	150
	ZP - 1x12,5 GKFI DFH2/CD 60, L, W	DFH2	CD60	flat	1x12,5	43-290	13	-	Any	
	ZP - 1x15 GKFI DFH2/CD 60, L, W	DFH2	CD60	flat	1x15	45-295	16	30	W	150
	ZP - 1x12,5 DFH2IR/CD 60, L, W	DFH2IR	CD60	flat	1x12,5	43-290	14	-	Any	

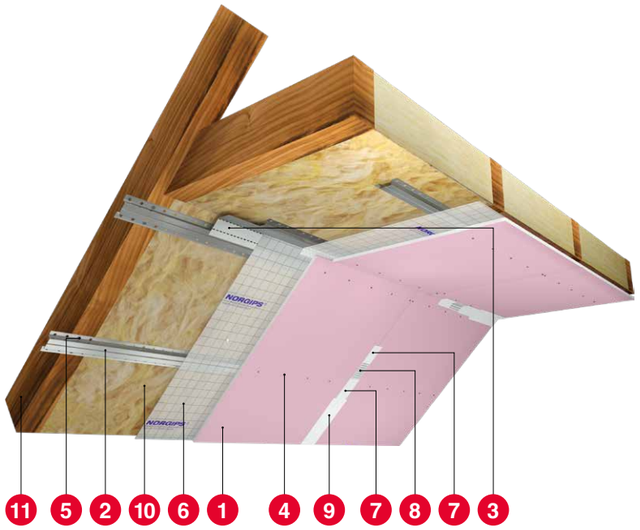
ATTIC PARTITIONING

single plasterboard layer on a hat type profile construction

Fire resistance class
max. REI 30

Thickness
28 - 30 mm

Installation weight*
10 - 15 kg/m²

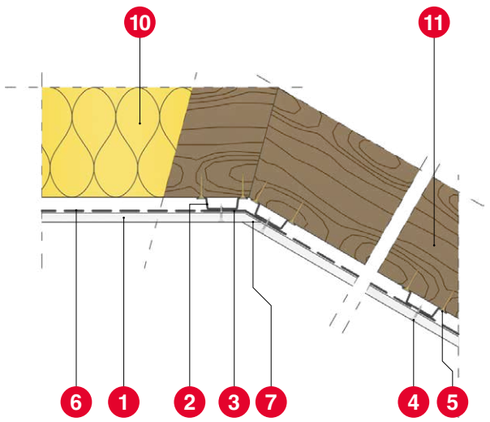


Attic partitioning elements:

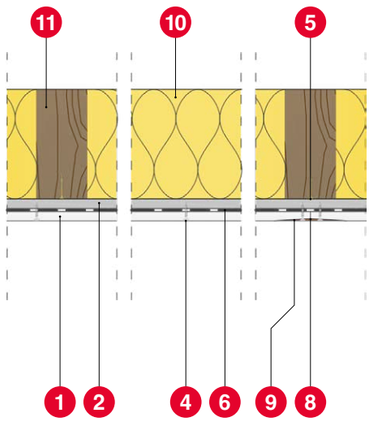
1. Norgips plasterboard
2. Norgips hat profiles, max. axial spacing every 40 cm
3. Norgips FLEX universal profile
4. Norgips sheet metal screws – max. spacing every 17 cm
5. Norgips 3.5 x 35 mm wood screws
6. Vapour barrier membrane
7. Norgips Start & Finish ready-made joint compound or Norgips Start or Strong Filler gypsum joint compound
8. Norgips reinforcing tape
9. Ready-made joint compound Norgips Extra Finish, ready-made joint compound Norgips Start & Finish, gypsum joint compound Norgips Finish
10. Mineral wool
11. Roof rafters

* The weight specified does not include the insulation material weight.

** for solutions without the required fire resistance class, the minimum spacing is 50 cm

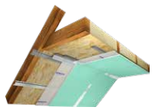
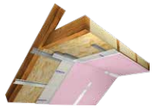
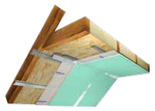


Horizontal section



Vertical section

Solutions and Technical Parameters

Visualization	Solution name ZP – attic lining 1x12.5 – panelling layers [mm] GKB A – board code KAP – profile W – mineral wool	Plasterboard type	Construction Profile	Thickness of plasterboards [mm]	Cladding thickness [mm]	Cladding weight [kg/m²]	Fire resistance class REI [min.]	Type of filling	Minimum filling thickness [mm]
	ZP – 1x12,5 GKB A/KAP, W	A	hat	1x12,5	28	10	–	Any	
	ZP – 1x12,5 GKBI H2/KAP, W	H2	hat	1x12,5	28	11	–	Any	
	ZP – 1x12,5 GKF DF/KAP, W	DF	hat	1x12,5	28	13	–	Any	
	ZP – 1x15 GKF DF/KAP, W	DF	hat	1x15	30	15	30	W	150
	ZP – 1x12,5 GKFI DFH2/KAP, W	DFH2	hat	1x12,5	28	13	–	Any	
	ZP – 1x15 GKFI DFH2/KAP, W	DFH2	hat	1x15	30	15	30	W	150
	ZP – 1x12,5 DFH2IR/KAP, W	DFH2IR	hat	1x12,5	28	14	–	Any	

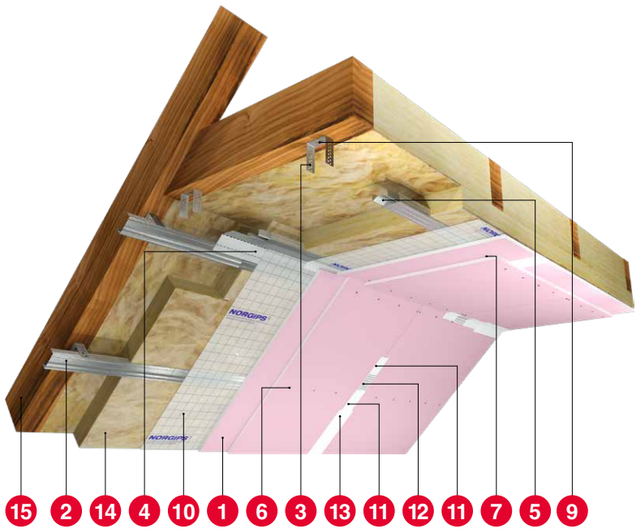
ATTIC PARTITIONING

double plasterboard layer on CD60 profile construction with ES type hanger

Fire resistance class
max. REI 60

Thickness
55 - 155 mm

Installation weight*
18 - 29 kg/m²

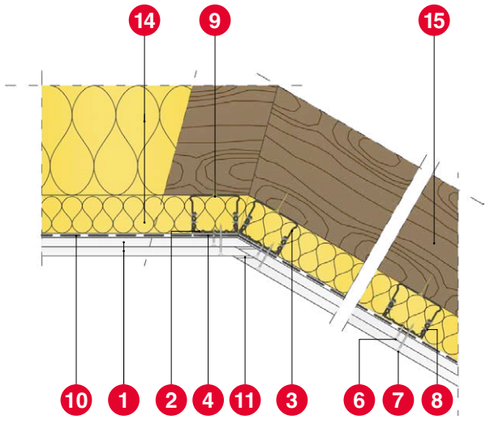


Attic partitioning elements:

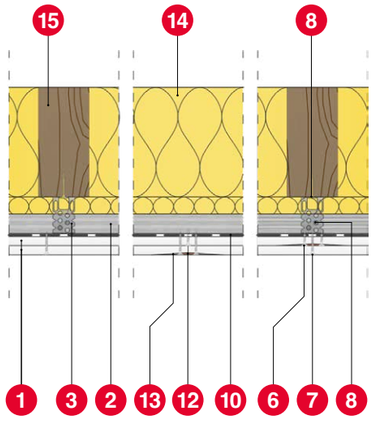
1. Norgips plasterboard
2. Norgips CD 60 profiles, max. axial spacing every 40 cm**
3. Norgips ES/ES Plus hangers
4. Norgips FLEX universal profile
5. Norgips longitudinal fasteners mounted with 4 3.5x9.5 mm sheet metal screws with self-drilling tip
6. Norgips sheet metal screws – spacing max. every 40 cm (first layer of panelling)
7. Norgips sheet metal screws – spacing max. every 17 cm (second layer of panelling)
8. Norgips 3.5 x 9.5 mm tapping screws with self-drilling bits
9. Norgips 3.5 x 35 mm wood screws
10. Vapour barrier membrane
11. Norgips Start & Finish ready-made joint compound or Norgips Start or Strong Filler gypsum joint compound
12. Norgips reinforcing tape
13. Ready-made joint compound Norgips Extra Finish, ready-made joint compound Norgips Start & Finish, gypsum joint compound Norgips Finish
14. Mineral wool
15. Roof rafters

* The weight specified does not include the insulation material weight.

** for solutions without the required fire resistance class, the minimum spacing is 50 cm



Horizontal section



Vertical section

Solutions and Technical Parameters

Visualization	Solution name ZP – attic lining 2x12.5 – panelling layers [mm] GKB A – board code CD 60 – profile ES / ES Plus / flat – hangers W – mineral wool	Plasterboard type	Construction		Thickness of plasterboards [mm]	Cladding thickness [mm]	Cladding weight [kg/m²]	Fire resistance class REI [min.]	Type of filling	Minimum filling thickness [mm]
			Profile	Hanger						
	ZP – 2x12,5 GKB A/CD 60, ES, W	A	CD60	ES/ES Plus	2x12,5	55-150	18	–	Any	
	ZP – 2x12,5 GKBI H2/CD 60, ES, W	H2	CD60	ES/ES Plus	2x12,5	55-150	19	–	Any	
	ZP – 2x12,5 GKF DF/CD 60, ES, W	DF	CD60	ES/ES Plus	2x12,5	55-150	24	30	W	150
	ZP – 2x15 GKF DF/CD 60, ES, W	DF	CD60	ES/ES Plus	2x15	60-155	29	60	W	150
	ZP – 2x12,5 GKFI DFH2/CD 60, ES, W	DFH2	CD60	ES/ES Plus	2x12,5	55-150	24	30	W	150
	ZP – 2x15 GKFI DFH2/CD 60, ES, W	DFH2	CD60	ES/ES Plus	2x15	60-155	29	60	W	150
	ZP – 2x12,5 DFH2IR/CD 60, ES, W	DFH2IR	CD60	ES/ES Plus	2x12,5	55-150	26	30	W	150

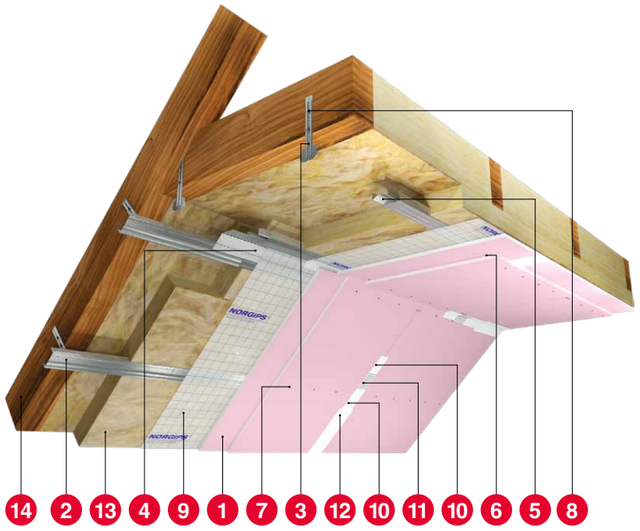
ATTIC PARTITIONING

double plasterboard layer on CD60 profile construction with L type flat hanger

Fire resistance class
max. REI 30

Thickness
55 - 310 mm

Installation weight*
18 - 29 kg/m²

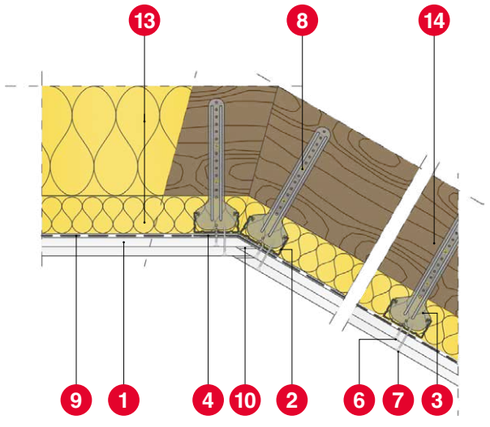


Attic partitioning elements:

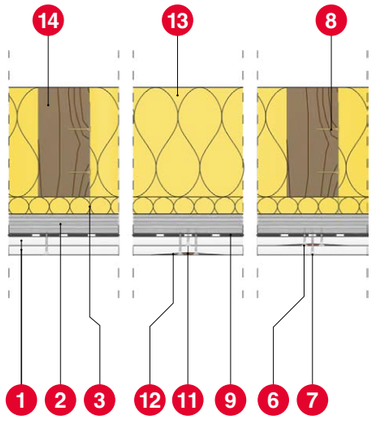
1. Norgips plasterboard
2. Norgips CD 60 profiles, max. axial spacing every 40 cm**
3. Norgips flat hangers
4. Norgips FLEX universal profile
5. Norgips longitudinal fasteners mounted with 4 3.5x9.5 mm sheet metal screws with self-drilling tip
6. Norgips sheet metal screws – spacing max. every 40 cm (first layer of panelling)
7. Norgips sheet metal screws – spacing max. every 17 cm (second layer of panelling)
8. Norgips 3.5 x 35 mm wood screws
9. Vapour barrier membrane
10. Norgips Start & Finish ready-made joint compound or Norgips Start or Strong Filler gypsum joint compound
11. Norgips reinforcing tape
12. Ready-made joint compound Norgips Extra Finish, ready-made joint compound Norgips Start & Finish, gypsum joint compound Norgips Finish
13. Mineral wool
14. Roof rafters

* The weight specified does not include the insulation material weight.

** for solutions without the required fire resistance class, the minimum spacing is 50 cm



Horizontal section



Vertical section

Solutions and Technical Parameters

Visualization	Solution name ZP – attic lining 1x12.5 – panelling layers [mm] GKB A – board code CD 60 – profile ES / ES Plus / flat – hangers W – mineral wool	Plasterboard type	Construction		Thickness of Plasterboards [mm]	Cladding thickness [mm]	Cladding weight [kg/m²]	Fire resistance class REI [min.]	Type of filling	Minimum filling thickness [mm]
			Profile	Hanger						
	ZP – 2x12,5 GKB A/CD 60, L, W	A	CD60	flat	2x12,5	55-305	18	–	Any	
	ZP – 2x12,5 GKBI H2/CD 60, L, W	H2	CD60	flat	2x12,5	55-305	19	–	Any	
	ZP – 2x12,5 GKF DF/CD 60, L, W	DF	CD60	flat	2x12,5	55-305	24	30	Any	
	ZP – 2x15 GKF DF/CD 60, L, W	DF	CD60	flat	2x15	60-310	29	60	W	150
	ZP – 2x12,5 GKFI DFH2/CD 60, L, W	DFH2	CD60	flat	2x12,5	55-305	24	30	Any	
	ZP – 2x15 GKFI DFH2/CD 60, L, W	DFH2	CD60	flat	2x15	60-310	29	60	W	150
	ZP – 2x12,5 DFH2IR/CD 60, L, W	DFH2IR	CD60	flat	2x12,5	55-305	26	30	Any	

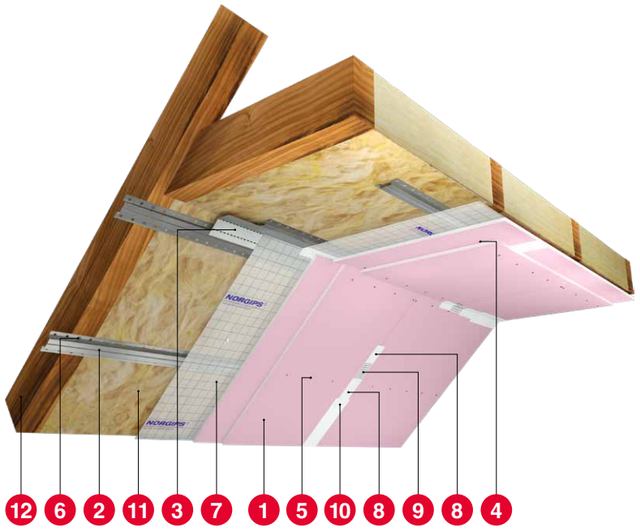
ATTIC PARTITIONING

double plasterboard layer on a hat type profile construction

Fire resistance class
max. REI 60

Thickness
40 - 45 mm

Installation weight*
17 - 28 kg/m²

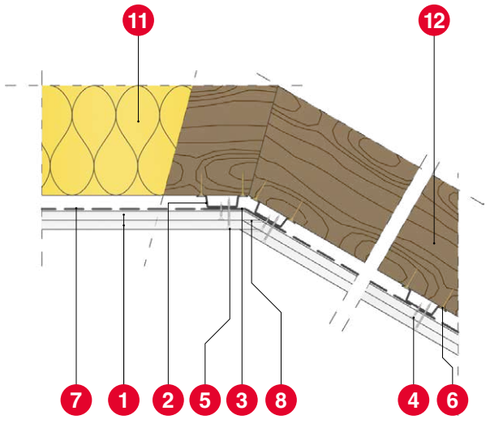


Attic partitioning elements:

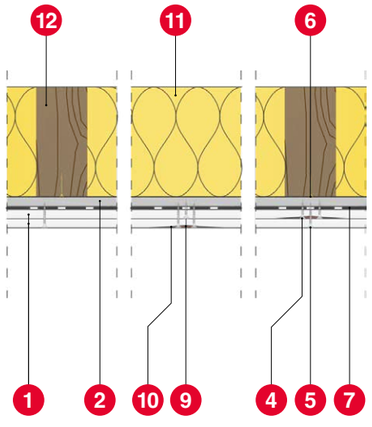
1. Norgips plasterboard
2. Norgips top hat profiles, max. axial spacing every 40 cm
3. Norgips FLEX universal profile
4. Norgips sheet metal screws – spacing max. every 40 cm (first layer of panelling)
5. Norgips sheet metal screws – spacing max. every 17 cm (second layer of panelling)
6. Norgips 3.5 x 35 mm wood screws
7. Vapour barrier membrane
8. Norgips Start & Finish ready-made joint compound or Norgips Start or Strong Filler gypsum joint compound
9. Norgips reinforcing tape
10. Ready-made joint compound Norgips Extra Finish, ready-made joint compound Norgips Start & Finish, gypsum joint compound Norgips Finish
11. Mineral wool
12. Roof rafters

* The weight specified does not include the insulation material weight.

** for solutions without the required fire resistance class, the minimum spacing is 50 cm

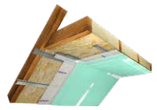
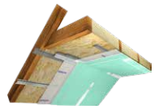


Horizontal section



Vertical section

Solutions and Technical Parameters

Visualization	Solution name ZP – attic lining 2x12.5 – panelling layers [mm] GKB A – board code KAP – profile W – mineral wool	Plasterboard type	Construction Profile	Thickness of plasterboards [mm]	Cladding thickness [mm]	Cladding weight [kg/m²]	Fire resistance class REI [min.]	Type of filling	Minimum filling thickness [mm]
	ZP – 2x12,5 GKB A/KAP, W	A	hat	2x12,5	40	17	–	Any	
	ZP – 2x12,5 GKBI H2/KAP, W	H2	hat	2x12,5	40	18	–	Any	
	ZP – 2x12,5 GKF DF/KAP, W	DF	hat	2x12,5	40	23	30	W	150
	ZP – 2x15 GKF DF/KAP, W	DF	hat	2x15	45	28	60	W	150
	ZP – 2x12,5 GKFI DFH2/KAP, W	DFH2	hat	2x12,5	40	23	30	W	150
	ZP – 2x15 GKFI DFH2/KAP, W	DFH2	hat	2x15	45	28	60	W	150
	ZP – 2x12,5 DFH2IR/KAP, W	DFH2IR	hat	2x12,5	40	25	30	W	150

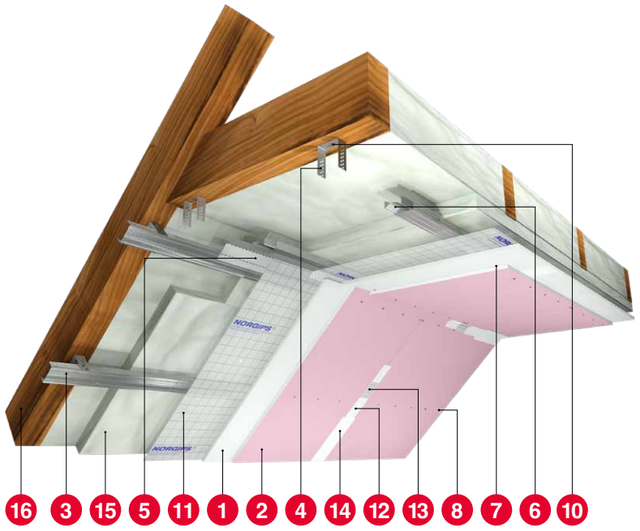
DUO ATTIC PARTITIONING

double mixed plasterboard layer on CD60 profile construction with ES type hanger

Fire resistance class
max. REI 30

Thickness
55 - 150 mm

Installation weight*
21 - 24 kg/m²

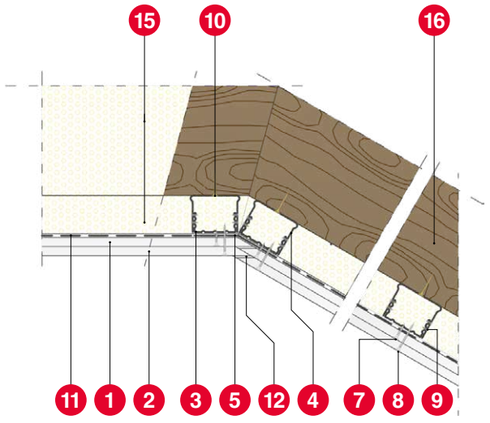


Attic partitioning elements:

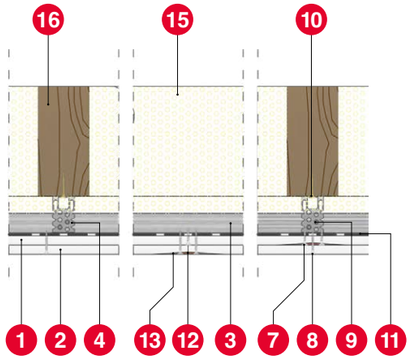
1. Norgypsum GKB type A or GKBI type H2 plasterboard
2. Norgips special plasterboard
3. Norgips CD 60 profiles, max. axial spacing every 40 cm**
4. Norgips ES/ES Plus hangers
5. Norgips FLEX universal profile
6. Norgips longitudinal fasteners mounted with 4 3.5x9.5 mm sheet metal screws with self-drilling tip
7. Norgips sheet metal screws – spacing max. every 40 cm (first layer of panelling)
8. Norgips sheet metal screws – spacing max. every 17 cm (second layer of panelling)
9. Norgips 3.5 x 9.5 mm tapping screws with self-drilling bits
10. Norgips 3.5 x 35 mm wood screws
11. Vapour barrier membrane
12. Norgips Start & Finish ready-made joint compound or Norgips Start or Strong Filler gypsum joint compound
13. Norgips reinforcing tape
14. Ready-made joint compound Norgips Extra Finish, ready-made joint compound Norgips Start & Finish, gypsum joint compound Norgips Finish
15. PUR foam
16. Roof rafters

* The weight specified does not include the insulation material weight.

** for solutions without the required fire resistance class, the minimum spacing is 50 cm

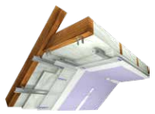
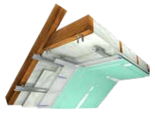
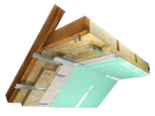
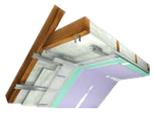
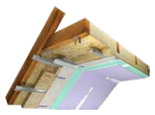


Horizontal section



Vertical section

Solutions and Technical Parameters

Visualization	Solution name ZP – attic lining 2x12.5 – panelling layers [mm] GKB A – board code CD 60 – profile ES / ES Plus / flat – hangers PUR – foam / W – mineral wool	Plasterboard type	Construction		Thickness of plasterboards [mm]	Cladding thickness [mm]	Cladding weight [kg/m²]	Fire resistance class REI [min.]	Type of filling	Minimum filling thickness [mm]
			Profile	Hanger						
	ZP – 2x12,5 GKB A + GKF DF/CD 60, ES, PUR	A + DF	CD60	ES/ES Plus	2x12,5	55–150	21	30	PUR (E)	150
	ZP – 2x12,5 GKB A + GKF DF/CD 60, ES, W	A + DF	CD60	ES/ES Plus	2x12,5	55–150	21	30	W	150
	ZP – 2x12,5 GKB A + DFH2IR/CD 60, ES, PUR	A + DFH2IR	CD60	ES/ES Plus	2x12,5	55–150	23	30	PUR (E)	150
	ZP – 2x12,5 GKB A + DFH2IR/CD 60, ES, W	A + DFH2IR	CD60	ES/ES Plus	2x12,5	55–150	23	30	W	150
	ZP – 2x12,5 GKBI H2 + GKFI DFH2/CD 60, ES, PUR	H2 + DFH2	CD60	ES/ES Plus	2x12,5	55–150	22	30	PUR (E)	150
	ZP – 2x12,5 GKBI H2 + GKFI DFH2/CD 60, ES, W	H2 + DFH3	CD60	ES/ES Plus	2x12,5	55–150	22	30	W	150
	ZP – 2x12,5 GKBI H2 + DFH2IR/CD 60, ES, PUR	H2 + DFH2IR	CD60	ES/ES Plus	2x12,5	55–150	24	30	PUR (E)	150
	ZP – 2x12,5 GKBI H2 + DFH2IR/CD 60, ES, W	H2 + DFH2IR	CD60	ES/ES Plus	2x12,5	55–150	24	30	W	150

E – class of foam reaction to fire not less than E

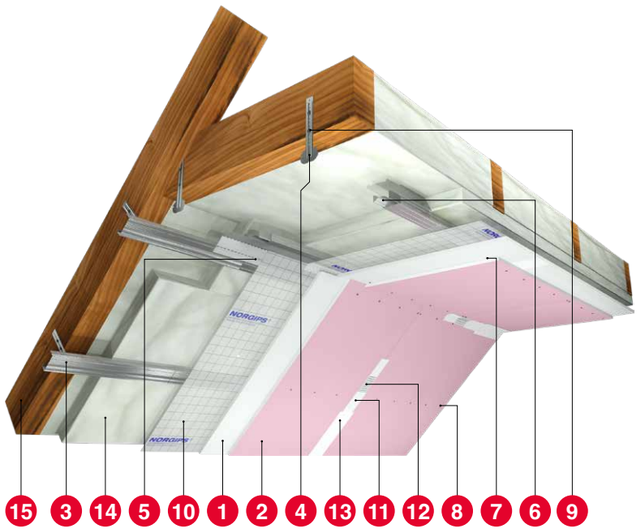
DUO ATTIC PARTITIONING

double mixed plasterboard layer on CD60 profile construction with L type flat hanger

Fire resistance class
max. REI 30

Thickness
55 - 305 mm

Installation weight*
21 - 24 kg/m²

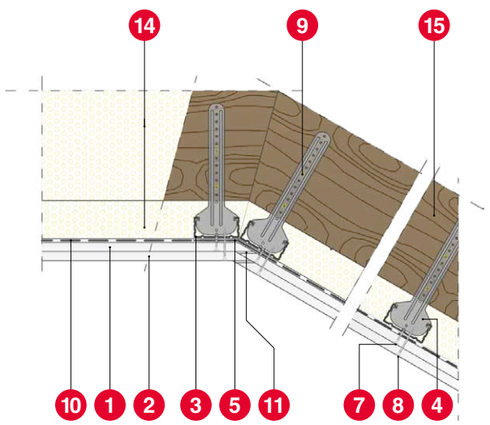


Attic partitioning elements:

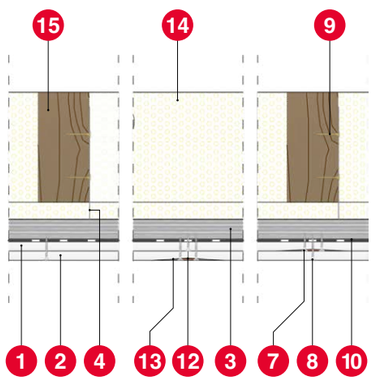
1. Norgypsum GKB type A or GKBI type H2 plasterboard
2. Norgips special plasterboard
3. Norgips CD 60 profiles, max. axial spacing every 40 cm**
4. Norgips flat hangers
5. Norgips FLEX universal profile
6. Norgips longitudinal fasteners mounted with 4 3.5x9.5 mm sheet metal screws with self-drilling tip
7. Norgips sheet metal screws – spacing max. every 40 cm (first layer of panelling)
8. Norgips sheet metal screws – spacing max. every 17 cm (second layer of panelling)
9. Norgips 3.5 x 35 mm wood screws
10. Vapour barrier membrane
11. Norgips Start & Finish ready-made joint compound or Norgips Start or Strong Filler gypsum joint compound
12. Norgips reinforcing tape
13. Ready-made joint compound Norgips Extra Finish, ready-made joint compound Norgips Start & Finish, gypsum joint compound Norgips Finish
14. PUR foam
15. Roof rafters

* The weight specified does not include the insulation material weight.

** for solutions without the required fire resistance class, the minimum spacing is 50 cm

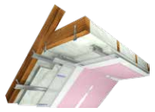
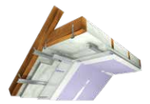
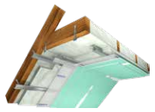
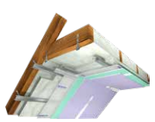
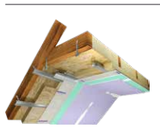


Horizontal section



Vertical section

Solutions and Technical Parameters

Visualization	Solution name ZP – attic lining 2x12.5 – panelling layers [mm] GKB A – board code CD 60 – profile ES / ES Plus / flat – hangers PUR – foam / W – mineral wool	Plasterboard type	Construction		Thickness of plasterboards [mm]	Cladding thickness [mm]	Cladding weight [kg/m²]	Fire resistance class REI [min.]	Type of filling	Minimum filling thickness [mm]
			Profile	Hanger						
	ZP – 2x12,5 GKB A + GKF DF/CD 60, L, PUR	A + DF	CD60	flat	2x12,5	55–305	21	30	PUR (E)	150
	ZP – 2x12,5 GKB A + GKF DF/CD 60, L, W	A + DF	CD60	flat	2x12,5	55–305	21	30	W	150
	ZP – 2x12,5 GKB A + DFH2IR/CD 60, L, PUR	A + DFH2IR	CD60	flat	2x12,5	55–305	23	30	PUR (E)	150
	ZP – 2x12,5 GKB A + DFH2IR/CD 60, L, W	A + DFH2IR	CD60	flat	2x12,5	55–305	23	30	W	150
	ZP – 2x12,5 GKBI H2 + GKFI DFH2/CD 60, L, PUR	H2 + DFH3	CD60	flat	2x12,5	55–305	22	30	PUR (E)	150
	ZP – 2x12,5 GKBI H2 + GKFI DFH2/CD 60, L, W	H2 + DFH4	CD60	flat	2x12,5	55–305	22	30	W	150
	ZP – 2x12,5 GKBI H2 + DFH2IR/CD 60, L, PUR	H2 + DFH2IR	CD60	flat	2x12,5	55–305	24	30	PUR (E)	150
	ZP – 2x12,5 GKBI H2 + DFH2IR/CD 60, L, W	H2 + DFH2IR	CD60	flat	2x12,5	55–305	24	30	W	150

E – class of foam reaction to fire not less than E

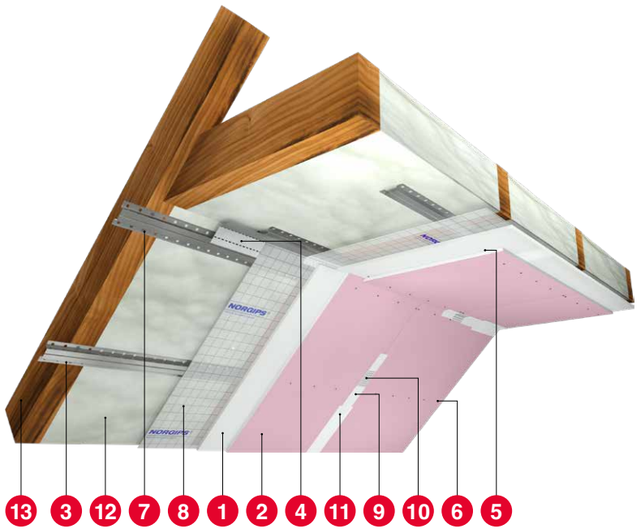
DUO ATTIC PARTITIONING

double mixed plasterboard layer on a hat type profile construction

Fire resistance class
max. REI 30

Thickness
40 mm

Installation weight*
20 - 23 kg/m²

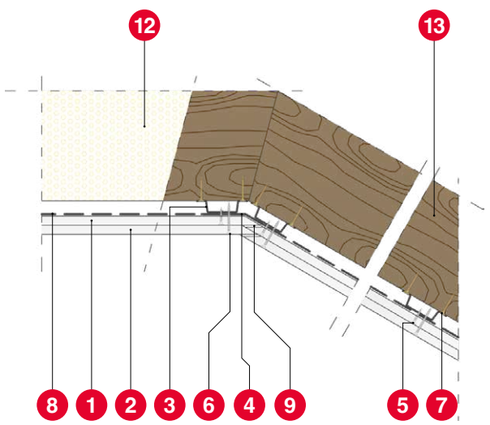


Attic partitioning elements:

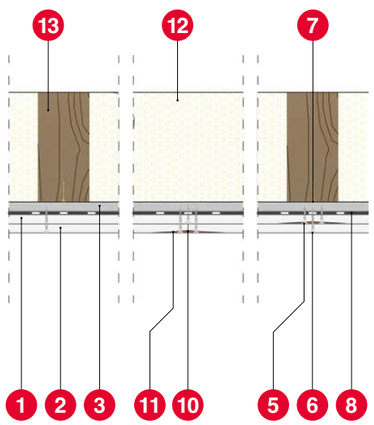
1. Norgypsum GKB type A or GKBI type H2 plasterboard
2. Norgips special plasterboard
3. Norgips top hat profiles, max. axial spacing every 40 cm
4. Norgips FLEX universal profile
5. Norgips sheet metal screws – spacing max. every 40 cm (first layer of panelling)
6. Norgips sheet metal screws – spacing max. every 17 cm (second layer of panelling)
7. Norgips 3.5 x 35 mm wood screws
8. Vapour barrier membrane
9. Norgips Start & Finish ready-made joint compound or Norgips Start or Strong Filler gypsum joint compound
10. Norgips reinforcing tape
11. Ready-made joint compound Norgips Extra Finish, ready-made joint compound Norgips Start & Finish, gypsum joint compound Norgips Finish
12. PUR foam
13. Roof rafters

* The weight specified does not include the insulation material weight.

** for solutions without the required fire resistance class, the minimum spacing is 50 cm

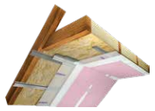
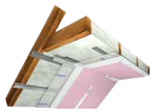
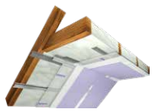
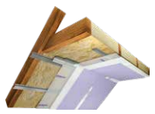
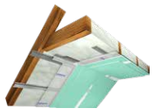
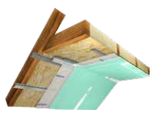
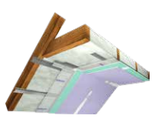
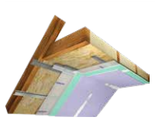


Horizontal section



Vertical section

Solutions and Technical Parameters

Visualization	**Solution name** ZP – attic lining 2x12.5 – panelling layers [mm] GKB A – board code CD 60 – profile ES / ES Plus / flat – hangers PUR – foam / W – mineral wool	Plasterboard type	Construction Profile	Thickness of plasterboards [mm]	Cladding thickness [mm]	Cladding weight [kg/m²]	Fire resistance class REI [min.]	Type of filling	Minimum filling thickness [mm]
	ZP - 2x12,5 GKB A + GKF DF/KAP, PUR	A + DF	hat	2x12,5	40	20	30	PUR (E)	150
	ZP - 2x12,5 GKB A + GKF DF/KAP, W	A + DF	hat	2x12,5	40	20	30	W	150
	ZP - 2x12,5 GKB A + DFH2IR/KAP, PUR	A + DFH2IR	hat	2x12,5	40	22	30	PUR (E)	150
	ZP - 2x12,5 GKB A + DFH2IR/KAP, W	A + DFH2IR	hat	2x12,5	40	22	30	W	150
	ZP - 2x12,5 GKBI H2 + GKFI DFH2/KAP, PUR	H2 + DFH2	hat	2x12,5	40	21	30	PUR (E)	150
	ZP - 2x12,5 GKBI H2 + GKFI DFH2/KAP, W	H2 + DFH2	hat	2x12,5	40	21	30	W	150
	ZP - 2x12,5 GKBI H2 + DFH2IR/KAP, PUR	H2 + DFH2IR	hat	2x12,5	40	23	30	PUR (E)	150
	ZP - 2x12,5 GKBI H2 + DFH2IR/KAP, W	H2 + DFH2IR	hat	2x12,5	40	23	30	W	150

E – class of foam reaction to fire not less than E

Technical information

Norgips plasterboard used in attic partitioning

Plasterboard name	Type (ISO EN520)	Thickness [mm]	Weight [kg/m²]	Characteristics	Plasterboard code
Norgips S GKB	A	12,5	7,1	standard	GKB A
Norgips S GKBI	H2	12,5	7,6	impregnated	GKBI H2
Norgips GKF	DF	12,5	10,1	fire resistant	GKF DF
Norgips GKF	DF	15	14,0	fire resistant	GKF DF
Norgips GKFI	DFH2	12,5	10,1	fire resistant, impregnated	GKFI DFH2
Norgips GKFI	DFH2	15	14,0	fire resistant, impregnated	GKFI DFH2
Norgips Acoustic	A	12,5	9,0	acoustic	ACO A
Norgips Acoustic Super	DFH2IR	12,5	11,5	acoustic, fire resistant, impregnated	DFH2IR

Norgips profiles used for attic partitioning installation

Norgips profiles made of cold-formed galvanized steel (nominal profile thickness is: 0.55 mm; 0.6 mm

	NORGIPS profile	NORGIPS SUPER profile
Tensile strength [N/mm²]	285	285
Reaction-to-fire performance	A1	A1
Sheet metal type	DX51D	DX51D
Sheet metal gauge [mm]	0,55 / 0,6	0,6
Zinc-coating	Z140	Z275
Atmospheric corrosivity category	C1, C2	C3

Plasterboards fixing to the structure

When fixing plasterboards to the structure, make sure that the screws are longer than the thickness of plasterboards or the total thickness of fastened plasterboards (in multi-layer sheathings) by a minimum of 10 mm.

Selection of screws for the appropriate thickness of plasterboard sheathing:

Thickness of panelling layers [mm]	Screw type
1x12,5	3,5x25 mm
1x15	3,5x25 mm
2x12,5	3,5x25 mm + 3,5x35 mm
2x15	3,5x25 mm + 3,5x45 mm
3x12,5	3,5x25 mm + 3,5x35 mm + 3,5x55 mm

Fire resistance class

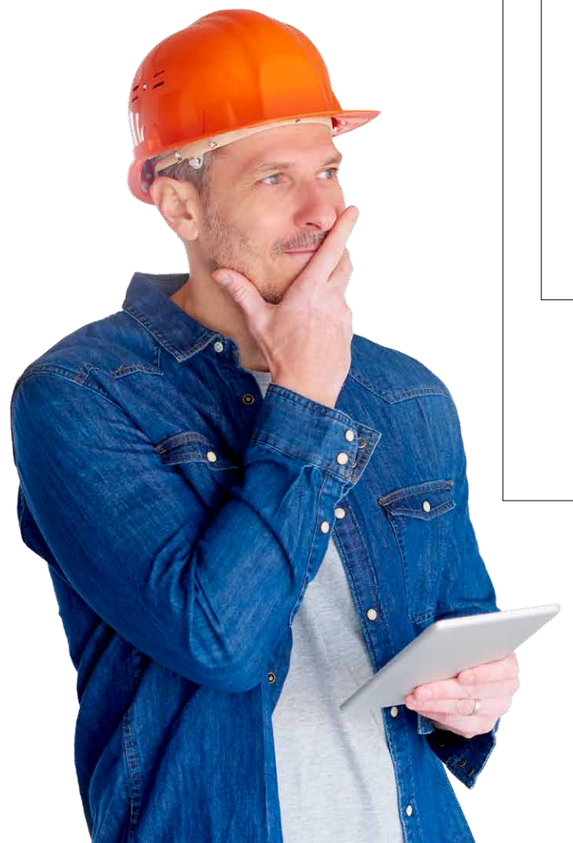
A fire resistance class describes fire resistance required for a given partition / building element. Fire resistance classes usually combine the ordinary criterion E and I, or R, E and I, e.g. EI 15, EI 30, EI 45, EI 60. E – integrity, I – insulation, R – load-bearing capasity and stability.

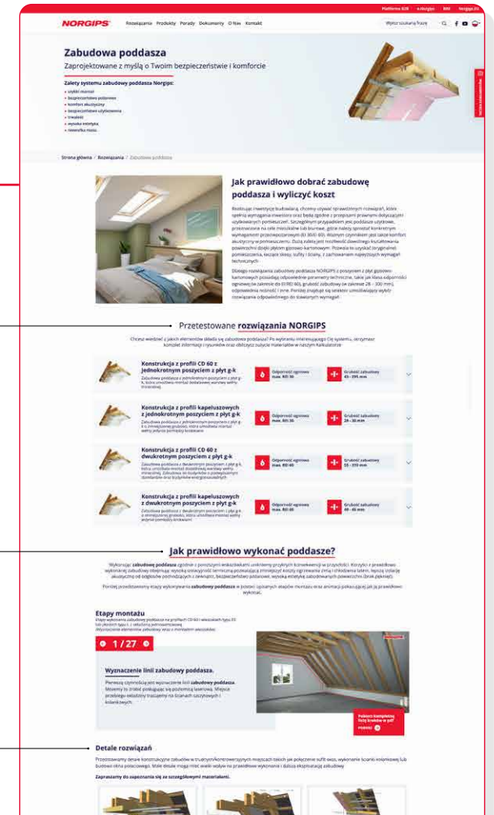
Information and news about attics *at www.norgips.pl*

We invite you to visit www.norgips.pl for detailed information on the construction of NORGIPS attic lining.

In the attic lining tab you will find:

- **NORGIPS solution selector**
- **Assembly stages**
- **Details of solutions**
- **Video tutorials**
- **Recommended products**
- **Guidebooks**
- **Inspiration**





Assembly stages

Steps in the installation of attic partitioning on CD 60 profiles and ES type hangers or L type flat hangers with single-layer cladding (determination of lining elements including assembly of hangers).

1 Determining the attic lining line

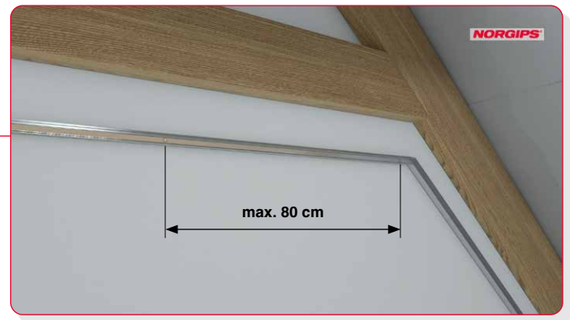
The first activity is to determine the **attic partitioning line**. A laser level can be used for this purpose. We mark the position of the cladding on the gable and knee walls.

2 Sticking insulation tape under UD 30 profiles

Stick insulation tape under the UD 30 profiles – it will significantly improve the acoustic insulation of the plasterboard cladding.

3 Installation of UD 30 profiles

Apply the profiles in a designated place and fasten them to the walls with expansion pins or screws every 80 cm.



4 Determining the installation location of ES type or flat L type hangers – installation of plasterboards parallel to rafters.

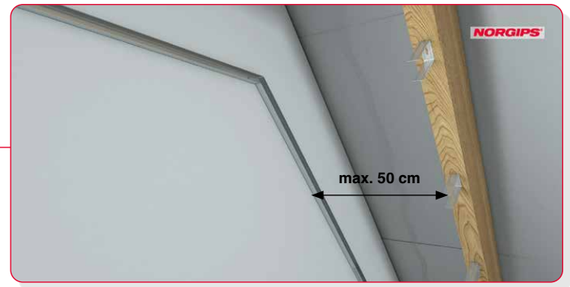
Next, set the installation location of ES type or flat L type hangers on the rafters and hooks. The maximum spacing between the hangers must not exceed 50 cm if we intend to install the plasterboards perpendicularly to the lining structure made of CD 60 profiles.

5 Determining the installation location of ES type or flat L type hangers – installation of plasterboards in a system perpendicular to the rafters

When installing plasterboards in the parallel direction, this distance must not exceed 40 cm.

6 Determining the installation location of outer ES type or flat L type hangers

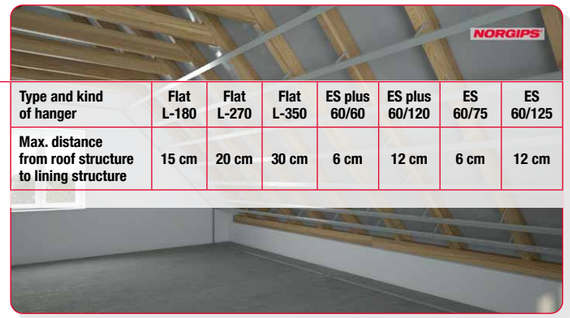
The outer hangers can be located from the wall by a maximum of 50 cm.



7 Rules for selecting hangers

The type and kind of hanger used is selected depending on the height by which the attic lining structure is to be lowered in relation to the roof structure.

The table shows the maximum distances at which the lining structure can be moved from the roof structure using particular hangers.



Type and kind of hanger	Flat L-180	Flat L-270	Flat L-350	ES plus 60/60	ES plus 60/120	ES 60/75	ES 60/125
Max. distance from roof structure to lining structure	15 cm	20 cm	30 cm	6 cm	12 cm	6 cm	12 cm

8 Installation of ES or ES plus hangers

At designated locations, screw ES hangers or ES Plus hangers to the rafters face with two wood screws min.

∅ 3.5 mm x 35 mm. The length of the hanger arms ranges from 60 mm to 125 mm.

9 Installation of L type hangers (mushroom)

In the case of L type flat hangers, also called “mushroom” screw them in the designated places to the side of the rafters with two wood screws, min. ∅ 3.5 mm x 35 mm. These hangers must be screwed precisely in accordance with the etched lining plane.

Using L-350 flat hangers, we can lower the structure to 30 cm and fill it with an additional layer of insulation material.

10 Laying mineral wool

We lay thermal insulation between elements of the roof structure and in the space between the roof structure and the future lining structure. Layer arrangement of thermal insulation increases thermal insulation of the roof and significantly reduces heat losses
through thermal bridges formed on rafters and other elements of the wooden structure.

11 Installation of CD 60 profiles to ES type hangers

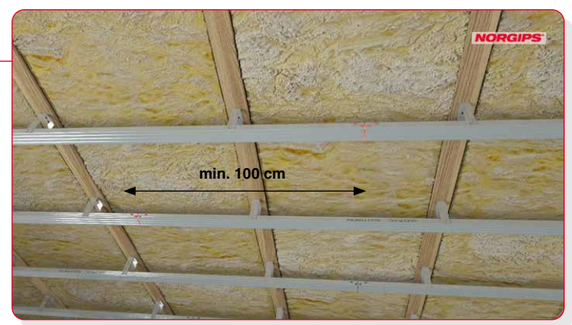
The lining structure is made of CD 60 profiles. When using ES hangers, insert CD 60 profiles between the hanger arms and insert them into UD 30 profiles.
After levelling the profiles, connect them with the hanger arms using sheet metal screws with a self-drilling tip ∅ 3.5 mm x 9.5 mm called “fleas”. Screw 2 pcs. on each side of the connection.
In our cladding, the plasterboards will be screwed perpendicular to the profiles, which is why the distance between the CD 60 profiles will not exceed 50 cm.

12 Installation of CD 60 profiles for L-type hangers

When using L type flat hangers called “mushrooms”, plug the profiles into levelled hangers and insert them into UD 30 profiles.

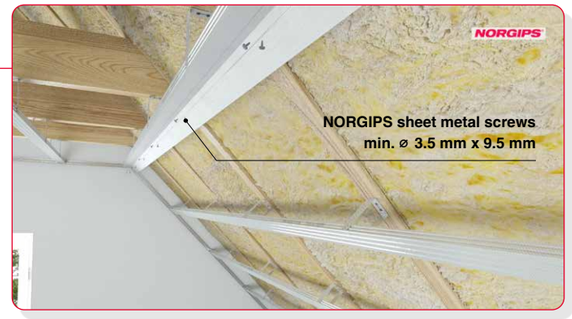
13 Extending CD 60 profiles

CD 60 profiles can be extended using longitudinal connectors. The longitudinal connector should be inserted into the ends of the profiles to be connected and secured with ∅ 3.5 mm x 9.5 mm self-piercing sheet metal screws. Screw 2 pcs. on each side of the connected profiles.
If profiles in adjacent rows are extended, the places where they are connected must be shifted relative to each other by min. 100 cm.



14 Flex profile assembly

At the point of contact of the cladding bevel plane with the horizontal plane, the outer profiles are placed side by side. In this place, we install the Flex flexible profile, which stiffens this connection so as to avoid cracks at the contact of these planes. Fasten the profile using sheet metal screws with a self-drilling tip
∅ 3.5 mm x 9.5 mm.

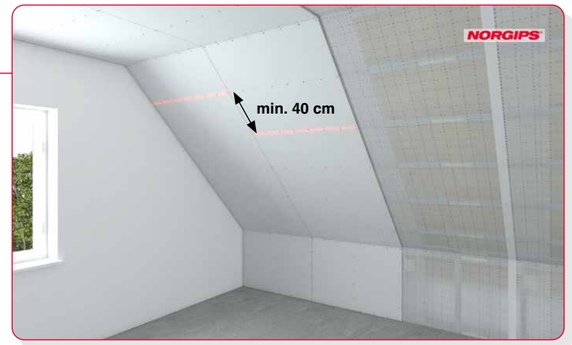


15 Installation of vapour barrier membrane

After levelling the structure, apply vapour barrier by sticking the membrane to the profiles using double-sided adhesive tape. Seal the membrane joints with suitable tapes.

16 Installation of plasterboards – arrangement of boards

We cut plasterboards to the appropriate size. The minimum thickness of plasterboards mounted on the attic is 12.5 mm. Screw the plasterboards perpendicular to the profiles in such a way that their shorter edges rest on the profiles. Screw them only to CD 60 profiles and Flex profiles.
The plasterboards in the adjacent strips must be installed in such a way that the joints between the shorter edges are shifted relative to each other by min. 40 cm.

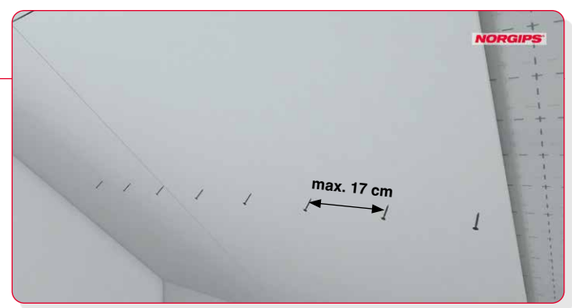


17 Installation of plasterboards

– chamfering of shorter edges of boards
The short edges of the plasterboards touching each other must be chamfered at an angle of approx. 45° up to 2/3 of the board thickness.

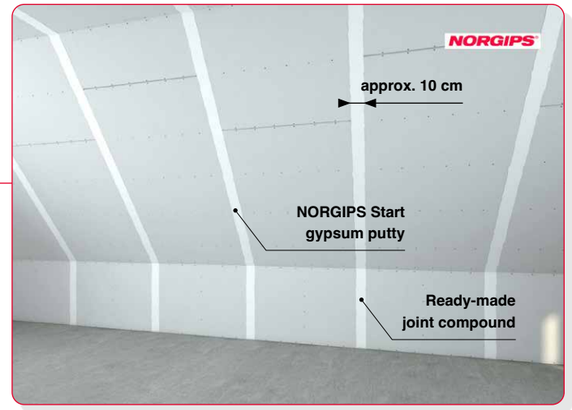
18 Installation of plasterboards

– spacing and types of sheet metal screws
The maximum spacing of the sheet metal screws must not exceed 17 cm and they should be 10 mm longer than the total thickness of the installed plasterboards. So, to install 12.5 mm plasterboards, ∅ 3.5 mm x 25 mm sheet metal screws should be used.



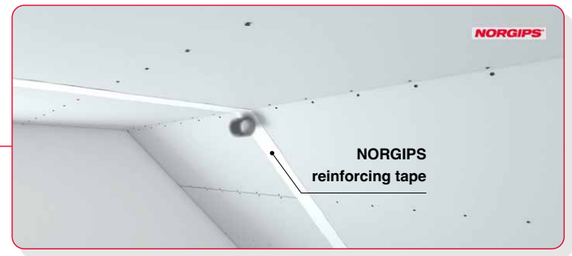
19 Filling flattened joints of plasterboards Q1 level – applying structural joint compound

Apply the Norgips structural joint compound on the board joints on the width of approx. 10 cm. After drying, apply joint compound again at the joint and the places where the boards are screwed in using sheet metal screws.



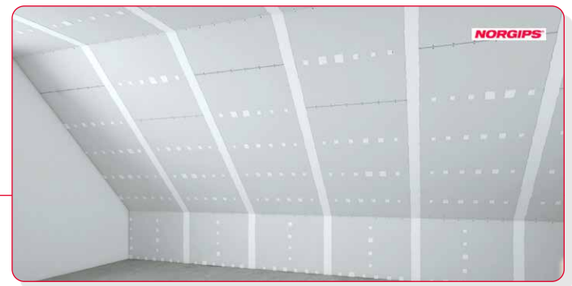
20 Filling of flattened joints of plasterboards Q1 level – blending of reinforcing tape

Then blend the reinforcing tape of paper or fiberglass into it.



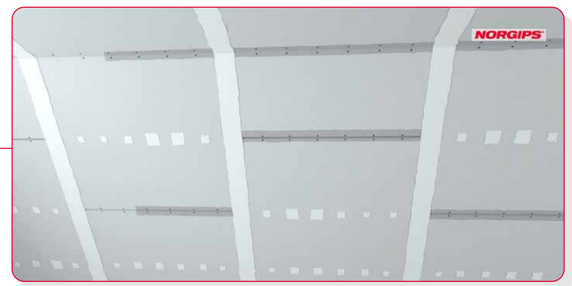
21 Filling of flattened joints of plasterboards Q1 level – applying a second layer of structural joint compound and filling places on sheet metal screws

After drying, apply joint compound again at the joint and the places where the boards are screwed in using sheet metal screws.



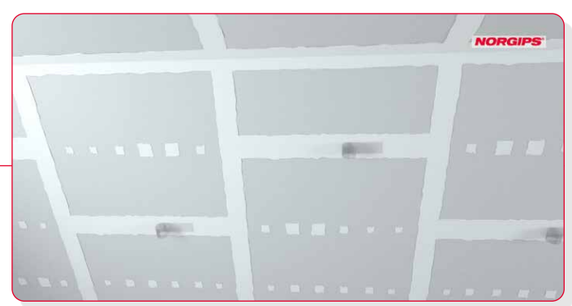
22 Filling of chamfered joints of plasterboards Q1 level – priming

Wet the chamfered joints with water and then fill them with the structural Norgips joint compound.



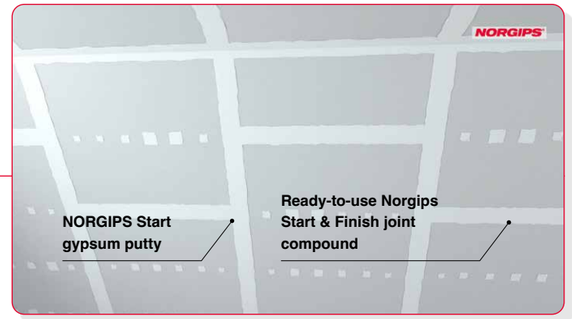
23 Filling of chamfered joints of plasterboards Q1 level – applying a second layer of structural compound and blending of reinforcing tape

Once the first layer of the compound has dried, apply the second layer of the compound to the joint and immerse a paper or glass fibre reinforcement tape in the compound.



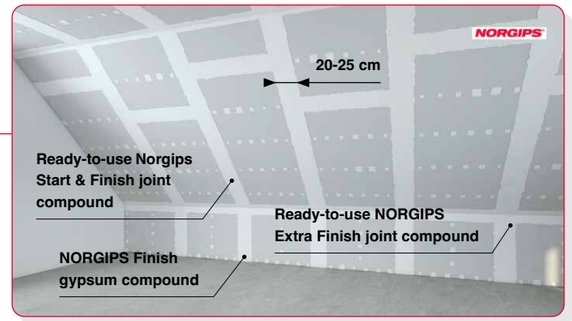
24 Filling of chamfered joints of plasterboards Q1 level – application of structural joint compound

In this way, a two-layer structural joint defined as the Q1 joint surface quality level is obtained.



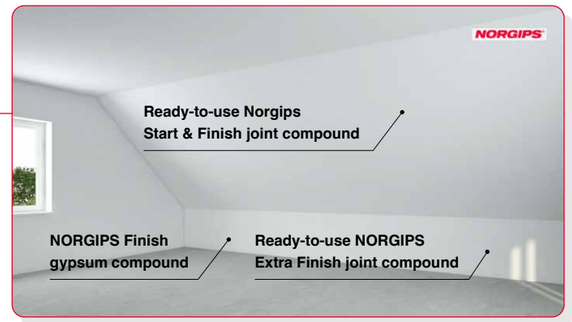
25 Filling joints of plasterboards Q2 level – applying a finishing coat of compound to joints and filling places on sheet metal screws

Apply a finishing layer of Norgips compound on the joints of the boards of approx. 20-25 cm wide and fill the places after screws. Once the final layer has dried, sand the excess of the compound to obtain an even and smooth surface. The Q2 surface quality level is usually defined as a standard one because it meets the most common aesthetic requirements for plasterboard surfaces.



26 Filling the surface of plasterboards Q3 level – applying a thin finish layer of compound to the entire surface

In order to obtain a fully homogeneous surface apply a thin layer of a selected Norgips finish joint compound over the entire surface of the plasterboards. After drying, sand the surface to obtain even and smooth surfaces. This level of filling is referred to as Q3.



27 Final effect

Using Norgips technology, we build attic cladding easily and quickly, whose smooth and aesthetic surfaces have high acoustic insulation and ensure fire safety.

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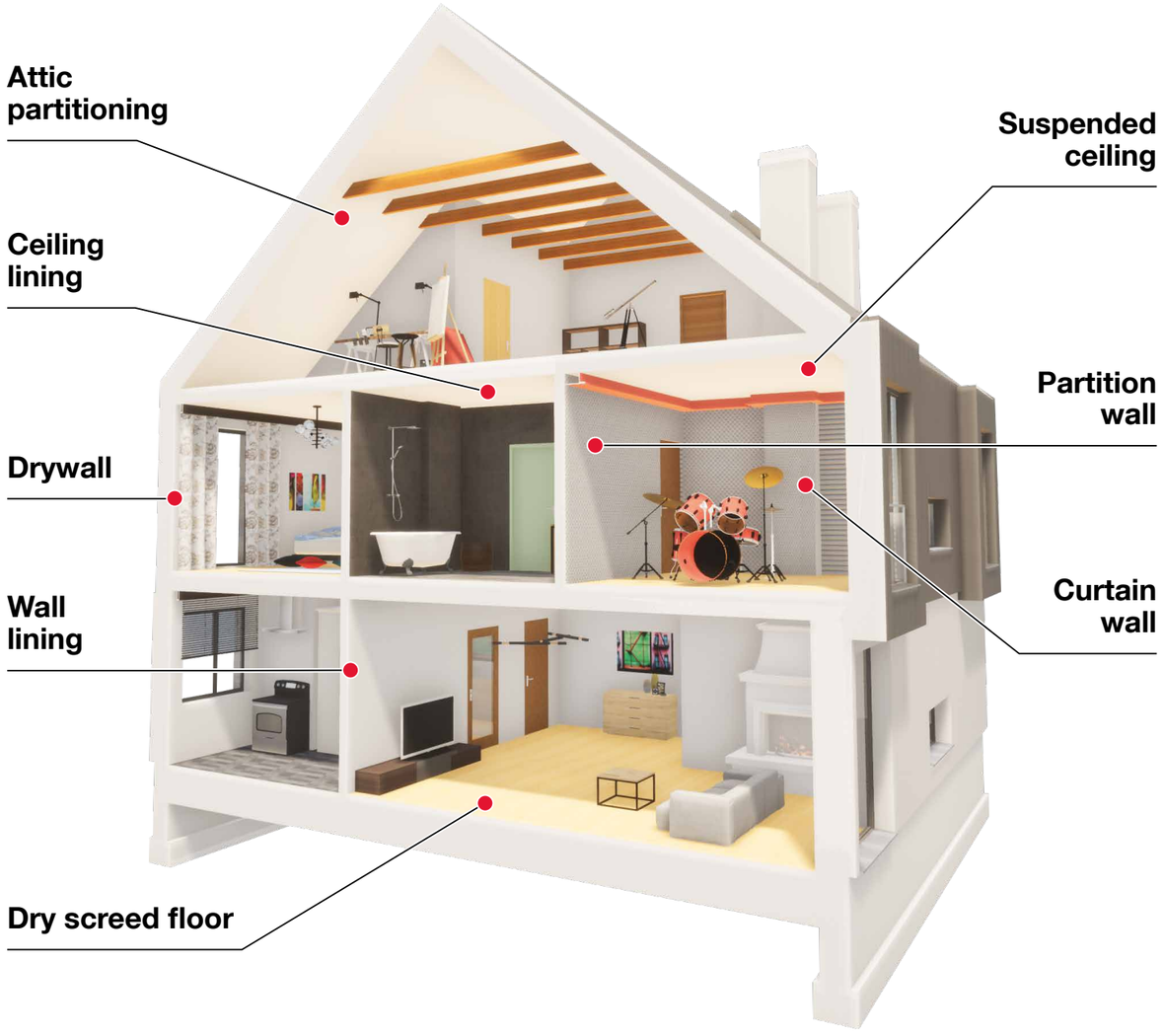
NORGIPS solutions



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