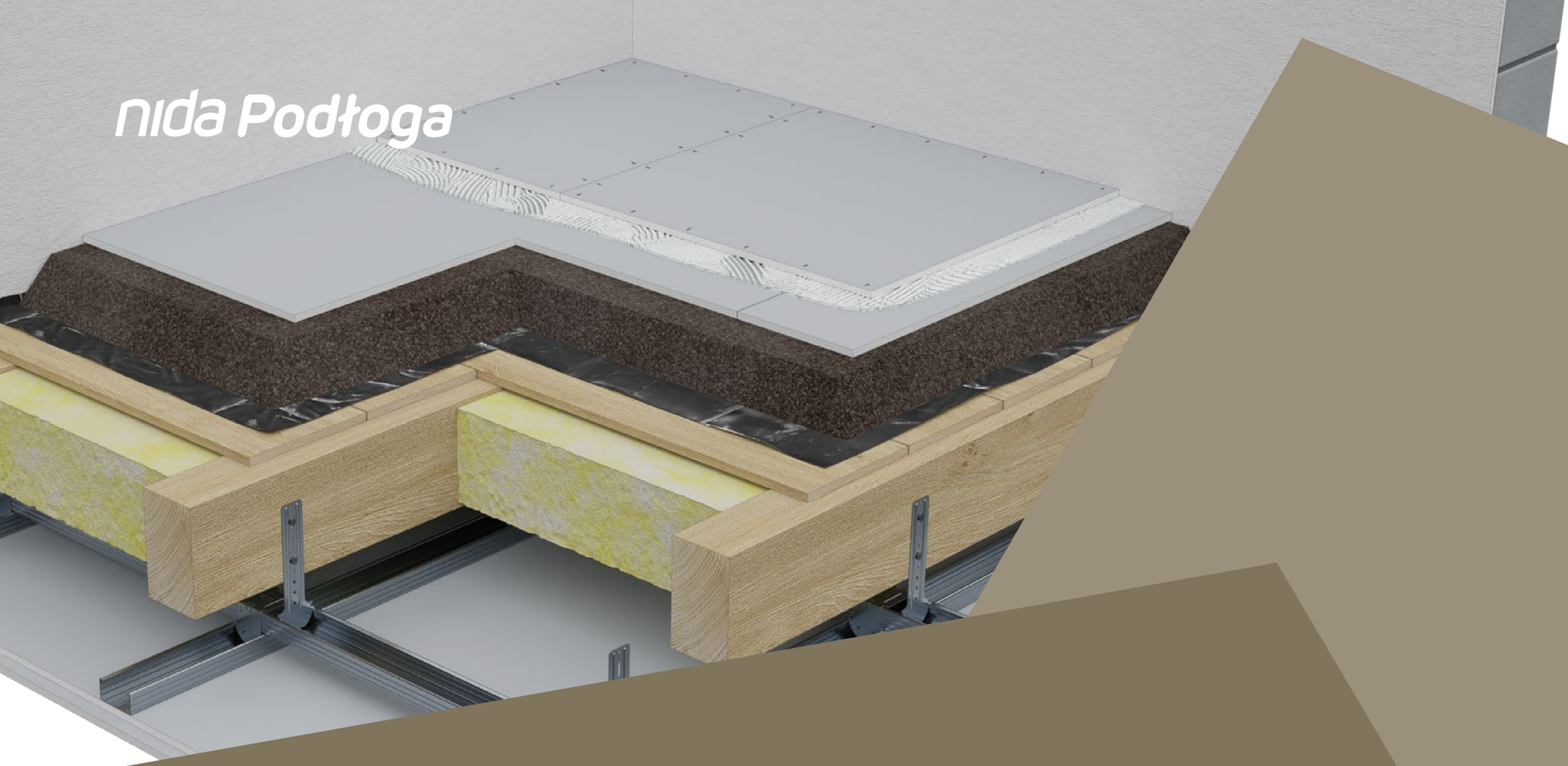


dry screed

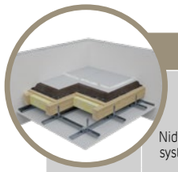
The Nida Podłoga dry screed system consists of the Nida Twarda KP specially modified flooring plaster-particle boards with fibres and constitutes an alternative to the conventional solutions (levelling).

The dry screed system is intended to be laid on any floors, both new, and those to be renovated. Its relatively insignificant weight and quick and dry application make this system the perfect solution to the problem of renovating and old, damaged floors, especially in the case of weakened floor structures. Apart from the aforementioned advantages, the dry screed system according to the technology by Siniat is provided with the fire resistance class REI60 for fire exposition from the top, in order to meet the requirements of the class it is necessary to apply two layers of the Nida Twarda KP plaster-particle board with fibres, thickness 12.5 mm.

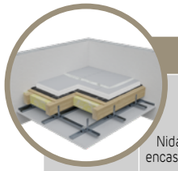
chapter contents

1168 LWA/25
1170 S/25
1172 MW/25
1174 PUF/25
1176 LWA/25
1178 S/25
1180 MW/25

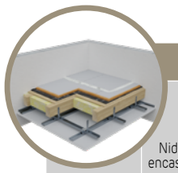
nida Podłoga / index of systems



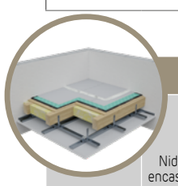
Page	Nida Podłoga system name	Base layer (levelling)		Plasterboard sheathing			Fastening accessories				Acceptable load		Weight of 1m² of encasement [3]	Fire resistance class (a → b) [1] [2]	Special system
							Between board layers		Mechanical fasteners		Surface	Point			
		Material	Reaction to fire class	Nida	Marking acc. to standard	Thickness [mm]	Thickness [mm]	Type	Screws	Steel staples	kN/m²	kN	[kg]	[min]	
DRY SCREED SYSTEM INSTALLED ON BASE LAYER OF MINERAL SUBBASE – FIRE RESISTANCE FROM TOP															
1169	LWA/25/Twarda	LECA	A1	Twarda KP	DEFH1IR	2x12,5	1,0	gypsum putty	board-board	-	3,0	2,0	27,0	REI60	●
1169	LWA/25/Twarda	LECA	A1	Twarda KP	DEFH1IR	2x12,5	1,0	gypsum putty	-	C4/23	3,0	2,0	27,0	REI60	●



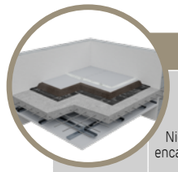
Page	Nida Podłoga encasement type	Base layer (levelling)		Plasterboard sheathing			Fastening accessories				Acceptable load		Weight of 1m² of encasement [3]	Fire resistance class (a → b) [1] [2]	Special system
							Between board layers		Mechanical fasteners		Surface	Point			
		Material	Reaction to fire class	Nida	Marking acc. to standard	Thickness [mm]	Thickness [mm]	Type	Screws	Steel staples	kN/m²	kN	[kg]	[min]	
DRY SCREED SYSTEM INSTALLED ON BASE LAYER OF STYROFOAM BOARDS – FIRE RESISTANCE FROM TOP															
1171	S/25/Twarda	styrofoam	E	Twarda KP	DEFH1IR	2x12,5	1,0	gypsum putty	board-board	-	3,0	2,0	27,0	REI60	●
1171	S/25/Twarda	styrofoam	E	Twarda KP	DEFH1IR	2x12,5	1,0	gypsum putty	-	C4/23	3,0	2,0	27,0	REI60	●



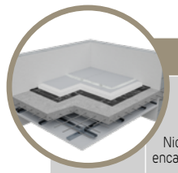
Page	Nida Podłoga encasement type	Base layer (levelling)		Plasterboard sheathing			Fastening accessories				Acceptable load		Weight of 1m² of encasement [3]	Fire resistance class (a → b) [1] [2]	Special system
							Between board layers		Mechanical fasteners		Surface	Point			
		Material	Reaction to fire class	Nida	Marking acc. to standard	Thickness [mm]	Thickness [mm]	Type	Screws	Steel staples	kN/m²	kN	[kg]	[min]	
DRY SCREED SYSTEM INSTALLED ON BASE LAYER OF MINERAL WOOL OF ROCK FIBRES – FIRE RESISTANCE FROM TOP															
1173	MW/25/Twarda	mineral wool	A1	Twarda KP	DEFH1IR	2x12,5	1,0	gypsum putty	board-board	-	3,0	2,0	27,0	REI60	●
1173	MW/25/Twarda	mineral wool	A1	Twarda KP	DEFH1IR	2x12,5	1,0	gypsum putty	-	C4/23	3,0	2,0	27,0	REI60	●



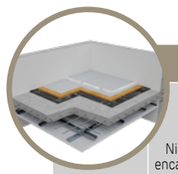
Page	Nida Podłoga encasement type	Base layer (levelling)		Plasterboard sheathing			Fastening accessories				Acceptable load		Weight of 1m² of encasement [3]	Fire resistance class (a → b) [1] [2]	Special system
							Between board layers		Mechanical fasteners		Surface	Point			
		Material	Reaction to fire class	Nida	Marking acc. to standard	Thickness [mm]	Thickness [mm]	Type	Screws	Steel staples	kN/m²	kN	[kg]	[min]	
DRY SCREED SYSTEM INSTALLED ON BASE LAYER OF POLYUREHANE FOAM MAT – FIRE RESISTANCE FROM TOP															
1175	PUF/25/Twarda	polyuretha-ne foam mat	E	Twarda KP	DEFH1IR	2x12,5	1,0	gypsum putty	board-board	-	3,0	2,0	27,0	REI60	●
1175	PUF/25/Twarda	polyuretha-ne foam mat	E	Twarda KP	DEFH1IR	2x12,5	1,0	gypsum putty	-	C4/23	3,0	2,0	27,0	REI60	●



Page	Nida Podłoga encasement type	Base layer (levelling)		Plasterboard sheathing			Fastening accessories				Acceptable load		Weight of 1m² of encasement [3]	Fire resistance class (a → b) [1] [2]	Special system
							Between board layers		Mechanical fasteners		Surface	Point			
		Material	Reaction to fire class	Nida	Marking acc. to standard	Thickness [mm]	Thickness [mm]	Type	Screws	Steel staples	kN/m²	kN	[kg]	[min]	
DRY SCREED SYSTEM INSTALLED ON BASE LAYER OF MINERAL SUBBASE – FIRE RESISTANCE FROM TOP															
1177	LWA/25/Twarda	LECA	A1	Twarda KP	DEFH1IR	2x12,5	1,0	gypsum putty	board-board	-	3,0	2,0	27,0	REI60	●
1177	LWA/25/Twarda	LECA	A1	Twarda KP	DEFH1IR	2x12,5	1,0	gypsum putty	-	C4/23	3,0	2,0	27,0	REI60	●



Page	Nida Podłoga encasement type	Base layer (levelling)		Plasterboard sheathing			Fastening accessories				Acceptable load		Weight of 1m² of encasement [3]	Fire resistance class (a → b) [1] [2]	Special system
							Between board layers		Mechanical fasteners		Surface	Point			
		Material	Reaction to fire class	Nida	Marking acc. to standard	Thickness [mm]	Thickness [mm]	Type	Screws	Steel staples	kN/m²	kN	[kg]	[min]	
DRY SCREED SYSTEM INSTALLED ON BASE LAYER OF STYROFOAM BOARDS – FIRE RESISTANCE FROM TOP															
1179	S/25/Twarda	styrofoam	E	Twarda KP	DEFH1IR	2x12,5	1,0	gypsum putty	board-board	-	3,0	2,0	27,0	REI60	●
1179	S/25/Twarda	styrofoam	E	Twarda KP	DEFH1IR	2x12,5	1,0	gypsum putty	-	C4/23	3,0	2,0	27,0	REI60	●



Page	Nida Podłoga encasement type	Base layer (levelling)		Plasterboard sheathing			Fastening accessories				Acceptable load		Weight of 1m² of encasement [3]	Fire resistance class (a → b) [1] [2]	Special system
							Between board layers		Mechanical fasteners		Surface	Point			
		Material	Reaction to fire class	Nida	Marking acc. to standard	Thickness [mm]	Thickness [mm]	Type	Screws	Steel staples	kN/m²	kN	[kg]	[min]	
DRY SCREED SYSTEM INSTALLED ON BASE LAYER OF MINERAL WOOL OF ROCK FIBRES – FIRE RESISTANCE FROM TOP															
1181	MW/25/Twarda	mineral wool	A1	Twarda KP	DEFH1IR	2x12,5	1,0	gypsum putty	board-board	-	3,0	2,0	27,0	REI60	●
1181	MW/25/Twarda	mineral wool	A1	Twarda KP	DEFH1IR	2x12,5	1,0	gypsum putty	-	C4/23	3,0	2,0	27,0	REI60	●

[1] Fire classification no. LBO-086-KZ/21.
[2] Fire resistance class (a → b) - fire resistance with fire exposition from the top side.
[3] The weight of encasement does not include the weight of the base layer (LECA/Styrofoam/mineral wool/polyurethane foam).
[4] The Nida Podłoga dry screed system must not be utilised in wet areas (mass catering kitchens, public bathhouses, laundries, etc.).

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nida Podłoga

Fire resistance class: REI60

Weight of 1m² of encasement: 27,0 kg

Surface load: 3,0 kN/m²

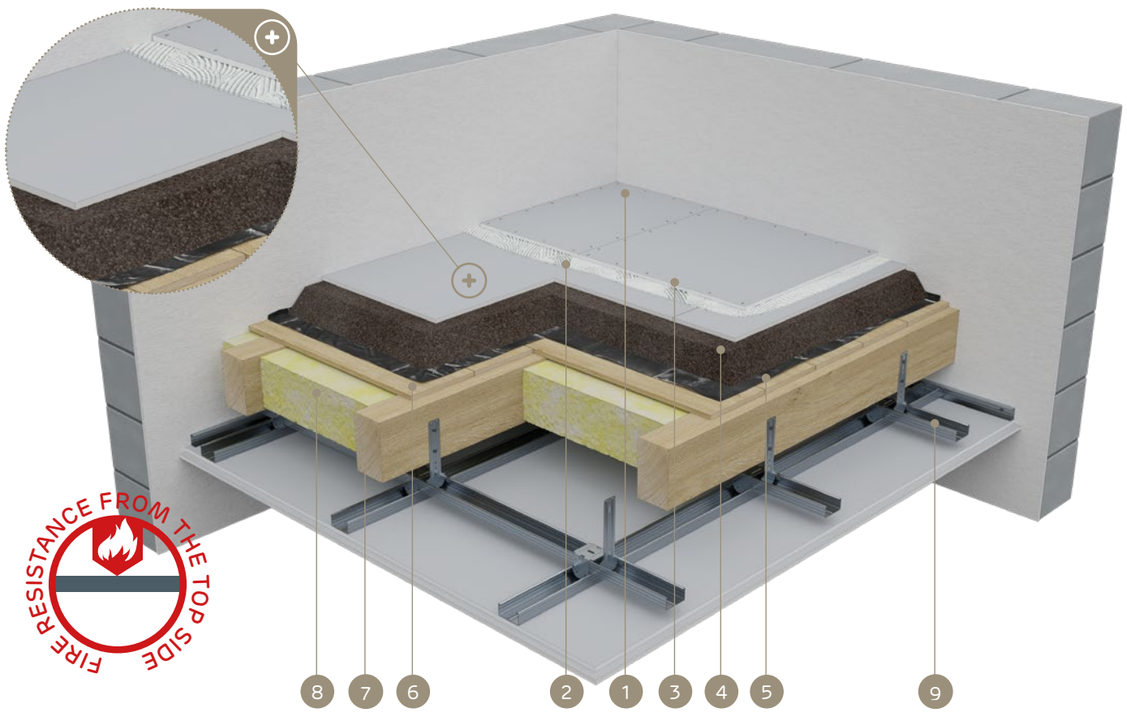
Point load: 2,0 kN

Number of related document: Fire classification

Fire classification: LBO-086-KZ/21

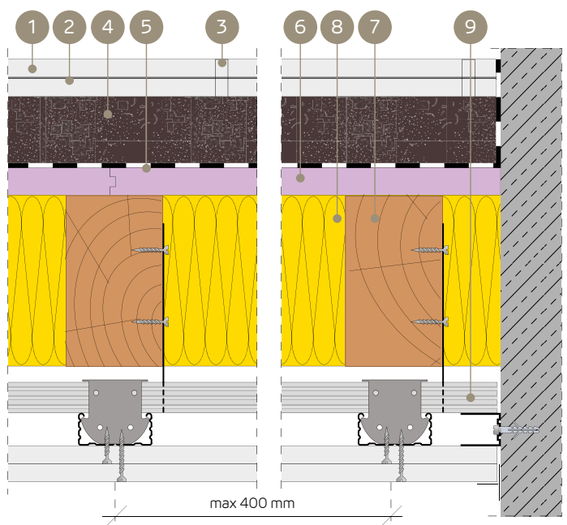
SYSTEMS:

LWA/25



MATERIALS:

1. Nida Twarda KP flooring plasterboard
2. Nida Max joint filler
3. Steel staples
4. Levelling compound (e.g. expanded clay)
5. Anti-moisture insulation
6. Ceiling finish: wooden boards, or wood-like boards
7. Timber floor beams
8. Insulation material mineral wool
9. Nida Sufit suspended ceiling structure



DRY SCREED SYSTEM LAID ON MINERAL BASE LAYER – FIRE RESISTANCE FROM TOP SIDE

TECHNICAL PARAMETERS

Nida Podłoga encasement type	Base layer (levelling)		Plasterboard sheathing			Fastening accessories				Acceptable load		Weight of 1m² of encasement [3]	Fire resistance class (a → b) [1] [2]	Special system
						Between board layers		Mechanical fasteners		Surface	Point			
	Material	Reaction to fire class	Nida	Marking acc. to standard	Thickness [mm]	Thickness [mm]	Type	Screws	Steel staples	kN/m²	kN	[kg]	[min]	
LWA/25/Twarda	LECA	A1	Twarda KP	DEFH1IR	2x12,5	1,0	gypsum putty	board-board	-	3,0	2,0	27,0	REI60	●
LWA/25/Twarda	LECA	A1	Twarda KP	DEFH1IR	2x12,5	1,0	gypsum putty	-	C4/23	3,0	2,0	27,0	REI60	●

[1] Fire classification no. LBO-086-KZ/21.
[2] Fire resistance class (a → b) - fire resistance with fire exposition from the top side.
[3] The weight of encasement does not include the weight of the base layer (LECA/Styrofoam/mineral wool/polyurethane foam).
[4] The Nida Podłoga dry screed system must not be utilised in wet areas (mass catering kitchens, public bathhouses, laundries, etc.).

CONSUMPTION OF MATERIALS PER 1 M² OF NIDA PODŁOGA DRY SCREED SYSTEM

Name of material	Unit	Nida Podłoga encasement type	
		LWA/25/Twarda	LWA/25/Twarda
		Consumption per 1m²	
Nida Twarda KP plasterboard	m²	2,0	2,0
Nida 5.0x35 mm board-board screws	pcs.	20,0	-
Galvanised steel staples C4/23	pcs.	-	20,0
Nida Max gypsum putty (connecting layer) [5]	kg	3,0	3,0
Nida Max gypsum putty (filling joints) [5]	kg	as needed	as needed
Base layer – dry LECA per each 1 cm of thickness	l	10,0	10,0
Peripheral insulation strip of mineral wool	m	as needed	as needed

[5] Alternatively, apply the Nida Fire gypsum putty, or Nida Fix gypsum adhesive.
The standards of consumption do not account for any loss of material.

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nida Podłoga

Fire resistance class: REI60

Weight of 1m² of encasement: 27,0 kg

Surface load: 3,0 kN/m²

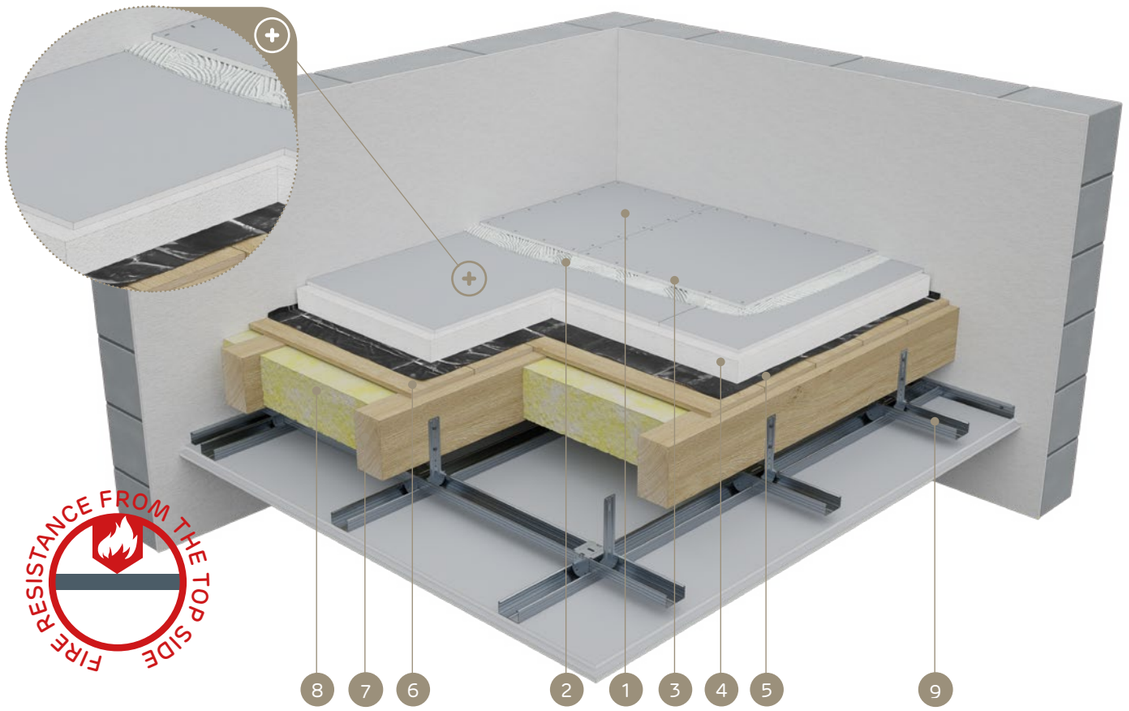
Point load: 2,0 kN

Number of related document: Fire classification

Fire classification: LBO-086-KZ/21

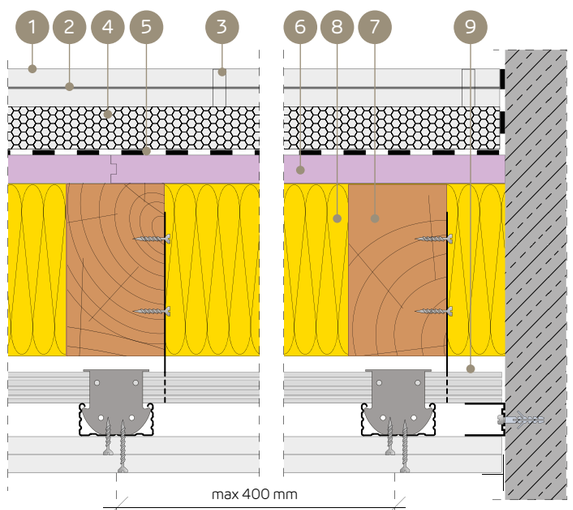
SYSTEMS:

S/25



MATERIALS:

1. Nida Twarda KP flooring plasterboard
2. Nida Max joint filler
3. Steel staples
4. Styrofoam
5. Anti-moisture insulation
6. Ceiling finish: wooden boards, or wood-like boards
7. Timber floor beams
8. Insulation material mineral wool
9. Nida Sufit suspended ceiling structure



DRY SCREED SYSTEM INSTALLED ON BASE LAYER OF STYROFOAM BOARDS – FIRE RESISTANCE FROM TOP

TECHNICAL PARAMETERS

Nida Podłoga encasement type	Base layer (levelling)		Plasterboard sheathing			Fastening accessories				Acceptable load		Weight of 1m² of encase-ment [3]	Fire resistance class (a → b) [1] [2]	Special system
						Between board layers		Mechanical fasteners		Surface	Point			
	Material	Reaction to fire class	Nida	Marking acc. to standard	Thickness [mm]	Thickness [mm]	Type	Screws	Steel staples	kN/m²	kN	[kg]	[min]	
S/25/Twarda	styrofoam	E	Twarda KP	DEFH1IR	2x12,5	1,0	gypsum putty	board--board	-	3,0	2,0	27,0	REI60	●
S/25/Twarda	styrofoam	E	Twarda KP	DEFH1IR	2x12,5	1,0	gypsum putty	-	C4/23	3,0	2,0	27,0	REI60	●

[1] Fire classification no. LBO-086-KZ/21.
[2] Fire resistance class (a → b) - fire resistance with fire exposition from the top side.
[3] The weight of encasement does not include the weight of the base layer (LECA/Styrofoam/mineral wool/polyurethane foam).
[4] The Nida Podłoga dry screed system must not be utilised in wet areas (mass catering kitchens, public bathhouses, laundries, etc.).

CONSUMPTION OF MATERIALS PER 1 M² OF NIDA PODŁOGA DRY SCREED SYSTEM

Name of material	Unit	Nida Podłoga encasement type	
		S/25/Twarda	S/25/Twarda
		Consumption per 1m²	
Nida Twarda KP plasterboard	m²	2,0	2,0
Nida 5.0x35 mm board-board screws	pcs.	20,0	-
Galvanised steel staples C4/23	pcs.	-	20,0
Nida Max gypsum putty (connecting layer) [5]	kg	3,0	3,0
Nida Max gypsum putty (filling joints) [5]	kg	as needed	as needed
Base layer – Styrofoam	m²	1,0	1,0
Peripheral insulation strip of mineral wool	m	as needed	as needed

[5] Alternatively, apply the Nida Fire gypsum putty, or Nida Fix gypsum adhesive.
The standards of consumption do not account for any loss of material.

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nida Podłoga

Fire resistance class: REI60

Weight of 1m² of encasement: 27,0 kg

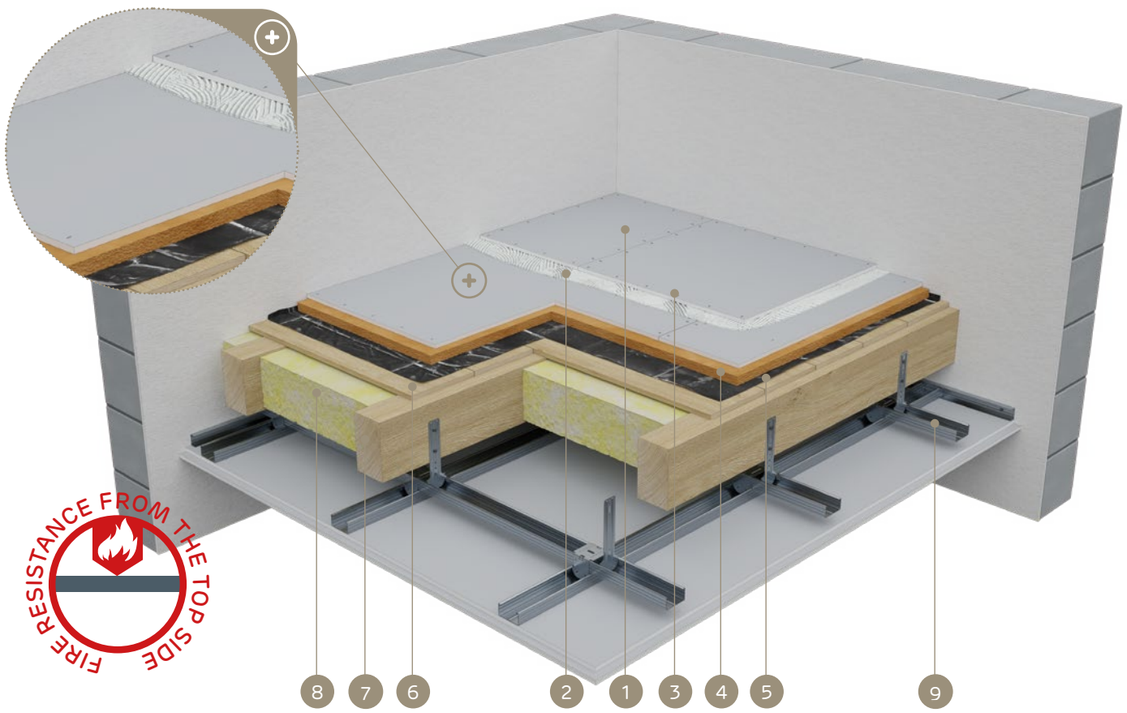
Surface load: 3,0 kN/m²

Point load: 2,0 kN

Number of related document: Fire classification

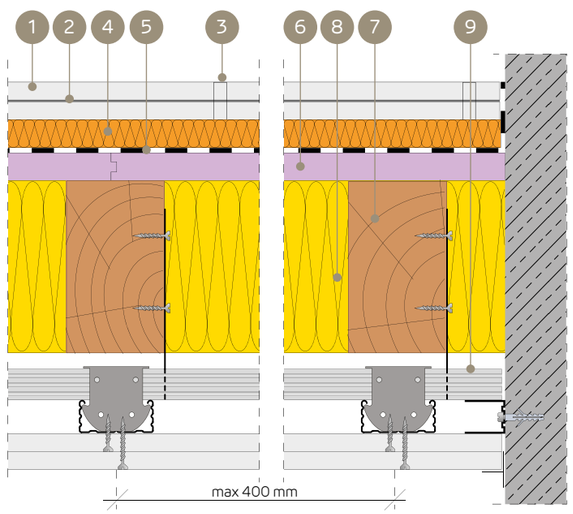
Fire classification: LBO-086-KZ/21

SYSTEMS:
MW/25



MATERIALS:

1. Nida Twarda KP flooring plasterboard
2. Nida Max joint filler
3. Steel staples
4. Rock wool
5. Anti-moisture insulation
6. Ceiling finish: wooden boards, or wood-like boards
7. Timber floor beams
8. Insulation material mineral wool
9. Nida Sufit suspended ceiling structure



DRY SCREED SYSTEM INSTALLED ON BASE LAYER OF MINERAL WOOL OF ROCK FIBRES – FIRE RESISTANCE FROM TOP

TECHNICAL PARAMETERS

Nida Podłoga encasement type	Base layer (levelling)		Plasterboard sheathing			Fastening accessories				Acceptable load		Weight of 1m² of encasement [3]	Fire resistance class (a → b) [1] [2]	Special system
						Between board layers		Mechanical fasteners		Surface	Point			
	Material	Reaction to fire class	Nida	Marking acc. to standard	Thickness [mm]	Thickness [mm]	Type	Screws	Steel staples	kN/m²	kN	[kg]	[min]	
MW/25/Twarda	mineral wool	A1	Twarda KP	DEFH1IR	2x12,5	1,0	gypsum putty	board--board	-	3,0	2,0	27,0	REI60	●
MW/25/Twarda	mineral wool	A1	Twarda KP	DEFH1IR	2x12,5	1,0	gypsum putty	-	C4/23	3,0	2,0	27,0	REI60	●

[1] Fire classification no. LBO-086-KZ/21.
[2] Fire resistance class (a → b) - fire resistance with fire exposition from the top side.
[3] The weight of encasement does not include the weight of the base layer (LECA/Styrofoam/mineral wool/polyurethane foam).
[4] The Nida Podłoga dry screed system must not be utilised in wet areas (mass catering kitchens, public bathhouses, laundries, etc.).

CONSUMPTION OF MATERIALS PER 1 M² OF NIDA PODŁOGA DRY SCREED SYSTEM

Name of material	Unit	Nida Podłoga encasement type	
		MW/25/Twarda	MW/25/Twarda
		Consumption per 1m²	
Nida Twarda KP plasterboard	m²	2,0	2,0
Nida 5.0x35 mm board-board screws	pcs.	20,0	-
Galvanised steel staples C4/23	pcs.	-	20,0
Nida Max gypsum putty (connecting layer) [5]	kg	3,0	3,0
Nida Max gypsum putty (filling joints) [5]	kg	as needed	as needed
Base layer – mineral wool [6]	m²	1,0	1,0
Peripheral insulation strip of mineral wool	m	as needed	as needed

[5] Alternatively, apply the Nida Fire gypsum putty, or Nida Fix gypsum adhesive.
[6] Mineral wool boards of rock fibres; density min.100 kg/m³.
The standards of consumption do not account for any loss of material.

nida Podłoga

Fire resistance class: REI60

Weight of 1m² of encasement: 27,0 kg

Surface load: 3,0 kN/m²

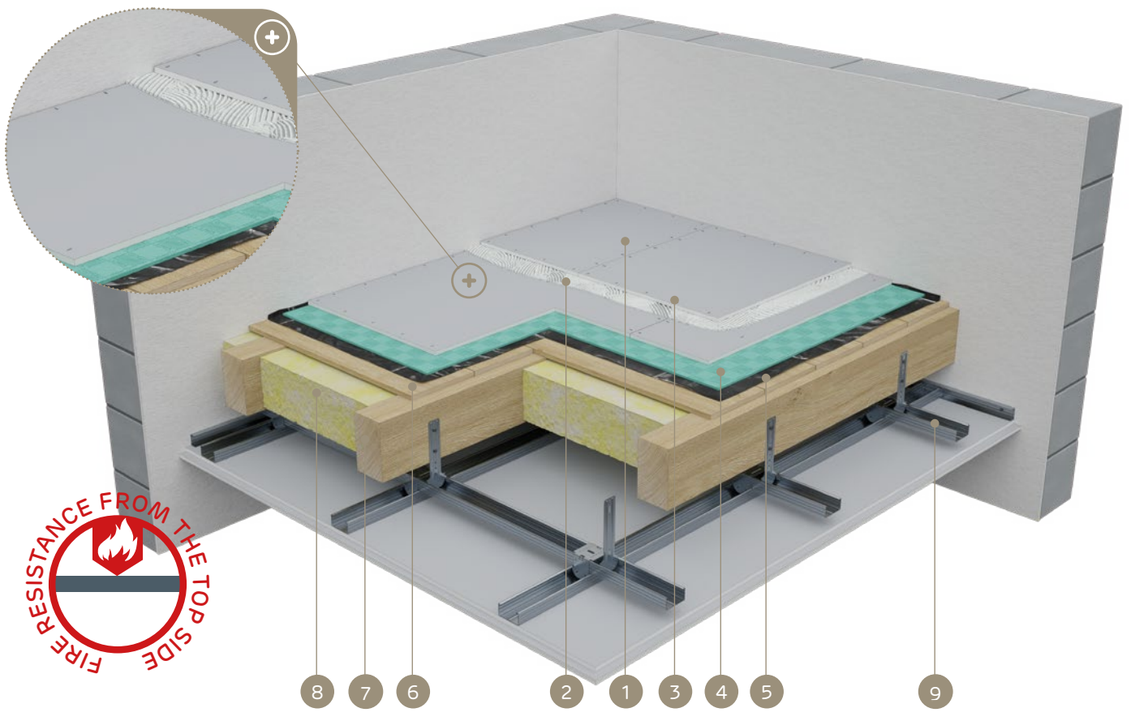
Point load: 2,0 kN

Number of related document: Fire classification

Fire classification: LBO-086-KZ/21

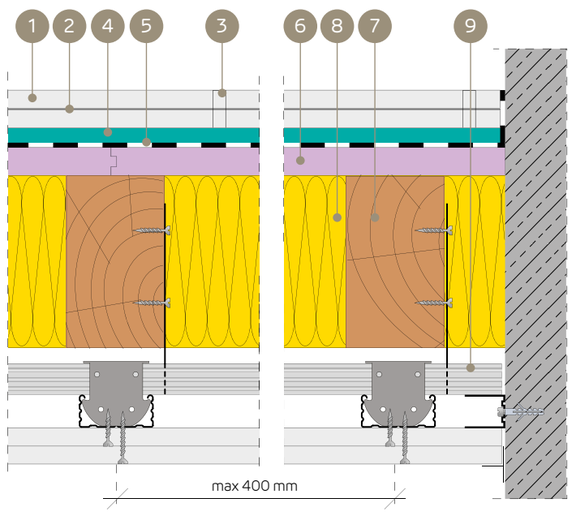
SYSTEMS:

PUF/25



MATERIALS:

1. Nida Twarda KP flooring plasterboard
2. Nida Max joint filler
3. Steel staples
4. Foam
5. Anti-moisture insulation
6. Ceiling finish: wooden boards, or wood-like boards
7. Timber floor beams
8. Insulation material mineral wool
9. Nida Sufit suspended ceiling structure



DRY SCREED SYSTEM INSTALLED ON BASE LAYER OF POLYUREHANE FOAM MAT – FIRE RESISTANCE FROM TOP

TECHNICAL PARAMETERS

Nida Podłoga encasement type	Base layer (levelling)		Plasterboard sheathing			Fastening accessories				Acceptable load		Weight of 1m² of encasement [3]	Fire resistance class (a → b) [1] [2]	Special system
						Between board layers		Mechanical fasteners		Surface	Point			
	Material	Reaction to fire class	Nida	Marking acc. to standard	Thickness [mm]	Thickness [mm]	Type	Screws	Steel staples	kN/m²	kN	[kg]	[min]	
PUF/25/Twarda	polyuretha-ne foam mat	E	Twarda KP	DEFH1IR	2x12,5	1,0	gypsum putty	board--board	-	3,0	2,0	27,0	REI60	●
PUF/25/Twarda	polyuretha-ne foam mat	E	Twarda KP	DEFH1IR	2x12,5	1,0	gypsum putty	-	C4/23	3,0	2,0	27,0	REI60	●

[1] Fire classification no. LBO-086-KZ/21.
[2] Fire resistance class (a → b) - fire resistance with fire exposition from the top side.
[3] The weight of encasement does not include the weight of the base layer (LECA/Styrofoam/mineral wool/polyurethane foam).
[4] The Nida Podłoga dry screed system must not be utilised in wet areas (mass catering kitchens, public bathhouses, laundries, etc.).

CONSUMPTION OF MATERIALS PER 1 M² OF NIDA PODŁOGA DRY SCREED SYSTEM

Name of material	Unit	Nida Podłoga encasement type	
		PUF/25/Twarda	PUF/25/Twarda
		Consumption per 1m²	
Nida Twarda KP plasterboard	m²	2,0	2,0
Nida 5.0x35 mm board-board screws	pcs.	20,0	-
Galvanised steel staples C4/23	pcs.	-	20,0
Nida Max gypsum putty (connecting layer) [5]	kg	3,0	3,0
Nida Max gypsum putty (filling joints) [5]	kg	as needed	as needed
Base layer – polyurethane foam mat	m²	1,0	1,0
Peripheral insulation strip of mineral wool	m	as needed	as needed

[5] Alternatively, apply the Nida Fire gypsum putty, or Nida Fix gypsum adhesive.
The standards of consumption do not account for any loss of material.

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nida Podłoga

Fire resistance class: REI60

Weight of 1m² of encasement: 27,0 kg

Surface load: 3,0 kN/m²

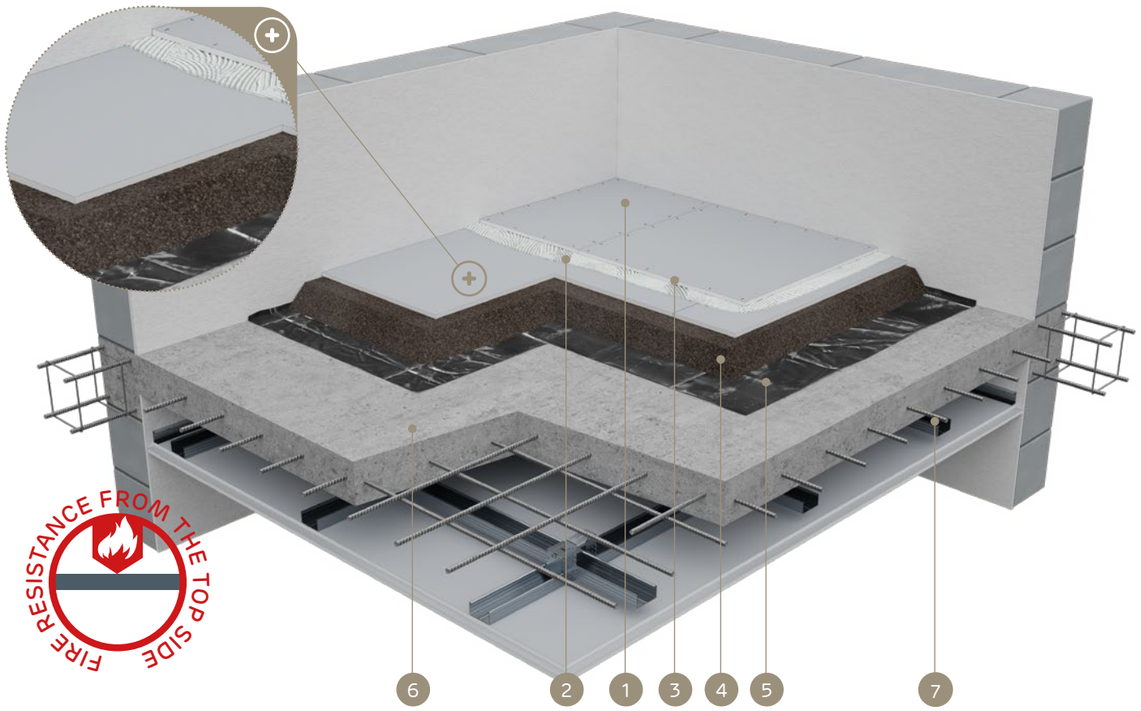
Point load: 2,0 kN

Number of related document: Fire classification

Fire classification: LBO-086-KZ/21

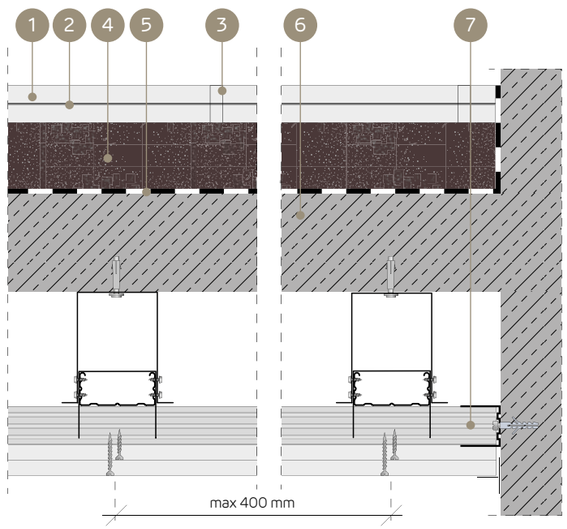
SYSTEMS:

LWA/25



MATERIALS:

1. Nida Twarda KP flooring plasterboard
2. Nida Max joint filler
3. Steel staples
4. Levelling compound (e.g. expanded clay)
5. Anti-moisture insulation
6. Reinforced concrete floor
7. Nida Sufit suspended ceiling structure



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DRY SCREED SYSTEM INSTALLED ON BASE LAYER OF MINERAL SUBBASE – FIRE RESISTANCE FROM TOP

TECHNICAL PARAMETERS

Nida Podłoga encasement type	Base layer (levelling)		Plasterboard sheathing			Fastening accessories				Acceptable load		Weight of 1m² of encasement [3]	Fire resistance class (a → b) [1] [2]	Special system
						Between board layers		Mechanical fasteners		Surface	Point			
	Material	Reaction to fire class	Nida	Marking acc. to standard	Thickness [mm]	Thickness [mm]	Type	Screws	Steel staples	kN/m²	kN	[kg]	[min]	
LWA/25/Twarda	LECA	A1	Twarda KP	DEFH1IR	2x12,5	1,0	gypsum putty	board-board	-	3,0	2,0	27,0	REI60	●
LWA/25/Twarda	LECA	A1	Twarda KP	DEFH1IR	2x12,5	1,0	gypsum putty	-	C4/23	3,0	2,0	27,0	REI60	●

[1] Fire classification no. LBO-086-KZ/21.
[2] Fire resistance class (a → b) - fire resistance with fire exposition from the top side.
[3] The weight of encasement does not include the weight of the base layer (LECA/Styrofoam/mineral wool/polyurethane foam).
[4] The Nida Podłoga dry screed system must not be utilised in wet areas (mass catering kitchens, public bathhouses, laundries, etc.).

CONSUMPTION OF MATERIALS PER 1 M² OF NIDA PODŁOGA DRY SCREED SYSTEM

Name of material	Unit	Nida Podłoga encasement type	
		LWA/25/Twarda	LWA/25/Twarda
		Consumption per 1m²	
Nida Twarda KP plasterboard	m²	2,0	2,0
Nida 5.0x35 mm board-board screws	pcs.	20,0	-
Galvanised steel staples C4/23	pcs.	-	20,0
Nida Max gypsum putty (connecting layer) [5]	kg	3,0	3,0
Nida Max gypsum putty (filling joints) [5]	kg	as needed	as needed
Base layer – dry LECA per each 1 cm of thickness	l	10,0	10,0
Peripheral insulation strip of mineral wool	m	as needed	as needed

[5] Alternatively, apply the Nida Fire gypsum putty, or Nida Fix gypsum adhesive.
The standards of consumption do not account for any loss of material.

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Nida Podłoga

Fire resistance class: **REI60**

Weight of 1m² of encasement: **27,0 kg**

Surface load: **3,0 kN/m²**

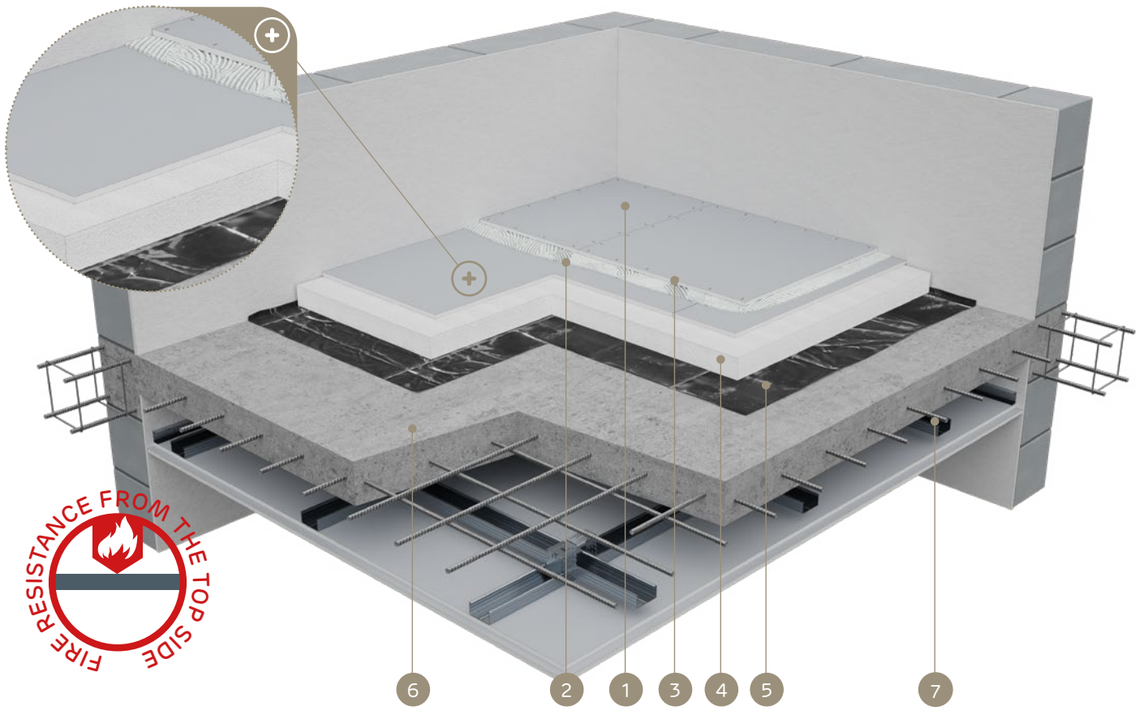
Point load: **2,0 kN**

Number of related document: **Fire classification**

Fire classification: LBO-086-KZ/21

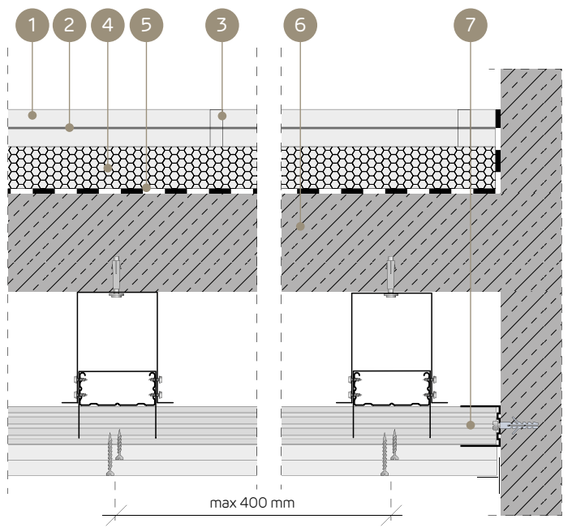
SYSTEMS:

S/25



MATERIALS:

1. Nida Twarda KP flooring plasterboard
2. Nida Max joint filler
3. Steel staples
4. Styrofoam
5. Anti-moisture insulation
6. Reinforced concrete floor
7. Nida Sufit suspended ceiling structure



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DRY SCREED SYSTEM INSTALLED ON BASE LAYER OF STYROFOAM BOARDS – FIRE RESISTANCE FROM TOP

TECHNICAL PARAMETERS

Nida Podłoga encasement type	Base layer (levelling)		Plasterboard sheathing			Fastening accessories				Acceptable load		Weight of 1m² of encasement [3]	Fire resistance class (a → b) [1] [2]	Special system
						Between board layers		Mechanical fasteners		Surface	Point			
	Material	Reaction to fire class	Nida	Marking acc. to standard	Thickness [mm]	Thickness [mm]	Type	Screws	Steel staples	kN/m²	kN	[kg]	[min]	
S/25/Twarda	styrofoam	E	Twarda KP	DEFH1IR	2x12,5	1,0	gypsum putty	board-board	-	3,0	2,0	27,0	REI60	●
S/25/Twarda	styrofoam	E	Twarda KP	DEFH1IR	2x12,5	1,0	gypsum putty	-	C4/23	3,0	2,0	27,0	REI60	●

[1] Fire classification no. LBO-086-KZ/21.
[2] Fire resistance class (a → b) - fire resistance with fire exposition from the top side.
[3] The weight of encasement does not include the weight of the base layer (LECA/Styrofoam/mineral wool/polyurethane foam).
[4] The Nida Podłoga dry screed system must not be utilised in wet areas (mass catering kitchens, public bathhouses, laundries, etc.).

CONSUMPTION OF MATERIALS PER 1 M² OF NIDA PODŁOGA DRY SCREED SYSTEM

Name of material	Unit	Nida Podłoga encasement type	
		S/25/Twarda	S/25/Twarda
		Consumption per 1m²	
Nida Twarda KP plasterboard	m²	2,0	2,0
Nida 5.0x35 mm board-board screws	pcs.	20,0	-
Galvanised steel staples C4/23	pcs.	-	20,0
Nida Max gypsum putty (connecting layer) [5]	kg	3,0	3,0
Nida Max gypsum putty (filling joints) [5]	kg	as needed	as needed
Base layer – Styrofoam	m²	1,0	1,0
Peripheral insulation strip of mineral wool	m	as needed	as needed

[5] Alternatively, apply the Nida Fire gypsum putty, or Nida Fix gypsum adhesive.
The standards of consumption do not account for any loss of material.

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nida Podłoga

Fire resistance class: REI60

Weight of 1m² of encasement: 27,0 kg

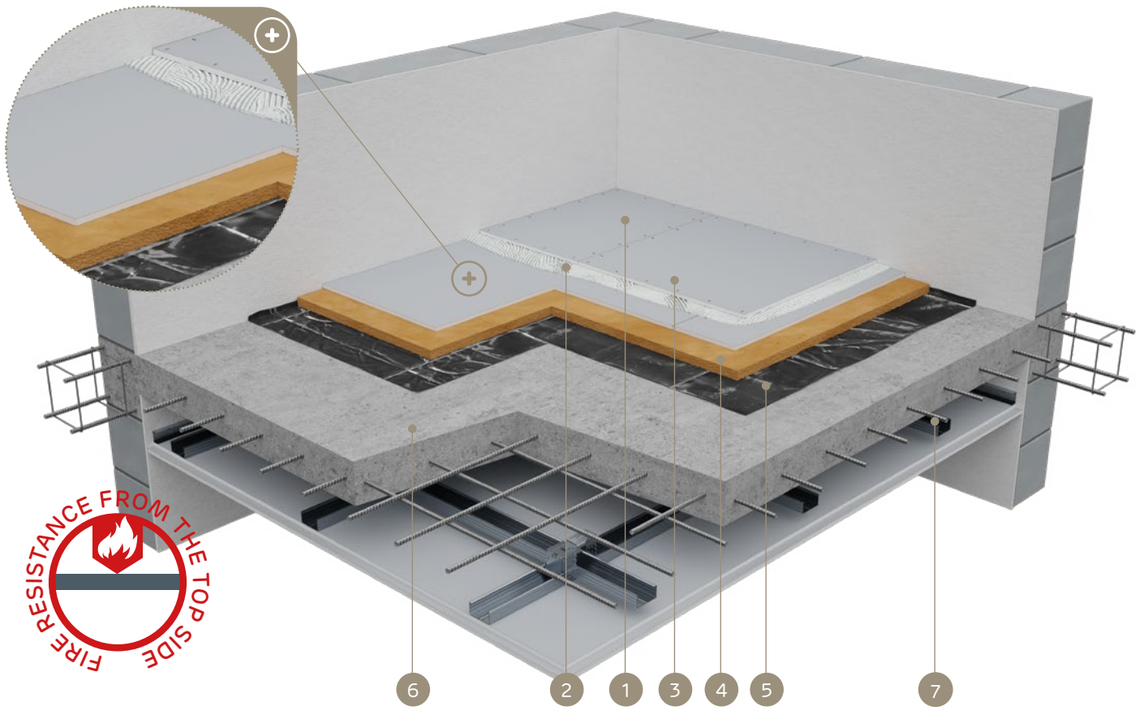
Surface load: 3,0 kN/m²

Point load: 2,0 kN

Number of related document: Fire classification

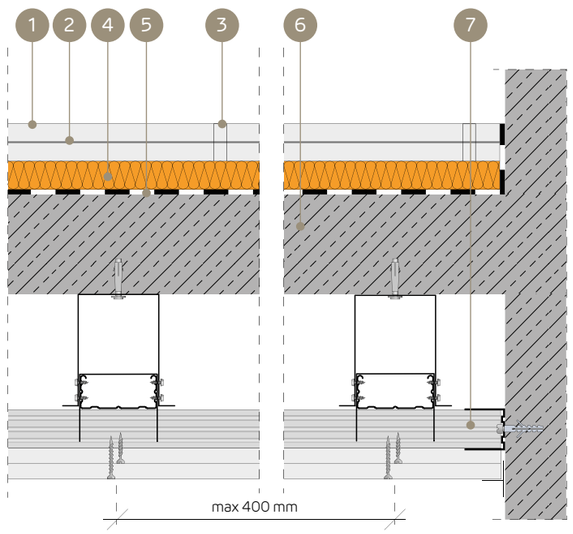
Fire classification: LBO-086-KZ/21

SYSTEMS:
MW/25



MATERIALS:

1. Nida Twarda KP flooring plasterboard
2. Nida Max joint filler
3. Steel staples
4. Rock wool
5. Anti-moisture insulation
6. Reinforced concrete floor
7. Nida Sufit suspended ceiling structure



DRY SCREED SYSTEM INSTALLED ON BASE LAYER OF MINERAL WOOL OF ROCK FIBRES – FIRE RESISTANCE FROM TOP

TECHNICAL PARAMETERS

Nida Podłoga encasement type	Base layer (levelling)		Plasterboard sheathing			Fastening accessories				Acceptable load		Weight of 1m² of encasement [3]	Fire resistance class (a → b) [1] [2]	Special system
						Between board layers		Mechanical fasteners		Surface	Point			
	Material	Reaction to fire class	Nida	Marking acc. to standard	Thickness [mm]	Thickness [mm]	Type	Screws	Steel staples	kN/m²	kN	[kg]	[min]	
MW/25/Twarda	mineral wool	A1	Twarda KP	DEFH1IR	2x12,5	1,0	gypsum putty	board--board	-	3,0	2,0	27,0	REI60	●
MW/25/Twarda	mineral wool	A1	Twarda KP	DEFH1IR	2x12,5	1,0	gypsum putty	-	C4/23	3,0	2,0	27,0	REI60	●

[1] Fire classification no. LBO-086-KZ/21.
[2] Fire resistance class (a → b) - fire resistance with fire exposition from the top side.
[3] The weight of encasement does not include the weight of the base layer (LECA/Styrofoam/mineral wool/polyurethane foam).
[4] The Nida Podłoga dry screed system must not be utilised in wet areas (mass catering kitchens, public bathhouses, laundries, etc.).

CONSUMPTION OF MATERIALS PER 1 M² OF NIDA PODŁOGA DRY SCREED SYSTEM

Name of material	Unit	Nida Podłoga encasement type	
		MW/25/Twarda	MW/25/Twarda
		Consumption per 1m²	
Nida Twarda KP plasterboard	m²	2,0	2,0
Nida 5.0x35 mm board-board screws	pcs.	20,0	-
Galvanised steel staples C4/23	pcs.	-	20,0
Nida Max gypsum putty (connecting layer) [5]	kg	3,0	3,0
Nida Max gypsum putty (filling joints) [5]	kg	as needed	as needed
Base layer – mineral wool [6]	m²	1,0	1,0
Peripheral insulation strip of mineral wool	m	as needed	as needed

[5] Alternatively, apply the Nida Fire gypsum putty, or Nida Fix gypsum adhesive.
[6] Mineral wool boards of rock fibres; density min.100 kg/m³.
The standards of consumption do not account for any loss of material.

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Dry screed system
Nida Podłoga

The Nida Podłoga dry screed system was developed for applications with any floor type, both new, and those to be renovated. The system's wide range of applications, its relatively low weight and quick and dry installation mean that it is the perfect solution for old and damaged floors, especially those with compromised structures. Apart from the aforementioned advantages, the dry screed constructed according to the technology developed by Siniat provides the REI60 fire resistance class for fire exposition from the top side, which is achieved on the condition that two layers of the Nida Twarda KP DEFH1IR type plaster-particle boards with fibres are applied.

Marking of dry screed systems

In order to facilitate reading and identification of the individual system solutions, we are providing an example of our marking with a detailed description of its individual components.

Nida Podłoga LWA / 25 / Twarda

- Nida Podłoga — Name of Nida system
- LWA — Levelling material type:
  - LWA – bedding, e.g. LECA
  - S – Styrofoam
  - MW – mineral wool
  - PUF – polyurethane foam
- 25 — Overall thickness of sheathing [mm]:
  - 25 = 2x12,5
- Twarda — Type of Nida sheathing:
  - Nida Twarda KP

STRUCTURES OF FLOORS FOR VARIOUS APPLICATIONS AND WORKING LOADS

The floor structures for various applications and working loads were selected following the requirements of the Standard **PN-EN 1991-1-1** (Eurocode 1: Actions on structures – Part 1-1: General actions –Densities, self-weight, imposed loads for buildings).

Category	Application	Working load acc. to PN-EN 1991-1-1		Applicable base layer	
		Surface load	Concentrated load	Dry levelling compound	Styrofoam
		kN/m²	kN	Thickness [mm]	
A	Living areas, such as rooms in residential buildings, bedrooms and waiting rooms in hospitals, hotel bedrooms, kitchens and toilets.	1,5 - 2,0	2,0 - 3,0	20 - 100	20
B	Office areas	2,0 - 3,0	1,5 - 4,5	20	-
C1	Areas with tables etc. (schools, cafeterias, restaurants, canteens, reading rooms, receptions, waiting rooms, etc.)	2,0 - 3,0	3,0 - 4,0	20	-
C2	Areas with fixed seating (churches, theatres, or cinemas, conference halls, lecture halls, assembly halls, railway station waiting rooms)	3,0 - 4,0	2,5 - 7,0	20	-
C3	Areas without obstacles impairing movements of people (museums, exhibition halls), freely accessible areas in public service buildings, hotels, hospitals, railway ramps	3,0 - 5,0	4,0 - 7,0	20	-
D1	Areas in retail stores	4,0 - 5,0	3,5 - 7,0	20	-