

nida Ściana

anti-burglar wall system

Apart from their standard functions, partition stud walls must meet a number of more specialised requirements, such as acoustic insulation, resistance to conditions of increased humidity, or exposure to high temperatures during fires. One of the new and increasingly important requirements is their resistance to burglary, according to standard EN 1627, with levels defined by the appropriate European regulations and those issued by the member states.

The resistance to burglary is defined as the resistance of a partition during an attempt


at gaining access to a protected area with utilisation of proper tools and muscle strength. Such areas could be, e.g., the protected areas in banks, server rooms, as well as walls separating individual apartments for the multi-family buildings, or terraced houses.

Such Siniat partitions are constructed basing on the specialised boards, such as e.g. Resistex, whose characteristics enable reaching the RC3 level of anti-burglary resistance without utilisation of sheathing of steel sheets.

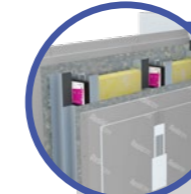


chapter contents

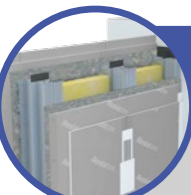
524	75A50-300; 75AA50-300; 100A75-300; 100AA75-300; 125A100-300; 125AA100-300	548	155B50; 155BB50; 205B75; 205BB75; 255B100; 255BB100
526	100A50; 100AA50; 125A75; 125AA75; 150A100; 150AA100	550	168B50; 168BB50; 218B75; 218BB75; 268B100; 268BB100
528	155B50; 155BB50; 205B75; 205BB75; 255B100; 255BB100	552	155B50-PWA; 155BB50-PWA; 205B75-PWA; 205BB75-PWA; 255B100-PWA; 255BB100-PWA
530	168B50; 168BB50; 218B75; 218BB75; 268B100; 268BB100	554	150C50; 150CC50; 200C75; 200CC75; 250C100; 250CC100
532	155B50-PWA; 155BB50-PWA; 205B75-PWA; 205BB75-PWA; 255B100-PWA; 255BB100-PWA	556	100A50; 100AA50; 125A75; 125AA75; 150A100; 150AA100
534	150C50; 150CC50; 200C75; 200CC75; 250C100; 250CC100	558	155B50; 155BB50; 205B75; 205BB75; 255B100; 255BB100
536	100A50; 100AA50; 125A75; 125AA75; 150A100; 150AA100	560	168B50; 168BB50; 218B75; 218BB75; 268B100; 268BB100
538	155B50; 155BB50; 205B75; 205BB75; 255B100; 255BB100	562	155B50-PWA; 155BB50-PWA; 205B75-PWA; 205BB75-PWA; 255B100-PWA; 255BB100-PWA
540	168B50; 168BB50; 218B75; 218BB75; 268B100; 268BB100	564	150C50; 150CC50; 200C75; 200CC75; 250C100; 250CC100
542	155B50-PWA; 155BB50-PWA; 205B75-PWA; 205BB75-PWA; 255B100-PWA; 255BB100-PWA	566	100AA50-300; 125AA75-300; 150AA100-300
544	150C50; 150CC50; 200C75; 200CC75; 250C100; 250CC100	568	155BB50-300; 205BB75-300; 255BB100-300
546	100A50; 100AA50; 125A75; 125AA75; 150A100; 150AA100	570	168BB50-300; 218BB75-300; 268BB100-300
		572	155BB50-300-PWA; 205BB75-300-PWA; 255BB100-300-PWA
		574	150CC50-300; 200CC75-300; 250CC100-300



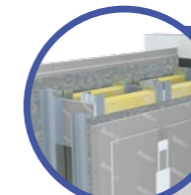
Strona	System type Nida Sciana	Frame structure		Sheathing of plasterboards		Insulation material (mineral wool)				Maximum wall height - h ¹⁾	Acoustic insulation			Encase ment weight 1 m ²	Burglar resi- stance class ²⁾	Fire resist. class ³⁾	Utilisation category	Special system
		Nida	Nida	Thickness [mm]	Acoustic insulation		Fire resistance		Within fire resistance		R _w [dB]	R _w [dB]	R _w [dB]					
					Minimum thickness [mm]	Density [kg/m ³]	Minimum thickness [mm]	Density [kg/m ³]		[mm]				[min]	ETAG 003 class			
ANTI-BURGLAR PARTITION WALL SYSTEM BASED ON DOUBLED Nida C50, C75 AND C100 STRUCTURE																		
567	100AA50-300/Resistex (BS)	2xC50	Resistex 4)	2x12,5	50	14,5	-	-	6500	48	42	34	69,0	RC4	(R)EI120	IV	●	
567	125AA75-300/Resistex (BS)	2xC75	Resistex 4)	2x12,5	75	14,5	-	-	6500	50	42	34	70,0	RC4	(R)EI120	IV	●	
567	150AA100-300/Resistex (BS)	2xC100	Resistex 4)	2x12,5	100	14,5	-	-	6500	54	47	39	71,0	RC4	(R)EI120	IV	●	



Strona	System type Nida Sciana	Frame structure		Sheathing of plasterboards		Insulation material (mineral wool)				Maximum wall height - h ¹⁾	Acoustic insulation			Encase ment weight 1 m ²	Burglar resi- stance class ²⁾	Fire resist. class ³⁾	Utilisation category	Special system
		Nida	Nida	Thickness [mm]	Acoustic insulation		Fire resistance		Within fire resistance		R _w [dB]	R _w [dB]	R _w [dB]					
					Minimum thickness [mm]	Density [kg/m ³]	Minimum thickness [mm]	Density [kg/m ³]		[mm]				[min]	ETAG 003 class			
ANTI-BURGLAR PARTITION WALL SYSTEM BASED ON TWO-ROW DOUBLED Nida C50, C75 AND C100 STRUCTURE (Nida PWA)																		
573	155BB50-300-PWA/Resistex(BS)	2xC50+2xC50	Resistex 4)	2x12,5	2x50	14,5	-	-	6500	66	63	55	76,0	RC4	(R)EI120	IV	●	
573	205BB75-300-PWA/Resistex (BS)	2xC75+2xC75	Resistex 4)	2x12,5	2x75	14,5	-	-	6500	71	67	60	78,0	RC4	(R)EI120	IV	●	
573	255BB100-300-PWA/Resistex (BS)	2xC100+2xC100	Resistex 4)	2x12,5	2x100	14,5	-	-	6500	73	70	63	80,0	RC4	(R)EI120	IV	●	

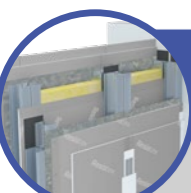


Strona	System type Nida Sciana	Frame structure		Sheathing of plasterboards		Insulation material (mineral wool)				Maximum wall height - h ¹⁾	Acoustic insulation			Encase ment weight 1 m ²	Burglar resi- stance class ²⁾	Fire resist. class ³⁾	Utilisation category	Special system
		Nida	Nida	Thickness [mm]	Acoustic insulation		Fire resistance		Within fire resistance		R _w [dB]	R _w [dB]	R _w [dB]					
					Minimum thickness [mm]	Density [kg/m ³]	Minimum thickness [mm]	Density [kg/m ³]		[mm]				[min]	ETAG 003 class			
ANTI-BURGLAR PARTITION WALL SYSTEM BASED ON TWO-ROW DOUBLED Nida C50, C75 AND C100 STRUCTURE																		
569	155BB50-300/Resistex(BS)	2xC50+2xC50	Resistex 4)	2x12,5	2x50	14,5	-	-	6500	66	63	55	76,0	RC4	(R)EI120	IV	●	
569	205BB75-300/Resistex (BS)	2xC75+2xC75	Resistex 4)	2x12,5	2x75	14,5	-	-	6500	71	67	60	78,0	RC4	(R)EI120	IV	●	
569	255BB100-300/Resistex (BS)	2xC100+2xC100	Resistex 4)	2x12,5	2x100	14,5	-	-	6500	73	70	63	80,0	RC4	(R)EI120	IV	●	



Strona	System type Nida Sciana	Frame structure		Sheathing of plasterboards		Insulation material (mineral wool)				Maximum wall height - h ¹⁾	Acoustic insulation			Encase ment weight 1 m ²	Burglar resi- stance class ²⁾	Fire resist. class ³⁾	Utilisation category	Special system
		Nida	Nida	Thickness [mm]	Acoustic insulation		Fire resistance		Within fire resistance		R _w [dB]	R _w [dB]	R _w [dB]					
					Minimum thickness [mm]	Density [kg/m ³]	Minimum thickness [mm]	Density [kg/m ³]		[mm]				[min]	ETAG 003 class			
ANTI-BURGLAR PARTITION WALL SYSTEM BASED ON TWO-ROW DOUBLED Nida C50, C75 AND C100 STRUCTURE (WALLS FOR INSTALLATIONS)																		
575	150CC5050-300/Resistex(BS)	2xC50+2xC50	Resistex 4)	2x12,5	2x50	14,5	-	-	6500	54	47	39	76,0	RC4	(R)EI120	IV	●	
575	200CC75-300/Resistex (BS)	2xC75+2xC75	Resistex 4)	2x12,5	2x75	14,5	-	-	6500	58	54	48	78,0	RC4	(R)EI120	IV	●	
575	250CC100-300/Resistex (BS)	2xC100+2xC100	Resistex 4)	2x12,5	2x100	14,5	-	-	6500	60	57	52	80,0	RC4	(R)EI120	IV	●	

Detailed explanations of footnotes can be found with specific systems.



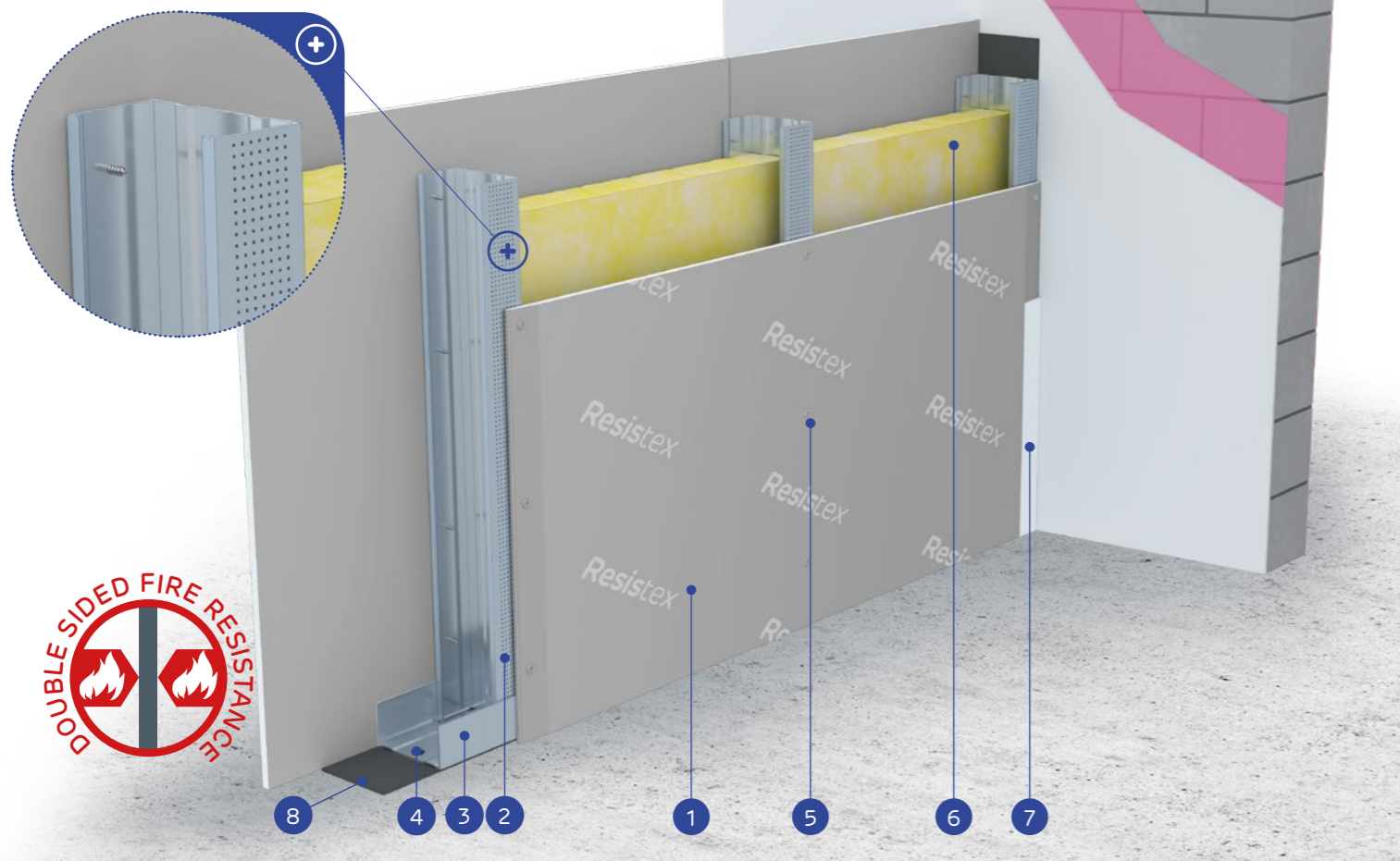
Strona	System type Nida Sciana	Frame structure		Sheathing of plasterboards		Insulation material (mineral wool)				Maximum wall height - h ¹⁾	Acoustic insulation			Encase ment weight 1 m ²	Burglar resi- stance class ²⁾	Fire resist. class ³⁾	Utilisation category	Special system
		Nida	Nida	Thickness [mm]	Acoustic insulation		Fire resistance		Within fire resistance		R _w [dB]	R _w [dB]	R _w [dB]					
					Minimum thickness [mm]	Density [kg/m ³]	Minimum thickness [mm]	Density [kg/m ³]		[mm]				[min]	ETAG 003 class			
THE ACOUSTIC ANTI-BURGLAR PARTITION WALL SYSTEM BASED ON DOUBLE-ROW DOUBLED STRUCTURES OF THE NIDA C50, C75, C100 PROFILES WITH INTERNAL STIFFENING BOARD																		
571	168BB50-300/Resistex(BS)	2xC50+2xC50	Resistex 4)	2x12,5	2x50	14,5	-	-	6500	62	59	53	87,0	RC4	(R)EI120	IV	●	
571	218BB75-300/Resistex (BS)	2xC75+2xC75	Resistex 4)	2x12,5	2x75	14,5	-	-	6500	62	60	56	89,0	RC4	(R)EI120	IV	●	
571	268BB100-300/Resistex (BS)	2xC100+2xC100	Resistex 4)	2x12,5	2x100	14,5	-	-	6500	63	61	59	91,0	RC4	(R)EI120	IV	●	

Detailed explanations of footnotes can be found with specific systems.

nida Ściana

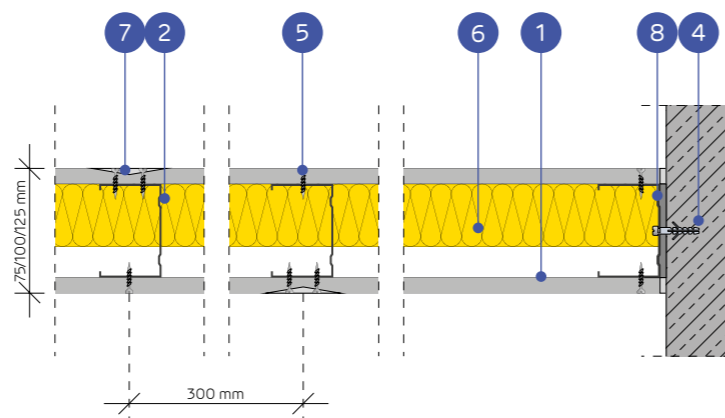
Fire resistance class:
(R)EI60Burglar resistance class:
RC2Maximum acoustic insulation:
40 dBMaximum encasement height:
6500 mmNumber of related document:
EN 1627:2021Burglar resistance certificate:
Nr 00696/23

SYSTEMS:

75A50-300; 75AA50-300; 100A75-300; 100AA75-300;
125A100-300; 125AA100-300

MATERIALS:

1. Resistex plasterboard
2. Nida C50 / C75 / C100 profile
3. Nida U50 / U75 / U100 profile
4. Anchoring element
5. Nida 3,5 x 25 mm sheet metal screws
6. Insulation material mineral wool
7. Joint between plasterboards filled with Nida gypsum compound with Nida reinforcement tape
8. Nida acoustic insulation tape width 50/70/95 mm



ANTI-BURGLAR PARTITION WALL SYSTEM BASED ON SINGLE AND DOUBLED NIDA C50, C75 AND C100 STRUCTURE

TECHNICAL PARAMETERS

System type Nida Ściana	Frame structure	Sheathing of plasterboards		Insulation material (mineral wool)				Maximum wall height - h ¹⁾ [mm]	Acoustic insulation ⁵⁾			Encasement weight 1 m ² [kg]	Burglar resistance class ²⁾	Fire resist. class ³⁾ [min]	Utilisation category ETAG 003 class	Special system	
				Acoustic insulation		Fire resistance			Within fire resistance	R _w [dB]	R _{w1} [dB]						R _{w2} [dB]
				Minimum thickness [mm]	Density [kg/m ³]	Minimum thickness [mm]	Density [kg/m ³]										
75A50-300/Resistex	C50	Resistex ⁴⁾	12,5	50	15	50	30	5000	38	35	29	27,0	RC2	(R)EI60	III	●	
75AA50-300/Resistex	2xC50	Resistex ⁴⁾	12,5	50	15	50	30	5750	-	-	-	28,0	RC2	(R)EI60	IV	●	
100A75-300/Resistex	C75	Resistex ⁴⁾	12,5	75	15	50	30	6500	39	35	28	27,0	RC2	(R)EI60	IV	●	
100AA75-300/Resistex	2xC75	Resistex ⁴⁾	12,5	75	15	50	30	6500	-	-	-	29,0	RC2	(R)EI60	IV	●	
125A100-300/Resistex	C100	Resistex ⁴⁾	12,5	100	15	50	30	6500	40	35	28	28,0	RC2	(R)EI60	IV	●	
125AA100-300/Resistex	2xC100	Resistex ⁴⁾	12,5	100	15	50	30	6500	-	-	-	29,0	RC2	(R)EI60	IV	●	

¹⁾ The maximum wall height acc. to 01060/11/R12NK ITB technical opinion.²⁾ The burglar resistance classes according to standard EN 1627:2021. The system holds the burglar resistance certificate no. 00696/23, issued by CERTEST certifying body.³⁾ The fire resistance class according to standard PN-EN 13501-2:2016-07.⁴⁾ The Resistex board type DFH2IR can be utilised in increased relative humidity environments up to 85% (up to 10 hour per day), e.g. bathrooms, kitchens, etc.⁵⁾ The acoustic insulation was estimated on the basis of the INSUL simulation program for the spacing of the C-profiles - 300 mm.

• The firestop and anti-burglar wall systems constructed according to the Siniat technology act as the firestop partitions, with fire exposition from both their sides. It is acceptable to provide the anti-burglar walls constructed according to the Siniat technology with penetrations, they should be sealed / protected with fire-protective materials, acc. to the indications of the fire protective materials manufacturer, e.g. PROMAT company.

• The thickness of the insulation material, meeting the acoustic insulation parameters equal to the vertical C-type profile width (e.g. for the Nida C75 profile - glass wool thickness 75 mm).

• The bulk density of the insulation material is 15 kg/m³, depending on the wall type.AMOUNT OF MATERIALS UTILISED PER 1M² OF ANTI-BURGLAR WALLS, ACCORDING TO NIDA ŚCIANA SYSTEM

Material name	UM	System type Nida Ściana					
		75A50-300/ Resistex	75AA50-300/ Resistex	100A75-300/ Resistex	100AA75-300/ Resistex	125A100-300/ Resistex	125AA100-300/ Resistex
		Consumption of material per 1m ²					
Resistex 12,5 mm plasterboard	m ²	2,0	2,0	2,0	2,0	2,0	2,0
Nida C50 profile	mb	3,6	7,2	-	-	-	-
Nida C75 profile	mb	-	-	3,6	7,2	-	-
Nida C100 profile	mb	-	-	-	-	3,6	7,2
Nida U50 profile	mb	0,7	0,7	-	-	-	-
Nida U75 profile	mb	-	-	0,7	0,7	-	-
Nida U100 profile	mb	-	-	-	-	0,7	0,7
Anchoring element ⁶⁾	szt.	1,8	1,8	1,8	1,8	1,8	1,8
FLAT HEAD 4,2x13 mm self-drilling screws for 1 mm sheet metal	szt.	-	12,0	-	12,0	-	12,0
Nida 3,5x25 mm sheet metal screws	szt.	48,0	48,0	48,0	48,0	48,0	48,0
Nida reinforcement tape	mb	2,8	2,8	2,8	2,8	2,8	2,8
Acoustic insulation tape	mb	0,6	0,6	0,6	0,6	0,6	0,6
Nida Start jointing compound ⁷⁾	kg	0,6	0,6	0,6	0,6	0,6	0,6
Nida Finish jointing compound	kg	0,2	0,2	0,2	0,2	0,2	0,2
Mineral wool ⁸⁾	m ²	1,0	1,0	1,0	1,0	1,0	1,0

⁶⁾ The type of the anchoring element should be selected individually adequately for the substrate type and the total mass of the encasement.⁷⁾ Alternatively, apply the Nida Max gypsum compound.⁸⁾ Application acc. to the requirements. When the utilised insulation material thickness and/or bulk density is different from the stated in the technical specification (Nida Drywall Encasement System - catalogue of solutions), contact with an appropriate Siniat technical advisor is required. The standards concerning the amount of utilised material do not cover the loss of the material.

nida Ściana

Fire resistance class:
(R)EI90Burglar resistance class:
RC2Maximum acoustic insulation:
58 dBMaximum encasement height:
6500 mmNumber of related document:
EN 1627:2021Burglar resistance certificate:
Nr 00697/23

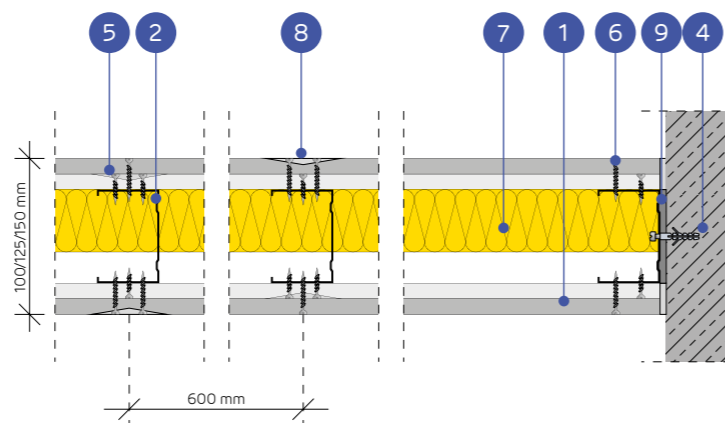
SYSTEMS:

100A50; 100AA50; 125A75; 125AA75; 150A100; 150AA100



MATERIALS:

- Nida Expert plasterboard (internal layer) + Resistex (external layer)
- Nida C50 / C75 / C100 profile
- Nida U50 / U75 / U100 profile
- Anchoring element
- Nida 3,5 x 25 mm sheet metal screws
- Nida 3,5 x 45 mm sheet metal screws
- Insulation material mineral wool
- Joint between plasterboards filled with Nida gypsum compound with Nida reinforcement tape
- Nida acoustic insulation tape width 50/70/95 mm



ANTI-BURGLAR PARTITION WALL SYSTEM BASED ON SINGLE AND DOUBLED NIDA C50, C75 AND C100 STRUCTURE (HYBRID WALLS - EXPERT/RESISTEX)

TECHNICAL PARAMETERS

System type Nida Ściana	Frame structure	Sheathing of plasterboards		Insulation material (mineral wool)				Maximum wall height · h ¹⁾ [mm]	Acoustic insulation ⁵⁾			Encasement weight 1 m ² [kg]	Burglar resistance class ²⁾	Fire resist. class ³⁾ [min]	Utilisation category ETAG 003 class	Special system
				Acoustic insulation		Fire resistance			R _w [dB]	R _{A1} [dB]	R _{A2} [dB]					
				Thickness [mm]	Minimum thickness [mm]	Density [kg/m ³]	Minimum thickness [mm]									
100A50/Expert+Resistex	C50	Expert+Resistex ⁴⁾	12,5+12,5	50	14,5	-	-	4500	52	48	40	43,0	RC2	(R)EI90	IV	●
100AA50/Expert+Resistex	2xC50	Expert+Resistex ⁴⁾	12,5+12,5	50	14,5	-	-	5500	-	-	-	44,0	RC2	(R)EI90	IV	●
125A75/Expert+Resistex	C75	Expert+Resistex ⁴⁾	12,5+12,5	75	14,5	-	-	5500	56	52	46	44,0	RC2	(R)EI90	IV	●
125AA75/Expert+Resistex	2xC75	Expert+Resistex ⁴⁾	12,5+12,5	75	14,5	-	-	6500	-	-	-	45,0	RC2	(R)EI90	IV	●
150A100/Expert+Resistex	C100	Expert+Resistex ⁴⁾	12,5+12,5	100	14,5	-	-	6500	58	55	50	44,0	RC2	(R)EI90	IV	●
150AA100/Expert+Resistex	2xC100	Expert+Resistex ⁴⁾	12,5+12,5	100	14,5	-	-	6500	-	-	-	46,0	RC2	(R)EI90	IV	●

¹⁾ The maximum wall height acc. to O1060/11/R12NK ITB technical opinion. For higher requirements related to the maximum height it is acceptable to reduce the spacing of the load-bearing structure to 400 mm and 300 mm.

²⁾ The burglar resistance classes according to standard EN 1627:2021. The system holds the burglar resistance certificate no. 00697/23, issued by CERTEST certifying body.

³⁾ The fire resistance class according to standard PN-EN 13501-2:2016-07.

⁴⁾ The Resistex board type DFH2IR can be utilised in environments with higher relative air humidity up to 85% (up to 10 hours per 24 hours), e.g. in bathrooms, kitchens, etc. The condition for application of the system for a higher air humidity is replacement of the internal sheathing of the Nida Ogień board with a DFH2 board type, e.g. Nida Woda Ogień Plus.

⁵⁾ The acoustic insulation was estimated on the basis of the INSUL simulation program.

The firestop and anti-burglar wall systems constructed according to the Siniat technology act as the firestop partitions, with fire exposition from both their sides. It is acceptable to provide the anti-burglar walls constructed according to the Siniat technology with penetrations, they should be sealed / protected with fire-protective materials, acc. to the indications of the fire protective materials manufacturer, e.g. PROMAT company.

The thickness of the insulation material, meeting the acoustic insulation parameters equal to the vertical C-type profile width (e.g. for the Nida C75 profile - glass wool thickness 75 mm).

The bulk density of the insulation material is 14,5 kg/m³, depending on the wall type.

AMOUNT OF MATERIALS UTILISED PER 1M² OF ANTI-BURGLAR WALLS, ACCORDING TO NIDA ŚCIANA SYSTEM

Material name	UM	System type Nida Ściana					
		100A50/ Expert+Resistex	100AA50/ Expert+Resistex	125A75/ Expert+Resistex	125AA75/ Expert+Resistex	150A100/ Expert+Resistex	150AA100/ Expert+Resistex
		Consumption of material per 1m ²					
Nida Expert 12,5 mm plasterboard	m ²	2,0	2,0	2,0	2,0	2,0	2,0
Resistex 12,5 mm plasterboard	m ²	2,0	2,0	2,0	2,0	2,0	2,0
Nida C50 profile	mb	1,8	3,6	-	-	-	-
Nida C75 profile	mb	-	-	1,8	3,6	-	-
Nida C100 profile	mb	-	-	-	-	1,8	3,6
Nida U50 profile	mb	0,7	0,7	-	-	-	-
Nida U75 profile	mb	-	-	0,7	0,7	-	-
Nida U100 profile	mb	-	-	-	-	0,7	0,7
Anchoring element ⁶⁾	szt.	1,8	1,8	1,8	1,8	1,8	1,8
FLAT HEAD 4,2x13 mm self-drilling screws for 1 mm sheet metal	szt.	-	6,0	-	6,0	-	6,0
Nida 3,5x25 mm sheet metal screws	szt.	8,0	8,0	8,0	8,0	8,0	8,0
Nida 3,5x45 mm sheet metal screws	szt.	24,0	24,0	24,0	24,0	24,0	24,0
Nida reinforcement tape	mb	2,8	2,8	2,8	2,8	2,8	2,8
Acoustic insulation tape	mb	0,6	0,6	0,6	0,6	0,6	0,6
Nida Start jointing compound ⁷⁾	kg	1,2	1,2	1,2	1,2	1,2	1,2
Nida Finish jointing compound	kg	0,2	0,2	0,2	0,2	0,2	0,2
Mineral wool ⁸⁾	m ²	1,0	1,0	1,0	1,0	1,0	1,0

⁶⁾ The type of the anchoring element should be selected individually adequately for the substrate type and the total mass of the encasement.

⁷⁾ Alternatively, apply the Nida Max gypsum compound.

⁸⁾ Application acc. to the requirements. When the utilised insulation material thickness and/or bulk density is different from the stated in the technical specification (Nida Drywall Encasement System - catalogue of solutions), contact with an appropriate Siniat technical advisor is required. The standards concerning the amount of utilised material do not cover the loss of the material.

nida Ściana



Fire resistance class:
(R)EI90



Burglar resistance class:
RC2



Maximum acoustic insulation:
67 dB



Maximum encasement height:
6500 mm

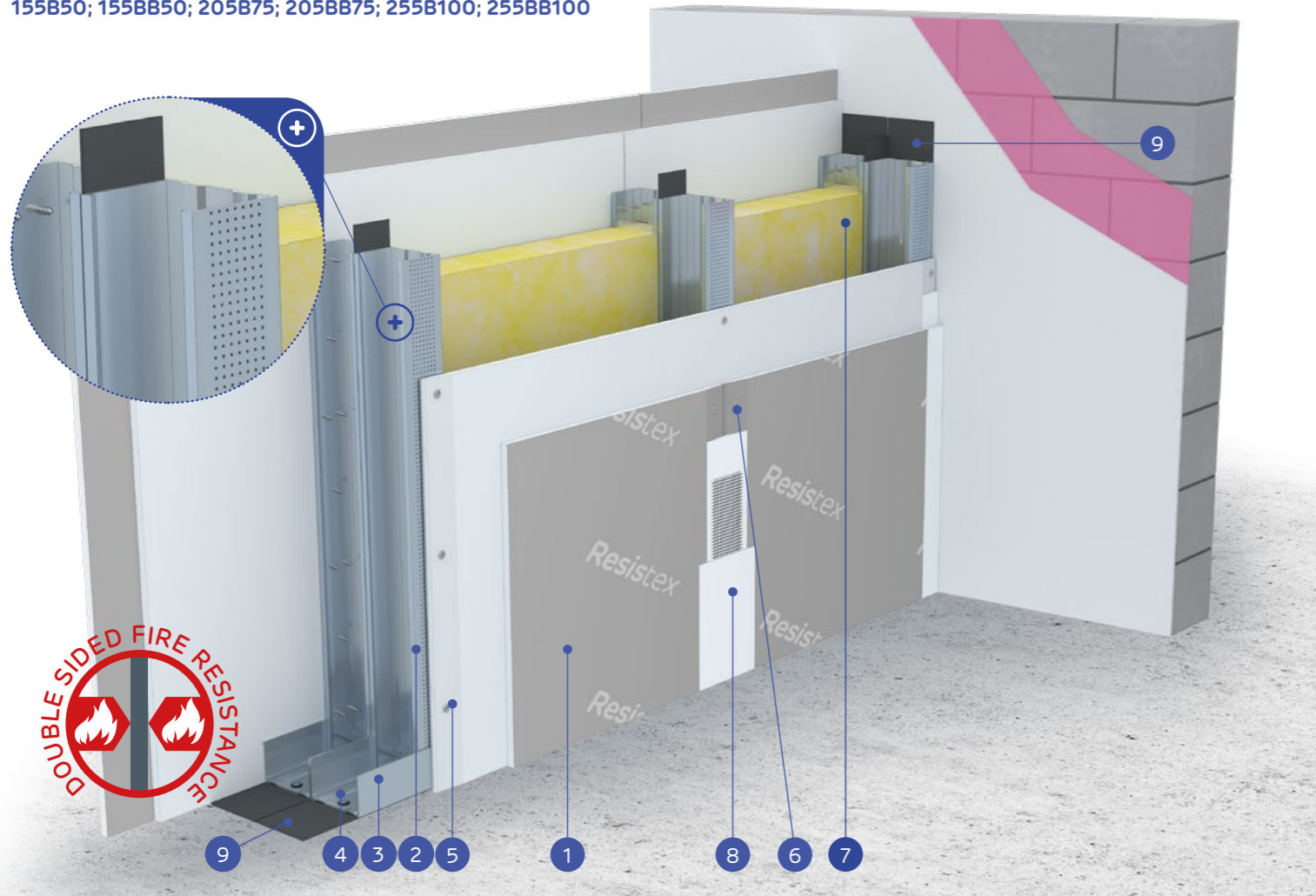


Number of related document:
EN 1627:2021

Burglar resistance certificate:
Nr 00697/23

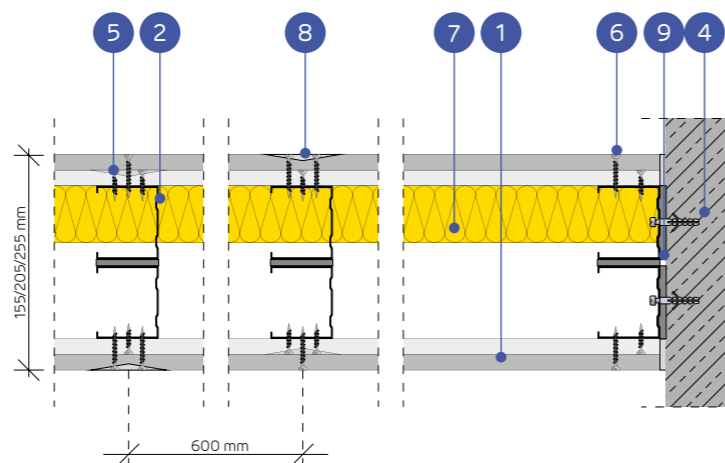
SYSTEMS:

155B50; 155BB50; 205B75; 205BB75; 255B100; 255BB100



MATERIALS:

1. Nida Expert plasterboard (internal layer) + Resistex (external layer)
2. Nida C50 / C75 / C100 profile
3. Nida U50 / U75 / U100 profile
4. Anchoring element
5. Nida 3,5 x 25 mm sheet metal screws
6. Nida 3,5 x 45 mm sheet metal screws
7. Insulation material mineral wool
8. Joint between plasterboards filled with Nida gypsum compound with Nida reinforcement tape
9. Nida acoustic insulation tape width 50/70/95 mm



ANTI-BURGLAR PARTITION WALL SYSTEM BASED ON DOUBLE-ROW SINGLE AND DOUBLED NIDA C50, C75 AND C100 STRUCTURE (HYBRID WALLS - EXPERT/RESISTEX)

TECHNICAL PARAMETERS

System type Nida Ściana	Frame structure	Sheathing of plasterboards		Insulation material (mineral wool)				Maximum wall height - h ¹⁾ [mm]	Acoustic insulation ⁵⁾			Encase ment weight 1 m ² [kg]	Burglar resistance class ²⁾	Fire resist. class ³⁾ [min]	Utilisation category ETAG 003 class	Special system	
				Acoustic insulation		Fire resistance			Within fire resistance	R _w [dB]	R _{a1} [dB]						R _{a2} [dB]
				Thickness [mm]	Minimum thickness [mm]	Density [kg/m ³]	Minimum thickness [mm]										
155B50/Expert+Resistex	C50+C50	Expert+Resistex ⁴⁾	12,5+12,5	2x50	14,5	-	-	4500	60	56	49	47,0	RC2	(R)EI90	IV	●	
155BB50/Expert+Resistex	2xC50+2xC50	Expert+Resistex ⁴⁾	12,5+12,5	2x50	14,5	-	-	5500	-	-	-	50,0	RC2	(R)EI90	IV	●	
205B75/Expert+Resistex	C75+C75	Expert+Resistex ⁴⁾	12,5+12,5	2x75	12	-	-	6000	64	61	54	48,0	RC2	(R)EI90	IV	●	
205BB75/Expert+Resistex	2xC75+2xC75	Expert+Resistex ⁴⁾	12,5+12,5	2x75	12	-	-	6500	-	-	-	51,0	RC2	(R)EI90	IV	●	
255B100/Expert+Resistex	C100+C100	Expert+Resistex ⁴⁾	12,5+12,5	2x100	12	-	-	6500	67	64	57	49,0	RC2	(R)EI90	IV	●	
255BB100/Expert+Resistex	2xC100+2xC100	Expert+Resistex ⁴⁾	12,5+12,5	2x100	12	-	-	6500	-	-	-	52,0	RC2	(R)EI90	IV	●	

¹⁾ The maximum wall height acc. to 1060/12/R48NK ITB technical opinion. For higher requirements related to the maximum height it is acceptable to reduce the spacing of the load-bearing structure to 400 mm and 300 mm.
²⁾ The burglar resistance classes according to standard EN 1627:2021. The system holds the burglar resistance certificate no. 00697/23, issued by CERTEST certifying body.
³⁾ The fire resistance class according to standard PN-EN 13501-2:2016-07.
⁴⁾ The Resistex board type DFH2IR can be utilised in environments with higher relative air humidity up to 85% (up to 10 hours per 24 hours), e.g. in bathrooms, kitchens, etc. The condition for application of the system for a higher air humidity is replacement of the internal sheathing of the Nida Ogień board with a DFH2 board type, e.g. Nida Woda Ogień Plus.
⁵⁾ The acoustic insulation was estimated on the basis of the INSUL simulation program.
IMPORTANT! During the designing process of the Type B walls, when dealing with the maximum acceptable wall height it is advisable to consult a Siniat Technical Advisor in order to verify the requirements considering stiffness of a partition (this does not include the wall systems with the Nida PWA vibro-acoustic lacing).
 • The firestop and anti-burglar wall systems constructed according to the Siniat technology act as the firestop partitions, with fire exposition from both their sides. It is acceptable to provide the anti-burglar walls constructed according to the Siniat technology with penetrations, they should be sealed / protected with fire-protective materials, acc. to the indications of the fire protective materials manufacturer, e.g. PROMAT company.
 • The thickness of the insulation material, meeting the acoustic insulation parameters equal to the vertical C- type profile width (e.g. for the Nida C75 profile - glass wool thickness 75 mm).
 • The bulk density of the insulation material is from 12 to 14.5 kg/m³, depending on the wall type.

AMOUNT OF MATERIALS UTILISED PER 1M² OF ANTI-BURGLAR WALLS, ACCORDING TO NIDA ŚCIANA SYSTEM

Material name	UM	System type Nida Ściana					
		155B50/ Expert+Resistex	155BB50/ Expert+Resistex	205B75/ Expert+Resistex	205BB75/ Expert+Resistex	255B100/ Expert+Resistex	255BB100/ Expert+Resistex
		Consumption of material per 1m ²					
Nida Expert 12,5 mm plasterboard	m ²	2,0	2,0	2,0	2,0	2,0	2,0
Resistex 12,5 mm plasterboard	m ²	2,0	2,0	2,0	2,0	2,0	2,0
Nida C50 profile	mb	3,6	7,2	-	-	-	-
Nida C75 profile	mb	-	-	3,6	7,2	-	-
Nida C100 profile	mb	-	-	-	-	3,6	7,2
Nida U50 profile	mb	1,4	1,4	-	-	-	-
Nida U75 profile	mb	-	-	1,4	1,4	-	-
Nida U100 profile	mb	-	-	-	-	1,4	1,4
Anchoring element ⁶⁾	szt.	3,6	3,6	3,6	3,6	3,6	3,6
FLAT HEAD 4,2x13 mm self-drilling screws for 1 mm sheet metal	szt.	-	12,0	-	12,0	-	12,0
Nida 3.5x25 mm sheet metal screws	szt.	8,0	8,0	8,0	8,0	8,0	8,0
Nida 3.5x45 mm sheet metal screws	szt.	24,0	24,0	24,0	24,0	24,0	24,0
Nida reinforcement tape	mb	2,8	2,8	2,8	2,8	2,8	2,8
Acoustic insulation tape	mb	2,4	2,4	2,4	2,4	2,4	2,4
Nida Start jointing compound ⁷⁾	kg	1,2	1,2	1,2	1,2	1,2	1,2
Nida Finish jointing compound	kg	0,2	0,2	0,2	0,2	0,2	0,2
Mineral wool ⁸⁾	m ²	2,0	2,0	2,0	2,0	2,0	2,0

⁶⁾ The type of the anchoring element should be selected individually adequately for the substrate type and the total mass of the encasement.
⁷⁾ Alternatively, apply the Nida Max gypsum compound.
⁸⁾ Application acc. to the requirements. When the utilised insulation material thickness and/or bulk density is different from the stated in the technical specification (Nida Drywall Encasement System - catalogue of solutions), contact with an appropriate Siniat technical advisor is required.
 The standards concerning the amount of utilised material do not cover the loss of the material.

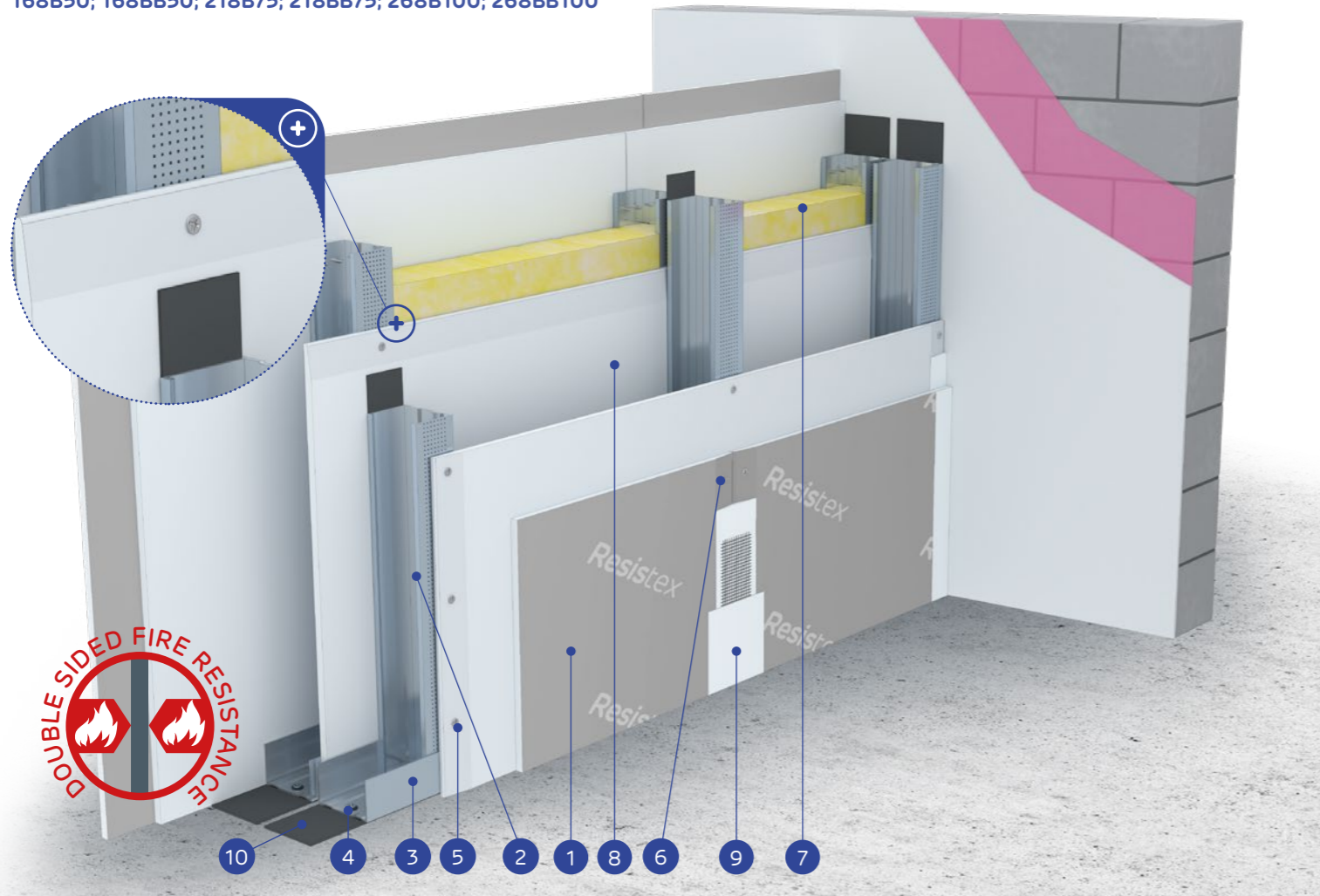


nida Ściana

Fire resistance class:
(R)EI90Burglar resistance class:
RC2Maximum acoustic insulation:
67 dBMaximum encasement height:
6500 mmNumber of related document:
EN 1627:2021Burglar resistance certificate:
Nr 00697/23

SYSTEMS:

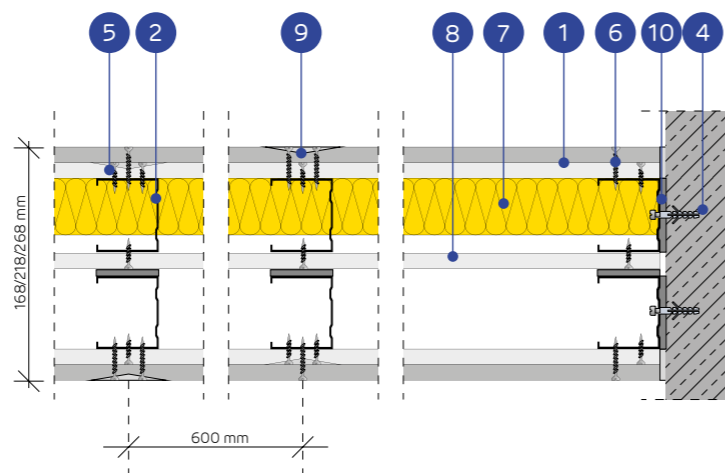
168B50; 168BB50; 218B75; 218BB75; 268B100; 268BB100



MATERIALS:

- Nida Expert plasterboard (internal layer) + Resistex (external layer)
- Nida C50 / C75 / C100 profile
- Nida U50 / U75 / U100 profile
- Anchoring element
- Nida 3,5 x 25 mm sheet metal screws
- Nida 3,5 x 45 mm sheet metal screws
- Insulation material mineral wool
- Nida Expert stiffening board*
- Joint between plasterboards filled with Nida gypsum compound with Nida reinforcement tape
- Nida acoustic insulation tape width 50/70/95 mm

* It is acceptable to change for boards of the following types: H2, F, DF, DFH2, DFR, DFH11R, DEFH11R



THE ACOUSTIC WALL SYSTEM BASED ON DOUBLE-ROW, SINGLE OR DOUBLED STRUCTURES OF THE NIDA C50, C75, C100 PROFILES WITH INTERNAL STIFFENING BOARD (HYBRID WALLS - EXPERT/RESISTEX)

TECHNICAL PARAMETERS

System type Nida Ściana	Frame structure	Sheathing of plasterboards		Insulation material (mineral wool)				Maximum wall height - h ¹⁾ [mm]	Acoustic insulation ⁵⁾			Encasement weight 1 m ² [kg]	Burglar resistance class ²⁾	Fire resist. class ³⁾ [min]	Utilisation category ETAG 003 class	Special system	
				Acoustic insulation		Fire resistance			Within fire resistance	R _w [dB]	R _{w1} [dB]						R _{w2} [dB]
				Thickness [mm]	Minimum thickness [mm]	Density [kg/m ³]	Minimum thickness [mm]										
168B50/Expert+Resistex	C50+C50	Expert+Resistex ⁴⁾	2x12,5+12,5	2x50	14,5	-	-	4500	60	56	49	55,0	RC2	(R)E90	IV	●	
168BB50/Expert+Resistex	2xC50+2xC50	Expert+Resistex ⁴⁾	2x12,5+12,5	2x50	14,5	-	-	5500	-	-	-	58,0	RC2	(R)E90	IV	●	
218B75/Expert+Resistex	C75+C75	Expert+Resistex ⁴⁾	2x12,5+12,5	2x75	12	-	-	6000	64	61	54	56,0	RC2	(R)E90	IV	●	
218BB75/Expert+Resistex	2xC75+2xC75	Expert+Resistex ⁴⁾	2x12,5+12,5	2x75	12	-	-	6500	-	-	-	59,0	RC2	(R)E90	IV	●	
268B100/Expert+Resistex	C100+C100	Expert+Resistex ⁴⁾	2x12,5+12,5	2x75	12	-	-	6500	67	64	57	57,0	RC2	(R)E90	IV	●	
268BB100/Expert+Resistex	2xC100+2xC100	Expert+Resistex ⁴⁾	2x12,5+12,5	2x75	12	-	-	6500	-	-	-	60,0	RC2	(R)E90	IV	●	

¹⁾ The maximum wall height acc. to 1060/12/R48NK ITB technical opinion. For higher requirements related to the maximum height it is acceptable to reduce the spacing of the load-bearing structure to 400 mm and 300 mm.²⁾ The burglar resistance classes according to standard EN 1627:2021. The system holds the burglar resistance certificate no. 00697/23, issued by CERTEST certifying body.³⁾ The fire resistance class according to standard PN-EN 13501-2:2016-07.⁴⁾ The Resistex board type DFH2IR can be utilised in environments with higher relative air humidity up to 85% (up to 10 hours per 24 hours), e.g. in bathrooms, kitchens, etc. The condition for application of the system for a higher air humidity is replacement of the internal sheathing of the Nida Ogień board with a DFH2 board type, e.g. Nida Woda Ogień Plus.⁵⁾ The acoustic insulation was estimated on the basis of the INSUL simulation program.

• The firestop and anti-burglar wall systems constructed according to the Siniat technology act as the firestop partitions, with fire exposition from both their sides. It is acceptable to provide the anti-burglar walls constructed according to the Siniat technology with penetrations, they should be sealed / protected with fire-protective materials, acc. to the indications of the fire protective materials manufacturer, e.g. PROMAT company.

• The thickness of the insulation material, meeting the acoustic insulation parameters equal to the vertical C- type profile width (e.g. for the Nida C75 profile - glass wool thickness 75 mm).

• The bulk density of the insulation material is from 12 to 14.5 kg/m³, depending on the wall type.

• It is acceptable to change the internal stiffening board Nida Expert Typ A for boards of the following types: H2, F, DF, DFH2, DFR, DFH11R, DEFH11R.

AMOUNT OF MATERIALS UTILISED PER 1M² OF ANTI-BURGLAR WALLS, ACCORDING TO NIDA ŚCIANA SYSTEM

Material name	UM	System type Nida Ściana					
		168B50/ Expert+Resistex	168BB50/ Expert+Resistex	218B75/ Expert+Resistex	218BB75/ Expert+Resistex	268B100/ Expert+Resistex	268BB100/ Expert+Resistex
		Consumption of material per 1m ²					
Nida Expert 12,5 mm plasterboard	m ²	3,0	3,0	3,0	3,0	3,0	3,0
Resistex 12,5 mm plasterboard	m ²	2,0	2,0	2,0	2,0	2,0	2,0
Nida C50 profile	mb	3,6	7,2	-	-	-	-
Nida C75 profile	mb	-	-	3,6	7,2	-	-
Nida C100 profile	mb	-	-	-	-	3,6	7,2
Nida U50 profile	mb	1,4	1,4	-	-	-	-
Nida U75 profile	mb	-	-	1,4	1,4	-	-
Nida U100 profile	mb	-	-	-	-	1,4	1,4
Anchoring element ⁶⁾	szt.	3,6	3,6	3,6	3,6	3,6	3,6
FLAT HEAD 4,2x13 mm self-drilling screw for 1 mm sheet metal	szt.	-	12,0	-	12,0	-	12,0
Nida 3.5x25 mm sheet metal screws	szt.	16,0	16,0	16,0	16,0	16,0	16,0
Nida 3.5x45 mm sheet metal screws	szt.	24,0	24,0	24,0	24,0	24,0	24,0
Nida reinforcement tape	mb	2,8	2,8	2,8	2,8	2,8	2,8
Acoustic insulation tape Nida	mb	2,4	2,4	2,4	2,4	2,4	2,4
Nida Start jointing compound ⁷⁾	kg	1,2	1,2	1,2	1,2	1,2	1,2
Nida Finish jointing compound	kg	0,2	0,2	0,2	0,2	0,2	0,2
Mineral wool ⁸⁾	m ²	2,0	2,0	2,0	2,0	2,0	2,0

⁶⁾ The type of the anchoring element should be selected individually adequately for the substrate type and the total mass of the encasement.⁷⁾ Alternatively, apply the Nida Max gypsum compound.⁸⁾ Application acc. to the requirements. When the utilised insulation material thickness and/or bulk density is different from the stated in the technical specification (Nida Drywall Encasement System - catalogue of solutions), contact with an appropriate Siniat technical advisor is required. The standards concerning the amount of utilised material do not cover the loss of the material.

nida Ściana

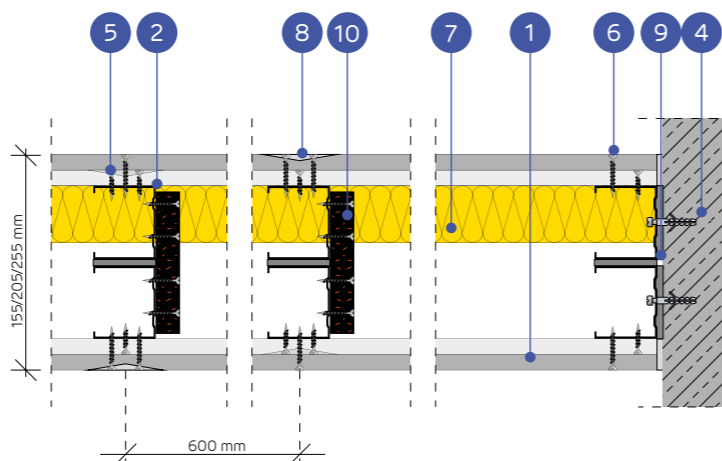
Fire resistance class:
(R)EI90Burglar resistance class:
RC2Maximum acoustic insulation:
67 dBMaximum encasement height:
6500 mmNumber of related document:
EN 1627:2021Burglar resistance certificate:
Nr 00697/23

SYSTEMS:

155B50-PWA; 155BB50-PWA; 205B75-PWA; 205BB75-PWA;
255B100-PWA; 255BB100-PWA

MATERIALS:

- Nida Expert plasterboard (internal layer) + Resistex (external layer)
- Nida C50 / C75 / C100 profile
- Nida U50 / U75 / U100 profile
- Anchoring element
- Nida 3,5 x 25 mm sheet metal screws
- Nida 3,5 x 45 mm sheet metal screws
- Insulation material mineral wool
- Joint between plasterboards filled with Nida gypsum compound with Nida reinforcement tape
- Nida acoustic insulation tape width 50/70/95 mm
- Nida PWA vibro-acoustic lacing



ANTI-BURGLAR PARTITION WALL SYSTEM BASED ON DOUBLE-ROW SINGLE AND DOUBLED NIDA C50, C75 AND C100 STRUCTURE (HYBRID WALLS - EXPERT/RESISTEX NIDA PWA)

TECHNICAL PARAMETERS

System type Nida Ściana	Frame structure	Sheathing of plasterboards		Insulation material (mineral wool)				Maximum wall height - h ¹⁾ [mm]	Acoustic insulation ⁵⁾			Encasement weight 1 m ² [kg]	Burglar resistance class ²⁾	Fire resist. class ³⁾ [min]	Utilisation category ETAG 003 class	Special system	
				Acoustic insulation		Fire resistance			Within fire resistance	R _w [dB]	R _{A1} [dB]						R _{A2} [dB]
				Thickness [mm]	Minimum thickness [mm]	Density [kg/m ³]	Minimum thickness [mm]										
155B50-PWA/Expert+Resistex	C50+C50	Expert+Resistex ⁴⁾	12,5+12,5	2x50	14,5	-	-	5500	60	56	49	47,0	RC2	(R)EI90	IV	●	
155BB50-PWA/Expert+Resistex	2xC50+2xC50	Expert+Resistex ⁴⁾	12,5+12,5	2x50	14,5	-	-	6330	-	-	-	50,0	RC2	(R)EI90	IV	●	
205B75-PWA/Expert+Resistex	C75+C75	Expert+Resistex ⁴⁾	12,5+12,5	2x75	12	-	-	6200	64	61	54	48,0	RC2	(R)EI90	IV	●	
205BB75-PWA/Expert+Resistex	2xC75+2xC75	Expert+Resistex ⁴⁾	12,5+12,5	2x75	12	-	-	6500	-	-	-	51,0	RC2	(R)EI90	IV	●	
255B100-PWA/Expert+Resistex	C100+C100	Expert+Resistex ⁴⁾	12,5+12,5	2x100	12	-	-	6500	67	64	57	49,0	RC2	(R)EI90	IV	●	
255BB100-PWA/Expert+Resistex	2xC100+2xC100	Expert+Resistex ⁴⁾	12,5+12,5	2x100	12	-	-	6500	-	-	-	52,0	RC2	(R)EI90	IV	●	

¹⁾ The maximum wall height acc. to 1060/12/R48NK ITB technical opinion. For higher requirements related to the maximum height it is acceptable to reduce the spacing of the load-bearing structure to 400 mm and 300 mm.

²⁾ The burglar resistance classes according to standard EN 1627:2021. The system holds the burglar resistance certificate no. 00697/23, issued by CERTEST certifying body.

³⁾ The fire resistance class according to standard PN-EN 13501-2:2016-07.

⁴⁾ The Resistex board type DFH2IR can be utilised in environments with higher relative air humidity up to 85% (up to 10 hours per 24 hours), e.g. in bathrooms, kitchens, etc. The condition for application of the system for a higher air humidity is replacement of the internal sheathing of the Nida Ogień board with a DFH2 board type, e.g. Nida Woda Ogień Plus.

⁵⁾ The acoustic insulation was estimated on the basis of the INSUL simulation program.

The firestop and anti-burglar wall systems constructed according to the Siniat technology act as the firestop partitions, with fire exposition from both their sides. It is acceptable to provide the anti-burglar walls constructed according to the Siniat technology with penetrations, they should be sealed / protected with fire-protective materials, acc. to the indications of the fire protective materials manufacturer, e.g. PROMAT company.

The thickness of the insulation material, meeting the acoustic insulation parameters equal to the vertical C- type profile width (e.g. for the Nida C75 profile - glass wool thickness 75 mm).
The bulk density of the insulation material is from 12 to 14.5 kg/m³, depending on the wall type.

AMOUNT OF MATERIALS UTILISED PER 1M² OF ANTI-BURGLAR WALLS, ACCORDING TO NIDA ŚCIANA SYSTEM

Material name	UM	System type Nida Ściana					
		155B50-PWA/ Expert+Resistex	155BB50-PWA/ Expert+Resistex	205B75-PWA/ Expert+Resistex	205BB75-PWA/ Expert+Resistex	255B100-PWA/ Expert+Resistex	255BB100-PWA/ Expert+Resistex
		Consumption of material per 1m ²					
Nida Expert 12,5 mm plasterboard	m ²	2,0	2,0	2,0	2,0	2,0	2,0
Resistex 12,5 mm plasterboard	m ²	2,0	2,0	2,0	2,0	2,0	2,0
Nida C50 profile	mb	3,6	7,2	-	-	-	-
Nida C75 profile	mb	-	-	3,6	7,2	-	-
Nida C100 profile	mb	-	-	-	-	3,6	7,2
Nida U50 profile	mb	1,4	1,4	-	-	-	-
Nida U75 profile	mb	-	-	1,4	1,4	-	-
Nida U100 profile	mb	-	-	-	-	1,4	1,4
PWA50 vibro-acoustic lacing	szt.	1,1	1,1	-	-	-	-
PWA75 vibro-acoustic lacing	szt.	-	-	1,1	1,1	-	-
PWA100 vibro-acoustic lacing	szt.	-	-	-	-	1,1	1,1
Anchoring element ⁶⁾	szt.	3,6	3,6	3,6	3,6	3,6	3,6
Nida 3.5x25 mm sheet metal screws	szt.	8,0	8,0	8,0	8,0	8,0	8,0
Nida 3.5x45 mm sheet metal screws	szt.	31,0	31,0	31,0	31,0	31,0	31,0
Nida reinforcement tape	mb	2,8	2,8	2,8	2,8	2,8	2,8
Acoustic insulation tape	mb	2,4	2,4	2,4	2,4	2,4	2,4
Nida Start jointing compound ⁷⁾	kg	1,2	1,2	1,2	1,2	1,2	1,2
Nida Finish jointing compound	kg	0,2	0,2	0,2	0,2	0,2	0,2
Mineral wool ⁸⁾	m ²	2,0	2,0	2,0	2,0	2,0	2,0

⁶⁾ The type of the anchoring element should be selected individually adequately for the substrate type and the total mass of the encasement.

⁷⁾ Alternatively, apply the Nida Max gypsum compound.

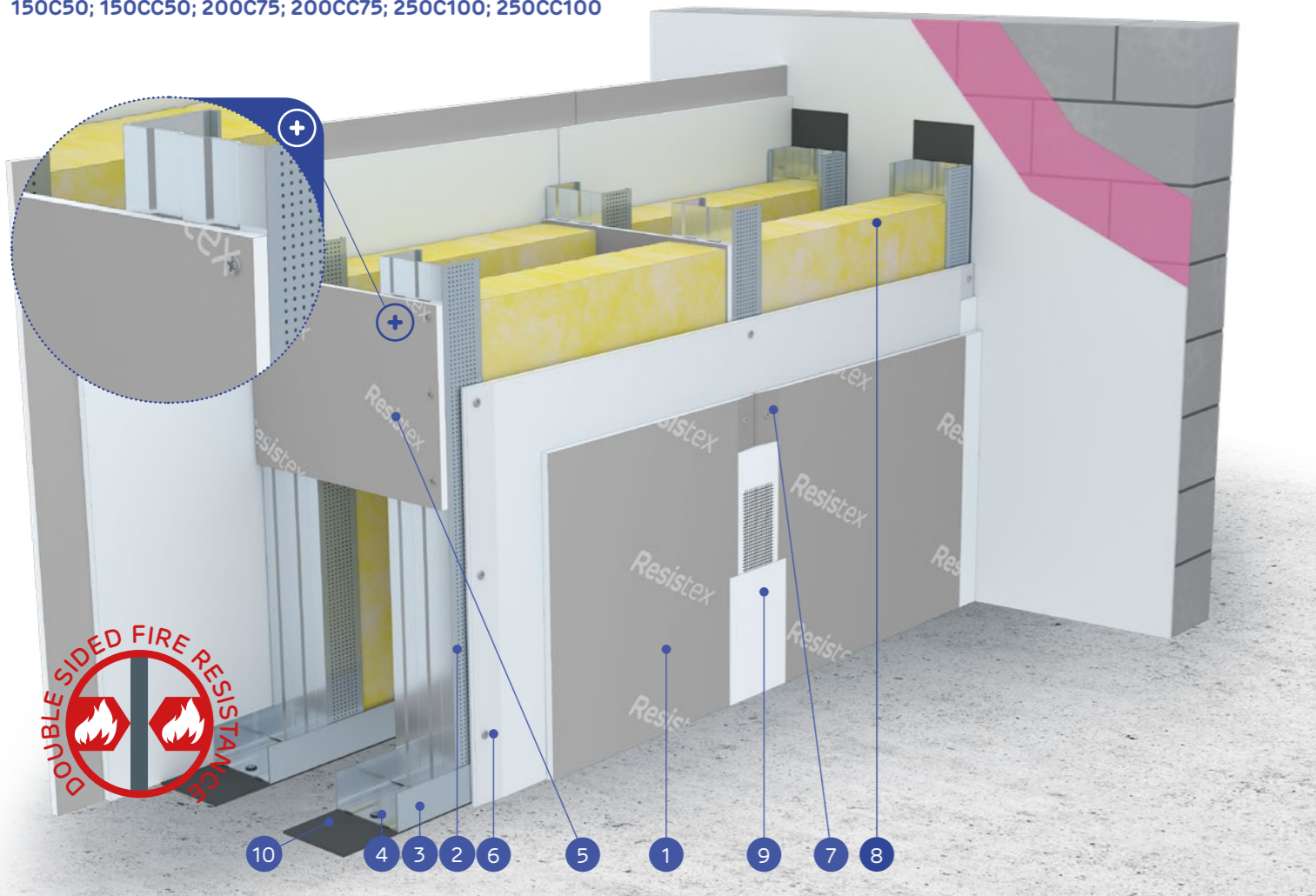
⁸⁾ Application acc. to the requirements. When the utilised insulation material thickness and/or bulk density is different from the stated in the technical specification (Nida Drywall Encasement System - catalogue of solutions), contact with an appropriate Siniat technical advisor is required. The standards concerning the amount of utilised material do not cover the loss of the material.

nida Ściana

Fire resistance class:
(R)EI90Burglar resistance class:
RC2Maximum acoustic insulation:
61 dBMaximum encasement height:
6500 mmNumber of related document:
EN 1627:2021Burglar resistance certificate:
Nr 00697/23

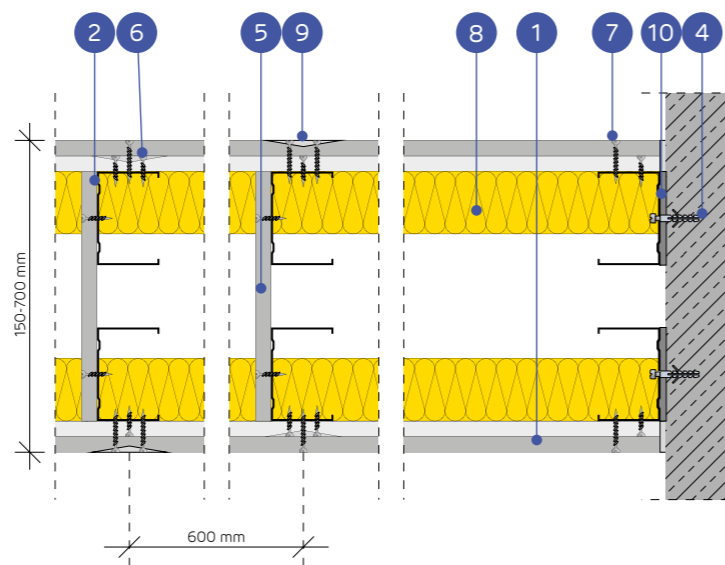
SYSTEMS:

150C50; 150CC50; 200C75; 200CC75; 250C100; 250CC100



MATERIALS:

- Nida Expert plasterboard (internal layer) + Resistex (external layer)
- Nida C50 / C75 / C100 profile
- Nida U50 / U75 / U100 profile
- Anchoring element
- Lacing of Resistex board, min. height 300 mm, min. 2 pcs. per post (max. spacing 1500 mm)
- Nida 3,5 x 25 mm sheet metal screws
- Nida 3,5 x 45 mm sheet metal screws
- Insulation material mineral wool
- Joint between plasterboards filled with Nida gypsum compound with Nida reinforcement tape
- Nida acoustic insulation tape width 50/70/95 mm



ANTI-BURGLAR PARTITION WALL SYSTEM BASED ON DOUBLE-ROW SINGLE AND DOUBLED NIDA C50, C75 AND C100 STRUCTURE (HYBRID WALLS FOR INSTALLATIONS - EXPERT/RESISTEX)

TECHNICAL PARAMETERS

System type Nida Ściana	Frame structure	Sheathing of plasterboards		Insulation material (mineral wool)				Maximum wall height - h ¹⁾ [mm]	Acoustic insulation ⁵⁾			Encasement weight 1m ² [kg]	Burglar resistance class ²⁾	Fire resist. class ³⁾ [min]	Utilisation category ETAG 003 class	Special system
				Acoustic insulation		Fire resistance			R _w [dB]	R _{w1} [dB]	R _{w2} [dB]					
				Thickness [mm]	Minimum thickness [mm]	Density [kg/m ³]	Minimum thickness [mm]									
150C50/Expert+Resistex	C50+C50	Expert+Resistex ⁴⁾	12,5+12,5	2x50	12	-	-	4500	59	57	51	47,0	RC2	(R)EI90	IV	●
150CC50/Expert+Resistex	2xC50+2xC50	Expert+Resistex ⁴⁾	12,5+12,5	2x50	12	-	-	4750	-	-	-	50,0	RC2	(R)EI90	IV	●
200C75/Expert+Resistex	C75+C75	Expert+Resistex ⁴⁾	12,5+12,5	2x75	12	-	-	6000	61	59	54	48,0	RC2	(R)EI90	IV	●
200CC75/Expert+Resistex	2xC75+2xC75	Expert+Resistex ⁴⁾	12,5+12,5	2x75	12	-	-	6500	-	-	-	51,0	RC2	(R)EI90	IV	●
250C100/Expert+Resistex	C100+C100	Expert+Resistex ⁴⁾	12,5+12,5	2x100	12	-	-	6500	61	59	54	49,0	RC2	(R)EI90	IV	●
250CC100/Expert+Resistex	2xC100+2xC100	Expert+Resistex ⁴⁾	12,5+12,5	2x100	12	-	-	6500	-	-	-	52,0	RC2	(R)EI90	IV	●

¹⁾ The maximum wall height acc. to 1060/12/R48NK ITB technical opinion. For higher requirements related to the maximum height it is acceptable to reduce the spacing of the load-bearing structure to 400 mm and 300 mm.

²⁾ The burglar resistance classes according to standard EN 1627:2021. The system holds the burglar resistance certificate no. 00697/23, issued by CERTEST certifying body.

³⁾ The fire resistance class according to standard PN-EN 13501-2:2016-07.

⁴⁾ The Resistex board type DFH2IR can be utilised in environments with higher relative air humidity up to 85% (up to 10 hours per 24 hours), e.g. in bathrooms, kitchens, etc. The condition for application of the system for a higher air humidity is replacement of the internal sheathing of the Nida Ogień board with a DFH2 board type, e.g. Nida Woda Ogień Plus.

⁵⁾ The acoustic insulation was estimated on the basis of the INSUL simulation program.

The firestop and anti-burglar wall systems constructed according to the Siniat technology act as the firestop partitions, with fire exposition from both their sides. It is acceptable to provide the anti-burglar walls constructed according to the Siniat technology with penetrations, they should be sealed / protected with fire-protective materials, acc. to the indications of the fire protective materials manufacturer, e.g. PROMAT company.

The thickness of the insulation material, meeting the acoustic insulation parameters equal to the vertical C- type profile width (e.g. for the Nida C75 profile - glass wool thickness 75 mm).
The bulk density of the insulation material is 12 kg/m³, depending on the wall type.

AMOUNT OF MATERIALS UTILISED PER 1M² OF ANTI-BURGLAR WALLS, ACCORDING TO NIDA ŚCIANA SYSTEM

Material name	UM	System type Nida Ściana					
		150C50/ Expert+Resistex	150CC50/ Expert+Resistex	200C75/ Expert+Resistex	200CC75/ Expert+Resistex	250C100/ Expert+Resistex	250CC100/ Expert+Resistex
		Consumption of material per 1m ²					
Nida Expert 12,5 mm plasterboard	m ²	2,0	2,0	2,0	2,0	2,0	2,0
Resistex 12,5 mm plasterboard	m ²	2,0	2,0	2,0	2,0	2,0	2,0
Nida C50 profile	mb	3,6	7,2	-	-	-	-
Nida C75 profile	mb	-	-	3,6	7,2	-	-
Nida C100 profile	mb	-	-	-	-	3,6	7,2
Nida U50 profile	mb	1,4	1,4	-	-	-	-
Nida U75 profile	mb	-	-	1,4	1,4	-	-
Nida U100 profile	mb	-	-	-	-	1,4	1,4
Anchoring element ⁶⁾	szt.	3,6	3,6	3,6	3,6	3,6	3,6
Nida 3.5x25 mm sheet metal screws	szt.	14,0	14,0	14,0	14,0	14,0	14,0
Nida 3.5x45 mm sheet metal screws	szt.	24,0	24,0	24,0	24,0	24,0	24,0
Nida reinforcement tape	mb	2,8	2,8	2,8	2,8	2,8	2,8
Acoustic insulation tape	mb	2,2	2,2	2,2	2,2	2,2	2,2
Nida Start jointing compound ⁷⁾	kg	1,2	1,2	1,2	1,2	1,2	1,2
Nida Finish jointing compound	kg	0,2	0,2	0,2	0,2	0,2	0,2
Mineral wool ⁸⁾	m ²	2,0	2,0	2,0	2,0	2,0	2,0

⁶⁾ The type of the anchoring element should be selected individually adequately for the substrate type and the total mass of the encasement.

⁷⁾ Alternatively, apply the Nida Max gypsum compound.

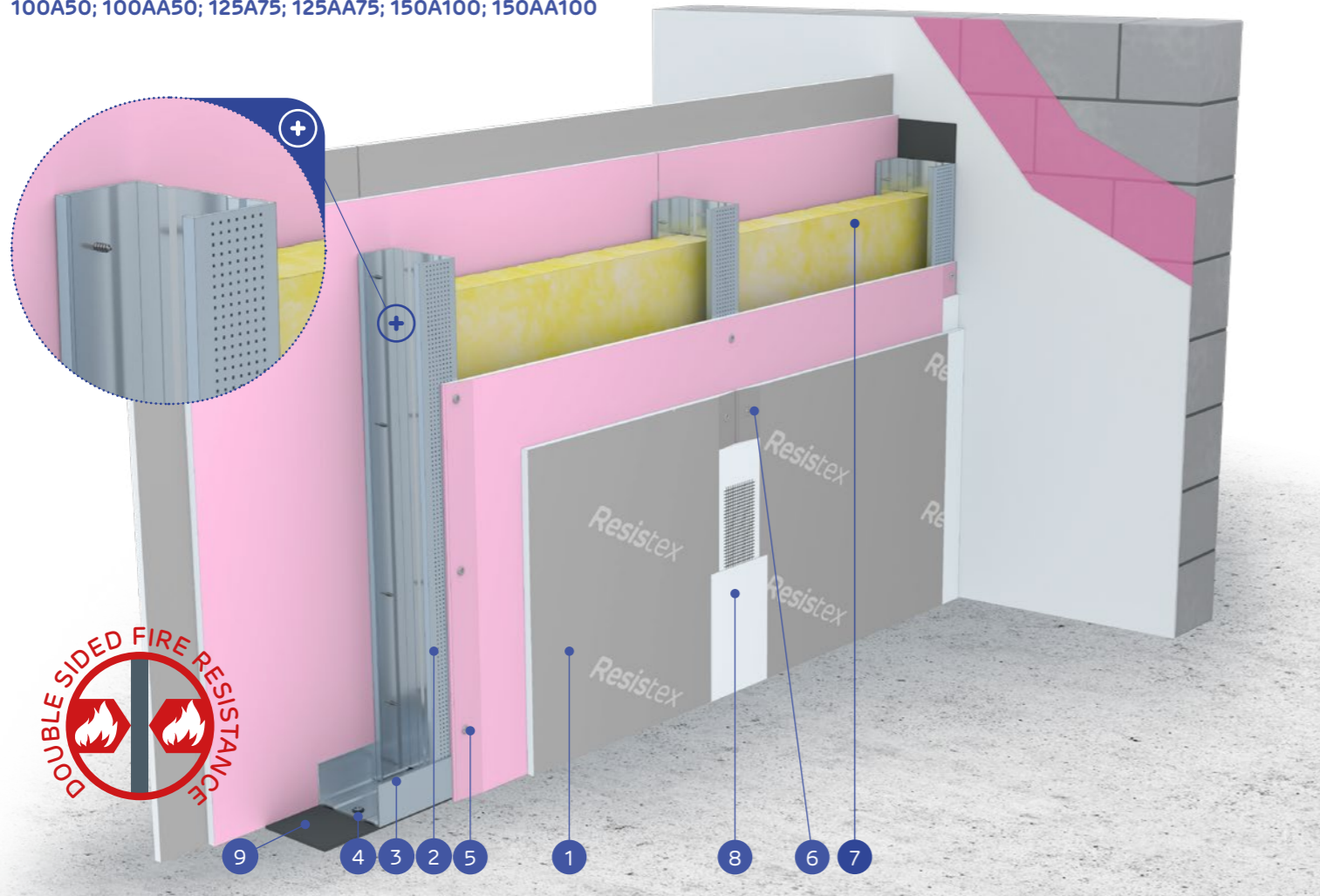
⁸⁾ Application acc. to the requirements. When the utilised insulation material thickness and/or bulk density is different from the stated in the technical specification (Nida Drywall Encasement System - catalogue of solutions), contact with an appropriate Siniat technical advisor is required. The standards concerning the amount of utilised material do not cover the loss of the material.

nida Ściana

Fire resistance class:
(R)EI120Burglar resistance class:
RC2Maximum acoustic insulation:
59 dBMaximum encasement height:
6500 mmNumber of related document:
EN 1627:2021Burglar resistance certificate:
Nr 00697/23

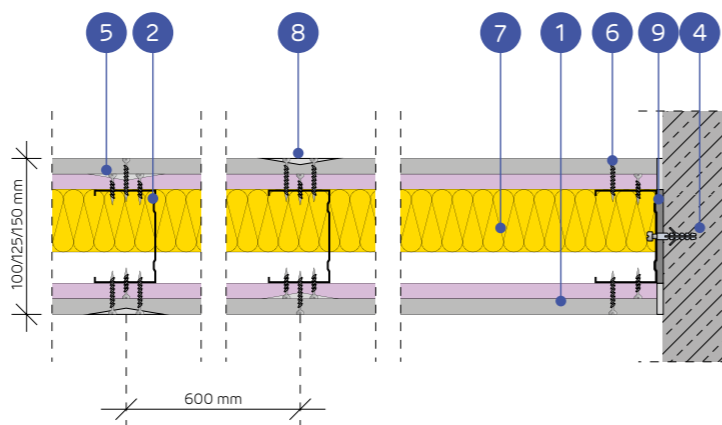
SYSTEMS:

100A50; 100AA50; 125A75; 125AA75; 150A100; 150AA100



MATERIALS:

- Nida Ogień Plus plasterboard (internal layer) + Resistex (external layer)
- Nida C50 / C75 / C100 profile
- Nida U50 / U75 / U100 profile
- Anchoring element
- Nida 3,5 x 25 mm sheet metal screws
- Nida 3,5 x 45 mm sheet metal screws
- Insulation material mineral wool
- Joint between plasterboards filled with Nida gypsum compound with Nida reinforcement tape
- Nida acoustic insulation tape width 50/70/95 mm



ANTI-BURGLAR PARTITION WALL SYSTEM BASED ON SINGLE AND DOUBLED NIDA C50, C75 AND C100 STRUCTURE (HYBRID WALLS - OGIEŃ PLUS/ RESISTEX)

TECHNICAL PARAMETERS

System type Nida Ściana	Frame structure	Sheathing of plasterboards		Insulation material (mineral wool)		Maximum wall height - h ¹⁾ [mm]	Acoustic insulation ⁵⁾			Encasement weight 1m ² [kg]	Burglar resistance class ²⁾	Fire resist. class ³⁾ [min]	Utilisation category ETAG 003 class	Special system		
				Acoustic insulation			Fire resistance									
				Minimum thickness [mm]	Density [kg/m ³]		Minimum thickness [mm]	Density [kg/m ³]	Within fire resistance						R _w [dB]	R _{a1} [dB]
100A50/Ogień Plus + Resistex	C50	Ogień Plus + Resistex ⁴⁾	12,5+12,5	50	14,5	-	-	4500	54	50	42	47,0	RC2	(R)EI120	IV	●
100AA50/Ogień Plus + Resistex	2xC50	Ogień Plus + Resistex ⁴⁾	12,5+12,5	50	14,5	-	-	5500	-	-	-	48,0	RC2	(R)EI120	IV	●
125A75/Ogień Plus + Resistex	C75	Ogień Plus + Resistex ⁴⁾	12,5+12,5	75	14,5	-	-	5500	57	54	48	48,0	RC2	(R)EI120	IV	●
125AA75/Ogień Plus + Resistex	2xC75	Ogień Plus + Resistex ⁴⁾	12,5+12,5	75	14,5	-	-	6500	-	-	-	49,0	RC2	(R)EI120	IV	●
150A100/Ogień Plus + Resistex	C100	Ogień Plus + Resistex ⁴⁾	12,5+12,5	100	14,5	-	-	6500	59	56	52	48,0	RC2	(R)EI120	IV	●
150AA100/Ogień Plus + Resistex	2xC100	Ogień Plus + Resistex ⁴⁾	12,5+12,5	100	14,5	-	-	6500	-	-	-	50,0	RC2	(R)EI120	IV	●

¹⁾ The maximum wall height acc. to 01060/11/R12NK ITB technical opinion. For higher requirements related to the maximum height it is acceptable to reduce the spacing of the load-bearing structure to 400 mm and 300 mm.

²⁾ Klasa odporności na włamanie zgodnie z normą EN 1627:2021. System posiada certyfikat odporności na włamanie nr 00697/23, wydany przez jednostkę certyfikującą CERTEST.

³⁾ The fire resistance class according to standard PN-EN 13501-2:2016-07.

⁴⁾ The Resistex board type DFH2IR can be utilised in increased relative humidity environments up to 85% (up to 10 hour per day), e.g. bathrooms, kitchens, etc. Warunkiem stosowania systemu w warunkach o podwyższonej wilgotności powietrza jest zamiana poszycia wewnętrznego z płyty Nida Ogień Plus na płyty min. typu DFH2 np. Nida Woda Ogień Plus.

⁵⁾ The acoustic insulation was estimated on the basis of the INSUL simulation program.

The firestop and anti-burglar wall systems constructed according to the Siniat technology act as the firestop partitions, with fire exposition from both their sides. It is acceptable to provide the anti-burglar walls constructed according to the Siniat technology with penetrations, they should be sealed / protected with fire-protective materials, acc. to the indications of the fire protective materials manufacturer, e.g. PROMAT company.

The thickness of the insulation material, meeting the acoustic insulation parameters equal to the vertical C- type profile width (e.g. for the Nida C75 profile - glass wool thickness 75 mm).
The bulk density of the insulation material is 14,5 kg/m³, depending on the wall type.

AMOUNT OF MATERIALS UTILISED PER 1M² OF ANTI-BURGLAR WALLS, ACCORDING TO NIDA ŚCIANA SYSTEM

Material name	UM	System type Nida Ściana					
		100A50/ Ogień Plus + Resistex	100AA50/ Ogień Plus + Resistex	125A75/ Ogień Plus + Resistex	125AA75/ Ogień Plus + Resistex	150A100/ Ogień Plus + Resistex	150AA100/ Ogień Plus + Resistex
		Consumption of material per 1m ²					
Nida Ogień Plus 12,5 mm plasterboard	m ²	2,0	2,0	2,0	2,0	2,0	2,0
Resistex 12,5 mm plasterboard	m ²	2,0	2,0	2,0	2,0	2,0	2,0
Nida C50 profile	mb	1,8	3,6	-	-	-	-
Nida C75 profile	mb	-	-	1,8	3,6	-	-
Nida C100 profile	mb	-	-	-	-	1,8	3,6
Nida U50 profile	mb	0,7	0,7	-	-	-	-
Nida U75 profile	mb	-	-	0,7	0,7	-	-
Nida U100 profile	mb	-	-	-	-	0,7	0,7
Anchoring element ⁶⁾	szt.	1,8	1,8	1,8	1,8	1,8	1,8
FLAT HEAD 4,2x13 mm self-drilling screws for 1 mm sheet metal	szt.	-	6,0	-	6,0	-	6,0
Nida 3.5x25 mm sheet metal screws	szt.	8,0	8,0	8,0	8,0	8,0	8,0
Nida 3.5x45 mm sheet metal screws	szt.	24,0	24,0	24,0	24,0	24,0	24,0
Nida reinforcement tape	mb	2,8	2,8	2,8	2,8	2,8	2,8
Acoustic insulation tape	mb	0,6	0,6	0,6	0,6	0,6	0,6
Nida Start jointing compound ⁷⁾	kg	1,2	1,2	1,2	1,2	1,2	1,2
Nida Finish jointing compound	kg	0,2	0,2	0,2	0,2	0,2	0,2
Mineral wool ⁸⁾	m ²	1,0	1,0	1,0	1,0	1,0	1,0

⁶⁾ The type of the anchoring element should be selected individually adequately for the substrate type and the total mass of the encasement.

⁷⁾ Alternatively, apply the Nida Max gypsum compound.

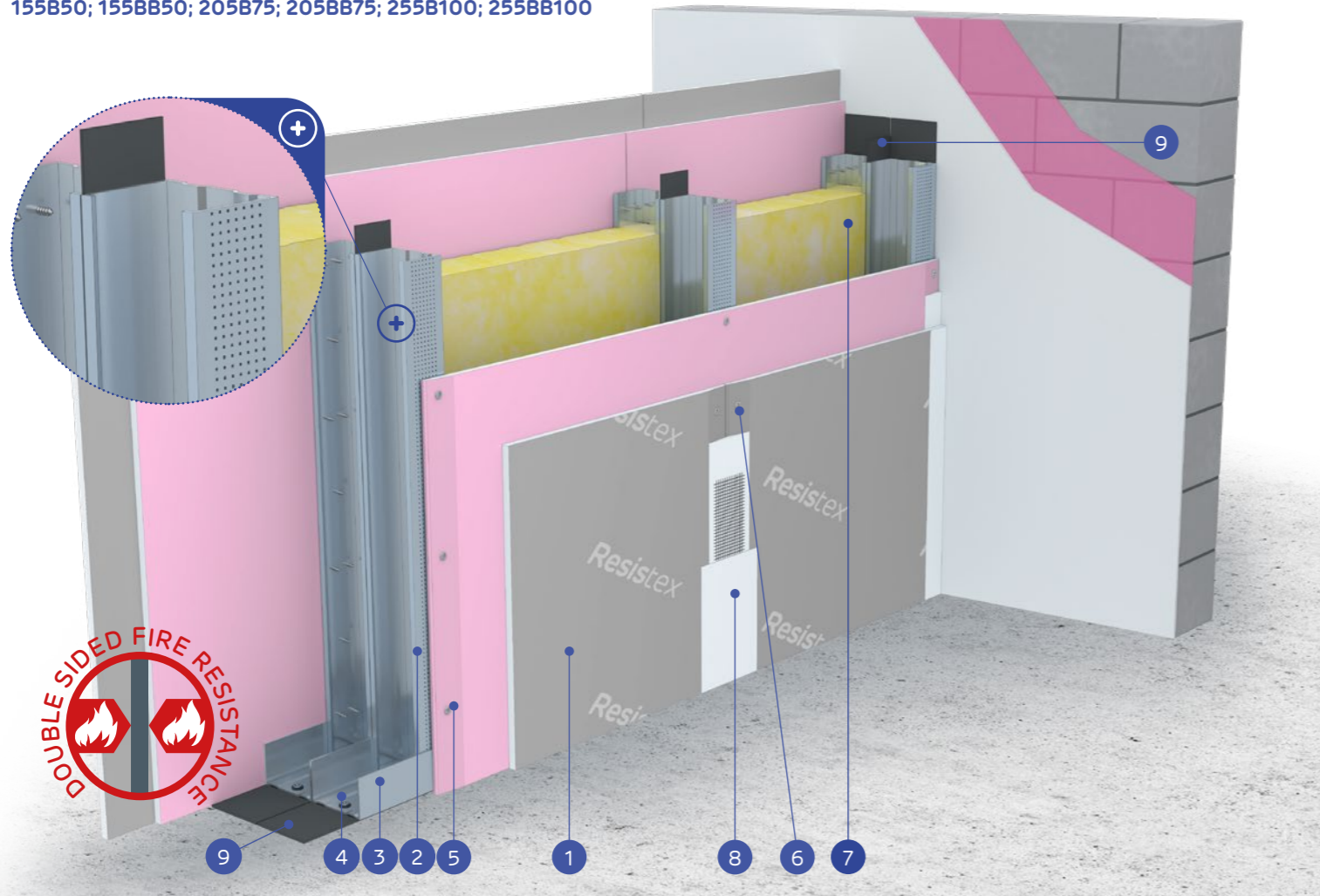
⁸⁾ Application acc. to the requirements. When the utilised insulation material thickness and/or bulk density is different from the stated in the technical specification (Nida Drywall Encasement System - catalogue of solutions), contact with an appropriate Siniat technical advisor is required. The standards concerning the amount of utilised material do not cover the loss of the material.

nida Ściana

Fire resistance class:
(R)EI120Burglar resistance class:
RC2Maximum acoustic insulation:
69 dBMaximum encasement height:
6500 mmNumber of related document:
EN 1627:2021Burglar resistance certificate:
Nr 00697/23

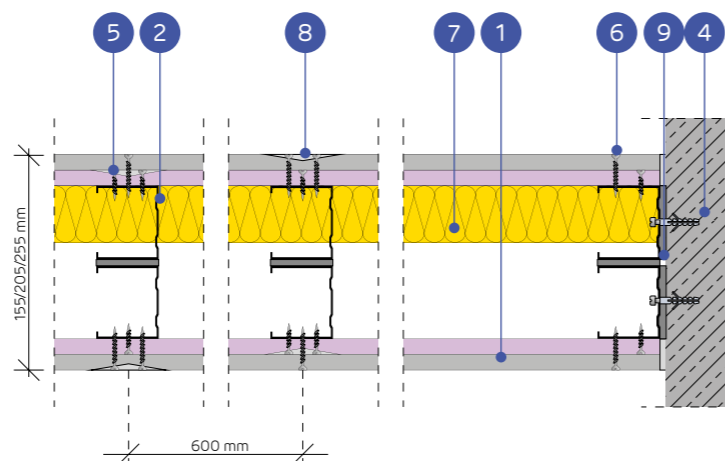
SYSTEMS:

155B50; 155BB50; 205B75; 205BB75; 255B100; 255BB100



MATERIALS:

- Nida Ogień Plus plasterboard (internal layer) + Resistex (external layer)
- Nida C50 / C75 / C100 profile
- Nida U50 / U75 / U100 profile
- Anchoring element
- Nida 3,5 x 25 mm sheet metal screws
- Nida 3,5 x 45 mm sheet metal screws
- Insulation material mineral wool
- Joint between plasterboards filled with Nida gypsum compound with Nida reinforcement tape
- Nida acoustic insulation tape width 50/70/95 mm



ANTI-BURGLAR PARTITION WALL SYSTEM BASED ON DOUBLE-ROW SINGLE AND DOUBLED NIDA C50, C75 AND C100 STRUCTURE (HYBRID WALLS - OGIEŃ PLUS/RESISTEX)

TECHNICAL PARAMETERS

System type Nida Ściana	Frame structure		Sheathing of plasterboards				Insulation material (mineral wool)		Maximum wall height - h ¹⁾ [mm]	Acoustic insulation ³⁾			Encasement weight 1 m ² [kg]	Burglar resistance class ²⁾	Fire resist. class ³⁾ [min]	Utilisation category ETAG 003 class	Special system
	Nida	Nida	Thickness [mm]	Acoustic insulation		Fire resistance		Within fire resistance		R _w [dB]	R _{A1} [dB]	R _{A2} [dB]					
				Minimum thickness [mm]	Density [kg/m ³]	Minimum thickness [mm]	Density [kg/m ³]										
155B50/OgieńPlus + Resistex	C50+C50	Ogień Plus + Resistex ⁴⁾	12,5+12,5	2x50	14,5	-	-	4500	62	58	51	51,0	RC2	(R)EI120	IV	●	
155BB50/OgieńPlus + Resistex	2xC50+2xC50	Ogień Plus + Resistex ⁴⁾	12,5+12,5	2x50	14,5	-	-	5500	-	-	-	54,0	RC2	(R)EI120	IV	●	
205B75/OgieńPlus + Resistex	C75+C75	Ogień Plus + Resistex ⁴⁾	12,5+12,5	2x75	12	-	-	6000	66	63	55	52,0	RC2	(R)EI120	IV	●	
205BB75/OgieńPlus + Resistex	2xC75+2xC75	Ogień Plus + Resistex ⁴⁾	12,5+12,5	2x75	12	-	-	6500	-	-	-	55,0	RC2	(R)EI120	IV	●	
255B100/OgieńPlus + Resistex	C100+C100	Ogień Plus + Resistex ⁴⁾	12,5+12,5	2x100	12	-	-	6500	69	66	59	53,0	RC2	(R)EI120	IV	●	
255BB100/OgieńPlus + Resistex	2xC100+2xC100	Ogień Plus + Resistex ⁴⁾	12,5+12,5	2x100	12	-	-	6500	-	-	-	56,0	RC2	(R)EI120	IV	●	

¹⁾ The maximum wall height acc. to 1060/12/R48NK ITB technical opinion. For higher requirements related to the maximum height it is acceptable to reduce the spacing of the load-bearing structure to 400 mm and 300 mm.

²⁾ Klasa odporności na włamanie zgodnie z normą EN 1627:2021. System posiada certyfikat odporności na włamanie nr 00697/23, wydany przez jednostkę certyfikującą CERTEST.

³⁾ The fire resistance class according to standard PN-EN 13501-2:2016-07.

⁴⁾ The Resistex board type DFH2IR can be utilised in increased relative humidity environments up to 85% (up to 10 hour per day), e.g. bathrooms, kitchens, etc. Warunkiem stosowania systemu w warunkach o podwyższonej wilgotności powietrza jest zamiana poszycia wewnętrznego z płyty Nida Ogień Plus na płyty min. typu DFH2 np. Nida Woda Ogień Plus.

⁵⁾ The acoustic insulation was estimated on the basis of the INSUL simulation program.

IMPORTANT! During the designing process of the Type B walls, when dealing with the maximum acceptable wall height it is advisable to consult a Siniat Technical Advisor in order to verify the requirements considering stiffness of a partition (this does not include the wall systems with the Nida PWA vibro-acoustic lacing).

The firestop and anti-burglar wall systems constructed according to the Siniat technology act as the firestop partitions, with fire exposition from both their sides. It is acceptable to provide the anti-burglar walls constructed according to the Siniat technology with penetrations, they should be sealed / protected with fire-protective materials, acc. to the indications of the fire protective materials manufacturer, e.g. PROMAT company.

The thickness of the insulation material, meeting the acoustic insulation parameters equal to the vertical C- type profile width (e.g. for the Nida C75 profile - glass wool thickness 75 mm).

The bulk density of the insulation material is from 12 to 14.5 kg/m³, depending on the wall type.

AMOUNT OF MATERIALS UTILISED PER 1M² OF ANTI-BURGLAR WALLS, ACCORDING TO NIDA ŚCIANA SYSTEM

Material name	UM	System type Nida Ściana					
		155B50/ OgieńPlus + Resistex	155BB50/ OgieńPlus + Resistex	205B75/ OgieńPlus + Resistex	205BB75/ OgieńPlus + Resistex	255B100/ OgieńPlus + Resistex	255BB100/ OgieńPlus + Resistex
		Consumption of material per 1m ²					
Nida Ogień Plus 12,5 mm plasterboard	m ²	2,0	2,0	2,0	2,0	2,0	2,0
Resistex 12,5 mm plasterboard	m ²	2,0	2,0	2,0	2,0	2,0	2,0
Nida C50 profile	mb	3,6	7,2	-	-	-	-
Nida C75 profile	mb	-	-	3,6	7,2	-	-
Nida C100 profile	mb	-	-	-	-	3,6	7,2
Nida U50 profile	mb	1,4	1,4	-	-	-	-
Nida U75 profile	mb	-	-	1,4	1,4	-	-
Nida U100 profile	mb	-	-	-	-	1,4	1,4
Anchoring element ⁶⁾	szt.	3,6	3,6	3,6	3,6	3,6	3,6
FLAT HEAD 4,2x13 mm self-drilling screws for 1 mm sheet metal	szt.	-	12,0	-	12,0	-	12,0
Nida 3,5x25 mm sheet metal screws	szt.	8,0	8,0	8,0	8,0	8,0	8,0
Nida 3,5x45 mm sheet metal screws	szt.	24,0	24,0	24,0	24,0	24,0	24,0
Nida reinforcement tape	mb	2,8	2,8	2,8	2,8	2,8	2,8
Acoustic insulation tape	mb	2,4	2,4	2,4	2,4	2,4	2,4
Nida Start jointing compound ⁷⁾	kg	1,2	1,2	1,2	1,2	1,2	1,2
Nida Finish jointing compound	kg	0,2	0,2	0,2	0,2	0,2	0,2
Mineral wool ⁸⁾	m ²	2,0	2,0	2,0	2,0	2,0	2,0

⁶⁾ The type of the anchoring element should be selected individually adequately for the substrate type and the total mass of the encasement.

⁷⁾ Alternatively, apply the Nida Max gypsum compound.

⁸⁾ Application acc. to the requirements. When the utilised insulation material thickness and/or bulk density is different from the stated in the technical specification (Nida Drywall Encasement System - catalogue of solutions), contact with an appropriate Siniat technical advisor is required. The standards concerning the amount of utilised material do not cover the loss of the material.

nida Ściana



Fire resistance class:
(R)EI120



Burglar resistance class:
RC2



Maximum acoustic insulation:
69 dB



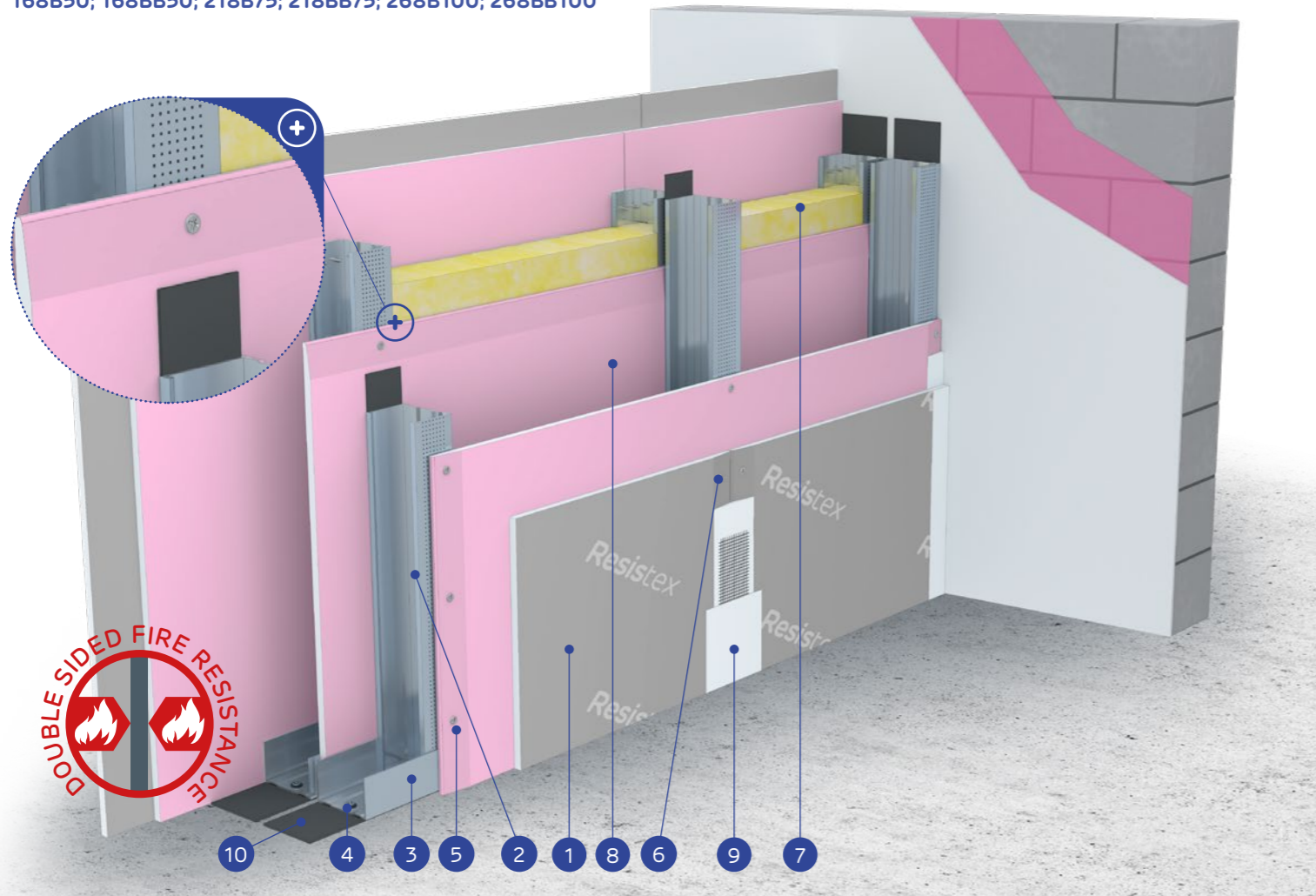
Maximum encasement height:
6500 mm



Number of related document:
EN 1627:2021

Burglar resistance certificate:
Nr 00697/23

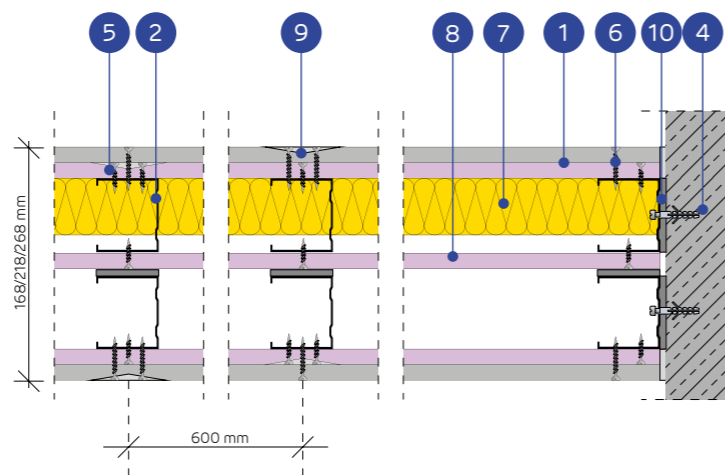
SYSTEMS:
168B50; 168BB50; 218B75; 218BB75; 268B100; 268BB100



MATERIALS:

- Nida Ogień Plus plasterboard (internal layer) + Resistex (external layer)
- Nida C50 / C75 / C100 profile
- Nida U50 / U75 / U100 profile
- Anchoring element
- Nida 3,5 x 25 mm sheet metal screws
- Nida 3,5 x 45 mm sheet metal screws
- Insulation material mineral wool
- Nida Ogień Plus stiffening board*
- Joint between plasterboards filled with Nida gypsum compound with Nida reinforcement tape
- Nida acoustic insulation tape width 50/70/95 mm

* It is acceptable to change for boards of the following types: DFH2, DFR, DFH11R, DEFH11R



THE ACOUSTIC WALL SYSTEM BASED ON DOUBLE-ROW, SINGLE OR DOUBLED STRUCTURES OF THE NIDA C50, C75, C100 PROFILES WITH INTERNAL STIFFENING BOARD (HYBRID WALLS - OGIEŃ PLUS/RESISTEX)

TECHNICAL PARAMETERS

System type Nida Ściana	Frame structure	Sheathing of plasterboards		Insulation material (mineral wool)				Maximum wall height - h ¹⁾ [mm]	Acoustic insulation ³⁾			Encasement weight 1 m ² [kg]	Burglar resistance class ²⁾	Fire resist. class ³⁾ [min]	Utilisation category ETAG 003 class	Special system		
		Nida	Nida	Thickness [mm]	Acoustic insulation		Fire resistance		Within fire resistance	R _w [dB]	R _w 1 [dB]						R _w 2 [dB]	
					Minimum thickness [mm]	Density [kg/m ³]	Minimum thickness [mm]											Density [kg/m ³]
168B50/Ogień Plus+Resistex	C50+C50	Ogień Plus+Resistex ⁴⁾	2x12,5+12,5	2x50	14,5	-	-	4500	62	58	51	61,0	RC2	(R)EI120	IV	●		
168BB50/Ogień Plus+Resistex	2xC50+2xC50	Ogień Plus+Resistex ⁴⁾	2x12,5+12,5	2x50	14,5	-	-	5500	-	-	-	64,0	RC2	(R)EI120	IV	●		
218B75/Ogień Plus+Resistex	C75+C75	Ogień Plus+Resistex ⁴⁾	2x12,5+12,5	2x75	12	-	-	6000	66	63	55	62,0	RC2	(R)EI120	IV	●		
218BB75/Ogień Plus+Resistex	2xC75+2xC75	Ogień Plus+Resistex ⁴⁾	2x12,5+12,5	2x75	12	-	-	6500	-	-	-	65,0	RC2	(R)EI120	IV	●		
268B100/Ogień Plus+Resistex	C100+C100	Ogień Plus+Resistex ⁴⁾	2x12,5+12,5	2x75	12	-	-	6500	69	66	59	63,0	RC2	(R)EI120	IV	●		
268BB100/Ogień Plus+Resistex	2xC100+2xC100	Ogień Plus+Resistex ⁴⁾	2x12,5+12,5	2x75	12	-	-	6500	-	-	-	66,0	RC2	(R)EI120	IV	●		

- The maximum wall height acc. to 1060/12/R48NK ITB technical opinion. For higher requirements related to the maximum height it is acceptable to reduce the spacing of the load-bearing structure to 400 mm and 300 mm.
- Klasa odporności na włamanie zgodnie z normą EN 1627:2021. System posiada certyfikat odporności na włamanie nr 00697/23, wydany przez jednostkę certyfikującą CERTEST.
- The fire resistance class according to standard PN-EN 13501-2:2016-07.
- The Resistex board type DFH2IR can be utilised in increased relative humidity environments up to 85% (up to 10 hour per day), e.g. bathrooms, kitchens, etc. Warunkiem stosowania systemu w warunkach o podwyższonej wilgotności powietrza jest zamiana poszycia wewnętrznego z płyty Nida Ogień Plus na płyty min. typu DFH2 np. Nida Woda Ogień Plus.
- The acoustic insulation was estimated on the basis of the INSUL simulation program.
- The firestop and anti-burglar wall systems constructed according to the Siniat technology act as the firestop partitions, with fire exposition from both their sides. It is acceptable to provide the anti-burglar walls constructed according to the Siniat technology with penetrations, they should be sealed / protected with fire-protective materials, acc. to the indications of the fire protective materials manufacturer, e.g. PROMAT company.
- The thickness of the insulation material, meeting the acoustic insulation parameters equal to the vertical C- type profile width (e.g. for the Nida C75 profile - glass wool thickness 75 mm).
- The bulk density of the insulation material is from 12 to 14.5 kg/m³, depending on the wall type.
- It is acceptable to change the internal stiffening board Nida Ogień Plus Typ DF for boards of the following types: DFH2, DFR, DFH11R, DEFH11R.

AMOUNT OF MATERIALS UTILISED PER 1M² OF ANTI-BURGLAR WALLS, ACCORDING TO NIDA ŚCIANA SYSTEM

Material name	UM	System type Nida Ściana					
		168B50/ Ogień Plus +Resistex	168BB50/ Ogień Plus +Resistex	218B75/ Ogień Plus +Resistex	218BB75/ Ogień Plus +Resistex	268B100/ Ogień Plus +Resistex	268BB100/ Ogień Plus +Resistex
Consumption of material per 1m ²							
Nida Ogień Plus 12,5 mm plasterboard	m ²	3,0	3,0	3,0	3,0	3,0	3,0
Resistex 12,5 mm plasterboard	m ²	2,0	2,0	2,0	2,0	2,0	2,0
Nida C50 profile	mb	3,6	7,2	-	-	-	-
Nida C75 profile	mb	-	-	3,6	7,2	-	-
Nida C100 profile	mb	-	-	-	-	3,6	7,2
Nida U50 profile	mb	1,4	1,4	-	-	-	-
Nida U75 profile	mb	-	-	1,4	1,4	-	-
Nida U100 profile	mb	-	-	-	-	1,4	1,4
Anchoring element ⁶⁾	szt.	3,6	3,6	3,6	3,6	3,6	3,6
FLAT HEAD 4,2x13 mm self-drilling screw for 1 mm sheet metal	szt.	-	12,0	-	12,0	-	12,0
Nida 3.5x25 mm sheet metal screws	szt.	16,0	16,0	16,0	16,0	16,0	16,0
Nida 3.5x45 mm sheet metal screws	szt.	24,0	24,0	24,0	24,0	24,0	24,0
Nida reinforcement tape	mb	2,8	2,8	2,8	2,8	2,8	2,8
Acoustic insulation tape Nida	mb	2,4	2,4	2,4	2,4	2,4	2,4
Nida Start jointing compound ⁷⁾	kg	1,2	1,2	1,2	1,2	1,2	1,2
Nida Finish jointing compound	kg	0,2	0,2	0,2	0,2	0,2	0,2
Mineral wool ⁸⁾	m ²	2,0	2,0	2,0	2,0	2,0	2,0

- The type of the anchoring element should be selected individually adequately for the substrate type and the total mass of the encasement.
- Alternatively, apply the Nida Max gypsum compound.
- Application acc. to the requirements. When the utilised insulation material thickness and/or bulk density is different from the stated in the technical specification (Nida Drywall Encasement System - catalogue of solutions), contact with an appropriate Siniat technical advisor is required.
- The standards concerning the amount of utilised material do not cover the loss of the material.

nida Ściana



Fire resistance class:
(R)EI120



Burglar resistance class:
RC2



Maximum acoustic insulation:
69 dB



Maximum encasement height:
6500 mm



Number of related document:
EN 1627:2021

Burglar resistance certificate:
Nr 00697/23

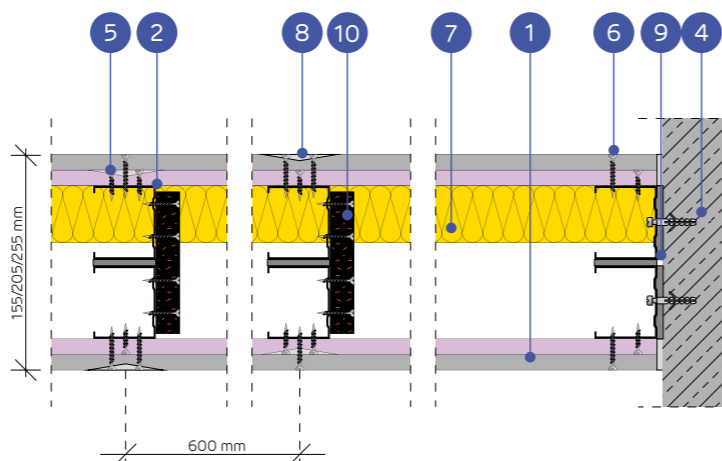
SYSTEMS:

**155B50-PWA; 155BB50-PWA; 205B75-PWA; 205BB75-PWA;
255B100-PWA; 255BB100-PWA**



MATERIALS:

- Nida Ogień Plus plasterboard (internal layer) + Resistex (external layer)
- Nida C50 / C75 / C100 profile
- Nida U50 / U75 / U100 profile
- Anchoring element
- Nida 3,5 x 25 mm sheet metal screws
- Nida 3,5 x 45 mm sheet metal screws
- Insulation material mineral wool
- Joint between plasterboards filled with Nida gypsum compound with Nida reinforcement tape
- Nida acoustic insulation tape width 50/70/95 mm
- Nida PWA vibro-acoustic lacing



ANTI-BURGLAR PARTITION WALL SYSTEM BASED ON DOUBLE-ROW SINGLE AND DOUBLED NIDA C50, C75 AND C100 STRUCTURE (HYBRID WALLS - OGIEŃ PLUS/RESISTEX NIDA PWA)

TECHNICAL PARAMETERS

System type Nida Ściana	Frame structure	Sheathing of plasterboards		Insulation material (mineral wool)				Maximum wall height - h ¹⁾ [mm]	Acoustic insulation ⁵⁾			Encasement weight 1 m ² [kg]	Burglar resistance class ²⁾	Fire resist. class ³⁾ [min]	Utilisation category ETAG 003 class	Special system
		Nida	Thickness [mm]	Minimum thickness [mm]	Density [kg/m ³]	Fire resistance	Within fire resistance		R _w [dB]	R _{a1} [dB]	R _{a2} [dB]					
155B50-PWA/OgieńPlus + Resistex	C50+C50	Ogień Plus + Resistex ⁴⁾	12,5+12,5	2x50	14,5	-	-	5500	62	58	51	51,0	RC2	(R)EI120	IV	●
155BB50-PWA/OgieńPlus + Resistex	2xC50+2xC50	Ogień Plus + Resistex ⁴⁾	12,5+12,5	2x50	14,5	-	-	6330	-	-	-	54,0	RC2	(R)EI120	IV	●
205B75-PWA/OgieńPlus + Resistex	C75+C75	Ogień Plus + Resistex ⁴⁾	12,5+12,5	2x75	12	-	-	6200	66	63	55	52,0	RC2	(R)EI120	IV	●
205BB75-PWA/OgieńPlus + Resistex	2xC75+2xC75	Ogień Plus + Resistex ⁴⁾	12,5+12,5	2x75	12	-	-	6500	-	-	-	55,0	RC2	(R)EI120	IV	●
255B100-PWA/OgieńPlus + Resistex	C100+C100	Ogień Plus + Resistex ⁴⁾	12,5+12,5	2x100	12	-	-	6500	69	66	59	53,0	RC2	(R)EI120	IV	●
255BB100-PWA/OgieńPlus + Resistex	2xC100+2xC100	Ogień Plus + Resistex ⁴⁾	12,5+12,5	2x100	12	-	-	6500	-	-	-	56,0	RC2	(R)EI120	IV	●

¹⁾ The maximum wall height acc. to 1060/12/R48NK ITB technical opinion. For higher requirements related to the maximum height it is acceptable to reduce the spacing of the load-bearing structure to 400 mm and 300 mm.
²⁾ Klasa odporności na włamanie zgodnie z normą EN 1627:2021. System posiada certyfikat odporności na włamanie nr 00697/23, wydany przez jednostkę certyfikującą CERTEST.
³⁾ The fire resistance class according to standard PN-EN 13501-2:2016-07.
⁴⁾ The Resistex board type DFH2IR can be utilised in increased relative humidity environments up to 85% (up to 10 hour per day), e.g. bathrooms, kitchens, etc. Warunkiem stosowania systemu w warunkach o podwyższonej wilgotności powietrza jest zamiana poszycia wewnętrznego z płyty Nida Ogień Plus na płyty min. typu DFH2 np. Nida Woda Ogień Plus.
⁵⁾ The acoustic insulation was estimated on the basis of the INSUL simulation program.
 • The firestop and anti-burglar wall systems constructed according to the Siniat technology act as the firestop partitions, with fire exposition from both their sides. It is acceptable to provide the anti-burglar walls constructed according to the Siniat technology with penetrations, they should be sealed / protected with fire-protective materials, acc. to the indications of the fire protective materials manufacturer, e.g. PROMAT company.
 • The thickness of the insulation material, meeting the acoustic insulation parameters equal to the vertical C- type profile width (e.g. for the Nida C75 profile - glass wool thickness 75 mm).
 • The bulk density of the insulation material is from 12 to 14.5 kg/m³, depending on the wall type.

AMOUNT OF MATERIALS UTILISED PER 1M² OF ANTI-BURGLAR WALLS, ACCORDING TO NIDA ŚCIANA SYSTEM

Material name	UM	System type Nida Ściana					
		155B50-PWA/ OgieńPlus +Resistex	155BB50-PWA/ OgieńPlus +Resistex	205B75-PWA/ OgieńPlus +Resistex	205BB75-PWA/ OgieńPlus +Resistex	255B100-PWA/ OgieńPlus +Resistex	255BB100-PWA/ OgieńPlus +Resistex
		Consumption of material per 1m ²					
Nida Ogień Plus 12,5 mm plasterboard	m ²	2,0	2,0	2,0	2,0	2,0	2,0
Resistex 12,5 mm plasterboard	m ²	2,0	2,0	2,0	2,0	2,0	2,0
Nida C50 profile	mb	3,6	7,2	-	-	-	-
Nida C75 profile	mb	-	-	3,6	7,2	-	-
Nida C100 profile	mb	-	-	-	-	3,6	7,2
Nida U50 profile	mb	1,4	1,4	-	-	-	-
Nida U75 profile	mb	-	-	1,4	1,4	-	-
Nida U100 profile	mb	-	-	-	-	1,4	1,4
PWA50 vibro-acoustic lacing	szt.	1,1	1,1	-	-	-	-
PWA75 vibro-acoustic lacing	szt.	-	-	1,1	1,1	-	-
PWA100 vibro-acoustic lacing	szt.	-	-	-	-	1,1	1,1
Anchoring element ⁶⁾	szt.	3,6	3,6	3,6	3,6	3,6	3,6
Nida 3.5x25 mm sheet metal screws	szt.	8,0	8,0	8,0	8,0	8,0	8,0
Nida 3.5x45 mm sheet metal screws	szt.	31,0	31,0	31,0	31,0	31,0	31,0
Nida reinforcement tape	mb	2,8	2,8	2,8	2,8	2,8	2,8
Acoustic insulation tape	mb	2,4	2,4	2,4	2,4	2,4	2,4
Nida Start jointing compound ⁷⁾	kg	1,2	1,2	1,2	1,2	1,2	1,2
Nida Finish jointing compound	kg	0,2	0,2	0,2	0,2	0,2	0,2
Mineral wool ⁸⁾	m ²	2,0	2,0	2,0	2,0	2,0	2,0

⁶⁾ The type of the anchoring element should be selected individually adequately for the substrate type and the total mass of the encasement.
⁷⁾ Alternatively, apply the Nida Max gypsum compound.
⁸⁾ Application acc. to the requirements. When the utilised insulation material thickness and/or bulk density is different from the stated in the technical specification (Nida Drywall Encasement System - catalogue of solutions), contact with an appropriate Siniat technical advisor is required.
 The standards concerning the amount of utilised material do not cover the loss of the material.

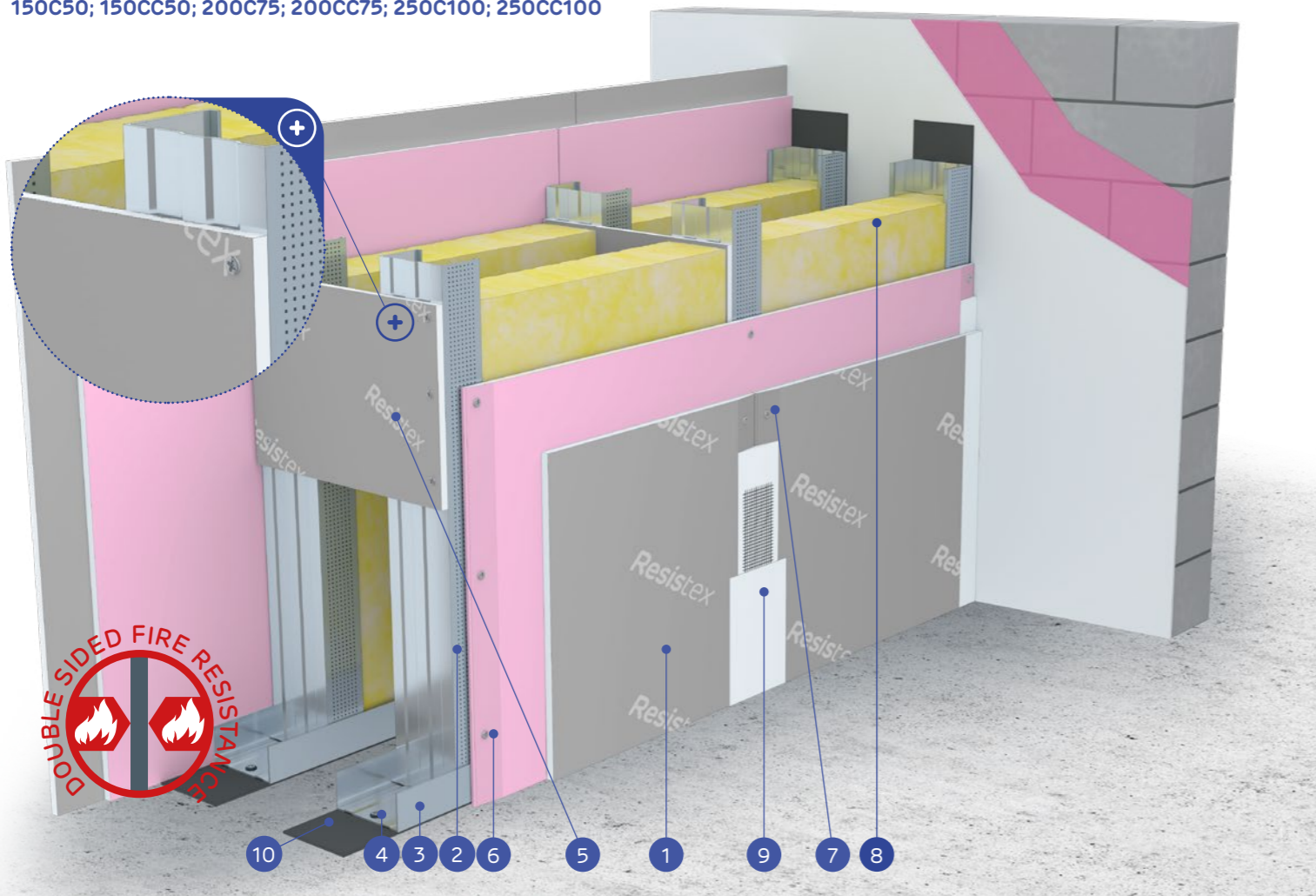


nida Ściana

Fire resistance class:
(R)EI120Burglar resistance class:
RC2Maximum acoustic insulation:
62 dBMaximum encasement height:
6500 mmNumber of related document:
EN 1627:2021Burglar resistance certificate:
Nr 00697/23

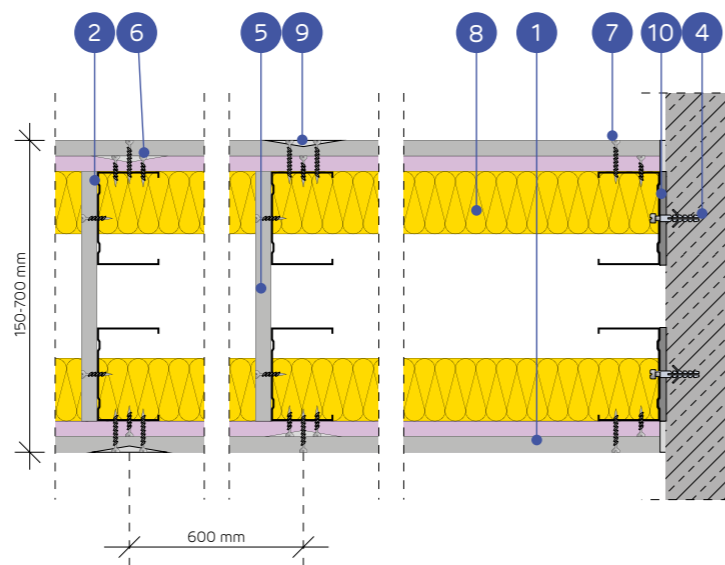
SYSTEMS:

150C50; 150CC50; 200C75; 200CC75; 250C100; 250CC100



MATERIALS:

- Nida Ogień Plus plasterboard (internal layer) + Resistex (external layer)
- Nida C50 / C75 / C100 profile
- Nida U50 / U75 / U100 profile
- Anchoring element
- Lacing of Resistex board, min. height 300 mm, min. 2 pcs. per post (max. spacing 1500 mm)
- Nida 3,5 x 25 mm sheet metal screws
- Nida 3,5 x 45 mm sheet metal screws
- Insulation material mineral wool
- Joint between plasterboards filled with Nida gypsum compound with Nida reinforcement tape
- Nida acoustic insulation tape width 50/70/95 mm



ANTI-BURGLAR PARTITION WALL SYSTEM BASED ON DOUBLE-ROW SINGLE AND DOUBLED NIDA C50, C75 AND C100 STRUCTURE (HYBRID WALLS FOR INSTALLATIONS - OGIEŃ PLUS/RESISTEX)

TECHNICAL PARAMETERS

System type Nida Ściana	Frame structure	Sheathing of plasterboards		Insulation material (mineral wool)				Maximum wall height - h ¹⁾ [mm]	Acoustic insulation ⁵⁾			Encase ment weight 1 m ² [kg]	Burglar resistance class ²⁾	Fire resist. class ³⁾ [min]	Utilisation category ETAG 003 class	Special system	
		Nida	Nida	Thickness [mm]	Acoustic insulation		Fire resistance		R _w [dB]	R _{w1} [dB]	R _{w2} [dB]						
					Minimum thickness [mm]	Density [kg/m ³]	Minimum thickness [mm]										Density [kg/m ³]
150C50/Ogień Plus + Resistex	C50+C50	Ogień Plus + Resistex ⁴⁾	12,5+12,5	2x50	12	-	-	4500	60	58	54	51,0	RC2	(R)EI120	IV	●	
150CC50/Ogień Plus + Resistex	2xC50+2xC50	Ogień Plus + Resistex ⁴⁾	12,5+12,5	2x50	12	-	-	4750	-	-	-	54,0	RC2	(R)EI120	IV	●	
200C75/Ogień Plus + Resistex	C75+C75	Ogień Plus + Resistex ⁴⁾	12,5+12,5	2x75	12	-	-	6000	62	60	57	52,0	RC2	(R)EI120	IV	●	
200CC75/Ogień Plus + Resistex	2xC75+2xC75	Ogień Plus + Resistex ⁴⁾	12,5+12,5	2x75	12	-	-	6500	-	-	-	55,0	RC2	(R)EI120	IV	●	
250C100/Ogień Plus + Resistex	C100+C100	Ogień Plus + Resistex ⁴⁾	12,5+12,5	2x100	12	-	-	6500	62	60	57	53,0	RC2	(R)EI120	IV	●	
250CC100/Ogień Plus + Resistex	2xC100+2xC100	Ogień Plus + Resistex ⁴⁾	12,5+12,5	2x100	12	-	-	6500	-	-	-	56,0	RC2	(R)EI120	IV	●	

¹⁾ The maximum wall height acc. to 1060/12/R48NK ITB technical opinion. For higher requirements related to the maximum height it is acceptable to reduce the spacing of the load-bearing structure to 400 mm and 300 mm.

²⁾ Klasa odporności na włamanie zgodnie z normą EN 1627:2021. System posiada certyfikat odporności na włamanie nr 00697/23, wydany przez jednostkę certyfikującą CERTEST.

³⁾ The fire resistance class according to standard PN-EN 13501-2:2016-07.

⁴⁾ The Resistex board type DFH2IR can be utilised in increased relative humidity environments up to 85% (up to 10 hour per day), e.g. bathrooms, kitchens, etc. Warunkiem stosowania systemu w warunkach o podwyższonej wilgotności powietrza jest zamiana poszycia wewnętrznego z płyty Nida Ogień Plus na płyty min. typu DFH2 np. Nida Woda Ogień Plus.

⁵⁾ The acoustic insulation was estimated on the basis of the INSUL simulation program.

• The firestop and anti-burglar wall systems constructed according to the Siniat technology act as the firestop partitions, with fire exposition from both their sides. It is acceptable to provide the anti-burglar walls constructed according to the Siniat technology with penetrations, they should be sealed / protected with fire-protective materials, acc. to the indications of the fire protective materials manufacturer, e.g. PROMAT company.

• The thickness of the insulation material, meeting the acoustic insulation parameters equal to the vertical C- type profile width (e.g. for the Nida C75 profile - glass wool thickness 75 mm).

• The bulk density of the insulation material is 12 kg/m³, depending on the wall type.

AMOUNT OF MATERIALS UTILISED PER 1M² OF ANTI-BURGLAR WALLS, ACCORDING TO NIDA ŚCIANA SYSTEM

Material name	UM	System type Nida Ściana					
		150C50/ Ogień Plus +Resistex	150CC50/ Ogień Plus +Resistex	200C75/ Ogień Plus +Resistex	200CC75/ Ogień Plus +Resistex	250C100/ Ogień Plus +Resistex	250CC100/ Ogień Plus +Resistex
		Consumption of material per 1m ²					
Nida Ogień Plus 12,5 mm plasterboard	m ²	2,0	2,0	2,0	2,0	2,0	2,0
Resistex 12,5 mm plasterboard	m ²	2,0	2,0	2,0	2,0	2,0	2,0
Nida C50 profile	mb	3,6	7,2	-	-	-	-
Nida C75 profile	mb	-	-	3,6	7,2	-	-
Nida C100 profile	mb	-	-	-	-	3,6	7,2
Nida U50 profile	mb	1,4	1,4	-	-	-	-
Nida U75 profile	mb	-	-	1,4	1,4	-	-
Nida U100 profile	mb	-	-	-	-	1,4	1,4
Anchoring element ⁶⁾	szt.	3,6	3,6	3,6	3,6	3,6	3,6
Nida 3.5x25 mm sheet metal screws	szt.	14,0	14,0	14,0	14,0	14,0	14,0
Nida 3.5x45 mm sheet metal screws	szt.	24,0	24,0	24,0	24,0	24,0	24,0
Nida reinforcement tape	mb	2,8	2,8	2,8	2,8	2,8	2,8
Acoustic insulation tape	mb	2,2	2,2	2,2	2,2	2,2	2,2
Nida Start jointing compound ⁷⁾	kg	1,2	1,2	1,2	1,2	1,2	1,2
Nida Finish jointing compound	kg	0,2	0,2	0,2	0,2	0,2	0,2
Mineral wool ⁸⁾	m ²	2,0	2,0	2,0	2,0	2,0	2,0

⁶⁾ The type of the anchoring element should be selected individually adequately for the substrate type and the total mass of the encasement.

⁷⁾ Alternatively, apply the Nida Max gypsum compound.

⁸⁾ Application acc. to the requirements. When the utilised insulation material thickness and/or bulk density is different from the stated in the technical specification (Nida Drywall Encasement System - catalogue of solutions), contact with an appropriate Siniat technical advisor is required.

The standards concerning the amount of utilised material do not cover the loss of the material.

nida Ściana

Fire resistance class:
(R)EI120Burglar resistance class:
RC2Maximum acoustic insulation:
63 dBMaximum encasement height:
6500 mmNumber of related document:
EN 1627:2021Burglar resistance certificate:
Nr 00694/23

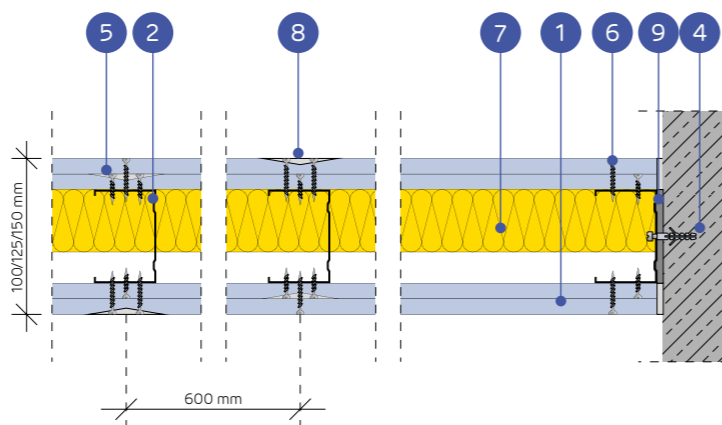
SYSTEMS:

100A50; 100AA50; 125A75; 125AA75; 150A100; 150AA100



MATERIALS:

- Nida Cicha plasterboards
- Nida C50 / C75 / C100 profile
- Nida U50 / U75 / U100 profile
- Anchoring element
- FixDens 4,2 x 25 mm screws
- FixDens 4,2 x 42 mm screws
- Insulation material mineral wool
- Joint between plasterboards filled with Nida gypsum compound with Nida reinforcement tape
- Nida acoustic insulation tape width 50/70/95 mm



ANTI-BURGLAR PARTITION WALL SYSTEM BASED ON SINGLE AND DOUBLED NIDA C50, C75 AND C100 STRUCTURE

TECHNICAL PARAMETERS

System type Nida Ściana	Frame structure	Sheathing of plasterboards		Insulation material (mineral wool)				Maximum wall height - h ¹⁾ [mm]	Acoustic insulation			Encase- ment weight 1 m ² [kg]	Burglar resistan- ce class ²⁾	Fire resist. class ³⁾ [min]	Utilisation category ETAG 003 class	Special system	
				Acoustic insulation		Fire resistance			Within fire resistance	R _w [dB]	R _{A1} [dB]						R _{A2} [dB]
				Minimum thickness [mm]	Density [kg/m ³]	Minimum thickness [mm]	Density [kg/m ³]										
100A50/Cicha	C50	Cicha ⁴⁾	2x12,5	50	14,5	-	-	4500	60	57	52	56,0	RC2	(R)EI120	IV	●	
100AA50/Cicha	2xC50	Cicha ⁴⁾	2x12,5	50	14,5	-	-	5500	-	-	-	57,0	RC2	(R)EI120	IV	●	
125A75/Cicha	C75	Cicha ⁴⁾	2x12,5	75	14,5	-	-	5500	61	60	55	56,0	RC2	(R)EI120	IV	●	
125AA75/Cicha	2xC75	Cicha ⁴⁾	2x12,5	75	14,5	-	-	6500	-	-	-	58,0	RC2	(R)EI120	IV	●	
150A100/Cicha	C100	Cicha ⁴⁾	2x12,5	100	14,5	-	-	6500	63	61	57	57,0	RC2	(R)EI120	IV	●	
150AA100/Cicha	2xC100	Cicha ⁴⁾	2x12,5	100	14,5	-	-	6500	-	-	-	58,0	RC2	(R)EI120	IV	●	

¹⁾ The maximum wall height acc. to O1060/11/R12NK ITB technical opinion. For higher requirements related to the maximum height it is acceptable to reduce the spacing of the load-bearing structure to 400 mm and 300 mm.

²⁾ Klasa odporności na włamanie zgodnie z normą EN 1627:2021. System posiada certyfikat odporności na włamanie nr 00694/23, wydany przez jednostkę certyfikującą CERTEST.

³⁾ The fire resistance class according to standard PN-EN 13501-2:2016-07.

⁴⁾ Alternatywnie stosować płyty Nida Ciężka typ DFH11R.

• The firestop and anti-burglar wall systems constructed according to the Siniat technology act as the firestop partitions, with fire exposition from both their sides. It is acceptable to provide the anti-burglar walls constructed according to the Siniat technology with penetrations, they should be sealed / protected with fire-protective materials, acc. to the indications of the fire protective materials manufacturer, e.g. PROMAT company.

• The thickness of the insulation material, meeting the acoustic insulation parameters equal to the vertical C- type profile width (e.g. for the Nida C75 profile - glass wool thickness 75 mm).

• The bulk density of the insulation material is 14,5 kg/m³, depending on the wall type.

AMOUNT OF MATERIALS UTILISED PER 1M² OF ANTI-BURGLAR WALLS, ACCORDING TO NIDA ŚCIANA SYSTEM

Material name	UM	System type Nida Ściana					
		100A50/Cicha	100AA50/Cicha	125A75/Cicha	125AA75/Cicha	150A100/Cicha	150AA100/Cicha
		Consumption of material per 1m ²					
Nida Cicha 12,5 mm plasterboard	m ²	4,0	4,0	4,0	4,0	4,0	4,0
Nida C50 profile	mb	1,8	3,6	-	-	-	-
Nida C75 profile	mb	-	-	1,8	3,6	-	-
Nida C100 profile	mb	-	-	-	-	1,8	3,6
Nida U50 profile	mb	0,7	0,7	-	-	-	-
Nida U75 profile	mb	-	-	0,7	0,7	-	-
Nida U100 profile	mb	-	-	-	-	0,7	0,7
Anchoring element ⁵⁾	szt.	1,8	1,8	1,8	1,8	1,8	1,8
FLAT HEAD 4,2x13 mm self-drilling screws for 1 mm sheet metal	szt.	-	6,0	-	6,0	-	6,0
FixDens 4,2 x 25 mm screws	szt.	8,0	8,0	8,0	8,0	8,0	8,0
FixDens 4,2 x 42 mm screws	szt.	24,0	24,0	24,0	24,0	24,0	24,0
Nida reinforcement tape	mb	2,8	2,8	2,8	2,8	2,8	2,8
Acoustic insulation tape	mb	0,6	0,6	0,6	0,6	0,6	0,6
Nida Start jointing compound ⁶⁾	kg	1,2	1,2	1,2	1,2	1,2	1,2
Nida Finish jointing compound	kg	0,2	0,2	0,2	0,2	0,2	0,2
Mineral wool ⁷⁾	m ²	1,0	1,0	1,0	1,0	1,0	1,0

⁵⁾ The type of the anchoring element should be selected individually adequately for the substrate type and the total mass of the encasement.

⁶⁾ Alternatively, apply the Nida Max gypsum compound.

⁷⁾ Application acc. to the requirements. When the utilised insulation material thickness and/or bulk density is different from the stated in the technical specification (Nida Drywall Encasement System - catalogue of solutions), contact with an appropriate Siniat technical advisor is required.

The standards concerning the amount of utilised material do not cover the loss of the material.

nida Ściana



Fire resistance class:
(R)EI120



Burglar resistance class:
RC2



Maximum acoustic insulation:
70 dB



Maximum encasement height:
6500 mm



Number of related document:
EN 1627:2021

Burglar resistance certificate:
Nr 00694/23

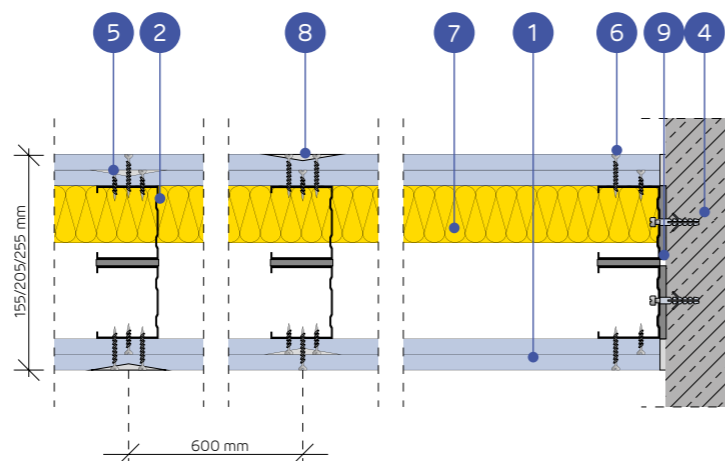
SYSTEMS:

155B50; 155BB50; 205B75; 205BB75; 255B100; 255BB100



MATERIALS:

1. Nida Cicha plasterboards
2. Nida C50 / C75 / C100 profile
3. Nida U50 / U75 / U100 profile
4. Anchoring element
5. FixDens 4,2 x 25 mm screws
6. FixDens 4,2 x 42 mm screws
7. Insulation material mineral wool
8. Joint between plasterboards filled with Nida gypsum compound with Nida reinforcement tape
9. Nida acoustic insulation tape width 50/70/95 mm



ANTI-BURGLAR PARTITION WALL SYSTEM BASED ON DOUBLE-ROW SINGLE AND DOUBLED NIDA C50, C75 AND C100 STRUCTURE

TECHNICAL PARAMETERS

System type Nida Ściana	Frame structure	Sheathing of plasterboards		Insulation material (mineral wool)				Maximum wall height - h ¹⁾	Acoustic insulation			Encasement weight 1 m ²	Burglar resistance class ²⁾	Fire resist. class ³⁾	Utilisation category	Special system	
				Acoustic insulation		Fire resistance			Within fire resistance	R _w [dB]	R _{A1} [dB]						R _{A2} [dB]
				Minimum thickness [mm]	Density [kg/m ³]	Minimum thickness [mm]	Density [kg/m ³]										
155B50/Cicha	C50+C50	Cicha ⁴⁾	2x12,5	2x50	14,5	-	-	4500	69	67	63	60,0	RC2	(R)EI120	IV	●	
155BB50/Cicha	2xC50+2xC50	Cicha ⁴⁾	2x12,5	2x50	14,5	-	-	5500	-	-	-	62,0	RC2	(R)EI120	IV	●	
205B75/Cicha	C75+C75	Cicha ⁴⁾	2x12,5	2x75	14,5	-	-	6000	69	67	63	60,0	RC2	(R)EI120	IV	●	
205BB75/Cicha	2xC75+2xC75	Cicha ⁴⁾	2x12,5	2x75	14,5	-	-	6500	-	-	-	63,0	RC2	(R)EI120	IV	●	
255B100/Cicha	C100+C100	Cicha ⁴⁾	2x12,5	2x100	14,5	-	-	6500	70	69	64	61,0	RC2	(R)EI120	IV	●	
255BB100/Cicha	2xC100+2xC100	Cicha ⁴⁾	2x12,5	2x100	14,5	-	-	6500	-	-	-	64,0	RC2	(R)EI120	IV	●	

¹⁾ The maximum wall height acc. to 1060/12/R48NK ITB technical opinion. For higher requirements related to the maximum height it is acceptable to reduce the spacing of the load-bearing structure to 400 mm and 300 mm.
²⁾ Klasa odporności na włamanie zgodnie z normą EN 1627:2021. System posiada certyfikat odporności na włamanie nr 00694/23, wydany przez jednostkę certyfikującą CERTEST.
³⁾ The fire resistance class according to standard PN-EN 13501-2:2016-07.
⁴⁾ Alternatywnie stosować płyty Nida Ciężka typ DFH1IR.
IMPORTANT! During the designing process of the Type B walls, when dealing with the maximum acceptable wall height it is advisable to consult a Siniat Technical Advisor in order to verify the requirements considering stiffness of a partition (this does not include the wall systems with the Nida PWA vibro-acoustic lacing).
 • The firestop and anti-burglar wall systems constructed according to the Siniat technology act as the firestop partitions, with fire exposition from both their sides. It is acceptable to provide the anti-burglar walls constructed according to the Siniat technology with penetrations, they should be sealed / protected with fire-protective materials, acc. to the indications of the fire protective materials manufacturer, e.g. PROMAT company.
 • The thickness of the insulation material, meeting the acoustic insulation parameters equal to the vertical C- type profile width (e.g. for the Nida C75 profile - glass wool thickness 75 mm).
 • The bulk density of the insulation material is 14,5 kg/m³, depending on the wall type.

AMOUNT OF MATERIALS UTILISED PER 1M² OF ANTI-BURGLAR WALLS, ACCORDING TO NIDA ŚCIANA SYSTEM

Material name	UM	System type Nida Ściana					
		155B50/Cicha	155BB50/Cicha	205B75/Cicha	205BB75/Cicha	255B100/Cicha	255BB100/Cicha
		Consumption of material per 1m ²					
Nida Cicha 12,5 mm plasterboard	m ²	4,0	4,0	4,0	4,0	4,0	4,0
Nida C50 profile	mb	3,6	7,2	-	-	-	-
Nida C75 profile	mb	-	-	3,6	7,2	-	-
Nida C100 profile	mb	-	-	-	-	3,6	7,2
Nida U50 profile	mb	1,4	1,4	-	-	-	-
Nida U75 profile	mb	-	-	1,4	1,4	-	-
Nida U100 profile	mb	-	-	-	-	1,4	1,4
Anchoring element ⁵⁾	szt.	3,6	3,6	3,6	3,6	3,6	3,6
FLAT HEAD 4,2x13 mm self-drilling screws for 1 mm sheet metal	szt.	-	12,0	-	12,0	-	12,0
FixDens 4,2 x 25 mm screws	szt.	8,0	8,0	8,0	8,0	8,0	8,0
FixDens 4,2 x 42 mm screws	szt.	24,0	24,0	24,0	24,0	24,0	24,0
Nida reinforcement tape	mb	2,8	2,8	2,8	2,8	2,8	2,8
Acoustic insulation tape	mb	2,4	2,4	2,4	2,4	2,4	2,4
Nida Start jointing compound ⁶⁾	kg	1,2	1,2	1,2	1,2	1,2	1,2
Nida Finish jointing compound	kg	0,2	0,2	0,2	0,2	0,2	0,2
Mineral wool ⁷⁾	m ²	2,0	2,0	2,0	2,0	2,0	2,0

⁵⁾ The type of the anchoring element should be selected individually adequately for the substrate type and the total mass of the encasement.
⁶⁾ Alternatively, apply the Nida Max gypsum compound.
⁷⁾ Application acc. to the requirements. When the utilised insulation material thickness and/or bulk density is different from the stated in the technical specification (Nida Drywall Encasement System - catalogue of solutions), contact with an appropriate Siniat technical advisor is required.
 The standards concerning the amount of utilised material do not cover the loss of the material.

nida Ściana



Fire resistance class:
(R)EI120



Burglar resistance class:
RC2



Maximum acoustic insulation:
70 dB



Maximum encasement height:
6500 mm



Number of related document:
EN 1627:2021

Burglar resistance certificate:
Nr 00694/23

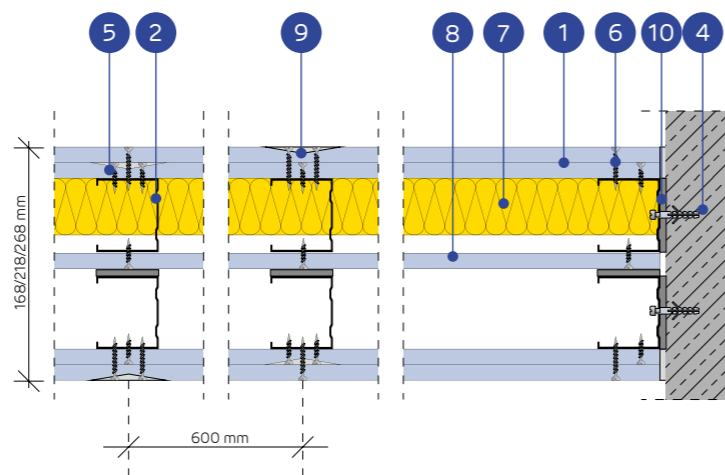
SYSTEMS:
168B50; 168BB50; 218B75; 218BB75; 268B100; 268BB100



MATERIALS:

1. Nida Cicha plasterboards
2. Nida C50 / C75 / C100 profile
3. Nida U50 / U75 / U100 profile
4. Anchoring element
5. FixDens 4,2 x 25 mm screws
6. FixDens 4,2 x 42 mm screws
7. Insulation material mineral wool
8. Nida Cicha stiffening board *
9. Joint between plasterboards filled with Nida gypsum compound with Nida reinforcement tape
10. Nida acoustic insulation tape width 50/70/95 mm

* It is acceptable to change for boards of the following types: DEFH1IR



THE ACOUSTIC ANTI-BURGLAR PARTITION WALL SYSTEM BASED ON DOUBLE-ROW, SINGLE OR DOUBLED STRUCTURES OF THE NIDA C50, C75, C100 PROFILES WITH INTERNAL STIFFENING BOARD

TECHNICAL PARAMETERS

System type Nida Ściana	Frame structure	Sheathing of plasterboards		Insulation material (mineral wool)				Maximum wall height - h ¹⁾	Acoustic insulation ⁵⁾			Encasement weight 1 m ²	Burglar resistance class ²⁾	Fire resist. class ³⁾	Utilisation category	Special system
				Acoustic insulation		Fire resistance			Within fire resistance	R _w [dB]	R _{w1} [dB]					
		Nida	Nida	Thickness [mm]	Minimum thickness [mm]	Density [kg/m ³]	Minimum thickness [mm]	Density [kg/m ³]				[mm]	R _w [dB]	R _{w1} [dB]	R _{w2} [dB]	[kg]
168B50/Cicha	C50+C50	Cicha ⁴⁾	2x12,5	2x50	14,5	-	-	4500	69	67	63	73,0	RC2	(R)EI120	IV	●
168BB50/Cicha	2xC50+2xC50	Cicha ⁴⁾	2x12,5	2x50	14,5	-	-	5500	-	-	-	75,0	RC2	(R)EI120	IV	●
218B75/Cicha	C75+C75	Cicha ⁴⁾	2x12,5	2x75	14,5	-	-	6000	69	67	63	74,0	RC2	(R)EI120	IV	●
218BB75/Cicha	2xC75+2xC75	Cicha ⁴⁾	2x12,5	2x75	14,5	-	-	6500	-	-	-	76,0	RC2	(R)EI120	IV	●
268B100/Cicha	C100+C100	Cicha ⁴⁾	2x12,5	2x75	14,5	-	-	6500	70	69	64	75,0	RC2	(R)EI120	IV	●
268BB100/Cicha	2xC100+2xC100	Cicha ⁴⁾	2x12,5	2x75	14,5	-	-	6500	-	-	-	77,0	RC2	(R)EI120	IV	●

- ¹⁾ The maximum wall height acc. to 1060/12/R48NK ITB technical opinion. For higher requirements related to the maximum height it is acceptable to reduce the spacing of the load-bearing structure to 400 mm and 300 mm.
- ²⁾ Klasa odporności na włamanie zgodnie z normą EN 1627:2021. System posiada certyfikat odporności na włamanie nr 00694/23, wydany przez jednostkę certyfikującą CERTEST.
- ³⁾ The fire resistance class according to standard PN-EN 13501-2:2016-07.
- ⁴⁾ Alternatywnie stosować płyty Nida Ciężka typ DFH1IR.
- The firestop and anti-burglar wall systems constructed according to the Siniat technology act as the firestop partitions, with fire exposition from both their sides. It is acceptable to provide the anti-burglar walls constructed according to the Siniat technology with penetrations, they should be sealed / protected with fire-protective materials, acc. to the indications of the fire protective materials manufacturer, e.g. PROMAT company.
- The thickness of the insulation material, meeting the acoustic insulation parameters equal to the vertical C- type profile width (e.g. for the Nida C75 profile - glass wool thickness 75 mm).
- The bulk density of the insulation material is 14,5 kg/m³, depending on the wall type.
- It is acceptable to change the internal stiffening board Nida Cicha Typ DFH1IR for boards of the following types: DEFH1IR.

AMOUNT OF MATERIALS UTILISED PER 1M² OF ANTI-BURGLAR WALLS, ACCORDING TO NIDA ŚCIANA SYSTEM

Material name	UM	System type Nida Ściana					
		168B50/Cicha	168BB50/Cicha	218B75/Cicha	218BB75/Cicha	268B100/Cicha	268BB100/Cicha
		Consumption of material per 1m ²					
Nida Cicha 12,5 mm plasterboard	m ²	5,0	5,0	5,0	5,0	5,0	5,0
Nida C50 profile	mb	3,6	7,2	-	-	-	-
Nida C75 profile	mb	-	-	3,6	7,2	-	-
Nida C100 profile	mb	-	-	-	-	3,6	7,2
Nida U50 profile	mb	1,4	1,4	-	-	-	-
Nida U75 profile	mb	-	-	1,4	1,4	-	-
Nida U100 profile	mb	-	-	-	-	1,4	1,4
Anchoring element ⁵⁾	szt.	3,6	3,6	3,6	3,6	3,6	3,6
FLAT HEAD 4,2x13 mm self-drilling screw for 1 mm sheet metal	szt.	-	12,0	-	12,0	-	12,0
FixDens 4,2 x 25 mm screws	szt.	16,0	16,0	16,0	16,0	16,0	16,0
FixDens 4,2 x 42 mm screws	szt.	24,0	24,0	24,0	24,0	24,0	24,0
Nida reinforcement tape	mb	2,8	2,8	2,8	2,8	2,8	2,8
Acoustic insulation tape Nida	mb	2,4	2,4	2,4	2,4	2,4	2,4
Nida Start jointing compound ⁶⁾	kg	1,2	1,2	1,2	1,2	1,2	1,2
Nida Finish jointing compound	kg	0,2	0,2	0,2	0,2	0,2	0,2
Mineral wool ⁷⁾	m ²	2,0	2,0	2,0	2,0	2,0	2,0

- ⁵⁾ The type of the anchoring element should be selected individually adequately for the substrate type and the total mass of the encasement.
- ⁶⁾ Alternatively, apply the Nida Max gypsum compound.
- ⁷⁾ Application acc. to the requirements. When the utilised insulation material thickness and/or bulk density is different from the stated in the technical specification (Nida Drywall Encasement System - catalogue of solutions), contact with an appropriate Siniat technical advisor is required. The standards concerning the amount of utilised material do not cover the loss of the material.

nida Ściana



Fire resistance class:
(R)EI120



Burglar resistance class:
RC2



Maximum acoustic insulation:
70 dB



Maximum encasement height:
6500 mm



Number of related document:
EN 1627:2021

Burglar resistance certificate:
Nr 00694/23

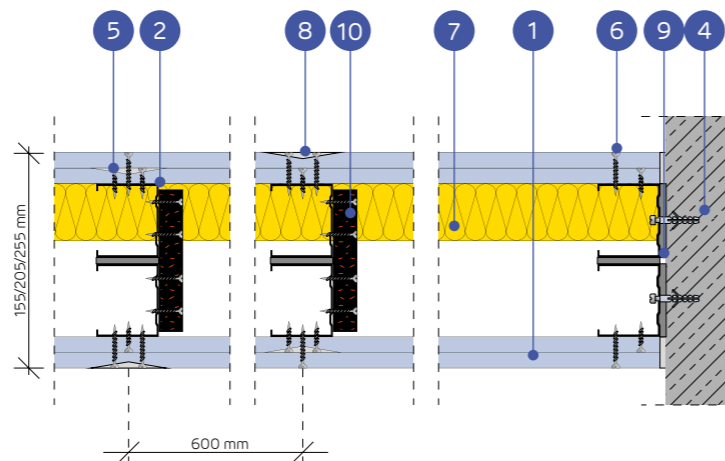
SYSTEMS:

**155B50-PWA; 155BB50-PWA; 205B75-PWA; 205BB75-PWA;
255B100-PWA; 255BB100-PWA**



MATERIALS:

1. Nida Cicha plasterboards
2. Nida C50 / C75 / C100 profile
3. Nida U50 / U75 / U100 profile
4. Anchoring element
5. FixDens 4,2 x 25 mm screws
6. FixDens 4,2 x 42 mm screws
7. Insulation material mineral wool
8. Joint between plasterboards filled with Nida gypsum compound with Nida reinforcement tape
9. Nida acoustic insulation tape width 50/70/95 mm
10. Nida PWA vibro-acoustic lacing



ANTI-BURGLAR PARTITION WALL SYSTEM BASED ON DOUBLE-ROW SINGLE AND DOUBLED NIDA C50, C75 AND C100 STRUCTURE (NIDA PWA)

TECHNICAL PARAMETERS

System type Nida Ściana	Frame structure	Sheathing of plasterboards		Insulation material (mineral wool)				Maximum wall height - h ¹⁾	Acoustic insulation			Encasement weight 1 m ²	Burglar resistance class ²⁾	Fire resist. class ³⁾	Utilisation category	Special system	
				Acoustic insulation		Fire resistance			Within fire resistance	R _w [dB]	R _{a1} [dB]						R _{a2} [dB]
				Thickness [mm]	Minimum density [kg/m ³]	Minimum thickness [mm]	Density [kg/m ³]										
155B50-PWA/Cicha	C50+C50	Cicha ⁴⁾	2x12,5	2x50	14,5	-	-	5500	69	67	63	60,0	RC2	(R)EI120	IV	●	
155BB50-PWA/Cicha	2xC50+2xC50	Cicha ⁴⁾	2x12,5	2x50	14,5	-	-	6330	-	-	-	62,0	RC2	(R)EI120	IV	●	
205B75-PWA/Cicha	C75+C75	Cicha ⁴⁾	2x12,5	2x75	14,5	-	-	6200	69	67	63	60,0	RC2	(R)EI120	IV	●	
205BB75-PWA/Cicha	2xC75+2xC75	Cicha ⁴⁾	2x12,5	2x75	14,5	-	-	6500	-	-	-	63,0	RC2	(R)EI120	IV	●	
255B100-PWA/Cicha	C100+C100	Cicha ⁴⁾	2x12,5	2x100	14,5	-	-	6500	70	69	64	61,0	RC2	(R)EI120	IV	●	
255BB100-PWA/Cicha	2xC100+2xC100	Cicha ⁴⁾	2x12,5	2x100	14,5	-	-	6500	-	-	-	64,0	RC2	(R)EI120	IV	●	

¹⁾ The maximum wall height acc. to 1060/12/R48NK ITB technical opinion. For higher requirements related to the maximum height it is acceptable to reduce the spacing of the load-bearing structure to 400 mm and 300 mm.
²⁾ Klasa odporności na włamanie zgodnie z normą EN 1627:2021. System posiada certyfikat odporności na włamanie nr 00694/23, wydany przez jednostkę certyfikującą CERTEST.
³⁾ The fire resistance class according to standard PN-EN 13501-2:2016-07.
⁴⁾ Alternatywnie stosować płyty Nida Ciężka typ DFH1IR.
 • The firestop and anti-burglar wall systems constructed according to the Siniat technology act as the firestop partitions, with fire exposition from both their sides. It is acceptable to provide the anti-burglar walls constructed according to the Siniat technology with penetrations, they should be sealed / protected with fire-protective materials, acc. to the indications of the fire protective materials manufacturer, e.g. PROMAT company.
 • The thickness of the insulation material, meeting the acoustic insulation parameters equal to the vertical C-type profile width (e.g. for the Nida C75 profile - glass wool thickness 75 mm).
 • The bulk density of the insulation material is 14,5 kg/m³, depending on the wall type.

AMOUNT OF MATERIALS UTILISED PER 1M² OF ANTI-BURGLAR WALLS, ACCORDING TO NIDA ŚCIANA SYSTEM

Material name	UM	System type Nida Ściana					
		155B50-PWA/ Cicha	155BB50-PWA/ Cicha	205B75-PWA/ Cicha	205BB75-PWA/ Cicha	255B100-PWA/ Cicha	255BB100-PWA/ Cicha
		Consumption of material per 1m ²					
Nida Cicha 12,5 mm plasterboard	m ²	4,0	4,0	4,0	4,0	4,0	4,0
Nida C50 profile	mb	3,6	7,2	-	-	-	-
Nida C75 profile	mb	-	-	3,6	7,2	-	-
Nida C100 profile	mb	-	-	-	-	3,6	7,2
Nida U50 profile	mb	1,4	1,4	-	-	-	-
Nida U75 profile	mb	-	-	1,4	1,4	-	-
Nida U100 profile	mb	-	-	-	-	1,4	1,4
PWA50 vibro-acoustic lacing	szt.	1,1	1,1	-	-	-	-
PWA75 vibro-acoustic lacing	szt.	-	-	1,1	1,1	-	-
PWA100 vibro-acoustic lacing	szt.	-	-	-	-	1,1	1,1
Anchoring element ⁵⁾	szt.	3,6	3,6	3,6	3,6	3,6	3,6
FixDens 4,2 x 25 mm screws	szt.	8,0	8,0	8,0	8,0	8,0	8,0
FixDens 4,2 x 42 mm screws	szt.	24,0	24,0	24,0	24,0	24,0	24,0
Nida 3.5x45 mm sheet metal screws	szt.	7,0	7,0	7,0	7,0	7,0	7,0
Nida reinforcement tape	mb	2,8	2,8	2,8	2,8	2,8	2,8
Acoustic insulation tape	mb	2,4	2,4	2,4	2,4	2,4	2,4
Nida Start jointing compound ⁶⁾	kg	1,2	1,2	1,2	1,2	1,2	1,2
Nida Finish jointing compound	kg	0,2	0,2	0,2	0,2	0,2	0,2
Mineral wool ⁷⁾	m ²	2,0	2,0	2,0	2,0	2,0	2,0

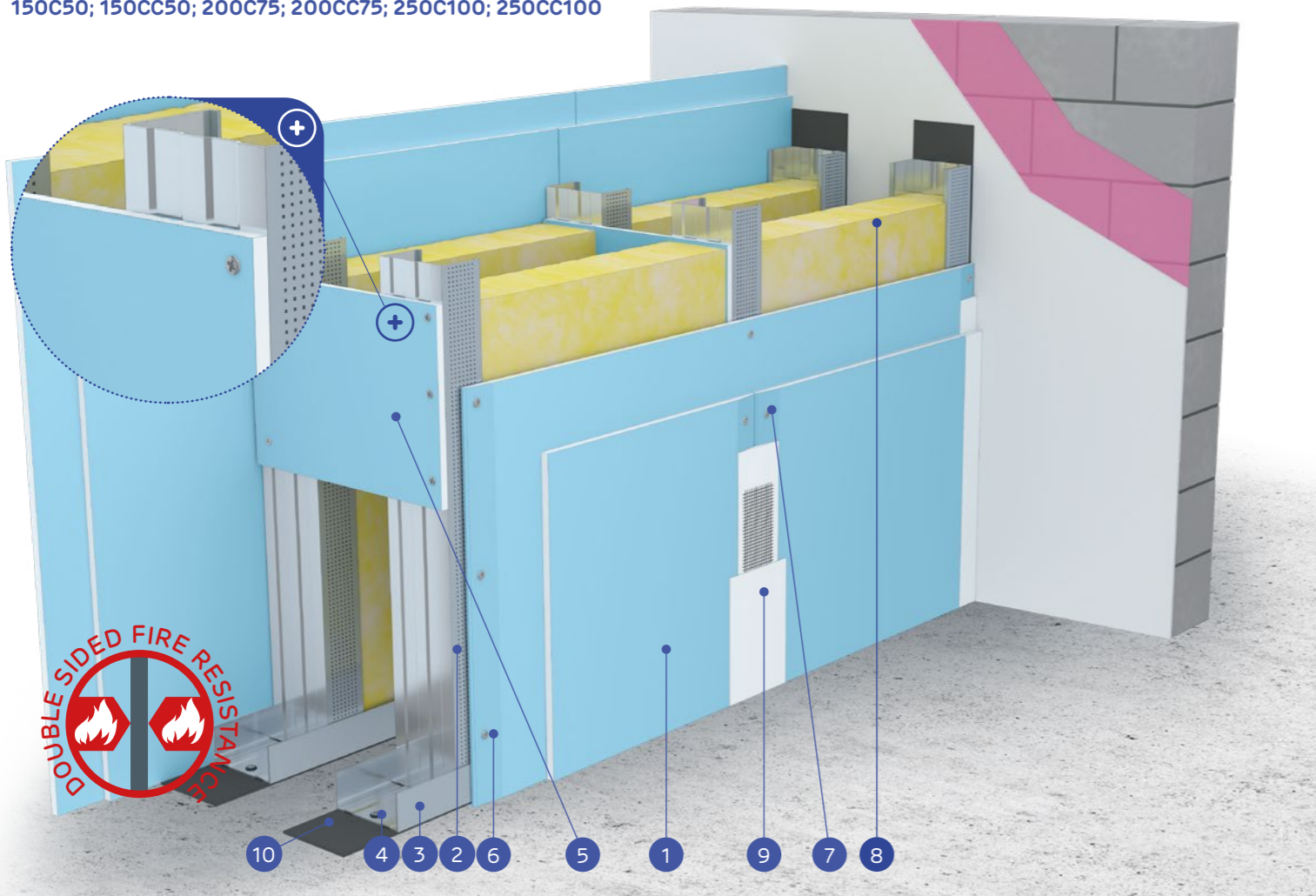
⁵⁾ The type of the anchoring element should be selected individually adequately for the substrate type and the total mass of the encasement.
⁶⁾ Alternatively, apply the Nida Max gypsum compound.
⁷⁾ Application acc. to the requirements. When the utilised insulation material thickness and/or bulk density is different from the stated in the technical specification (Nida Drywall Encasement System - catalogue of solutions), contact with an appropriate Siniat technical advisor is required. The standards concerning the amount of utilised material do not cover the loss of the material.

nida Ściana

Fire resistance class:
(R)EI120Burglar resistance class:
RC2Maximum acoustic insulation:
62 dBMaximum encasement height:
6500 mmNumber of related document:
EN 1627:2021Burglar resistance certificate:
Nr 00694/23

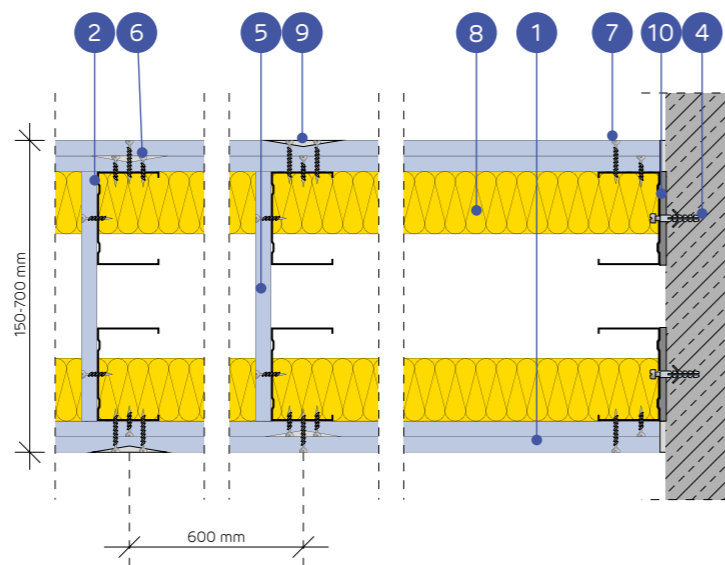
SYSTEMS:

150C50; 150CC50; 200C75; 200CC75; 250C100; 250CC100



MATERIALS:

- Nida Cicha plasterboards
- Nida C50 / C75 / C100 profile
- Nida U50 / U75 / U100 profile
- Anchoring element
- Lacing of Nida Cicha board, min. height 300 mm, min. 2 pcs. per post (max. spacing 1500 mm)
- FixDens 4,2 x 25 mm screws
- FixDens 4,2 x 42 mm screws
- Insulation material mineral wool
- Joint between plasterboards filled with Nida gypsum compound with Nida reinforcement tape
- Nida acoustic insulation tape width 50/70/95 mm



ANTI-BURGLAR PARTITION WALL SYSTEM BASED ON DOUBLE-ROW SINGLE AND DOUBLED NIDA C50, C75 AND C100 STRUCTURE (WALLS FOR INSTALLATIONS)

TECHNICAL PARAMETERS

System type Nida Ściana	Frame structure	Sheathing of plasterboards		Insulation material (mineral wool)				Maximum wall height - h ¹⁾ [mm]	Acoustic insulation			Encasement weight 1 m ² [kg]	Burglar resistance class ²⁾	Fire resist. class ³⁾ [min]	Utilisation category ETAG 003 class	Special system
				Acoustic insulation		Fire resistance			R _w [dB]	R _{A1} [dB]	R _{A2} [dB]					
				Minimum thickness [mm]	Density [kg/m ³]	Minimum thickness [mm]	Density [kg/m ³]									
150C50/Cicha	C50+C50	Cicha ⁴⁾	2x12,5	2x50	14,5	-	-	4500	60	58	54	60,0	RC2	(R)EI120	IV	●
150CC50/Cicha	2xC50+2xC50	Cicha ⁴⁾	2x12,5	2x50	14,5	-	-	4750	-	-	-	62,0	RC2	(R)EI120	IV	●
200C75/Cicha	C75+C75	Cicha ⁴⁾	2x12,5	2x75	14,5	-	-	6000	62	60	57	61,0	RC2	(R)EI120	IV	●
200CC75/Cicha	2xC75+2xC75	Cicha ⁴⁾	2x12,5	2x75	14,5	-	-	6500	-	-	-	63,0	RC2	(R)EI120	IV	●
250C100/Cicha	C100+C100	Cicha ⁴⁾	2x12,5	2x100	14,5	-	-	6500	62	60	57	61,0	RC2	(R)EI120	IV	●
250CC100/Cicha	2xC100+2xC100	Cicha ⁴⁾	2x12,5	2x100	14,5	-	-	6500	-	-	-	64,0	RC2	(R)EI120	IV	●

¹⁾ The maximum wall height acc. to 1060/12/R48NK ITB technical opinion. For higher requirements related to the maximum height it is acceptable to reduce the spacing of the load-bearing structure to 400 mm and 300 mm.

²⁾ Klasa odporności na włamanie zgodnie z normą EN 1627:2021. System posiada certyfikat odporności na włamanie nr 00694/23, wydany przez jednostkę certyfikującą CERTEST.

³⁾ The fire resistance class according to standard PN-EN 13501-2:2016-07.

⁴⁾ Alternatywnie stosować płyty Nida Ciężka typ DFH11R.

The firestop and anti-burglar wall systems constructed according to the Siniat technology act as the firestop partitions, with fire exposition from both their sides. It is acceptable to provide the anti-burglar walls constructed according to the Siniat technology with penetrations, they should be sealed / protected with fire-protective materials, acc. to the indications of the fire protective materials manufacturer, e.g. PROMAT company.

The thickness of the insulation material, meeting the acoustic insulation parameters equal to the vertical C- type profile width (e.g. for the Nida C75 profile - glass wool thickness 75 mm).

The bulk density of the insulation material is 14,5 kg/m³, depending on the wall type.

AMOUNT OF MATERIALS UTILISED PER 1M² OF ANTI-BURGLAR WALLS, ACCORDING TO NIDA ŚCIANA SYSTEM

Material name	UM	System type Nida Ściana					
		150C50/Cicha	150CC50/Cicha	200C75/Cicha	200CC75/Cicha	250C100/Cicha	250CC100/Cicha
		Consumption of material per 1m ²					
Nida Cicha 12,5 mm plasterboard	m ²	4,0	4,0	4,0	4,0	4,0	4,0
Nida C50 profile	mb	3,6	7,2	-	-	-	-
Nida C75 profile	mb	-	-	3,6	7,2	-	-
Nida C100 profile	mb	-	-	-	-	3,6	7,2
Nida U50 profile	mb	1,4	1,4	-	-	-	-
Nida U75 profile	mb	-	-	1,4	1,4	-	-
Nida U100 profile	mb	-	-	-	-	1,4	1,4
Anchoring element ⁵⁾	szt.	3,6	3,6	3,6	3,6	3,6	3,6
FixDens 4,2 x 25 mm screws	szt.	14,0	14,0	14,0	14,0	14,0	14,0
FixDens 4,2 x 42 mm screws	szt.	24,0	24,0	24,0	24,0	24,0	24,0
Nida reinforcement tape	mb	2,8	2,8	2,8	2,8	2,8	2,8
Acoustic insulation tape	mb	2,2	2,2	2,2	2,2	2,2	2,2
Nida Start jointing compound ⁶⁾	kg	1,2	1,2	1,2	1,2	1,2	1,2
Nida Finish jointing compound	kg	0,2	0,2	0,2	0,2	0,2	0,2
Mineral wool ⁷⁾	m ²	2,0	2,0	2,0	2,0	2,0	2,0

⁵⁾ The type of the anchoring element should be selected individually adequately for the substrate type and the total mass of the encasement.

⁶⁾ Alternatively, apply the Nida Max gypsum compound.

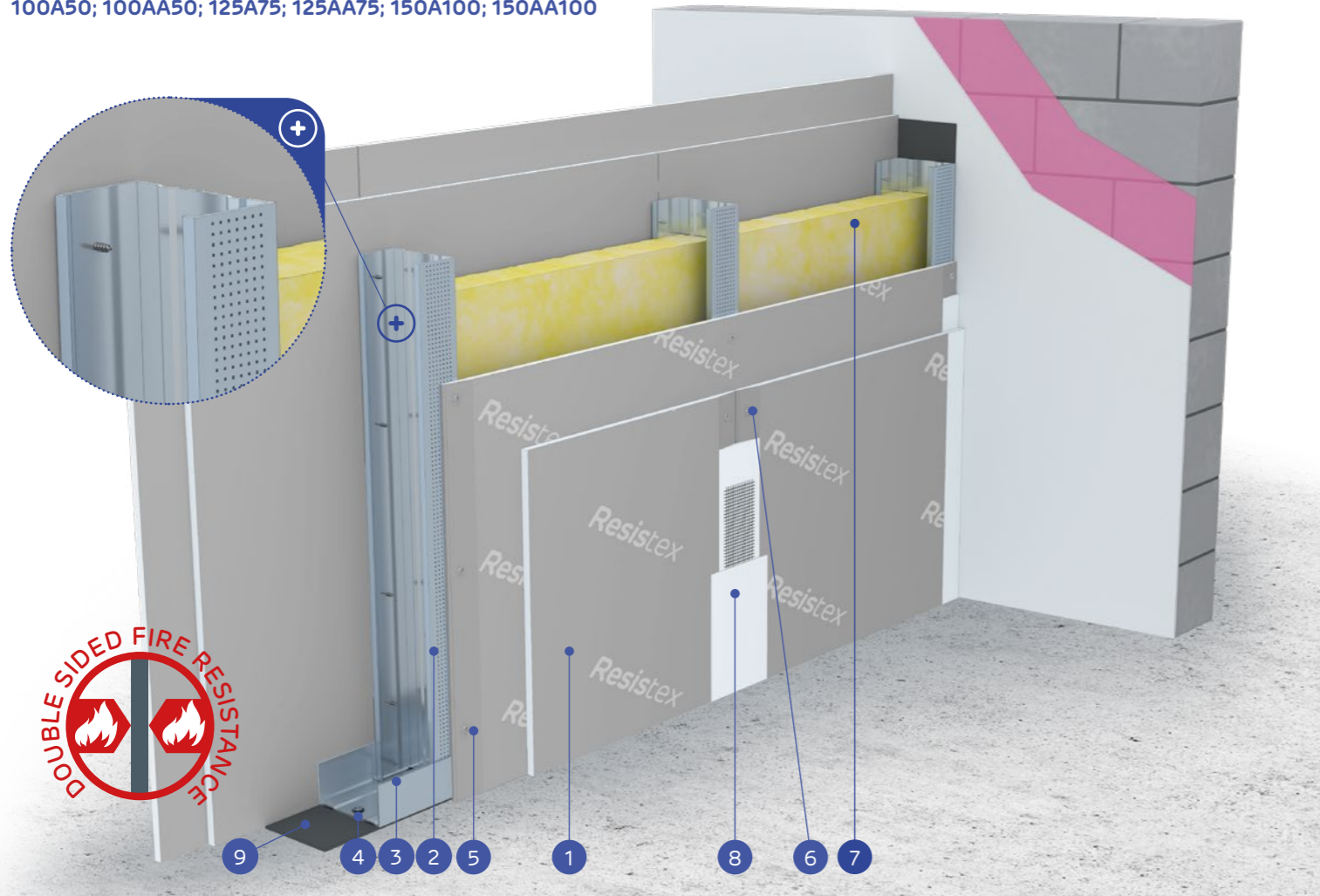
⁷⁾ Application acc. to the requirements. When the utilised insulation material thickness and/or bulk density is different from the stated in the technical specification (Nida Drywall Encasement System - catalogue of solutions), contact with an appropriate Siniat technical advisor is required. The standards concerning the amount of utilised material do not cover the loss of the material.

nida Ściana

Fire resistance class:
(R)EI120Burglar resistance class:
RC3Maximum acoustic insulation:
59 dBMaximum encasement height:
6500 mmNumber of related document:
EN 1627:2021Burglar resistance certificate:
Nr 00695/23

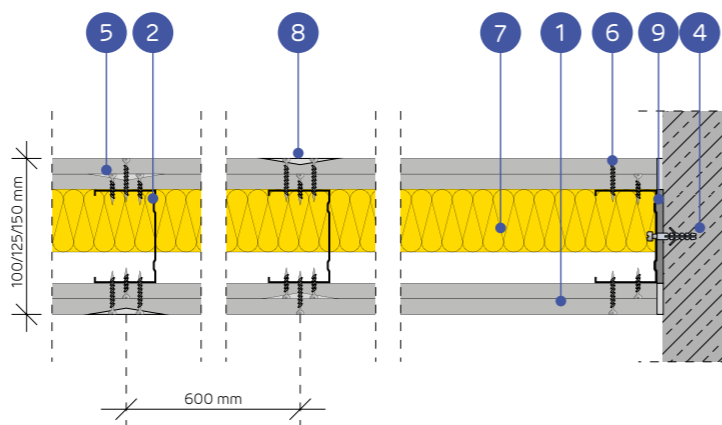
SYSTEMS:

100A50; 100AA50; 125A75; 125AA75; 150A100; 150AA100



MATERIALS:

1. Resistex plasterboards
2. Nida C50 / C75 / C100 profile
3. Nida U50 / U75 / U100 profile
4. Anchoring element
5. Nida 3,5 x 25 mm sheet metal screws
6. Nida 3,5 x 45 mm sheet metal screws
7. Insulation material mineral wool
8. Joint between plasterboards filled with Nida gypsum compound with Nida reinforcement tape
9. Nida acoustic insulation tape width 50/70/95 mm



ANTI-BURGLAR PARTITION WALL SYSTEM BASED ON SINGLE AND DOUBLED NIDA C50, C75 AND C100 STRUCTURE

TECHNICAL PARAMETERS

System type Nida Ściana	Frame structure		Insulation material (mineral wool)				Maximum wall height - h ¹⁾ [mm]	Acoustic insulation			Encasement weight 1 m ² [kg]	Burglar resistance class ²⁾	Fire resist. class ³⁾ [min]	Utilisation category ETAG 003 class	Special system	
	Nida	Nida	Acoustic insulation		Fire resistance			Within fire resistance	R _w [dB]	R _{A1} [dB]						R _{A2} [dB]
			Thickness [mm]	Minimum thickness [mm]	Density [kg/m ³]	Minimum thickness [mm]										
100A50/Resistex	C50	Resistex ⁴⁾	2x12,5	50	14,5	-	-	4500	55 ⁵⁾	51 ⁵⁾	43 ⁵⁾	50,0	RC3	(R)EI120	IV	●
100AA50/Resistex	2xC50	Resistex ⁴⁾	2x12,5	50	14,5	-	-	5500	-	-	-	51,0	RC3	(R)EI120	IV	●
125A75/Resistex	C75	Resistex ⁴⁾	2x12,5	75	15	-	-	5500	59	56	52	50,0	RC3	(R)EI120	IV	●
125AA75/Resistex	2xC75	Resistex ⁴⁾	2x12,5	75	15	-	-	6500	-	-	-	51,0	RC3	(R)EI120	IV	●
150A100/Resistex	C100	Resistex ⁴⁾	2x12,5	100	15	-	-	6500	59 ⁵⁾	56 ⁵⁾	52 ⁵⁾	50,0	RC3	(R)EI120	IV	●
150AA100/Resistex	2xC100	Resistex ⁴⁾	2x12,5	100	15	-	-	6500	-	-	-	52,0	RC3	(R)EI120	IV	●

¹⁾ The maximum wall height acc. to 01060/11/R12NK ITB technical opinion. For higher requirements related to the maximum height it is acceptable to reduce the spacing of the load-bearing structure to 400 mm and 300 mm.

²⁾ Klasa odporności na włamanie zgodnie z normą EN 1627:2021. System posiada certyfikat odporności na włamanie nr 00695/23, wydany przez jednostkę certyfikującą CERTEST.

³⁾ The fire resistance class according to standard PN-EN 13501-2:2016-07.

⁴⁾ The Resistex board type DFH2IR can be utilised in increased relative humidity environments up to 85% (up to 10 hour per day), e.g. bathrooms, kitchens, etc.

⁵⁾ The acoustic insulation was estimated on the basis of the INSUL simulation program.

The firestop and anti-burglar wall systems constructed according to the Siniat technology act as the firestop partitions, with fire exposition from both their sides. It is acceptable to provide the anti-burglar walls constructed according to the Siniat technology with penetrations, they should be sealed / protected with fire-protective materials, acc. to the indications of the fire protective materials manufacturer, e.g. PROMAT company.

The thickness of the insulation material, meeting the acoustic insulation parameters equal to the vertical C-type profile width (e.g. for the Nida C75 profile - glass wool thickness 75 mm).

Gęstość objętościowa materiału izolacyjnego w zależności od typu ściany wynosi od 14,5 do 15 kg/m³.

AMOUNT OF MATERIALS UTILISED PER 1M² OF ANTI-BURGLAR WALLS, ACCORDING TO NIDA ŚCIANA SYSTEM

Material name	UM	System type Nida Ściana					
		100A50/ Resistex	100AA50/ Resistex	125A75/ Resistex	125AA75/ Resistex	150A100/ Resistex	150AA100/ Resistex
		Consumption of material per 1m ²					
Resistex 12,5 mm plasterboard	m ²	4,0	4,0	4,0	4,0	4,0	4,0
Nida C50 profile	mb	1,8	3,6	-	-	-	-
Nida C75 profile	mb	-	-	1,8	3,6	-	-
Nida C100 profile	mb	-	-	-	-	1,8	3,6
Nida U50 profile	mb	0,7	0,7	-	-	-	-
Nida U75 profile	mb	-	-	0,7	0,7	-	-
Nida U100 profile	mb	-	-	-	-	0,7	0,7
Anchoring element ⁶⁾	szt.	1,8	1,8	1,8	1,8	1,8	1,8
FLAT HEAD 4,2x13 mm self-drilling screws for 1 mm sheet metal	szt.	-	6,0	-	6,0	-	6,0
Nida 3.5x25 mm sheet metal screws	szt.	8,0	8,0	8,0	8,0	8,0	8,0
Nida 3.5x45 mm sheet metal screws	szt.	24,0	24,0	24,0	24,0	24,0	24,0
Nida reinforcement tape	mb	2,8	2,8	2,8	2,8	2,8	2,8
Acoustic insulation tape	mb	0,6	0,6	0,6	0,6	0,6	0,6
Nida Start jointing compound ⁷⁾	kg	1,2	1,2	1,2	1,2	1,2	1,2
Nida Finish jointing compound	kg	0,2	0,2	0,2	0,2	0,2	0,2
Mineral wool ⁸⁾	m ²	1,0	1,0	1,0	1,0	1,0	1,0

⁶⁾ The type of the anchoring element should be selected individually adequately for the substrate type and the total mass of the encasement.

⁷⁾ Alternatively, apply the Nida Max gypsum compound.

⁸⁾ Application acc. to the requirements. When the utilised insulation material thickness and/or bulk density is different from the stated in the technical specification (Nida Drywall Encasement System - catalogue of solutions), contact with an appropriate Siniat technical advisor is required.

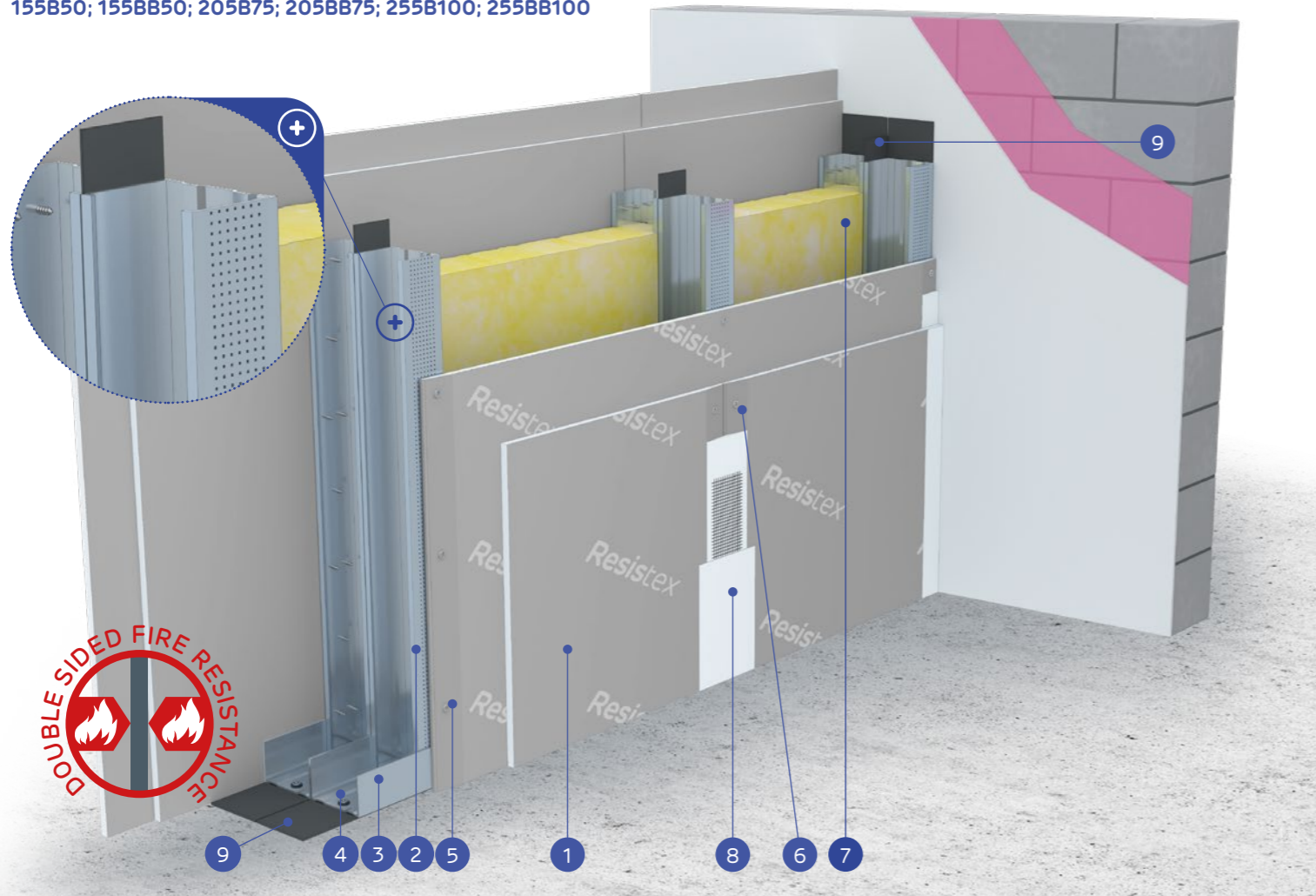
The standards concerning the amount of utilised material do not cover the loss of the material.

nida Ściana

Fire resistance class:
(R)EI120Burglar resistance class:
RC3Maximum acoustic insulation:
70 dBMaximum encasement height:
6500 mmNumber of related document:
EN 1627:2021Certyfikat odporności na włamanie:
Nr 00695/23

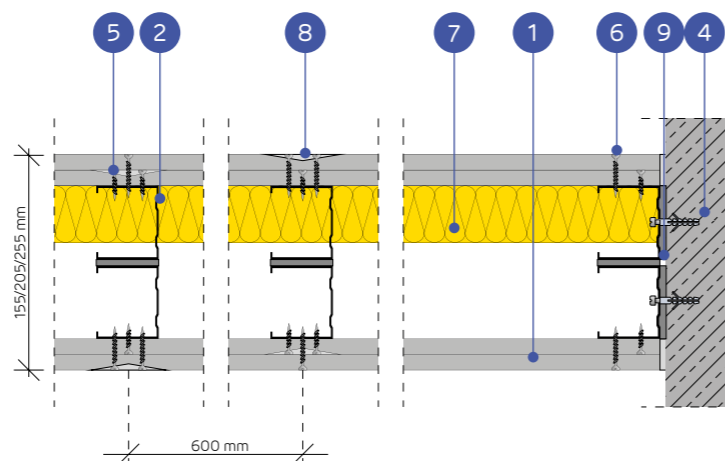
SYSTEMS:

155B50; 155BB50; 205B75; 205BB75; 255B100; 255BB100



MATERIALS:

1. Resistex plasterboards
2. Nida C50 / C75 / C100 profile
3. Nida U50 / U75 / U100 profile
4. Anchoring element
5. Nida 3,5 x 25 mm sheet metal screws
6. Nida 3,5 x 45 mm sheet metal screws
7. Insulation material mineral wool
8. Joint between plasterboards filled with Nida gypsum compound with Nida reinforcement tape
9. Nida acoustic insulation tape width 50/70/95 mm



ANTI-BURGLAR PARTITION WALL SYSTEM BASED ON DOUBLE-ROW SINGLE AND DOUBLED NIDA C50, C75 AND C100 STRUCTURE

TECHNICAL PARAMETERS

System type Nida Ściana	Frame structure		Insulation material (mineral wool)				Maximum wall height - h ¹⁾	Acoustic insulation			Encasement weight 1 m ²	Burglar resistance class ²⁾	Fire resist. class ³⁾	Utilisation category	Special system	
	Nida	Nida	Acoustic insulation		Fire resistance			Within fire resistance	R _w [dB]	R _{A1} [dB]						R _{A2} [dB]
			Thickness [mm]	Minimum thickness [mm]	Density [kg/m ³]	Minimum thickness [mm]	Density [kg/m ³]				[mm]	[min]	ETAG 003 class			
155B50/Resistex	C50+C50	Resistex ⁴⁾	12,5+12,5	2x50	14,5	-	-	4500	63 ⁵⁾	59 ⁵⁾	52 ⁵⁾	53,0	RC3	(R)EI120	IV	●
155BB50/Resistex	2xC50+2xC50	Resistex ⁴⁾	12,5+12,5	2x50	14,5	-	-	5500	-	-	-	56,0	RC3	(R)EI120	IV	●
205B75/Resistex	C75+C75	Resistex ⁴⁾	12,5+12,5	2x75	15	-	-	6000	70	67	60	54,0	RC3	(R)EI120	IV	●
205BB75/Resistex	2xC75+2xC75	Resistex ⁴⁾	12,5+12,5	2x75	15	-	-	6500	-	-	-	57,0	RC3	(R)EI120	IV	●
255B100/Resistex	C100+C100	Resistex ⁴⁾	12,5+12,5	2x100	12	-	-	6500	70	67	60	56,0	RC3	(R)EI120	IV	●
255BB100/Resistex	2xC100+2xC100	Resistex ⁴⁾	12,5+12,5	2x100	12	-	-	6500	-	-	-	58,0	RC3	(R)EI120	IV	●

¹⁾ The maximum wall height acc. to 1060/12/R48NK ITB technical opinion. For higher requirements related to the maximum height it is acceptable to reduce the spacing of the load-bearing structure to 400 mm and 300 mm.

²⁾ Klasa odporności na włamanie zgodnie z normą EN 1627:2021. System posiada certyfikat odporności na włamanie nr 00695/23, wydany przez jednostkę certyfikującą CERTEST.

³⁾ The fire resistance class according to standard PN-EN 13501-2:2016-07.

⁴⁾ The Resistex board type DFH2IR can be utilised in increased relative humidity environments up to 85% (up to 10 hour per day), e.g. bathrooms, kitchens, etc.

⁵⁾ The acoustic insulation was estimated on the basis of the INSUL simulation program.

IMPORTANT! During the designing process of the Type B walls, when dealing with the maximum acceptable wall height it is advisable to consult a Siniat Technical Advisor in order to verify the requirements considering stiffness of a partition (this does not include the wall systems with the Nida PWA vibro-acoustic lacing).

• The firestop and anti-burglar wall systems constructed according to the Siniat technology act as the firestop partitions, with fire exposition from both their sides. It is acceptable to provide the anti-burglar walls constructed according to the Siniat technology with penetrations, they should be sealed / protected with fire-protective materials, acc. to the indications of the fire protective materials manufacturer, e.g. PROMAT company.

• The thickness of the insulation material, meeting the acoustic insulation parameters equal to the vertical C-type profile width (e.g. for the Nida C75 profile - glass wool thickness 75 mm).

• Gęstość objętościowa materiału izolacyjnego w zależności od typu ściany wynosi od 12 do 15 kg/m³.

AMOUNT OF MATERIALS UTILISED PER 1M² OF ANTI-BURGLAR WALLS, ACCORDING TO NIDA ŚCIANA SYSTEM

Material name	UM	System type Nida Ściana					
		155B50/ Resistex	155BB50/ Resistex	205B75/ Resistex	205BB75/ Resistex	255B100/ Resistex	255BB100/ Resistex
		Consumption of material per 1m ²					
Resistex 12,5 mm plasterboard	m ²	4,0	4,0	4,0	4,0	4,0	4,0
Nida C50 profile	mb	3,6	7,2	-	-	-	-
Nida C75 profile	mb	-	-	3,6	7,2	-	-
Nida C100 profile	mb	-	-	-	-	3,6	7,2
Nida U50 profile	mb	1,4	1,4	-	-	-	-
Nida U75 profile	mb	-	-	1,4	1,4	-	-
Nida U100 profile	mb	-	-	-	-	1,4	1,4
Anchoring element ⁶⁾	szt.	3,6	3,6	3,6	3,6	3,6	3,6
FLAT HEAD 4,2x13 mm self-drilling screws for 1 mm sheet metal	szt.	-	12,0	-	12,0	-	12,0
Nida 3.5x25 mm sheet metal screws	szt.	8,0	8,0	8,0	8,0	8,0	8,0
Nida 3.5x45 mm sheet metal screws	szt.	24,0	24,0	24,0	24,0	24,0	24,0
Nida reinforcement tape	mb	2,8	2,8	2,8	2,8	2,8	2,8
Acoustic insulation tape	mb	2,4	2,4	2,4	2,4	2,4	2,4
Nida Start jointing compound ⁷⁾	kg	1,2	1,2	1,2	1,2	1,2	1,2
Nida Finish jointing compound	kg	0,2	0,2	0,2	0,2	0,2	0,2
Mineral wool ⁸⁾	m ²	2,0	2,0	2,0	2,0	2,0	2,0

⁶⁾ The type of the anchoring element should be selected individually adequately for the substrate type and the total mass of the encasement.

⁷⁾ Alternatively, apply the Nida Max gypsum compound.

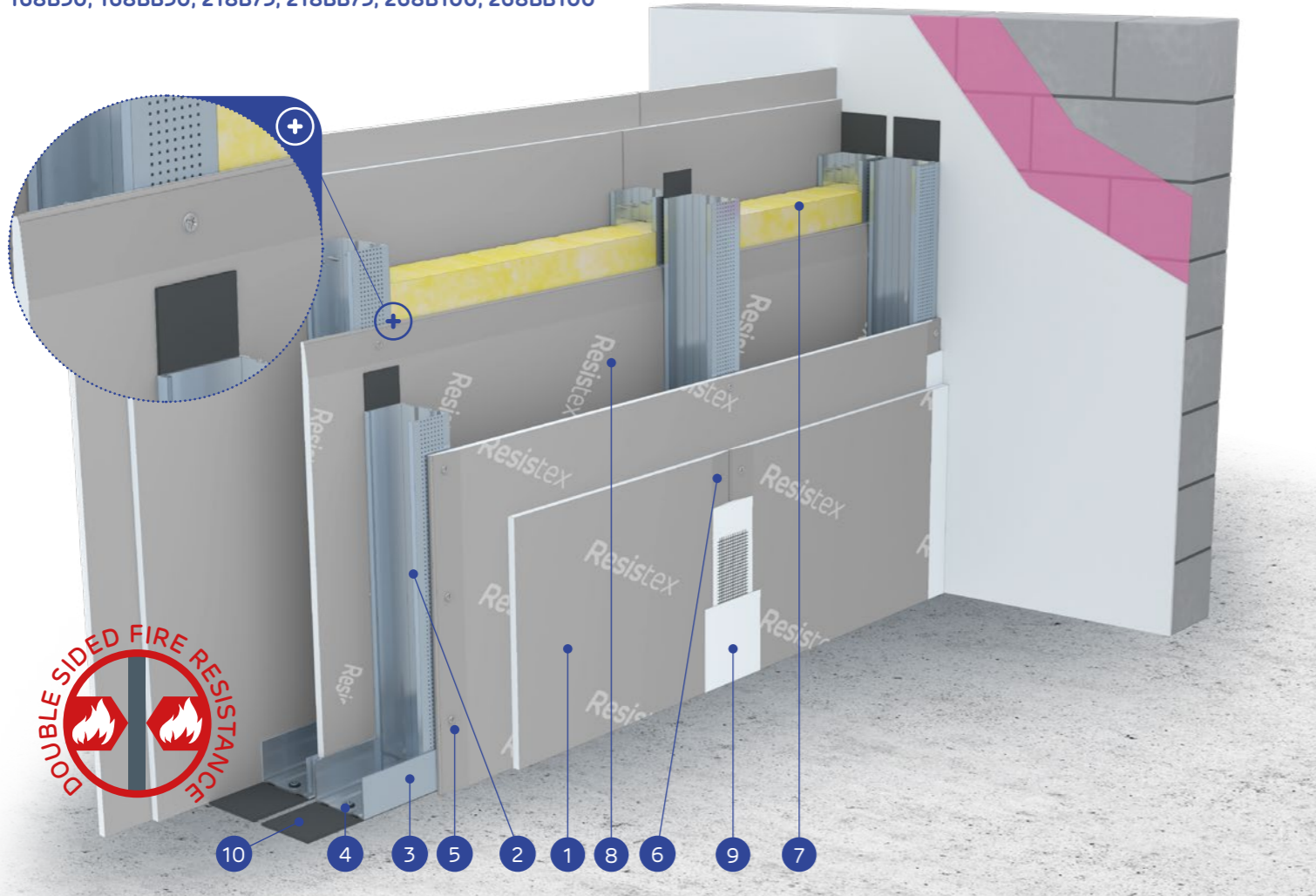
⁸⁾ Application acc. to the requirements. When the utilised insulation material thickness and/or bulk density is different from the stated in the technical specification (Nida Drywall Encasement System - catalogue of solutions), contact with an appropriate Siniat technical advisor is required. The standards concerning the amount of utilised material do not cover the loss of the material.

nida Ściana

Fire resistance class:
(R)E120Burglar resistance class:
RC3Maximum acoustic insulation:
70 dBMaximum encasement height:
6500 mmNumber of related document:
EN 1627:2021Burglar resistance certificate:
Nr 00695/23

SYSTEMS:

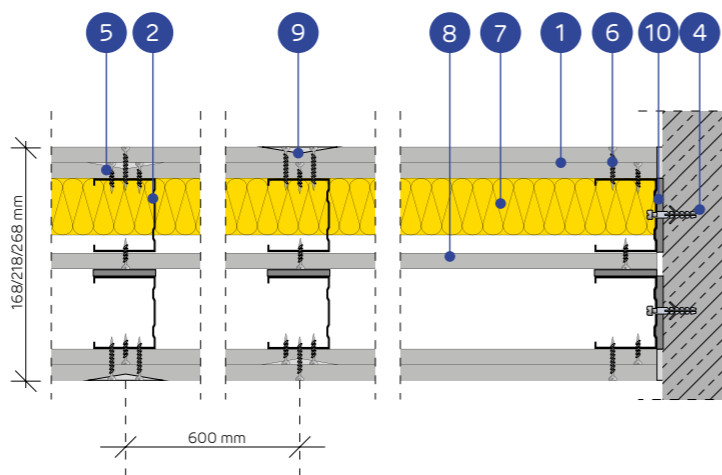
168B50; 168BB50; 218B75; 218BB75; 268B100; 268BB100



MATERIALS:

1. Resistex plasterboards
2. Nida C50 / C75 / C100 profile
3. Nida U50 / U75 / U100 profile
4. Anchoring element
5. Nida 3,5 x 25 mm sheet metal screws
6. Nida 3,5 x 45 mm sheet metal screws
7. Insulation material mineral wool
8. Resistex stiffening board *
9. Joint between plasterboards filled with Nida gypsum compound with Nida reinforcement tape
10. Nida acoustic insulation tape width 50/70/95 mm

* It is acceptable to change for boards of the following types: DFH11R, DEFH11R



THE ACOUSTIC WALL SYSTEM BASED ON DOUBLE-ROW, SINGLE OR DOUBLED STRUCTURES OF THE NIDA C50, C75, C100 PROFILES WITH INTERNAL STIFFENING BOARD

TECHNICAL PARAMETERS

System type Nida Ściana	Frame structure		Sheathing of plasterboards		Insulation material (mineral wool)				Maximum wall height - h ¹⁾	Acoustic insulation ⁵⁾			Encasement weight 1 m ²	Burglar resistance class ²⁾	Fire resist. class ³⁾	Utilisation category	Special system
	Nida	Nida	Thickness [mm]	Minimum thickness [mm]	Density [kg/m ³]	Fire resistance		Within fire resistance		Acoustic insulation ⁵⁾							
						Minimum thickness [mm]	Density [kg/m ³]		R _w [dB]	R _{a1} [dB]	R _{a2} [dB]						
168B50/Resistex	C50+C50	Resistex ⁴⁾	2x12,5+12,5	2x50	14,5	-	-	4500	63 ⁵⁾	59 ⁵⁾	52 ⁵⁾	73,0	RC3	(R)E120	IV	•	
168BB50/Resistex	2xC50+2xC50	Resistex ⁴⁾	2x12,5+12,5	2x50	14,5	-	-	5500	-	-	-	75,0	RC3	(R)E120	IV	•	
218B75/Resistex	C75+C75	Resistex ⁴⁾	2x12,5+12,5	2x75	15	-	-	6000	70	67	60	74,0	RC3	(R)E120	IV	•	
218BB75/Resistex	2xC75+2xC75	Resistex ⁴⁾	2x12,5+12,5	2x75	15	-	-	6500	-	-	-	76,0	RC3	(R)E120	IV	•	
268B100/Resistex	C100+C100	Resistex ⁴⁾	2x12,5+12,5	2x75	12	-	-	6500	70	69	60	75,0	RC3	(R)E120	IV	•	
268BB100/Resistex	2xC100+2xC100	Resistex ⁴⁾	2x12,5+12,5	2x75	12	-	-	6500	-	-	-	77,0	RC3	(R)E120	IV	•	

¹⁾ The maximum wall height acc. to 1060/12/R48NK ITB technical opinion. For higher requirements related to the maximum height it is acceptable to reduce the spacing of the load-bearing structure to 400 mm and 300 mm.

²⁾ Klasa odporności na włamanie zgodnie z normą EN 1627:2021. System posiada certyfikat odporności na włamanie nr 00695/23, wydany przez jednostkę certyfikującą CERTEST.

³⁾ The fire resistance class according to standard PN-EN 13501-2:2016-07.

⁴⁾ The Resistex board type DFH21R can be utilised in increased relative humidity environments up to 85% (up to 10 hour per day), e.g. bathrooms, kitchens, etc.

⁵⁾ The acoustic insulation was estimated on the basis of the INSUL simulation program.

The firestop and anti-burglar wall systems constructed according to the Siniat technology act as the firestop partitions, with fire exposition from both their sides. It is acceptable to provide the anti-burglar walls constructed according to the Siniat technology with penetrations, they should be sealed / protected with fire-protective materials, acc. to the indications of the fire protective materials manufacturer, e.g. PROMAT company.

The thickness of the insulation material, meeting the acoustic insulation parameters equal to the vertical C- type profile width (e.g. for the Nida C75 profile - glass wool thickness 75 mm).

Gęstość objętościowa materiału izolacyjnego w zależności od typu ściany wynosi od 12 do 15 kg/m³.

It is acceptable to change the internal stiffening board Resistex for boards of the following types: DFH11R, DEFH11R.

AMOUNT OF MATERIALS UTILISED PER 1M² OF ANTI-BURGLAR WALLS, ACCORDING TO NIDA ŚCIANA SYSTEM

Material name	UM	System type Nida Ściana					
		168B50/Resistex	168BB50/Resistex	218B75/Resistex	218BB75/Resistex	268B100/Resistex	268BB100/Resistex
		Consumption of material per 1m ²					
Resistex 12,5 mm plasterboard	m ²	5,0	5,0	5,0	5,0	5,0	5,0
Nida C50 profile	mb	3,6	7,2	-	-	-	-
Nida C75 profile	mb	-	-	3,6	7,2	-	-
Nida C100 profile	mb	-	-	-	-	3,6	7,2
Nida U50 profile	mb	1,4	1,4	-	-	-	-
Nida U75 profile	mb	-	-	1,4	1,4	-	-
Nida U100 profile	mb	-	-	-	-	1,4	1,4
Anchoring element ⁶⁾	szt.	3,6	3,6	3,6	3,6	3,6	3,6
FLAT HEAD 4,2x13 mm self-drilling screw for 1 mm sheet metal	szt.	-	12,0	-	12,0	-	12,0
Nida 3,5x25 mm sheet metal screws	szt.	16,0	16,0	16,0	16,0	16,0	16,0
Nida 3,5x45 mm sheet metal screws	szt.	24,0	24,0	24,0	24,0	24,0	24,0
Nida reinforcement tape	mb	2,8	2,8	2,8	2,8	2,8	2,8
Acoustic insulation tape Nida	mb	2,4	2,4	2,4	2,4	2,4	2,4
Nida Start jointing compound ⁷⁾	kg	1,2	1,2	1,2	1,2	1,2	1,2
Nida Finish jointing compound	kg	0,2	0,2	0,2	0,2	0,2	0,2
Mineral wool ⁸⁾	m ²	2,0	2,0	2,0	2,0	2,0	2,0

⁶⁾ The type of the anchoring element should be selected individually adequately for the substrate type and the total mass of the encasement.

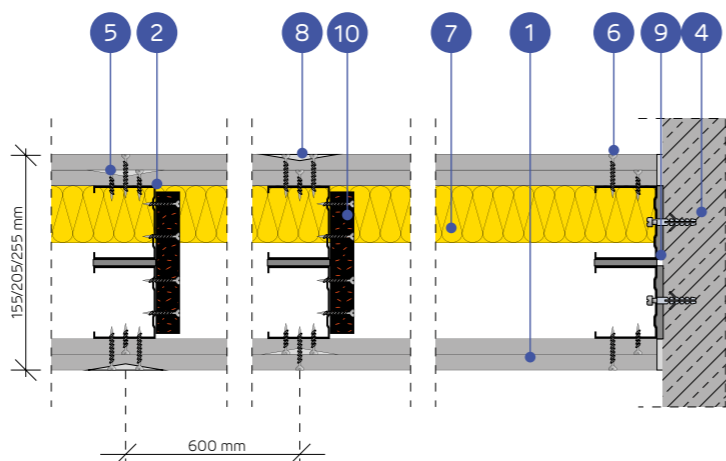
⁷⁾ Alternatively, apply the Nida Max gypsum compound.

⁸⁾ Application acc. to the requirements. When the utilised insulation material thickness and/or bulk density is different from the stated in the technical specification (Nida Drywall Encasement System - catalogue of solutions), contact with an appropriate Siniat technical advisor is required.

The standards concerning the amount of utilised material do not cover the loss of the material.

nida ŚcianaFire resistance class:
(R)EI120Burglar resistance class:
RC3Maximum acoustic insulation:
70 dBMaximum encasement height:
6500 mmNumber of related document:
EN 1627:2021Burglar resistance certificate:
Nr 00695/23**SYSTEMS:****155B50-PWA; 155BB50-PWA; 205B75-PWA; 205BB75-PWA;
255B100-PWA; 255BB100-PWA****MATERIALS:**

1. Resistex plasterboards
2. Nida C50 / C75 / C100 profile
3. Nida U50 / U75 / U100 profile
4. Anchoring element
5. Nida 3,5 x 25 mm sheet metal screws
6. Nida 3,5 x 45 mm sheet metal screws
7. Insulation material mineral wool
8. Joint between plasterboards filled with Nida gypsum compound with Nida reinforcement tape
9. Nida acoustic insulation tape width 50/70/95 mm
10. Nida PWA vibro-acoustic lacing

**ANTI-BURGLAR PARTITION WALL SYSTEM BASED ON DOUBLE-ROW SINGLE AND DOUBLED NIDA C50, C75 AND C100 STRUCTURE (NIDA PWA)****TECHNICAL PARAMETERS**

System type Nida Ściana	Frame structure		Insulation material (mineral wool)				Maximum wall height · h ¹⁾	Acoustic insulation			Encasement weight 1 m ²	Burglar resistance class ²⁾	Fire resist. class ³⁾	Utilisation category	Special system	
	Nida	Nida	Acoustic insulation		Fire resistance			Within fire resistance	R _w [dB]	R _{a1} [dB]						R _{a2} [dB]
			Thickness [mm]	Minimum thickness [mm]	Density [kg/m ³]	Minimum thickness [mm]	Density [kg/m ³]				[mm]	[min]	ETAG 003 class			
155B50-PWA/Resistex	C50+C50	Resistex ⁴⁾	12,5+12,5	2x50	14,5	-	-	5500	63 ⁵⁾	59 ⁵⁾	52 ⁵⁾	53,0	RC3	(R)EI120	IV	●
155BB50-PWA/Resistex	2xC50+2xC50	Resistex ⁴⁾	12,5+12,5	2x50	14,5	-	-	6330	-	-	-	56,0	RC3	(R)EI120	IV	●
205B75-PWA/Resistex	C75+C75	Resistex ⁴⁾	12,5+12,5	2x75	15	-	-	6200	70	67	60	54,0	RC3	(R)EI120	IV	●
205BB75-PWA/Resistex	2xC75+2xC75	Resistex ⁴⁾	12,5+12,5	2x75	15	-	-	6500	-	-	-	57,0	RC3	(R)EI120	IV	●
255B100-PWA/Resistex	C100+C100	Resistex ⁴⁾	12,5+12,5	2x100	12	-	-	6500	70	67	60	56,0	RC3	(R)EI120	IV	●
255BB100-PWA/Resistex	2xC100+2xC100	Resistex ⁴⁾	12,5+12,5	2x100	12	-	-	6500	-	-	-	58,0	RC3	(R)EI120	IV	●

¹⁾ The maximum wall height acc. to 1060/12/R48NK ITB technical opinion. For higher requirements related to the maximum height it is acceptable to reduce the spacing of the load-bearing structure to 400 mm and 300 mm.

²⁾ Klasa odporności na włamanie zgodnie z normą EN 1627:2021. System posiada certyfikat odporności na włamanie nr 00695/23, wydany przez jednostkę certyfikującą CERTEST.

³⁾ The fire resistance class according to standard PN-EN 13501-2:2016-07.

⁴⁾ The Resistex board type DFH2IR can be utilised in increased relative humidity environments up to 85% (up to 10 hour per day), e.g. bathrooms, kitchens, etc.

⁵⁾ The acoustic insulation was estimated on the basis of the INSUL simulation program.

• The firestop and anti-burglar wall systems constructed according to the Siniat technology act as the firestop partitions, with fire exposition from both their sides. It is acceptable to provide the anti-burglar walls constructed according to the Siniat technology with penetrations, they should be sealed / protected with fire-protective materials, acc. to the indications of the fire protective materials manufacturer, e.g. PROMAT company.

• The thickness of the insulation material, meeting the acoustic insulation parameters equal to the vertical C-type profile width (e.g. for the Nida C75 profile - glass wool thickness 75 mm).

• Gęstość objętościowa materiału izolacyjnego w zależności od typu ściany wynosi od 12 do 15 kg/m³.

AMOUNT OF MATERIALS UTILISED PER 1M² OF ANTI-BURGLAR WALLS, ACCORDING TO NIDA ŚCIANA SYSTEM

Material name	UM	System type Nida Ściana					
		155B50-PWA/ Resistex	155BB50-PWA/ Resistex	205B75-PWA/ Resistex	205BB75-PWA/ Resistex	255B100-PWA/ Resistex	255BB100-PWA/ Resistex
		Consumption of material per 1m ²					
Resistex 12,5 mm plasterboard	m ²	4,0	4,0	4,0	4,0	4,0	4,0
Nida C50 profile	mb	3,6	7,2	-	-	-	-
Nida C75 profile	mb	-	-	3,6	7,2	-	-
Nida C100 profile	mb	-	-	-	-	3,6	7,2
Nida U50 profile	mb	1,4	1,4	-	-	-	-
Nida U75 profile	mb	-	-	1,4	1,4	-	-
Nida U100 profile	mb	-	-	-	-	1,4	1,4
PWA50 vibro-acoustic lacing	szt.	1,1	1,1	-	-	-	-
PWA75 vibro-acoustic lacing	szt.	-	-	1,1	1,1	-	-
PWA100 vibro-acoustic lacing	szt.	-	-	-	-	1,1	1,1
Anchoring element ⁶⁾	szt.	3,6	3,6	3,6	3,6	3,6	3,6
Nida 3.5x25 mm sheet metal screws	szt.	8,0	8,0	8,0	8,0	8,0	8,0
Nida 3.5x45 mm sheet metal screws	szt.	31,0	31,0	31,0	31,0	31,0	31,0
Nida reinforcement tape	mb	2,8	2,8	2,8	2,8	2,8	2,8
Acoustic insulation tape	mb	2,4	2,4	2,4	2,4	2,4	2,4
Nida Start jointing compound ⁷⁾	kg	1,2	1,2	1,2	1,2	1,2	1,2
Nida Finish jointing compound	kg	0,2	0,2	0,2	0,2	0,2	0,2
Mineral wool ⁸⁾	m ²	2,0	2,0	2,0	2,0	2,0	2,0

⁶⁾ The type of the anchoring element should be selected individually adequately for the substrate type and the total mass of the encasement.

⁷⁾ Alternatively, apply the Nida Max gypsum compound.

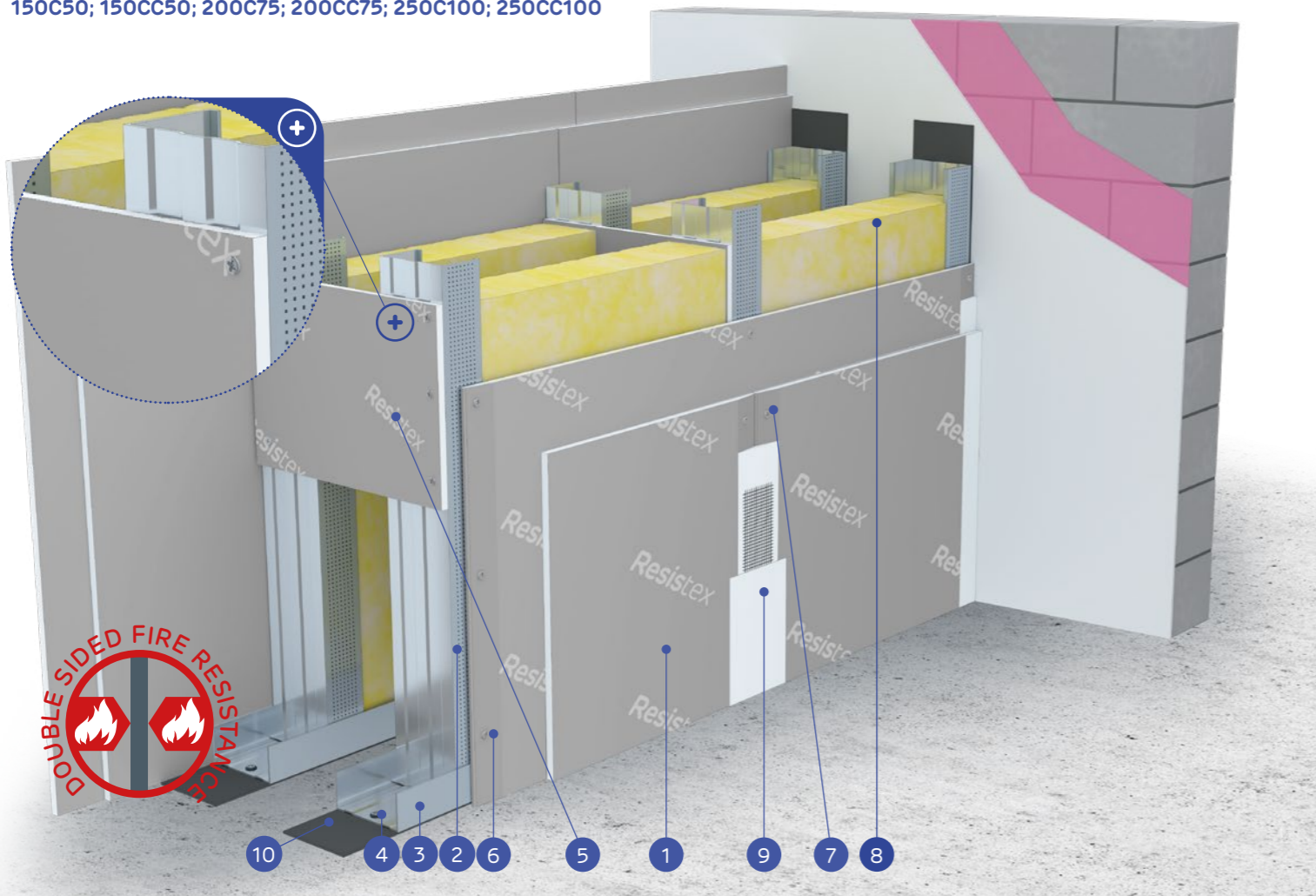
⁸⁾ Application acc. to the requirements. When the utilised insulation material thickness and/or bulk density is different from the stated in the technical specification (Nida Drywall Encasement System - catalogue of solutions), contact with an appropriate Siniat technical advisor is required. The standards concerning the amount of utilised material do not cover the loss of the material.

nida Ściana

Fire resistance class:
(R)EI120Burglar resistance class:
RC3Maximum acoustic insulation:
62 dBMaximum encasement height:
6500 mmNumber of related document:
EN 1627:2021Burglar resistance certificate:
Nr 00695/23

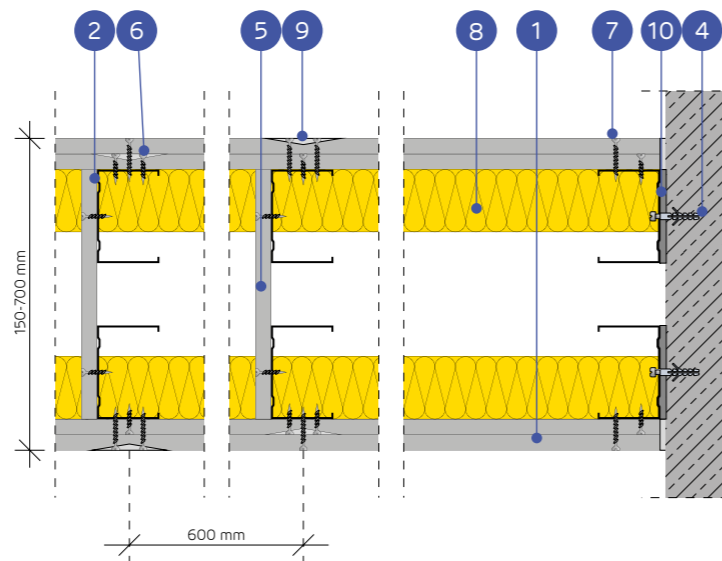
SYSTEMS:

150C50; 150CC50; 200C75; 200CC75; 250C100; 250CC100



MATERIALS:

- Resistex plasterboards
- Nida C50 / C75 / C100 profile
- Nida U50 / U75 / U100 profile
- Anchoring element
- Lacing of Resistex board, min. height 300 mm, min. 2 pcs. per post (max. spacing 1500 mm)
- Nida 3,5 x 25 mm sheet metal screws
- Nida 3,5 x 45 mm sheet metal screws
- Insulation material mineral wool
- Joint between plasterboards filled with Nida gypsum compound with Nida reinforcement tape
- Nida acoustic insulation tape width 50/70/95 mm



ANTI-BURGLAR PARTITION WALL SYSTEM BASED ON DOUBLE-ROW SINGLE AND DOUBLED NIDA C50, C75 AND C100 STRUCTURE (WALLS FOR INSTALLATIONS)

TECHNICAL PARAMETERS

System type Nida Ściana	Frame structure	Sheathing of plasterboards	Insulation material (mineral wool)				Maximum wall height · h ¹⁾	Acoustic insulation ²⁾			Encasement weight 1 m ²	Burglar resistance class ²⁾	Fire resist. class ³⁾	Utilisation category	Special system	
			Acoustic insulation		Fire resistance			Within fire resistance	R _w [dB]	R _{A1} [dB]						R _{A2} [dB]
			Minimum thickness [mm]	Density [kg/m ³]	Minimum thickness [mm]	Density [kg/m ³]										
150C50/Resistex	C50+C50	Resistex ⁴⁾	12,5+12,5	2x50	12	-	-	4500	60	58	54	53,0	RC3	(R)EI120	IV	●
150CC50/Resistex	2xC50+2xC50	Resistex ⁴⁾	12,5+12,5	2x50	12	-	-	4750	-	-	-	56,0	RC3	(R)EI120	IV	●
200C75/Resistex	C75+C75	Resistex ⁴⁾	12,5+12,5	2x75	12	-	-	6000	62	60	57	54,0	RC3	(R)EI120	IV	●
200CC75/Resistex	2xC75+2xC75	Resistex ⁴⁾	12,5+12,5	2x75	12	-	-	6500	-	-	-	57,0	RC3	(R)EI120	IV	●
250C100/Resistex	C100+C100	Resistex ⁴⁾	12,5+12,5	2x100	12	-	-	6500	62	60	57	56,0	RC3	(R)EI120	IV	●
250CC100/Resistex	2xC100+2xC100	Resistex ⁴⁾	12,5+12,5	2x100	12	-	-	6500	-	-	-	58,0	RC3	(R)EI120	IV	●

¹⁾ The maximum wall height acc. to 1060/12/R48NK ITB technical opinion. For higher requirements related to the maximum height it is acceptable to reduce the spacing of the load-bearing structure to 400 mm and 300 mm.

²⁾ Klasa odporności na włamanie zgodnie z normą EN 1627:2021. System posiada certyfikat odporności na włamanie nr 00695/23, wydany przez jednostkę certyfikującą CERTEST.

³⁾ The fire resistance class according to standard PN-EN 13501-2:2016-07.

⁴⁾ The Resistex board type DFH2IR can be utilised in increased relative humidity environments up to 85% (up to 10 hour per day), e.g. bathrooms, kitchens, etc.

⁵⁾ The acoustic insulation was estimated on the basis of the INSUL simulation program.

• The firestop and anti-burglar wall systems constructed according to the Siniat technology act as the firestop partitions, with fire exposition from both their sides. It is acceptable to provide the anti-burglar walls constructed according to the Siniat technology with penetrations, they should be sealed / protected with fire-protective materials, acc. to the indications of the fire protective materials manufacturer, e.g. PROMAT company.

• The thickness of the insulation material, meeting the acoustic insulation parameters equal to the vertical C-type profile width (e.g. for the Nida C75 profile - glass wool thickness 75 mm).

• The bulk density of the insulation material is 12 kg/m³, depending on the wall type.

AMOUNT OF MATERIALS UTILISED PER 1M² OF ANTI-BURGLAR WALLS, ACCORDING TO NIDA ŚCIANA SYSTEM

Material name	UM	System type Nida Ściana					
		150C50/ Resistex	150CC50/ Resistex	200C75/ Resistex	200CC75/ Resistex	250C100/ Resistex	250CC100/ Resistex
		Consumption of material per 1m ²					
Resistex 12,5 mm plasterboard	m ²	4,0	4,0	4,0	4,0	4,0	4,0
Nida C50 profile	mb	3,6	7,2	-	-	-	-
Nida C75 profile	mb	-	-	3,6	7,2	-	-
Nida C100 profile	mb	-	-	-	-	3,6	7,2
Nida U50 profile	mb	1,4	1,4	-	-	-	-
Nida U75 profile	mb	-	-	1,4	1,4	-	-
Nida U100 profile	mb	-	-	-	-	1,4	1,4
Anchoring element ⁶⁾	szt.	3,6	3,6	3,6	3,6	3,6	3,6
Nida 3.5x25 mm sheet metal screws	szt.	14,0	14,0	14,0	14,0	14,0	14,0
Nida 3.5x45 mm sheet metal screws	szt.	24,0	24,0	24,0	24,0	24,0	24,0
Nida reinforcement tape	mb	2,8	2,8	2,8	2,8	2,8	2,8
Acoustic insulation tape	mb	2,2	2,2	2,2	2,2	2,2	2,2
Nida Start jointing compound ⁷⁾	kg	1,2	1,2	1,2	1,2	1,2	1,2
Nida Finish jointing compound	kg	0,2	0,2	0,2	0,2	0,2	0,2
Mineral wool ⁸⁾	m ²	2,0	2,0	2,0	2,0	2,0	2,0

⁶⁾ The type of the anchoring element should be selected individually adequately for the substrate type and the total mass of the encasement.

⁷⁾ Alternatively, apply the Nida Max gypsum compound.

⁸⁾ Application acc. to the requirements. When the utilised insulation material thickness and/or bulk density is different from the stated in the technical specification (Nida Drywall Encasement System - catalogue of solutions), contact with an appropriate Siniat technical advisor is required.

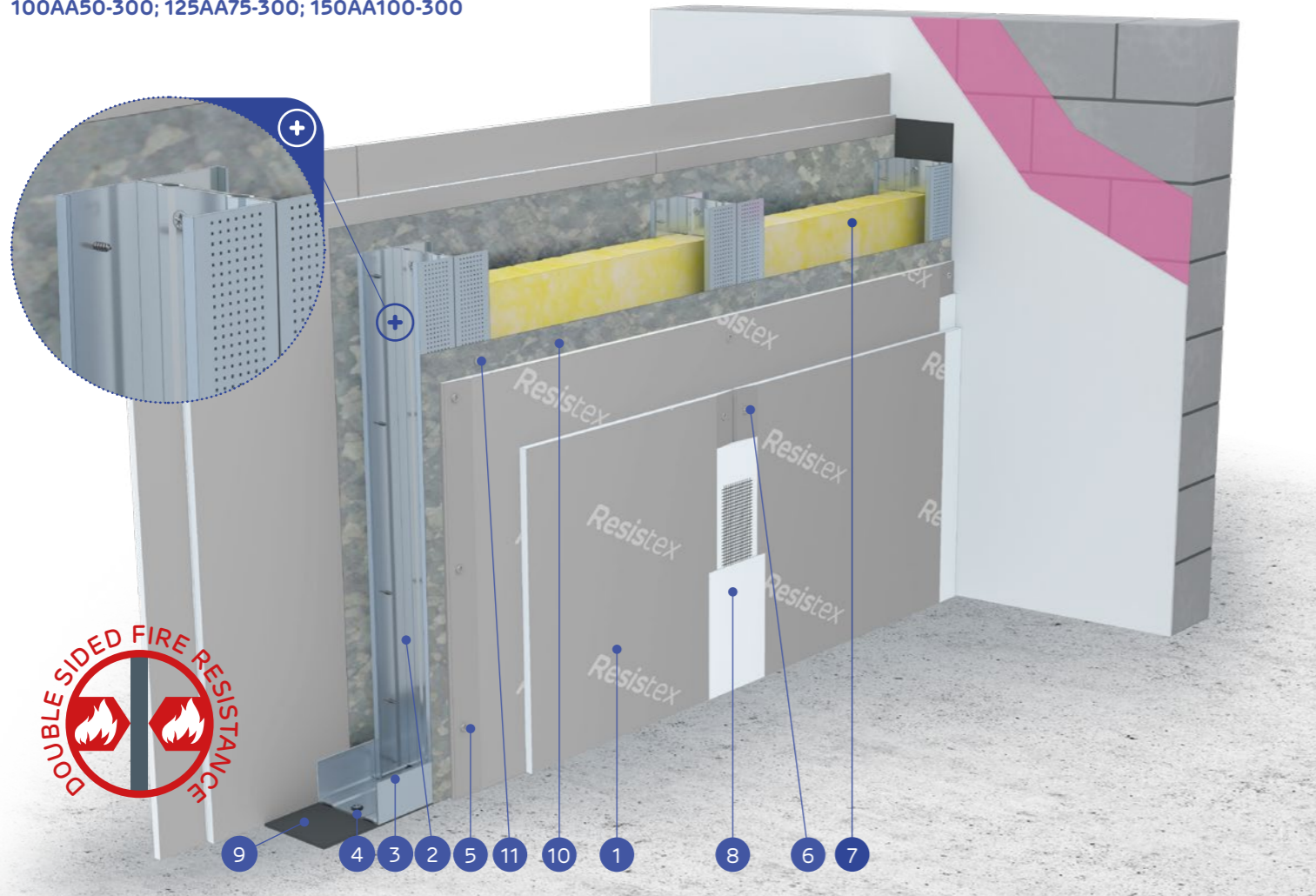
The standards concerning the amount of utilised material do not cover the loss of the material.

nida Ściana

Fire resistance class:
(R)EI120Burglar resistance class:
RC4Maximum acoustic insulation:
54 dBMaximum encasement height:
6500 mmNumber of related document:
EN 1627:2021Certyfikat odporności na włamanie:
Nr 00700/23

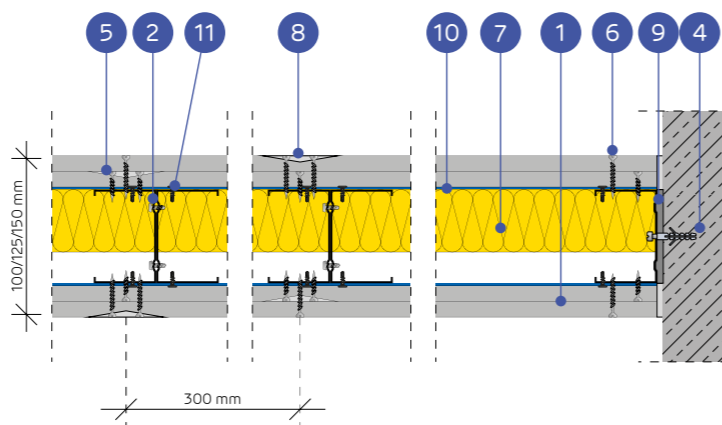
SYSTEMS:

100AA50-300; 125AA75-300; 150AA100-300



MATERIALS:

- Resistex plasterboards
- Nida C50 / C75 / C100 profile (doubled)
- Nida U50 / U75 / U100 profile
- Anchoring element
- Nida Hydro C3 3,5x25 mm screws for 2 mm thick sheet metal
- Nida Hydro C3 3,5x55 mm screws for 2 mm thick sheet metal
- Insulation material mineral wool
- Joint between plasterboards filled with Nida gypsum compound with Nida reinforcement tape
- Nida acoustic insulation tape width 50/70/95 mm
- Galvanised steel sheet thickness 1 mm (applied on both sides)
- FLAT HEAD 4,2x13 mm self-drilling screws for 1 mm sheet metal



ANTI-BURGLAR PARTITION WALL SYSTEM BASED ON DOUBLED NIDA C50, C75 AND C100 STRUCTURE

TECHNICAL PARAMETERS

System type Nida Ściana	Frame structure	Sheathing of plasterboards		Insulation material (mineral wool)				Maximum wall height - h ¹⁾ [mm]	Acoustic insulation			Encasement weight 1 m ² [kg]	Burglar resistance class ²⁾	Fire resist. class ³⁾ [min]	Utilisation category ETAG 003 class	Special system	
				Acoustic insulation		Fire resistance			Within fire resistance	R _w [dB]	R _{a1} [dB]						R _{a2} [dB]
				Minimum thickness [mm]	Density [kg/m ³]	Minimum thickness [mm]	Density [kg/m ³]										
100AA50-300/Resistex (BS)	2xC50	Resistex ⁴⁾	2x12,5	50	14,5	-	-	6500	48	42	34	69,0	RC4	(R)EI120	IV	●	
125AA75-300/Resistex (BS)	2xC75	Resistex ⁴⁾	2x12,5	75	14,5	-	-	6500	50	42	34	70,0	RC4	(R)EI120	IV	●	
150AA100-300/Resistex (BS)	2xC100	Resistex ⁴⁾	2x12,5	100	14,5	-	-	6500	54	47	39	71,0	RC4	(R)EI120	IV	●	

1) The maximum wall height acc. to O1060/11/R12NK ITB technical opinion.

2) The burglar resistance classes according to standard EN 1627:2021. The system holds the burglar resistance certificate no. 00696/23, issued by CERTEST certifying body.

3) The fire resistance class according to standard PN-EN 13501-2:2016-07.

4) The Resistex board type DFH2IR can be utilised in increased relative humidity environments up to 85% (up to 10 hour per day), e.g. bathrooms, kitchens, etc.

5) The acoustic insulation was estimated on the basis of the INSUL simulation program.

6) The firestop and anti-burglar wall systems constructed according to the Siniat technology act as the firestop partitions, with fire exposition from both their sides. It is acceptable to provide the anti-burglar walls constructed according to the Siniat technology with penetrations, they should be sealed / protected with fire-protective materials, acc. to the indications of the fire protective materials manufacturer, e.g. PROMAT company.

7) The thickness of the insulation material, meeting the acoustic insulation parameters equal to the vertical C- type profile width (e.g. for the Nida C75 profile - glass wool thickness 75 mm).

8) The bulk density of the insulation material is 14,5 kg/m³, depending on the wall type.AMOUNT OF MATERIALS UTILISED PER 1M² OF ANTI-BURGLAR WALLS, ACCORDING TO NIDA ŚCIANA SYSTEM

Material name	UM	System type Nida Ściana		
		100AA50-300/Resistex (BS)	125AA75-300/Resistex (BS)	150AA100-300/Resistex (BS)
		Consumption of material per 1m ²		
Resistex 12,5 mm plasterboard	m ²	4,0	4,0	4,0
Galvanised steel sheet 1,0 mm	m ²	2,0	2,0	2,0
Nida C50 profile	mb	7,2	-	-
Nida C75 profile	mb	-	7,2	-
Nida C100 profile	mb	-	-	7,2
Nida U50 profile	mb	0,7	-	-
Nida U75 profile	mb	-	0,7	-
Nida U100 profile	mb	-	-	0,7
Anchoring element ⁶⁾	szt.	1,8	1,8	1,8
FLAT HEAD 4,2x13 mm self-drilling screws for 1 mm sheet metal	szt.	36,0	36,0	36,0
Nida Hydro C3 3,5x25mm screws for 2 mm thick sheet metal	szt.	16,0	16,0	16,0
Nida Hydro C3 3,5x55mm screws for 2 mm thick sheet metal	szt.	48,0	48,0	48,0
Nida reinforcement tape	mb	2,8	2,8	2,8
Acoustic insulation tape	mb	0,6	0,6	0,6
Nida Start jointing compound ⁷⁾	kg	1,2	1,2	1,2
Nida Finish jointing compound	m ²	0,2	0,2	0,2
Mineral wool ⁸⁾	m ²	1,0	1,0	1,0

6) The type of the anchoring element should be selected individually adequately for the substrate type and the total mass of the encasement.

7) Alternatively, apply the Nida Max gypsum compound.

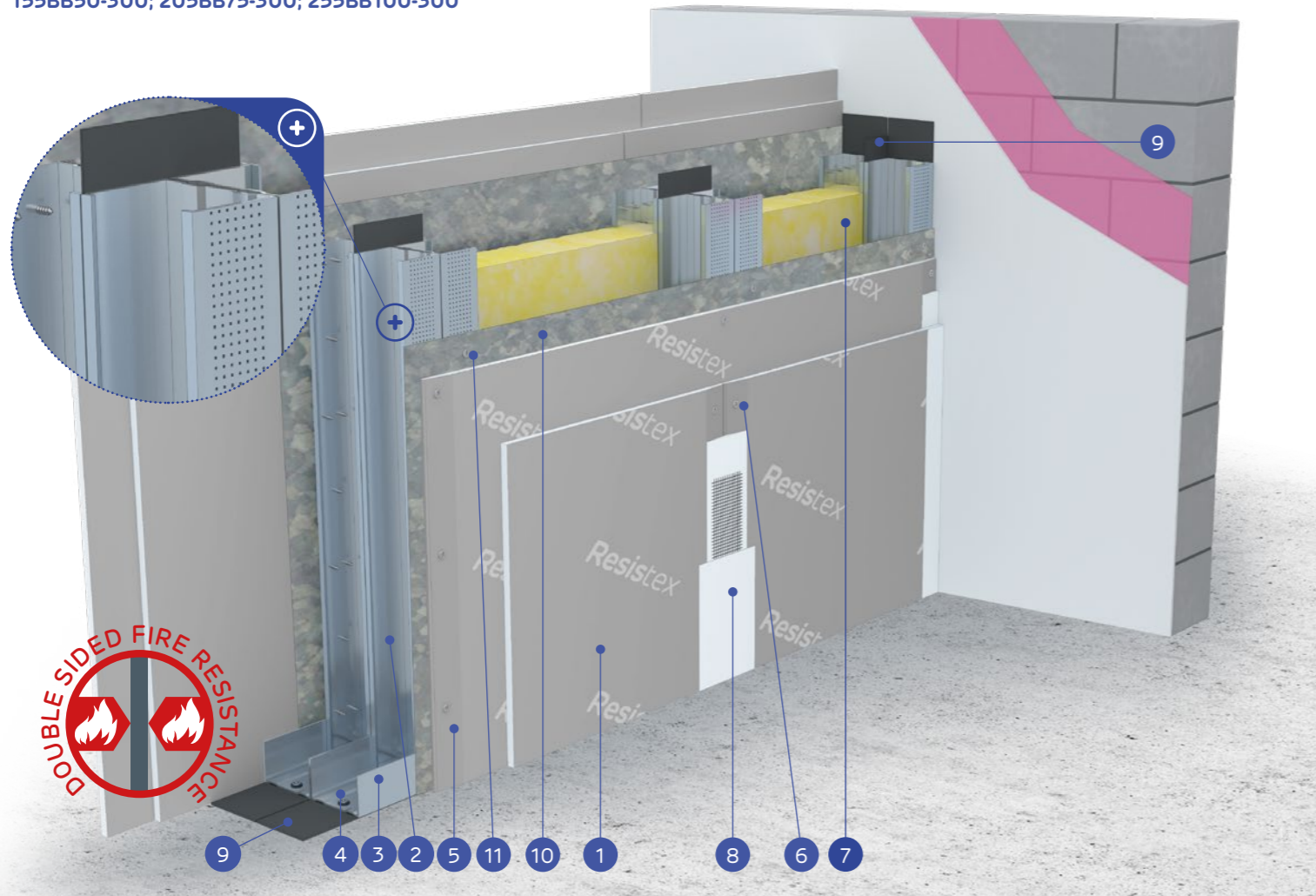
8) Application acc. to the requirements. When the utilised insulation material thickness and/or bulk density is different from the stated in the technical specification (Nida Drywall Encasement System - catalogue of solutions), contact with an appropriate Siniat technical advisor is required. The standards concerning the amount of utilised material do not cover the loss of the material.

nida Ściana

Fire resistance class:
(R)EI120Burglar resistance class:
RC4Maximum acoustic insulation:
73 dBMaximum encasement height:
6500 mmNumber of related document:
EN 1627:2021Certyfikat odporności na włamanie:
Nr 00700/23

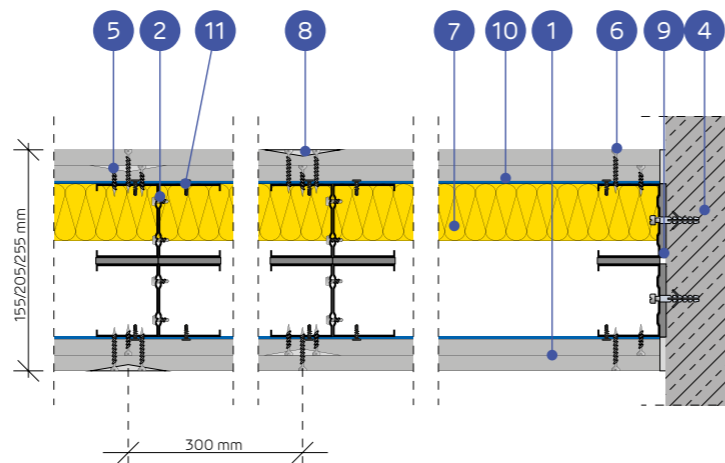
SYSTEMS:

155BB50-300; 205BB75-300; 255BB100-300



MATERIALS:

- Resistex plasterboards
- Nida C50 / C75 / C100 profile (doubled)
- Nida U50 / U75 / U100 profile
- Anchoring element
- Nida Hydro C3 3,5x25 mm screws for 2 mm thick sheet metal
- Nida Hydro C3 3,5x55 mm screws for 2 mm thick sheet metal
- Insulation material mineral wool
- Joint between plasterboards filled with Nida gypsum compound with Nida reinforcement tape
- Nida acoustic insulation tape width 50/70/95 mm
- Galvanised steel sheet thickness 1 mm (applied on both sides)
- FLAT HEAD 4,2x13 mm self-drilling screws for 1 mm sheet metal



ANTI-BURGLAR PARTITION WALL SYSTEM BASED ON TWO-ROW DOUBLED NIDA C50, C75 AND C100 STRUCTURE

TECHNICAL PARAMETERS

System type Nida Ściana	Frame structure	Sheathing of plasterboards		Insulation material (mineral wool)				Maximum wall height - h ¹⁾ [mm]	Acoustic insulation ⁵⁾			Encasement weight 1 m ² [kg]	Burglar resistance class ²⁾	Fire resist. class ³⁾ [min]	Utilisation category ETAG 003 class	Special system	
				Acoustic insulation		Fire resistance			Within fire resistance	R _w [dB]	R _{A1} [dB]						R _{A2} [dB]
				Minimum thickness [mm]	Density [kg/m ³]	Minimum thickness [mm]	Density [kg/m ³]										
155BB50-300/Resistex (BS)	2xC50+2xC50	Resistex ⁴⁾	2x12,5	2x50	14,5	-	-	6500	66	63	55	76,0	RC4	(R)EI120	IV	●	
205BB75-300/Resistex (BS)	2xC75+2xC75	Resistex ⁴⁾	2x12,5	2x75	14,5	-	-	6500	71	67	60	78,0	RC4	(R)EI120	IV	●	
255BB100-300/Resistex (BS)	2xC100+2xC100	Resistex ⁴⁾	2x12,5	2x100	14,5	-	-	6500	73	70	63	80,0	RC4	(R)EI120	IV	●	

¹⁾ The maximum wall height acc. to 1060/12/R48NK ITB technical opinion.²⁾ The burglar resistance classes according to standard EN 1627:2021. The system holds the burglar resistance certificate no. 00696/23, issued by CERTEST certifying body.³⁾ The fire resistance class according to standard PN-EN 13501-2:2016-07.⁴⁾ The Resistex board type DFH2IR can be utilised in increased relative humidity environments up to 85% (up to 10 hour per day), e.g. bathrooms, kitchens, etc.⁵⁾ The acoustic insulation was estimated on the basis of the INSUL simulation program.

IMPORTANT! During the designing process of the Type B walls, when dealing with the maximum acceptable wall height it is advisable to consult a Siniat Technical Advisor in order to verify the requirements considering stiffness of a partition (this does not include the wall systems with the Nida PWA vibro-acoustic lacing).

- The firestop and anti-burglar wall systems constructed according to the Siniat technology act as the firestop partitions, with fire exposition from both their sides. It is acceptable to provide the anti-burglar walls constructed according to the Siniat technology with penetrations, they should be sealed / protected with fire-protective materials, acc. to the indications of the fire protective materials manufacturer, e.g. PROMAT company.
- The thickness of the insulation material, meeting the acoustic insulation parameters equal to the vertical C-type profile width (e.g. for the Nida C75 profile - glass wool thickness 75 mm).
- The bulk density of the insulation material is 14,5 kg/m³, depending on the wall type.

AMOUNT OF MATERIALS UTILISED PER 1M² OF ANTI-BURGLAR WALLS, ACCORDING TO NIDA ŚCIANA SYSTEM

Material name	UM	System type Nida Ściana		
		155BB50-300/ Resistex (BS)	205BB75-300/ Resistex (BS)	255BB100-300/ Resistex (BS)
		Consumption of material per 1m ²		
Resistex 12,5 mm plasterboard	m ²	4,0	4,0	4,0
Galvanised steel sheet 1,0 mm	m ²	2,0	2,0	2,0
Nida C50 profile	mb	14,4	-	-
Nida C75 profile	mb	-	14,4	-
Nida C100 profile	mb	-	-	14,4
Nida U50 profile	mb	1,4	-	-
Nida U75 profile	mb	-	1,4	-
Nida U100 profile	mb	-	-	1,4
Anchoring element ⁶⁾	szt.	3,6	3,6	3,6
FLAT HEAD 4,2x13 mm self-drilling screws for 1 mm sheet metal	szt.	48,0	48,0	48,0
Nida Hydro C3 3,5x25 mm screws for 2 mm thick sheet metal	szt.	16,0	16,0	16,0
Nida Hydro C3 3,5x55 mm screws for 2 mm thick sheet metal	szt.	48,0	48,0	48,0
Nida reinforcement tape	mb	2,8	2,8	2,8
Acoustic insulation tape	mb	4,8	4,8	4,8
Nida Start jointing compound ⁷⁾	kg	1,2	1,2	1,2
Nida Finish jointing compound	m ²	0,2	0,2	0,2
Mineral wool ⁸⁾	m ²	2,0	2,0	2,0

⁶⁾ The type of the anchoring element should be selected individually adequately for the substrate type and the total mass of the encasement.⁷⁾ Alternatively, apply the Nida Max gypsum compound.⁸⁾ Application acc. to the requirements. When the utilised insulation material thickness and/or bulk density is different from the stated in the technical specification (Nida Drywall Encasement System - catalogue of solutions), contact with an appropriate Siniat technical advisor is required. The standards concerning the amount of utilised material do not cover the loss of the material.

nida Ściana

Fire resistance class:
(R)E120

Burglar resistance class:
RC4

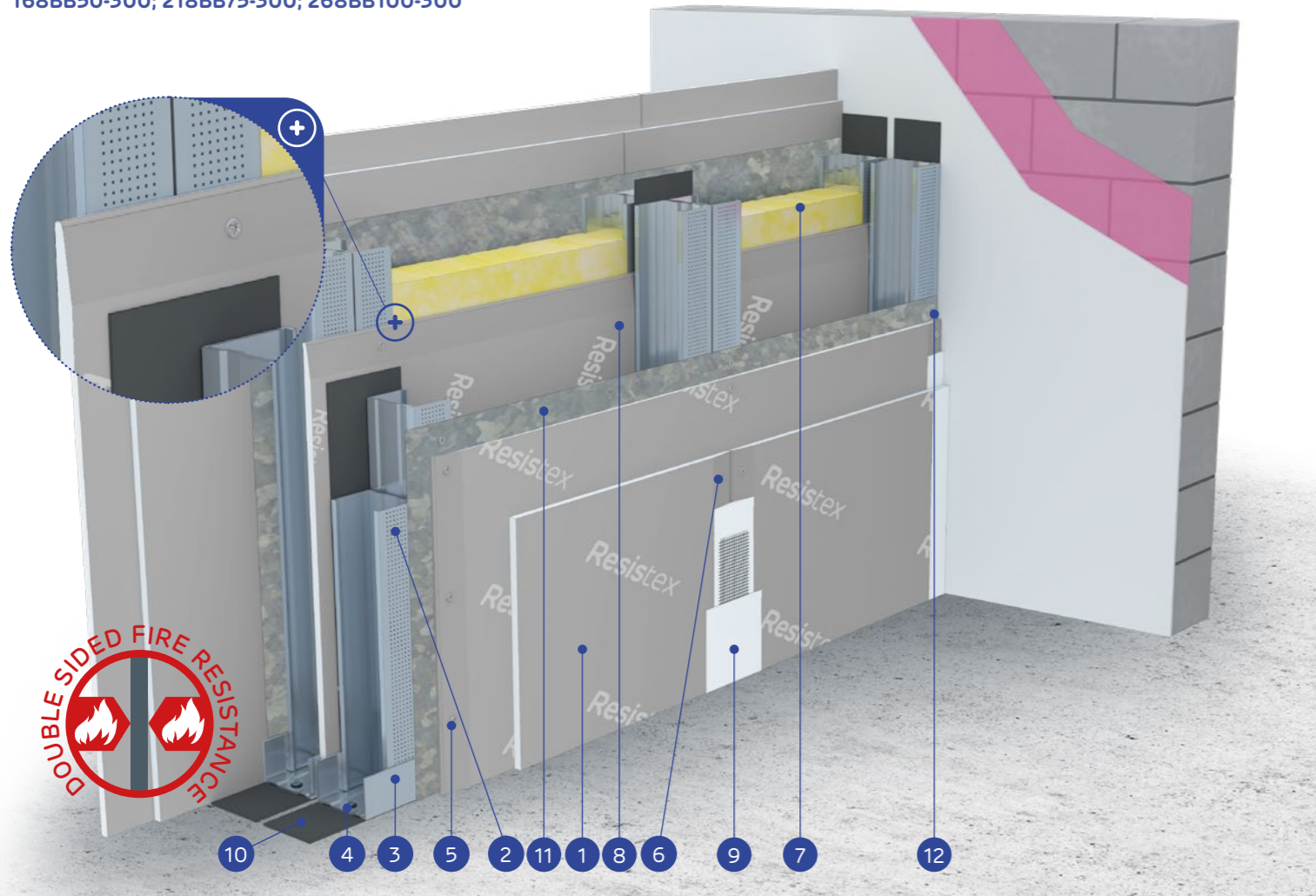
Maximum acoustic insulation:
63 dB

Maximum encasement height:
6500 mm

Number of related document:
EN 1627:2021

Burglar resistance certificate:
 Nr 00700/23

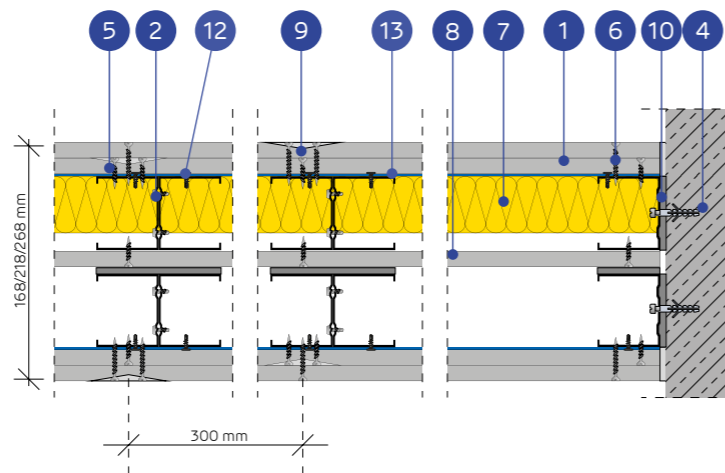
SYSTEMS:
168BB50-300; 218BB75-300; 268BB100-300



MATERIALS:

1. Resistex plasterboards
2. Nida C50 / C75 / C100 profile (doubled)
3. Nida U50 / U75 / U100 profile
4. Anchoring element
5. Nida Hydro C3 3,5x25 mm screws for 2 mm thick sheet metal
6. Nida Hydro C3 3,5x55 mm screws for 2 mm thick sheet metal
7. Insulation material mineral wool
8. Resistex stiffening board *
9. Joint between plasterboards filled with Nida gypsum compound with Nida reinforcement tape
10. Nida acoustic insulation tape width 50/70/95 mm
11. Galvanised steel sheet thickness 1 mm (applied on both sides)
12. FLAT HEAD 4,2x13 mm self-drilling screws for 1 mm sheet metal

* It is acceptable to change for boards of the following types: DFH11R, DEFH11R



THE ACOUSTIC ANTI-BURGLAR PARTITION WALL SYSTEM BASED ON DOUBLE-ROW DOUBLED STRUCTURES OF THE NIDA C50, C75, C100 PROFILES WITH INTERNAL STIFFENING BOARD

TECHNICAL PARAMETERS

System type Nida Ściana	Frame structure	Sheathing of plasterboards	Insulation material (mineral wool)						Maximum wall height - h ¹⁾ [mm]	Acoustic insulation ⁵⁾			Encasement weight 1 m ² [kg]	Burglar resistance class ²⁾	Fire resist. class ³⁾ [min]	Utilisation category ETAG 003 class	Special system
			Acoustic insulation		Fire resistance		Within fire resistance	R _w [dB]		R _{w1} [dB]	R _{w2} [dB]						
			Thickness [mm]	Minimum thickness [mm]	Density [kg/m ³]	Minimum thickness [mm]						Density [kg/m ³]					
168BB50-300/Resistex(BS)	2xC50+2xC50	Resistex ⁴⁾	2x12,5	2x50	14,5	-	-	6500	62	59	53	87,0	RC4	(R)E120	IV	●	
218BB75-300/Resistex (BS)	2xC75+2xC75	Resistex ⁴⁾	2x12,5	2x75	14,5	-	-	6500	62	60	56	89,0	RC4	(R)E120	IV	●	
268BB100-300/Resistex (BS)	2xC100+2xC100	Resistex ⁴⁾	2x12,5	2x100	14,5	-	-	6500	63	61	59	91,0	RC4	(R)E120	IV	●	

- ¹⁾ The maximum wall height acc. to 1060/12/R48NK ITB technical opinion.
 - ²⁾ The burglar resistance classes according to standard EN 1627:2021. The system holds the burglar resistance certificate no. 00696/23, issued by CERTEST certifying body.
 - ³⁾ The fire resistance class according to standard PN-EN 13501-2:2016-07.
 - ⁴⁾ The Resistex board type DFH21R can be utilised in increased relative humidity environments up to 85% (up to 10 hour per day), e.g. bathrooms, kitchens, etc.
 - ⁵⁾ The acoustic insulation was estimated on the basis of the INSUL simulation program.
- The firestop and anti-burglar wall systems constructed according to the Siniat technology act as the firestop partitions, with fire exposition from both their sides. It is acceptable to provide the anti-burglar walls constructed according to the Siniat technology with penetrations, they should be sealed / protected with fire-protective materials, acc. to the indications of the fire protective materials manufacturer, e.g. PROMAT company.
 - The thickness of the insulation material, meeting the acoustic insulation parameters equal to the vertical C- type profile width (e.g. for the Nida C75 profile - glass wool thickness 75 mm).
 - The bulk density of the insulation material is 14,5 kg/m³, depending on the wall type.
 - It is acceptable to change the internal stiffening board Resistex for boards of the following types: DFH11R, DEFH11R.

AMOUNT OF MATERIALS UTILISED PER 1M² OF ANTI-BURGLAR WALLS, ACCORDING TO NIDA ŚCIANA SYSTEM

Material name	UM	System type Nida Ściana		
		168BB50/Resistex (BS)	218BB75/Resistex (BS)	268BB100/Resistex (BS)
		Consumption of material per 1m ²		
Resistex 12,5 mm plasterboard	m ²	5,0	5,0	5,0
Galvanised steel sheet 1,0 mm	m ²	2,0	2,0	2,0
Nida C50 profile	mb	14,4	-	-
Nida C75 profile	mb	-	14,4	-
Nida C100 profile	mb	-	-	14,4
Nida U50 profile	mb	1,4	-	-
Nida U75 profile	mb	-	1,4	-
Nida U100 profile	mb	-	-	1,4
Anchoring element ⁶⁾	szt.	3,6	3,6	3,6
FLAT HEAD 4,2x13 mm self-drilling screws for 1 mm sheet metal	szt.	48,0	48,0	48,0
Nida 3,5x25 mm sheet metal screws	szt.	16,0	16,0	16,0
Nida Hydro C3 3,5x25mm screws for 2 mm thick sheet metal	szt.	16,0	16,0	16,0
Nida Hydro C3 3,5x55mm screws for 2 mm thick sheet metal	szt.	48,0	48,0	48,0
Nida reinforcement tape	mb	2,8	2,8	2,8
Acoustic insulation tape	mb	4,8	4,8	4,8
Nida Start jointing compound ⁷⁾	kg	1,2	1,2	1,2
Nida Finish jointing compound	m ²	0,2	0,2	0,2
Mineral wool ⁸⁾	m ²	2,0	2,0	2,0

- ⁶⁾ The type of the anchoring element should be selected individually adequately for the substrate type and the total mass of the encasement.
- ⁷⁾ Alternatively, apply the Nida Max gypsum compound.
- ⁸⁾ Application acc. to the requirements. When the utilised insulation material thickness and/or bulk density is different from the stated in the technical specification (Nida Drywall Encasement System - catalogue of solutions), contact with an appropriate Siniat technical advisor is required. The standards concerning the amount of utilised material do not cover the loss of the material.

nida Ściana



Fire resistance class:
(R)EI120



Burglar resistance class:
RC4



Maximum acoustic insulation:
73 dB



Maximum encasement height:
6500 mm



Number of related document:
EN 1627:2021

Certyfikat odporności na włamanie:
Nr 00700/23

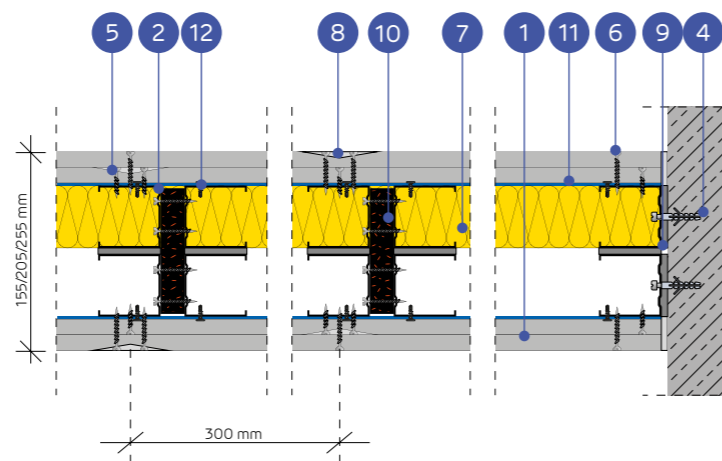
SYSTEMS:

155BB50-300-PWA; 205BB75-300-PWA; 255BB100-300-PWA



MATERIALS:

1. Resistex plasterboards
2. Nida C50 / C75 / C100 profile (doubled)
3. Nida U50 / U75 / U100 profile
4. Anchoring element
5. Nida Hydro C3 3,5x25 mm screws for 2 mm thick sheet metal
6. Nida Hydro C3 3,5x55 mm screws for 2 mm thick sheet metal
7. Insulation material mineral wool
8. Joint between plasterboards filled with Nida gypsum compound with Nida reinforcement tape
9. Nida acoustic insulation tape width 50/70/95 mm
10. Nida PWA vibro-acoustic lacing
11. Galvanised steel sheet thickness 1 mm (applied on both sides)
12. FLAT HEAD 4,2x13 mm self-drilling screws for 1 mm sheet metal



ANTI-BURGLAR PARTITION WALL SYSTEM BASED ON TWO-ROW DOUBLED NIDA C50, C75 AND C100 STRUCTURE (NIDA PWA)

TECHNICAL PARAMETERS

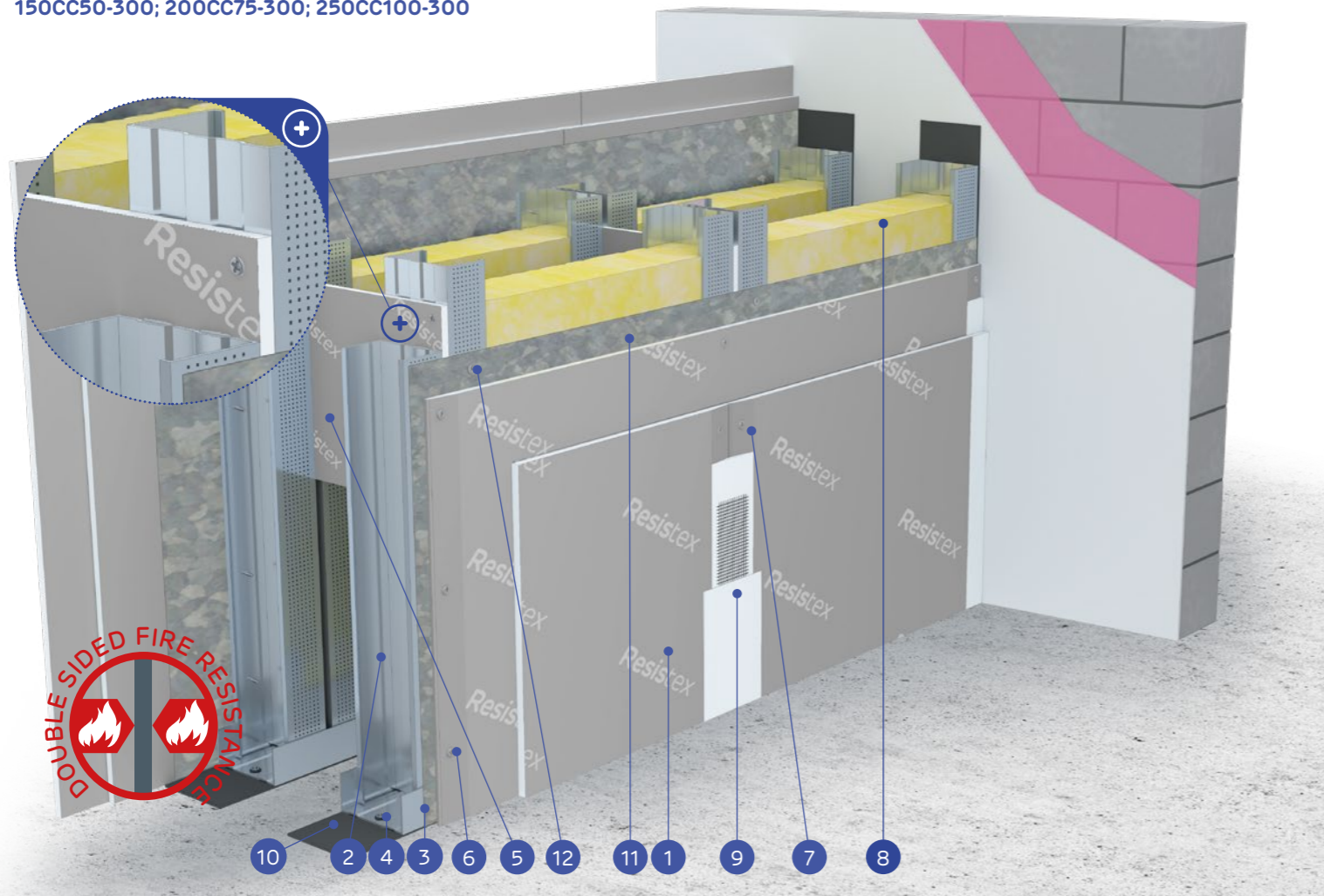
System type Nida Ściana	Frame structure	Sheathing of plasterboards		Insulation material (mineral wool)				Maximum wall height - h ¹⁾ [mm]	Acoustic insulation ⁵⁾			Encasement weight 1 m ² [kg]	Burglar resistance class ²⁾	Fire resist. class ³⁾ [min]	Utilisation category ETAG 003 class	Special system	
				Acoustic insulation		Fire resistance			Within fire resistance	R _w [dB]	R _{A1} [dB]						R _{A2} [dB]
				Minimum thickness [mm]	Density [kg/m ³]	Minimum thickness [mm]	Density [kg/m ³]										
155BB50-300-PWA/Resistex(BS)	2xC50+2xC50	Resistex ⁴⁾	2x12,5	2x50	14,5	-	-	6500	66	63	55	76,0	RC4	(R)EI120	IV	●	
205BB75-300-PWA/Resistex (BS)	2xC75+2xC75	Resistex ⁴⁾	2x12,5	2x75	14,5	-	-	6500	71	67	60	78,0	RC4	(R)EI120	IV	●	
255BB100-300-PWA/Resistex (BS)	2xC100+2xC100	Resistex ⁴⁾	2x12,5	2x100	14,5	-	-	6500	73	70	63	80,0	RC4	(R)EI120	IV	●	

- ¹⁾ The maximum wall height acc. to 1060/12/R48NK ITB technical opinion.
- ²⁾ The burglar resistance classes according to standard EN 1627:2021. The system holds the burglar resistance certificate no. 00696/23, issued by CERTEST certifying body.
- ³⁾ The fire resistance class according to standard PN-EN 13501-2:2016-07.
- ⁴⁾ The Resistex board type DFH2IR can be utilised in increased relative humidity environments up to 85% (up to 10 hour per day), e.g. bathrooms, kitchens, etc.
- ⁵⁾ The acoustic insulation was estimated on the basis of the INSUL simulation program.
- The firestop and anti-burglar wall systems constructed according to the Siniat technology act as the firestop partitions, with fire exposition from both their sides. It is acceptable to provide the anti-burglar walls constructed according to the Siniat technology with penetrations, they should be sealed / protected with fire-protective materials, acc. to the indications of the fire protective materials manufacturer, e.g. PROMAT company.
- The thickness of the insulation material, meeting the acoustic insulation parameters equal to the vertical C- type profile width (e.g. for the Nida C75 profile - glass wool thickness 75 mm).
- The bulk density of the insulation material is 14,5 kg/m³, depending on the wall type.

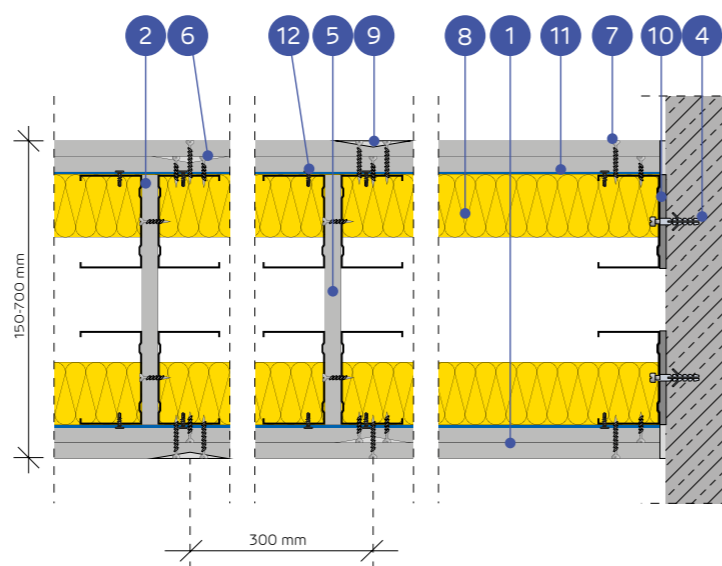
AMOUNT OF MATERIALS UTILISED PER 1M² OF ANTI-BURGLAR WALLS, ACCORDING TO NIDA ŚCIANA SYSTEM

Material name	UM	System type Nida Ściana		
		155BB50-300-PWA/ Resistex (BS)	205BB75-300-PWA/ Resistex (BS)	255BB100-300-PWA/ Resistex (BS)
		Consumption of material per 1m ²		
Resistex 12,5 mm plasterboard	m ²	4,0	4,0	4,0
Galvanised steel sheet 1,0 mm	m ²	2,0	2,0	2,0
Nida C50 profile	mb	14,4	-	-
Nida C75 profile	mb	-	14,4	-
Nida C100 profile	mb	-	-	14,4
Nida U50 profile	mb	1,4	-	-
Nida U75 profile	mb	-	1,4	-
Nida U100 profile	mb	-	-	1,4
PWA50 vibro-acoustic lacing	szt.	1,1	-	-
PWA75 vibro-acoustic lacing	szt.	-	1,1	-
PWA100 vibro-acoustic lacing	szt.	-	-	1,1
Anchoring element ⁶⁾	szt.	3,6	3,6	3,6
FLAT HEAD 4,2x13 mm self-drilling screws for 1 mm sheet metal	szt.	24,0	24,0	24,0
Nida Hydro C3 3,5x25mm screws for 2 mm thick sheet metal	szt.	16,0	16,0	16,0
Nida Hydro C3 3,5x55mm screws for 2 mm thick sheet metal	szt.	62,0	62,0	62,0
Nida reinforcement tape	mb	2,8	2,8	2,8
Acoustic insulation tape	mb	4,8	4,8	4,8
Nida Start jointing compound ⁷⁾	kg	1,2	1,2	1,2
Nida Finish jointing compound	m ²	0,2	0,2	0,2
Mineral wool ⁸⁾	m ²	2,0	2,0	2,0

- ⁶⁾ The type of the anchoring element should be selected individually adequately for the substrate type and the total mass of the encasement.
- ⁷⁾ Alternatively, apply the Nida Max gypsum compound.
- ⁸⁾ Application acc. to the requirements. When the utilised insulation material thickness and/or bulk density is different from the stated in the technical specification (Nida Drywall Encasement System - catalogue of solutions), contact with an appropriate Siniat technical advisor is required. The standards concerning the amount of utilised material do not cover the loss of the material.

nida ŚcianaFire resistance class:
(R)EI120Burglar resistance class:
RC4Maximum acoustic insulation:
60 dBMaximum encasement height:
6500 mmNumber of related document:
EN 1627:2021Certyfikat odporności na włamanie:
Nr 00700/23**SYSTEMS:****150CC50-300; 200CC75-300; 250CC100-300****MATERIALS:**

- Resistex plasterboards
- Nida C50 / C75 / C100 profile (doubled)
- Nida U50 / U75 / U100 profile
- Anchoring element
- Przewiązka z płyty Resistex wys. 300 mm, min. 2 szt. na słupek (max. rozstaw co 1500 mm)
- Nida Hydro C3 3,5x25 mm screws for 2 mm thick sheet metal
- Nida Hydro C3 3,5x55 mm screws for 2 mm thick sheet metal
- Insulation material mineral wool
- Joint between plasterboards filled with Nida gypsum compound with Nida reinforcement tape
- Nida acoustic insulation tape width 50/70/95 mm
- Galvanised steel sheet thickness 1 mm (applied on both sides)
- FLAT HEAD 4,2x13 mm self-drilling screws for 1 mm sheet metal

**ANTI-BURGLAR PARTITION WALL SYSTEM BASED ON TWO-ROW DOUBLED NIDA C50, C75 AND C100 STRUCTURE (WALLS FOR INSTALLATIONS)****TECHNICAL PARAMETERS**

System type Nida Ściana	Frame structure	Sheathing of plasterboards		Insulation material (mineral wool)				Maximum wall height - h ¹⁾ [mm]	Acoustic insulation			Encasement weight 1 m ² [kg]	Burglar resistance class ²⁾	Fire resist. class ³⁾ [min]	Utilisation category ETAG 003 class	Special system
				Fire resistance		Within fire resistance	R _w [dB]		R _{A1} [dB]	R _{A2} [dB]						
				Minimum thickness [mm]	Density [kg/m ³]						Minimum thickness [mm]					
150CC50-300/Resistex(BS)	2xC50+2xC50	Resistex ⁴⁾	2x12,5	2x50	14,5	-	-	6500	54	47	39	76,0	RC4	(R)EI120	IV	●
200CC75-300/Resistex (BS)	2xC75+2xC75	Resistex ⁴⁾	2x12,5	2x75	14,5	-	-	6500	58	54	48	78,0	RC4	(R)EI120	IV	●
250CC100-300/Resistex (BS)	2xC100+2xC100	Resistex ⁴⁾	2x12,5	2x100	14,5	-	-	6500	60	57	52	80,0	RC4	(R)EI120	IV	●

¹⁾ The maximum wall height acc. to 1060/12/R48NK ITB technical opinion.²⁾ The burglar resistance classes according to standard EN 1627:2021. The system holds the burglar resistance certificate no. 00696/23, issued by CERTEST certifying body.³⁾ The fire resistance class according to standard PN-EN 13501-2:2016-07.⁴⁾ The Resistex board type DFH2IR can be utilised in increased relative humidity environments up to 85% (up to 10 hour per day), e.g. bathrooms, kitchens, etc.⁵⁾ The acoustic insulation was estimated on the basis of the INSUL simulation program.

• The firestop and anti-burglar wall systems constructed according to the Siniat technology act as the firestop partitions, with fire exposition from both their sides. It is acceptable to provide the anti-burglar walls constructed according to the Siniat technology with penetrations, they should be sealed / protected with fire-protective materials, acc. to the indications of the fire protective materials manufacturer, e.g. PROMAT company.

• The thickness of the insulation material, meeting the acoustic insulation parameters equal to the vertical C- type profile width (e.g. for the Nida C75 profile - glass wool thickness 75 mm).

• The bulk density of the insulation material is 14,5 kg/m³, depending on the wall type.

AMOUNT OF MATERIALS UTILISED PER 1M² OF ANTI-BURGLAR WALLS, ACCORDING TO NIDA ŚCIANA SYSTEM

Material name	UM	System type Nida Ściana		
		150CC50-300/ Resistex (BS)	200CC75-300/ Resistex (BS)	250CC100-300/ Resistex (BS)
		Consumption of material per 1m ²		
Resistex 12,5 mm plasterboard	m ²	4,0	4,0	4,0
Galvanised steel sheet 1,0 mm	m ²	2,0	2,0	2,0
Nida C50 profile	mb	14,4	-	-
Nida C75 profile	mb	-	14,4	-
Nida C100 profile	mb	-	-	14,4
Nida U50 profile	mb	1,4	-	-
Nida U75 profile	mb	-	1,4	-
Nida U100 profile	mb	-	-	1,4
Anchoring element ⁶⁾	szt.	3,6	3,6	3,6
FLAT HEAD 4,2x13 mm self-drilling screws for 1 mm sheet metal	szt.	24,0	24,0	24,0
Nida Hydro C3 3,5x25mm screws for 2 mm thick sheet metal	szt.	28,0	28,0	28,0
Nida Hydro C3 3,5x55mm screws for 2 mm thick sheet metal	szt.	48,0	48,0	48,0
Nida reinforcement tape	mb	2,8	2,8	2,8
Acoustic insulation tape	mb	2,4	2,4	2,4
Nida Start jointing compound ⁷⁾	kg	1,2	1,2	1,2
Nida Finish jointing compound	m ²	0,2	0,2	0,2
Mineral wool ⁸⁾	m ²	2,0	2,0	2,0

⁶⁾ The type of the anchoring element should be selected individually adequately for the substrate type and the total mass of the encasement.⁷⁾ Alternatively, apply the Nida Max gypsum compound.

⁸⁾ Application acc. to the requirements. When the utilised insulation material thickness and/or bulk density is different from the stated in the technical specification (Nida Drywall Encasement System - catalogue of solutions), contact with an appropriate Siniat technical advisor is required. The standards concerning the amount of utilised material do not cover the loss of the material.

nida Ściana

THE TABLES FOR SELECTING THE MAXIMUM HEIGHT FOR THE NIDA ŚCIANA SYSTEM WITH THE APPLIED REDUCED SPACING AND/OR DOUBLING OF THE NIDA C50, C75, C100 LOAD-BEARING STRUCTURE WITHOUT FIRE RESISTANCE REQUIREMENTS (THE TWO-ROW ARRANGEMENT OF THE STRUCTURE)

TECHNICAL PARAMETERS						
System type Nida Ściana	Number of layers of Nida boards	Construction type Nida		Maximum wall height - h ¹⁾		ETAG 003
		Nida profile type	Axial spacing of Nida profiles	1 ²⁾	2 ³⁾	
	[mm]			[mm]	[mm]	
155B50	2x12,5	C50+C50	600	4500	4000	IV
155B50-PWA	2x12,5	C50+C50	600	5500	4200	IV
155B50-400	2x12,5	C50+C50	400	4730	4200	IV
155B50-400-PWA	2x12,5	C50+C50	400	5700	4410	IV
155B50-300	2x12,5	C50+C50	300	5200	4620	IV
155B50-300-PWA	2x12,5	C50+C50	300	5900	4760	IV
155BB50	2x12,5	2xC50+2xC50	600	5500	5000	IV
155BB50-PWA	2x12,5	2xC50+2xC50	600	6330	5200	IV
155BB50-400	2x12,5	2xC50+2xC50	400	5780	5250	IV
155BB50-400-PWA	2x12,5	2xC50+2xC50	400	6560	5450	IV
155BB50-300	2x12,5	2xC50+2xC50	300	6060	5510	IV
155BB50-300-PWA	2x12,5	2xC50+2xC50	300	6790	5600	IV
205B75	2x12,5	C75+C75	600	6000	5250	IV
205B75-PWA	2x12,5	C75+C75	600	6200	5750	IV
205B75-400	2x12,5	C75+C75	400	6300	5510	IV
205B75-400-PWA	2x12,5	C75+C75	400	6510	6040	IV
205B75-300	2x12,5	C75+C75	300	6430	5620	IV
205B75-300-PWA	2x12,5	C75+C75	300	6840	6340	IV
205BB75	2x12,5	2xC75+2xC75	600	6500	5750	IV
205BB75-PWA	2x12,5	2xC75+2xC75	600	6970	6470	IV
205BB75-400	2x12,5	2xC75+2xC75	400	6630	5870	IV
205BB75-400-PWA	2x12,5	2xC75+2xC75	400	7180	6660	IV
205BB75-300	2x12,5	2xC75+2xC75	300	6760	5980	IV
205BB75-300-PWA	2x12,5	2xC75+2xC75	300	7400	6790	IV
255B100	2x12,5	C100+C100	600	6500	5750	IV
255B100-PWA	2x12,5	C100+C100	600	6700	6210	IV
255B100-400	2x12,5	C100+C100	400	6700	5920	IV
255B100-400-PWA	2x12,5	C100+C100	400	7030	6520	IV
255B100-300	2x12,5	C100+C100	300	6830	6040	IV
255B100-300-PWA	2x12,5	C100+C100	300	7240	6720	IV
255BB100	2x12,5	2xC100+2xC100	600	7000	6250	IV
255BB100-PWA	2x12,5	2xC100+2xC100	600	7160	6640	IV
255BB100-400	2x12,5	2xC100+2xC100	400	7210	6440	IV
255BB100-400-PWA	2x12,5	2xC100+2xC100	400	7520	6980	IV
255BB100-300	2x12,5	2xC100+2xC100	300	7350	6570	IV
255BB100-300-PWA	2x12,5	2xC100+2xC100	300	7750	7190	IV

¹⁾ Technical opinion ITB 1060/11/R12NK; ITB 1060/12/R48NK.

²⁾ Range 1 – Includes the walls of rooms occupied by a limited number of people, e.g. apartment rooms, hotel rooms, hospital rooms, and other utilised in a similar manner.

³⁾ Range 2 – includes the walls of rooms occupied by a large number of people, e.g. large conference halls, classrooms, lecture rooms, and other utilised in a similar manner.

nida Ściana

THE TABLES FOR SELECTING THE MAXIMUM HEIGHT FOR THE NIDA ŚCIANA SYSTEM WITH THE APPLIED REDUCED SPACING AND/OR DOUBLING OF THE NIDA C50, C75, C100 LOAD-BEARING STRUCTURE WITHOUT FIRE RESISTANCE REQUIREMENTS (THE TWO-ROW ARRANGEMENT OF THE STRUCTURE)

TECHNICAL PARAMETERS						
System type Nida Ściana	Number of layers of Nida boards	Construction type Nida		Maximum wall height - h ¹⁾		ETAG 003
		Nida profile type	Axial spacing of Nida profiles	1 ²⁾	2 ³⁾	
	[mm]			[mm]	[mm]	
180B50	3x12,5	C50+C50	600	4500	4000	IV
180B50-PWA	3x12,5	C50+C50	600	5500	4200	IV
180B50-400	3x12,5	C50+C50	400	4730	4200	IV
180B50-400-PWA	3x12,5	C50+C50	400	5700	4410	IV
180B50-300	3x12,5	C50+C50	300	5200	4620	IV
180B50-300-PWA	3x12,5	C50+C50	300	5900	4760	IV
180BB50	3x12,5	2xC50+2xC50	600	5500	5000	IV
180BB50-PWA	3x12,5	2xC50+2xC50	600	6330	5200	IV
180BB50-400	3x12,5	2xC50+2xC50	400	5780	5250	IV
180BB50-400-PWA	3x12,5	2xC50+2xC50	400	6560	5450	IV
180BB50-300	3x12,5	2xC50+2xC50	300	6060	5510	IV
180BB50-300-PWA	3x12,5	2xC50+2xC50	300	6790	5600	IV
230B75	3x12,5	C75+C75	600	6000	5250	IV
230B75-PWA	3x12,5	C75+C75	600	6200	5750	IV
230B75-400	3x12,5	C75+C75	400	6300	5510	IV
230B75-400-PWA	3x12,5	C75+C75	400	6510	6040	IV
230B75-300	3x12,5	C75+C75	300	6430	5620	IV
230B75-300-PWA	3x12,5	C75+C75	300	6840	6340	IV
230BB75	3x12,5	2xC75+2xC75	600	6500	5750	IV
230BB75-PWA	3x12,5	2xC75+2xC75	600	6970	6470	IV
230BB75-400	3x12,5	2xC75+2xC75	400	6630	5870	IV
230BB75-400-PWA	3x12,5	2xC75+2xC75	400	7180	6660	IV
230BB75-300	3x12,5	2xC75+2xC75	300	6760	5980	IV
230BB75-300-PWA	3x12,5	2xC75+2xC75	300	7400	6790	IV
280B100	3x12,5	C100+C100	600	6500	5750	IV
280B100-PWA	3x12,5	C100+C100	600	6700	6210	IV
280B100-400	3x12,5	C100+C100	400	6700	5920	IV
280B100-400-PWA	3x12,5	C100+C100	400	7030	6520	IV
280B100-300	3x12,5	C100+C100	300	6830	6040	IV
280B100-300-PWA	3x12,5	C100+C100	300	7240	6720	IV
280BB100	3x12,5	2xC100+2xC100	600	7000	6250	IV
280BB100-PWA	3x12,5	2xC100+2xC100	600	7160	6640	IV
280BB100-400	3x12,5	2xC100+2xC100	400	7210	6440	IV
280BB100-400-PWA	3x12,5	2xC100+2xC100	400	7520	6980	IV
280BB100-300	3x12,5	2xC100+2xC100	300	7350	6570	IV
280BB100-300-PWA	3x12,5	2xC100+2xC100	300	7750	7190	IV

¹⁾ Technical opinion ITB 1060/11/R12NK; ITB 1060/12/R48NK.

²⁾ Range 1 – Includes the walls of rooms occupied by a limited number of people, e.g. apartment rooms, hotel rooms, hospital rooms, and other utilised in a similar manner.

³⁾ Range 2 – includes the walls of rooms occupied by a large number of people, e.g. large conference halls, classrooms, lecture rooms, and other utilised in a similar manner.

nida Ściana

THE TABLES FOR SELECTING THE MAXIMUM HEIGHT FOR THE NIDA ŚCIANA SYSTEM WITH THE APPLIED REDUCED SPACING AND/OR DOUBLING OF THE NIDA C50, C75, C100 LOAD-BEARING STRUCTURE WITHOUT FIRE RESISTANCE REQUIREMENTS (THE TWO-ROW ARRANGEMENT OF THE STRUCTURE – FOR WALLS WITH CAVITIES FOR INSTALLATIONS)

TECHNICAL PARAMETERS						
System type Nida Ściana	Number of layers of Nida boards	Construction type Nida		Maximum wall height - h ¹⁾		ETAG 003
		Nida profile type	Axial spacing of Nida profiles	1 ²⁾	2 ³⁾	
	[mm]			[mm]	[mm]	
150C50	2x12,5	C50+C50	600	4500	4000	IV
150C50-400	2x12,5	C50+C50	400	4750	4250	IV
150C50-300	2x12,5	C50+C50	300	4990	4460	IV
150CC50	2x12,5	2xC50+2xC50	600	4750	4250	IV
150CC50-400	2x12,5	2xC50+2xC50	400	5000	4500	IV
150CC50-300	2x12,5	2xC50+2xC50	300	5250	4730	IV
200C75	2x12,5	C75+C75	600	6000	5500	IV
200C75-400	2x12,5	C75+C75	400	6250	6000	IV
200C75-300	2x12,5	C75+C75	300	6560	6300	IV
200CC75	2x12,5	2xC75+2xC75	600	6500	6150	IV
200CC75-400	2x12,5	2xC75+2xC75	400	6750	6250	IV
200CC75-300	2x12,5	2xC75+2xC75	300	7020	6500	IV
250C100	2x12,5	C100+C100	600	6500	6000	IV
250C100-400	2x12,5	C100+C100	400	7000	6500	IV
250C100-300	2x12,5	C100+C100	300	7280	6760	IV
250CC100	2x12,5	2xC100+2xC100	600	7000	6500	IV
250CC100-400	2x12,5	2xC100+2xC100	400	7250	6750	IV
250CC100-300	2x12,5	2xC100+2xC100	300	7470	6950	IV

¹⁾ Technical opinion ITB 1060/11/R12NK; ITB 1060/12/R48NK.

²⁾ Range 1 – Includes the walls of rooms occupied by a limited number of people, e.g. apartment rooms, hotel rooms, hospital rooms, and other utilised in a similar manner.

³⁾ Range 2 – includes the walls of rooms occupied by a large number of people, e.g. large conference halls, classrooms, lecture rooms, and other utilised in a similar manner.

nida Ściana

THE TABLES FOR SELECTING THE MAXIMUM HEIGHT FOR THE NIDA ŚCIANA SYSTEM WITH THE APPLIED REDUCED SPACING AND/OR DOUBLING OF THE NIDA C50, C75, C100 LOAD-BEARING STRUCTURE WITHOUT FIRE RESISTANCE REQUIREMENTS (THE TWO-ROW ARRANGEMENT OF THE STRUCTURE – FOR WALLS WITH CAVITIES FOR INSTALLATIONS)

TECHNICAL PARAMETERS						
System type Nida Ściana	Number of layers of Nida boards	Construction type Nida		Maximum wall height - h ¹⁾		ETAG 003
		Nida profile type	Axial spacing of Nida profiles	1 ²⁾	2 ³⁾	
	[mm]			[mm]	[mm]	
175C50	3x12,5	C50+C50	600	4500	4000	IV
175C50-400	3x12,5	C50+C50	400	4750	4250	IV
175C50-300	3x12,5	C50+C50	300	4990	4460	IV
175CC50	3x12,5	2xC50+2xC50	600	4750	4250	IV
175CC50-400	3x12,5	2xC50+2xC50	400	5000	4500	IV
175CC50-300	3x12,5	2xC50+2xC50	300	5250	4730	IV
225C75	3x12,5	C75+C75	600	6000	5500	IV
225C75-400	3x12,5	C75+C75	400	6250	6000	IV
225C75-300	3x12,5	C75+C75	300	6560	6300	IV
225CC75	3x12,5	2xC75+2xC75	600	6500	6150	IV
225CC75-400	3x12,5	2xC75+2xC75	400	6750	6250	IV
225CC75-300	3x12,5	2xC75+2xC75	300	7020	6500	IV
275C100	3x12,5	C100+C100	600	6500	6000	IV
275C100-400	3x12,5	C100+C100	400	7000	6500	IV
275C100-300	3x12,5	C100+C100	300	7280	6760	IV
275CC100	3x12,5	2xC100+2xC100	600	7000	6500	IV
275CC100-400	3x12,5	2xC100+2xC100	400	7250	6750	IV
275CC100-300	3x12,5	2xC100+2xC100	300	7470	6950	IV

¹⁾ Technical opinion ITB 1060/11/R12NK; ITB 1060/12/R48NK.

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