

READY FOR  
EVERY CONFRONTATION

**Resistex**  
AND  
ANTI-BURGLARY WALLS





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ANTI-BURGLARY WALLS ARE SPECIFIED IN DIFFERENT PROJECTS REQUIRING HIGH SECURITY LEVELS AND IMPROVED PERFORMANCE.

## INTRODUCTION

Anti-burglary walls are more and more specified in different project typologies. These walls associate anti-burglary resistance to other performances such as sound insulation, fire and moisture resistance.

The anti-burglary wall performance is defined by the European regulation (EN1627) and in some cases complemented by local regulations.

Siniat has developed Resistex board to meet anti-burglary walls requirements with easy installation.

Resistex is suitable for multi-residential projects (walls between flats or between flats and corridors), and for single family houses. This board is also suitable for non-residential projects: banks, schools, hospitals, police offices, shops in areas such as server rooms, stocks of valuable goods or archive with sensitive documents.

RESISTEX IS A HIGH-DENSITY PLASTERBOARD WITH SPECIAL CORE FORMULATION DESIGNED TO PROVIDE ANTI-BURGLARY RESISTANCE AND HIGH TECHNICAL PERFORMANCES WITH EASY INSTALLATION. RESISTEX WALLS ARE TESTED AND CLASSIFIED ACCORDING TO EN1627.

The EN1627 regulation defines the requirements and classification of burglary resistance for different building elements such as doors, windows, curtain walls, roller blinds and anti-burglary lightweight walls.

This regulation defines different resistance classes.

Basically, resistance classes up to RC3 concern opportunistic attacks with simple tools and a short period of time for the intrusion, generating reduced noise.

One of the main Resistex advantages is the possibility to build anti-burglary walls (resistance classes RC2 and RC3) without any steel sheet layer or specific accessories. Resistex boards can be cut 'score and snap' and installed with standard drywall screws. Moreover, thanks to Resistex resistance, electrical boxes can be installed in anti-burglary walls without steel protection.



# WHAT IS ANTI-BURGLARY RESISTANCE ?

“

ANTI-BURGLARY PERFORMANCE IS THE PROPERTY OF A GIVEN WALL TO RESIST AGAINST HUMAN ATTACK MADE WITH SPECIFIC SETS OF TOOLS DURING A CERTAIN TIME.

Siniat anti-burglary walls are designed to offer resistance levels required by EN1627 regulation and to provide easy installation. Resistex allows building walls without any steel sheet layer for resistance classes RC2 and RC3.



The European regulation EN1627 reproduces real human attacks and is the reference for anti-burglary performance.

In most of the cases, anti-burglary walls require steel sheet layers or specific metallic components generating a complex and time consuming installation.

Siniat has developed Resistex which is a high density board with special core formulation. This plasterboard is classified DFH2IR according to EN 520 and combine high performances and easy installation.

Resistance class (RC)	Tool set (see EN 1630:2011, Chapter 7)
RC2	A2
RC3	A3
RC4	A4



The European regulation EN1627 defines in details the requirements for each anti-burglary resistance class. Siniat has developed specific solutions for the most required classes: RC2, RC3 and RC4.

## European standard EN 1627:2012

European standard EN 1627:2012 Doors, windows, curtain walls, guard screens, and shutters. Burglar resistance. Requirements and classification.

### Resistex

The specialised DFH2IR type plasterboard is manufactured by the Siniat company according to standard EN520. Its main application is constructing anti-burglar walls meeting the requirements of the classes RC2 and RC3, with no need for utilisation of steel sheet sheathing. It can also be utilised for construction of smoke barriers according to the DH and DHA classes.

### Burglar resistance class

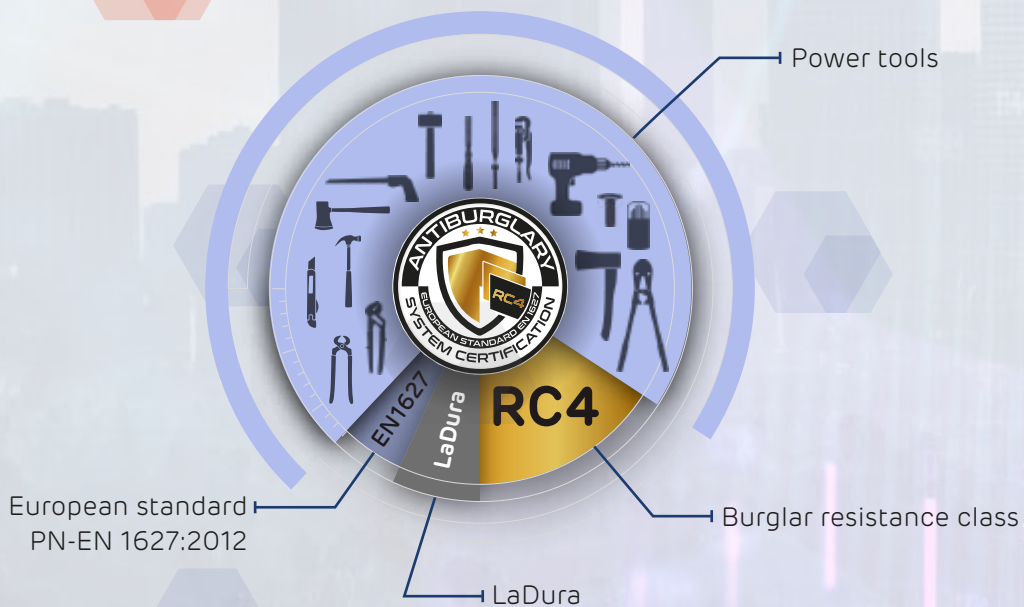
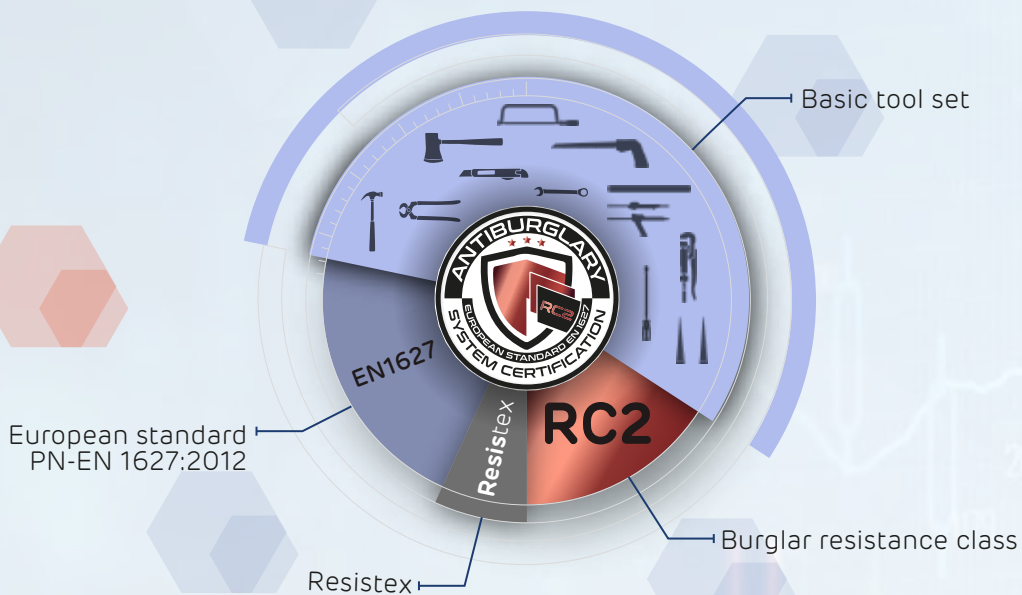
The performance class of the partition based on resisting attempts at forcing access to a protected room, or area, with utilisation of physical force and specified tools.

### Tool set

The supplementary standard EN 1630:2011 defines precisely the tool sets which can be utilised for the burglar resistance tests, depending on the tested class.







# NEW AND INNOVATIVE PLASTERBOARD Resistex



RESISTEX IS AN INNOVATIVE PLASTERBOARD WITH SPECIAL CORE FORMULATION SPECIALLY DESIGNED FOR ANTI-BURGLARY WALLS.

ON THE TOP OF ANTI-BURGLARY PERFORMANCE, RESISTEX DELIVERS HIGH LEVELS OF ACOUSTIC INSULATION, FIRE RESISTANCE, MOISTURE RESISTANCE AND EASY INSTALLATION.

Resistex is a paper facer plasterboard with tapered edges complying with the European regulation EN520 and classified as type DFH2IR providing high-end technical features.

Resistex allows building anti-burglary walls (resistance classes RC2 and RC3) without any steel sheet layer.

Easy installation is one of the key advantages: boards can be cut 'score and snap', walls can be installed with standard screws and electrical boxes do not need protection of steel cases.

These advantages reduce considerably the installation time and installed cost.



# PROPERTIES OF BOARDS

D

## Controlled core density

The board density is controlled during manufacturing to ensure minimum 800 kg/m<sup>3</sup>.



F

## Resistance to high temperatures

Resistex core is formulated to resist to high temperatures.

It provides high resistance performance to anti-burglary walls and contributes to occupants safety.



H2

## Reduced water absorption

The board is marked H2 meaning surface water absorption  $\leq 220$  g/m<sup>2</sup> and total water absorption not exceeding 10%. These parameters enable its usage in rooms with relative air humidity up to 85% not exceeding 10h/day such as bathrooms, and kitchens.



I

## Increased surface hardness

The board's surface presents improved resistance to impact and mechanical damages. Resistex is suitable for high traffic areas such as corridors and stairs in public buildings, hotels, schools and hospitals.



R

## Improved Strength

Resistex has enhanced longitudinal and transverse breaking loads. It allows its use in special areas where higher strength is required and also improve the durability.



A2s1,d0

## Non-combustible

The reaction to fire class indicates that Resistex is non-combustible and it does not spread fire. It is a complementary safety for all building areas.



# THANKS TO SPECIAL CORE FORMULATION, RESISTEX ALLOWS EASY INSTALLATION WITH TIME SAVING.

## Easy to cut "score and snap"

Boards can be cut with a cutter as many other plasterboard types. The use of saw is not mandatory to get an easy cut with good result.



## Standard screw

Resistex can be screwed with standard drywall screws with high productivity and no paper bulges.

It reduces installation time and cost, high density screws are not needed.



## Walls without steel sheet layer

Resistex anti-burglary walls RC2 and RC3 do not need steel sheet or other metallic accessories.

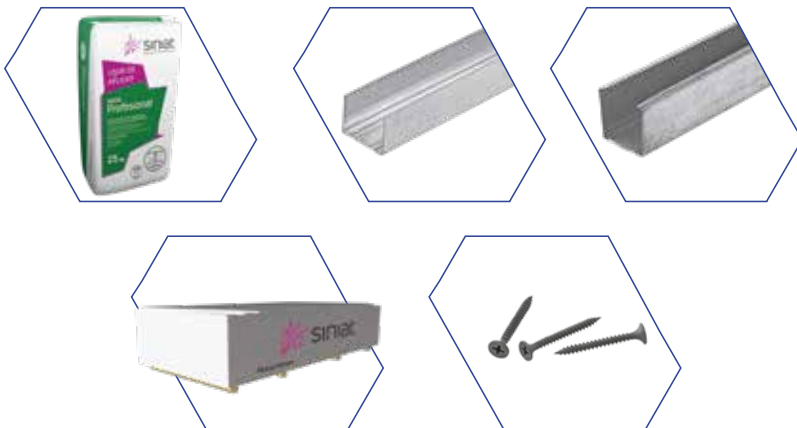
On the top of installation time and cost savings, it ensures better installation comfort and avoids risk of accidents when cutting steel sheets.



## Standard profiles

Resistex anti-burglary walls are conceived to use standard studs and tracks.

It reduces jobsite complexity and material cost



RESISTEX BOARDS CAN BE INSTALLED WITH STANDARD SYSTEM COMPONENTS

Single or double-stud structure

Structure of single, or doubled NIDA Metal CW50, CW75, or CW100 profiles.

Resistex  
Resistex  
Resistex

Super-resistant Resistex board

An innovative gypsum-based boards meeting the highest resistance to breaking norms, recommended for anti-burglar systems.



Single- or double-stud structure

Structure of single, or doubled NIDA Metal CW50, CW75, or CW100 profiles.

Resistex  
Resistex  
Resistex

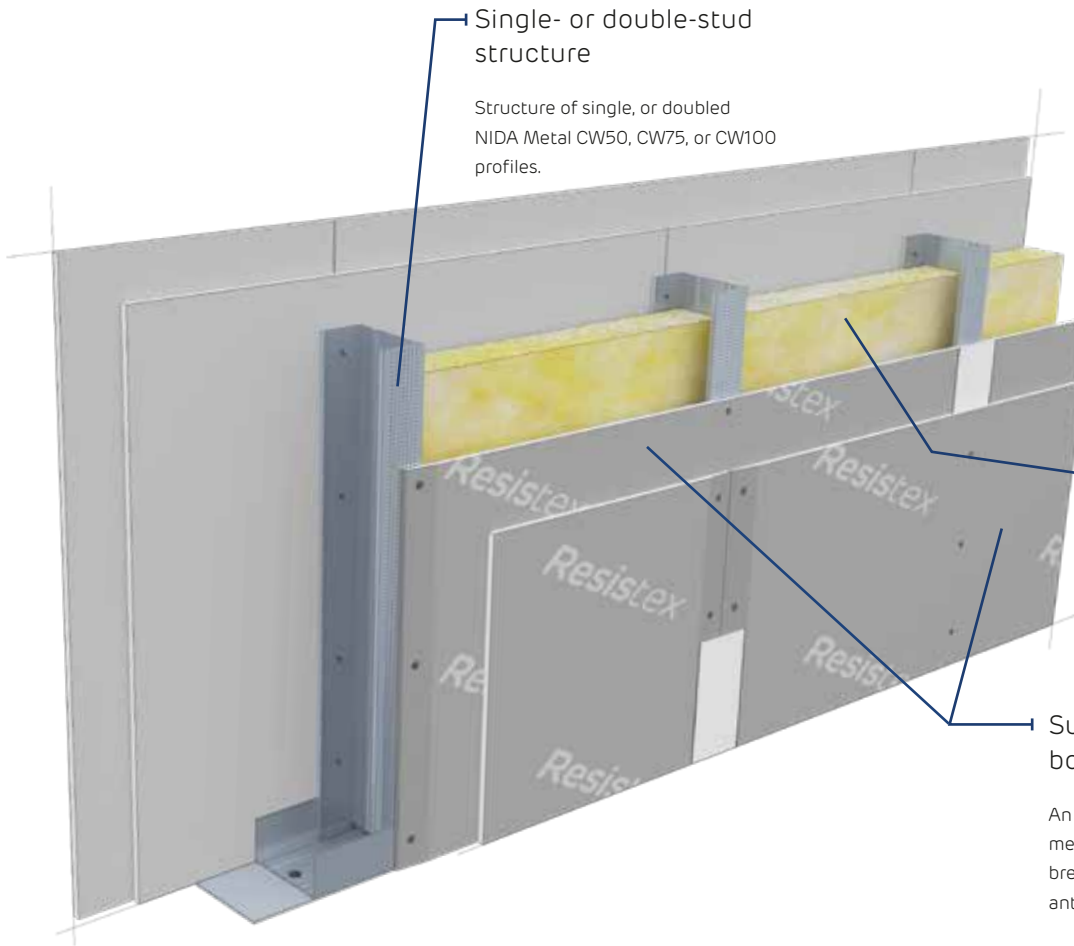


Super-resistant Resistex board

An innovative gypsum-based boards meeting the highest resistance to breaking norms, recommended for anti-burglar systems.

NIDA plasterboard

NIDA Acoustic, or fire resistant NIDA Flam as the internal layer. Application of an adequate type depending on the fire resistance requirement level.



Single- or double-stud structure

Structure of single, or doubled NIDA Metal CW50, CW75, or CW100 profiles.

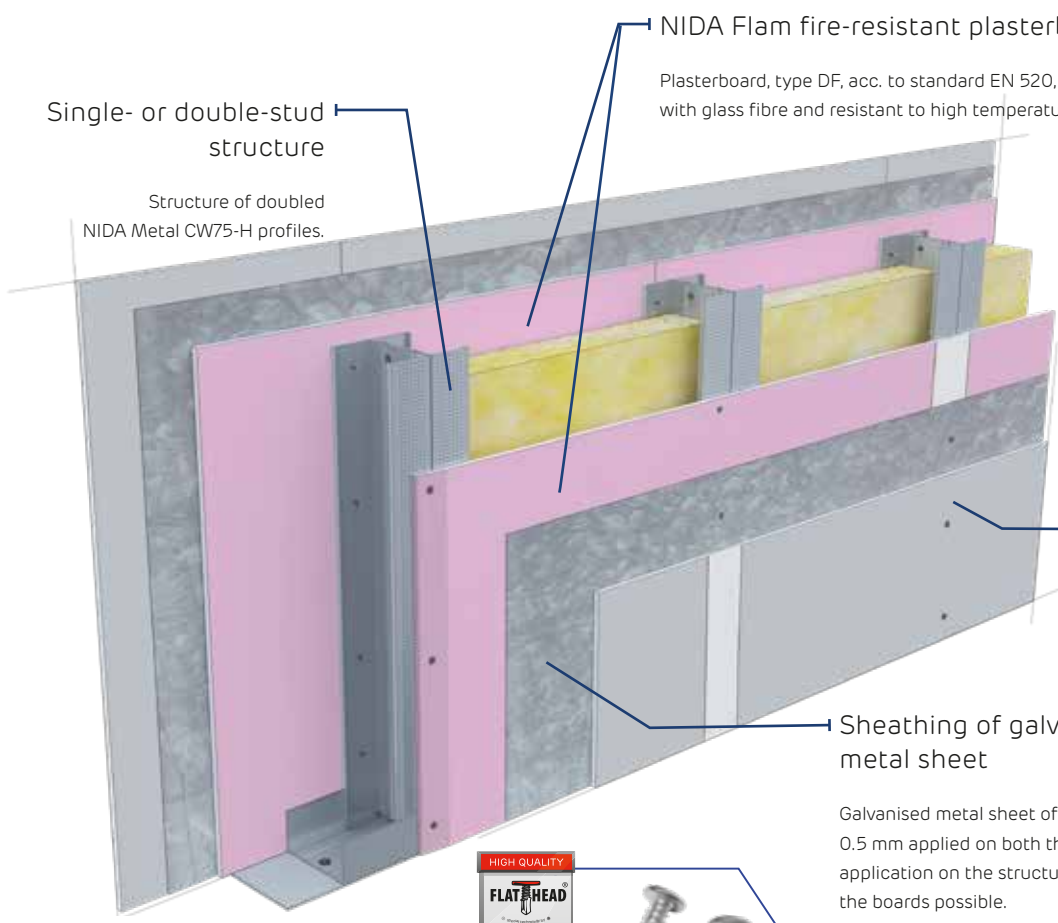


Insulating material

Mineral wool of glass, or rock fibres. The applied depending on the requirements concerning the acoustic insulation and fire resistance parameters.

Super-resistant Resistex board

An innovative gypsum-based boards meeting the highest resistance to breaking norms, recommended for anti-burglar systems.



Single- or double-stud structure

Structure of doubled NIDA Metal CW75-H profiles.

NIDA Flam fire-resistant plasterboard

Plasterboard, type DF, acc. to standard EN 520, reinforced with glass fibre and resistant to high temperatures.



LADura plasterboard with wooden chips

Specialised board of the highest possible core density of all the plasterboards - 1025 kg/m<sup>3</sup>. High resistance to impact.

Sheathing of galvanised metal sheet

Galvanised metal sheet of min. thickness 0.5 mm applied on both the sides. Direct application on the structure, or between the boards possible.



recommended flat head screws to fix steel sheet providing flat surface to install the boards.

# SINIAT ANTI-BURGLARY WALLS FIELDS OF APPLICATION

Anti-burglary walls are specified in several residential projects. It concerns walls between flats and also between flats and corridors.

In the non-residential sector, anti-burglary walls are often specified in rooms to store valuable goods, sensitive documents or in data centres to prevent cybercrime.

- 
- 
- 
- ✓ **Multi family and single family terraced buildings**

- 
- 
- 
- 
- ✓ **Public utility buildings**  
(banks, museums, post offices, courts, prosecutors' offices, etc.)





✓ Prisons and correctional institutions



✓ Commercial buildings and shops with valuable goods located there (electronics shops, jewellers' shops, banking centres, etc.)

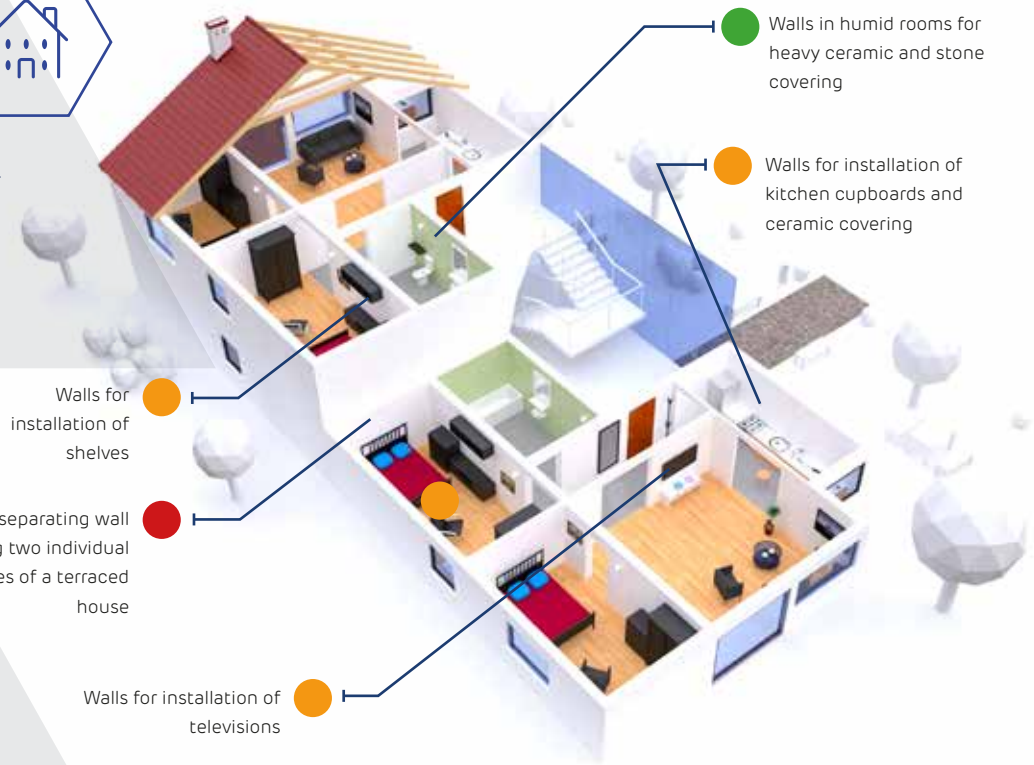


✓ Other low asset security buildings (schools, higher education facilities, student dormitories, etc.)



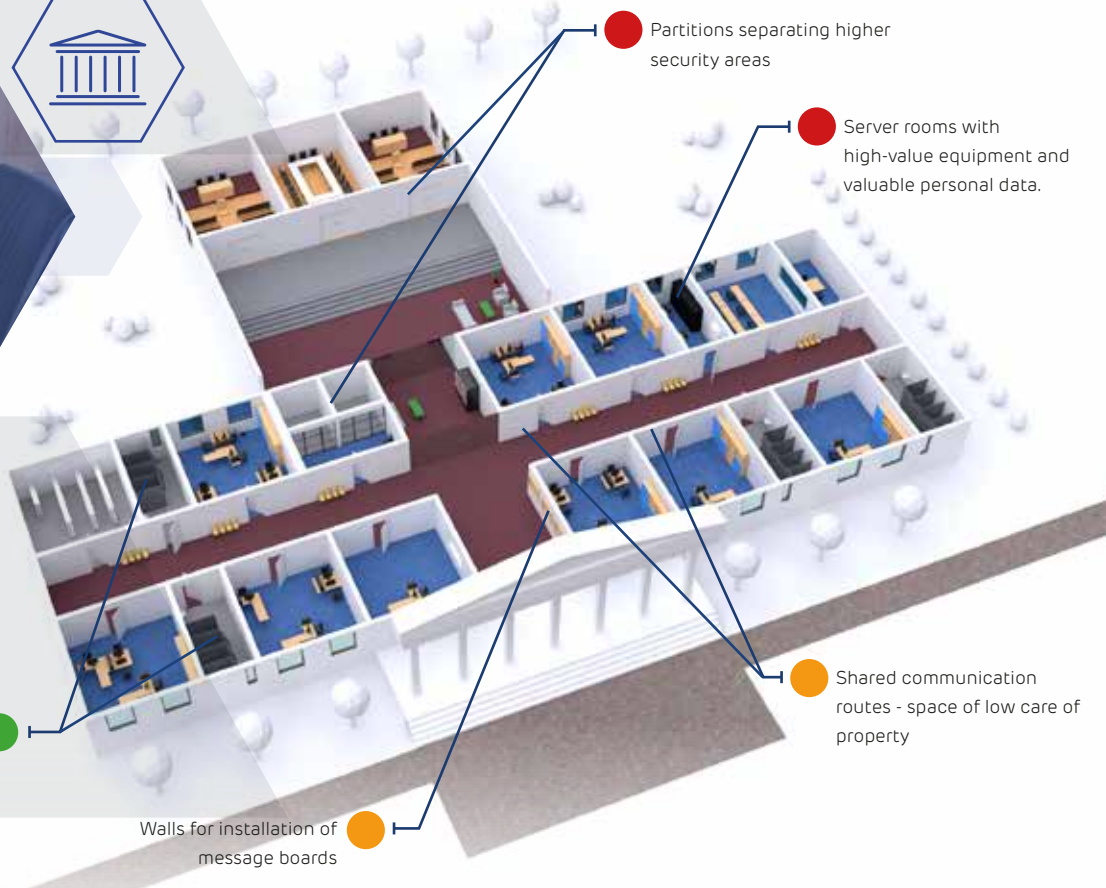
### Residential housing construction

Multi-family and single family terraced buildings



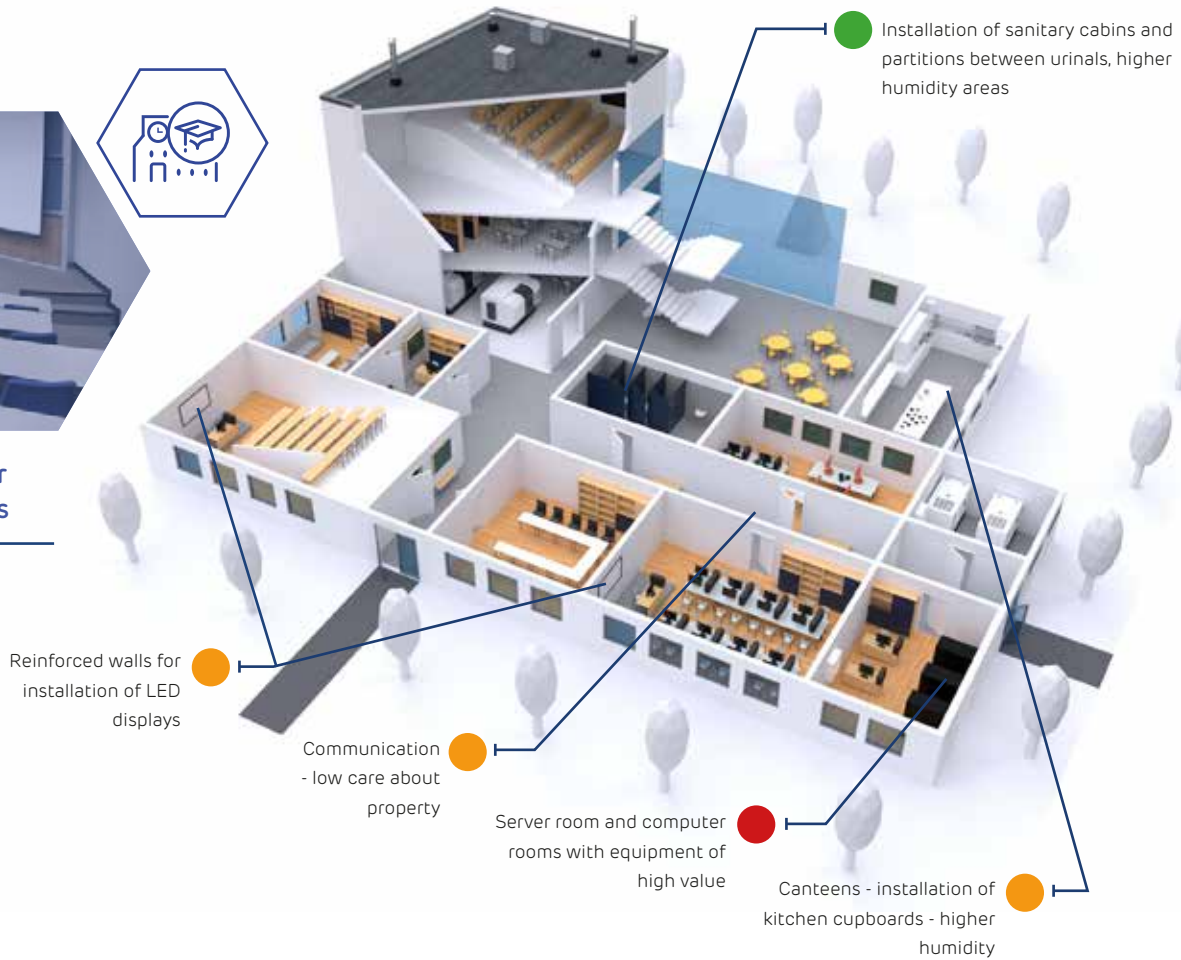
### Public venues

banks, museums, post offices, courts, prosecutors' offices, etc.



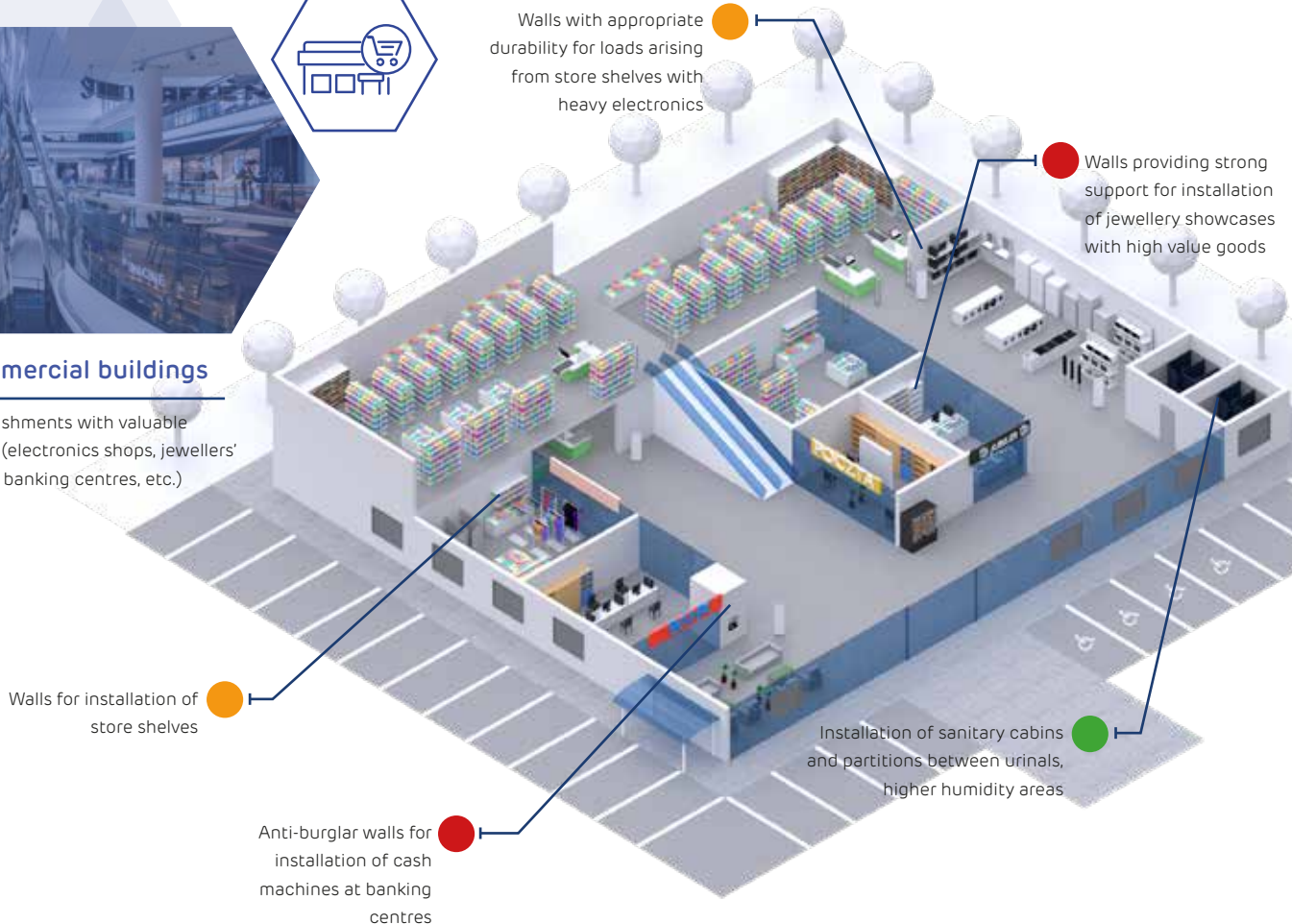


### Schools and higher education facilities



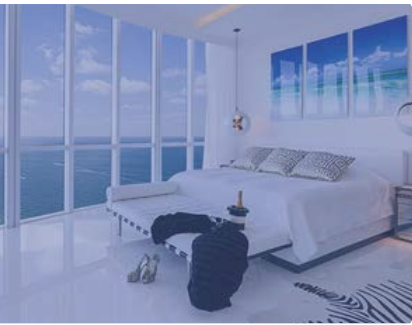
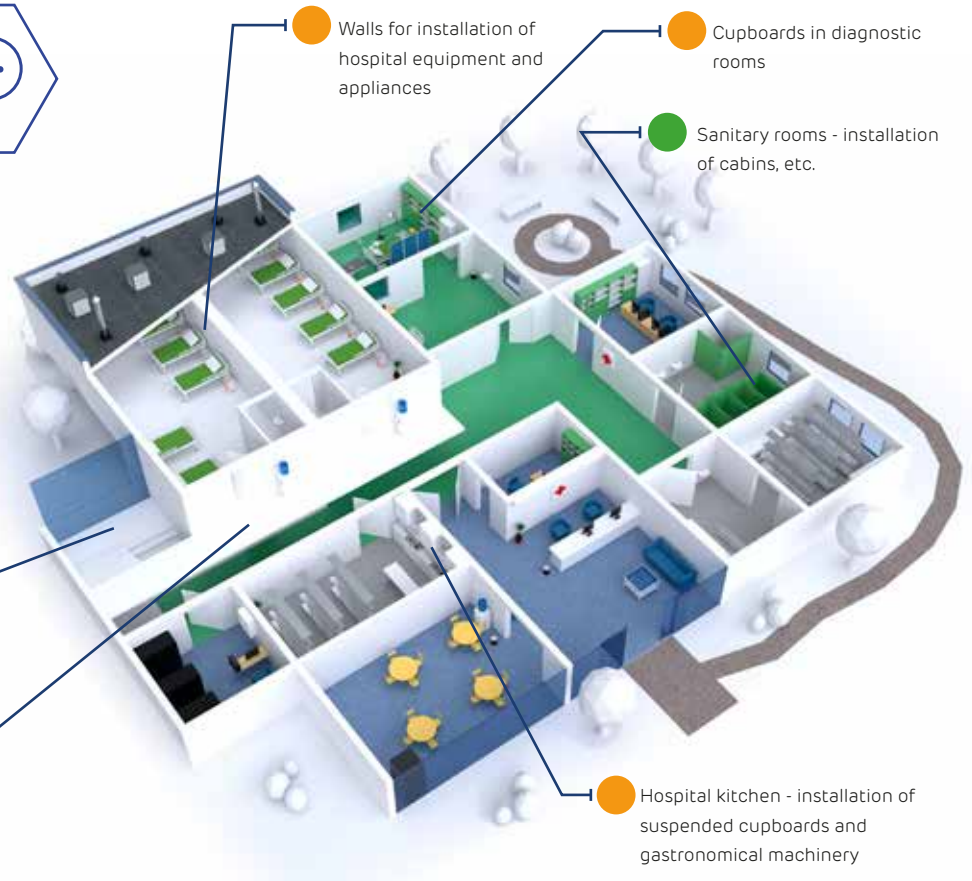
### Commercial buildings

establishments with valuable goods (electronics shops, jewellers' shops, banking centres, etc.)

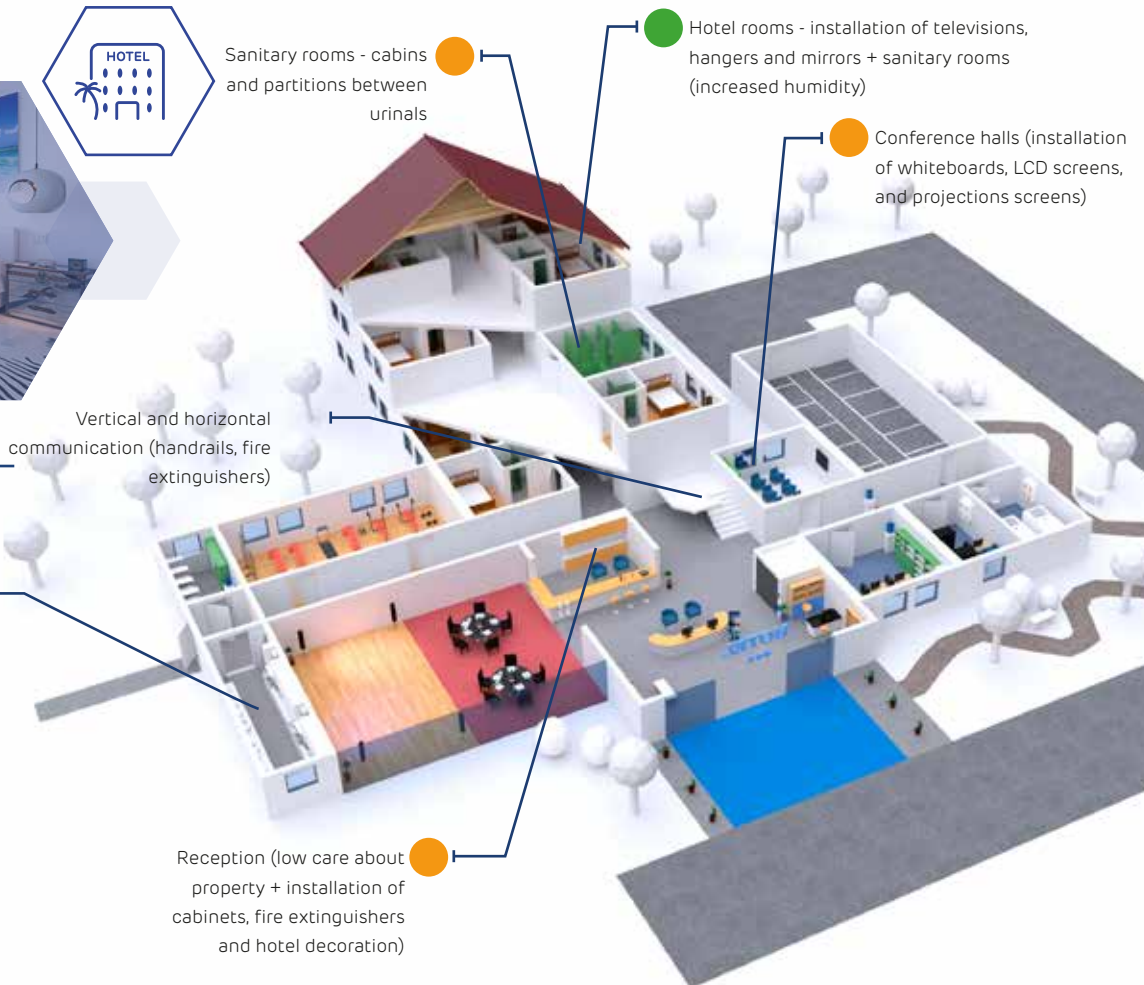




### Hospitals and medical centres



### Hotel



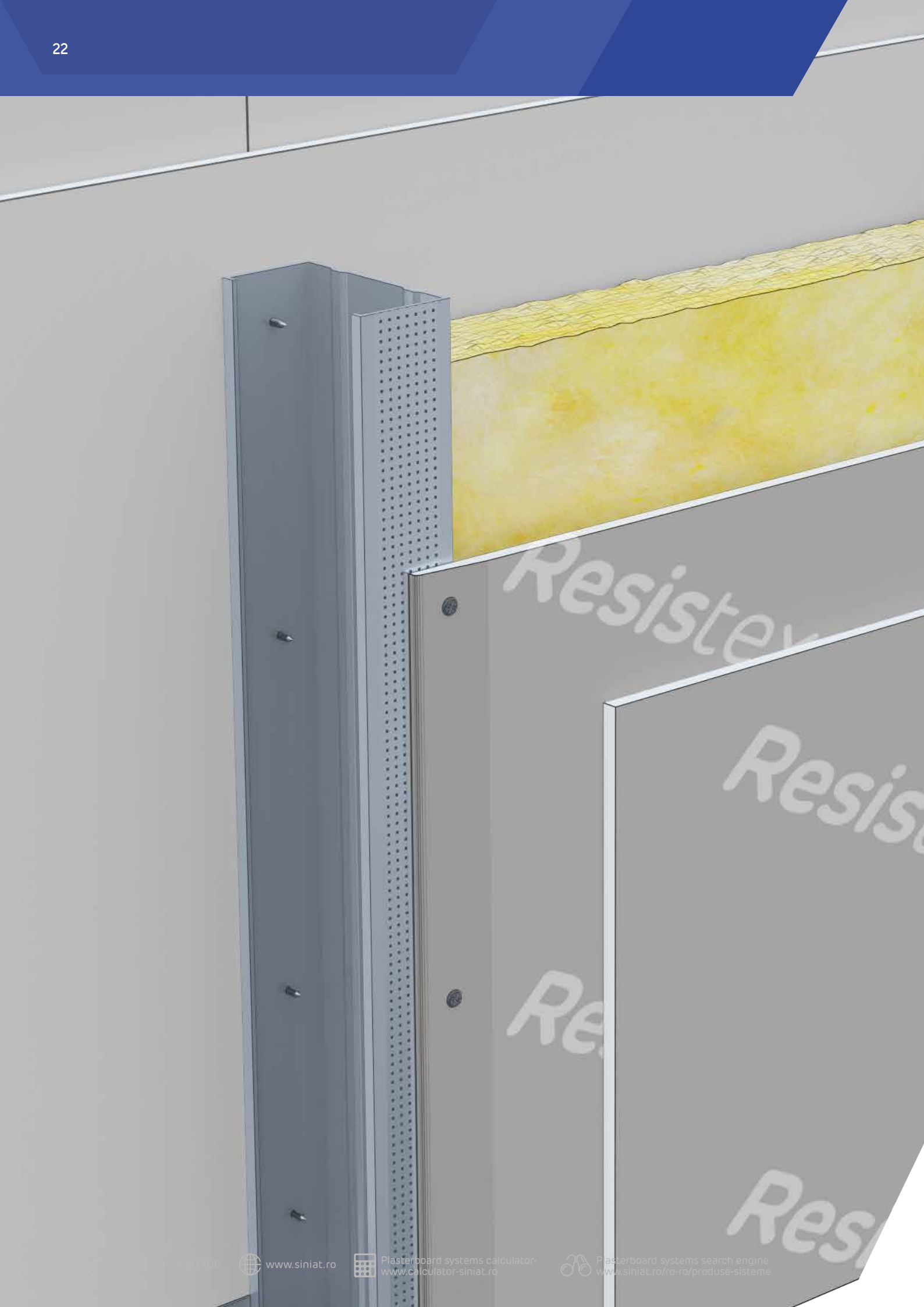


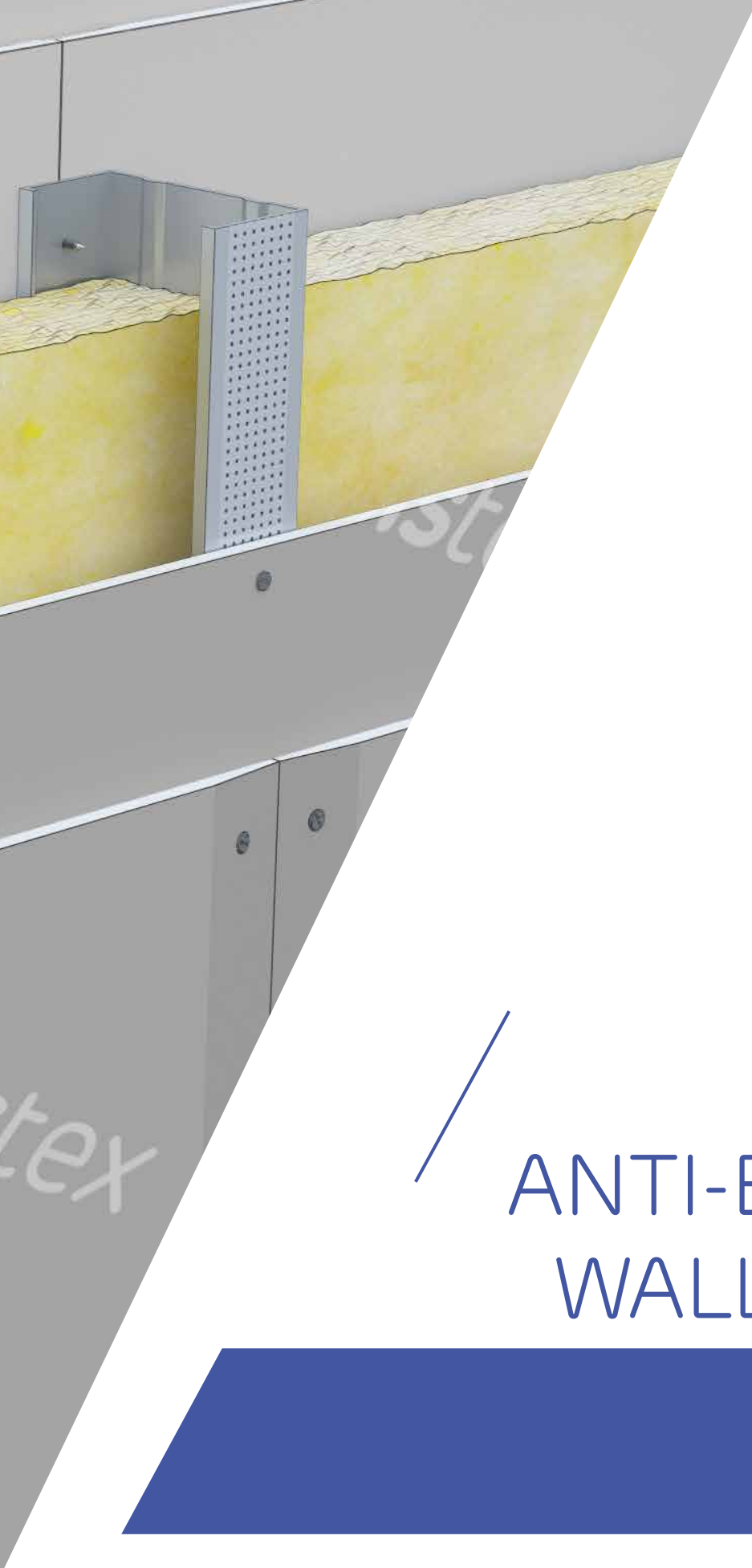
**Nurseries and kindergartens**



**Office buildings**







SINIAT  
ANTI-BURGLARY  
WALL SYSTEMS

NIDA System

# NIDA System



Fire  
resistance  
class:  
EI60



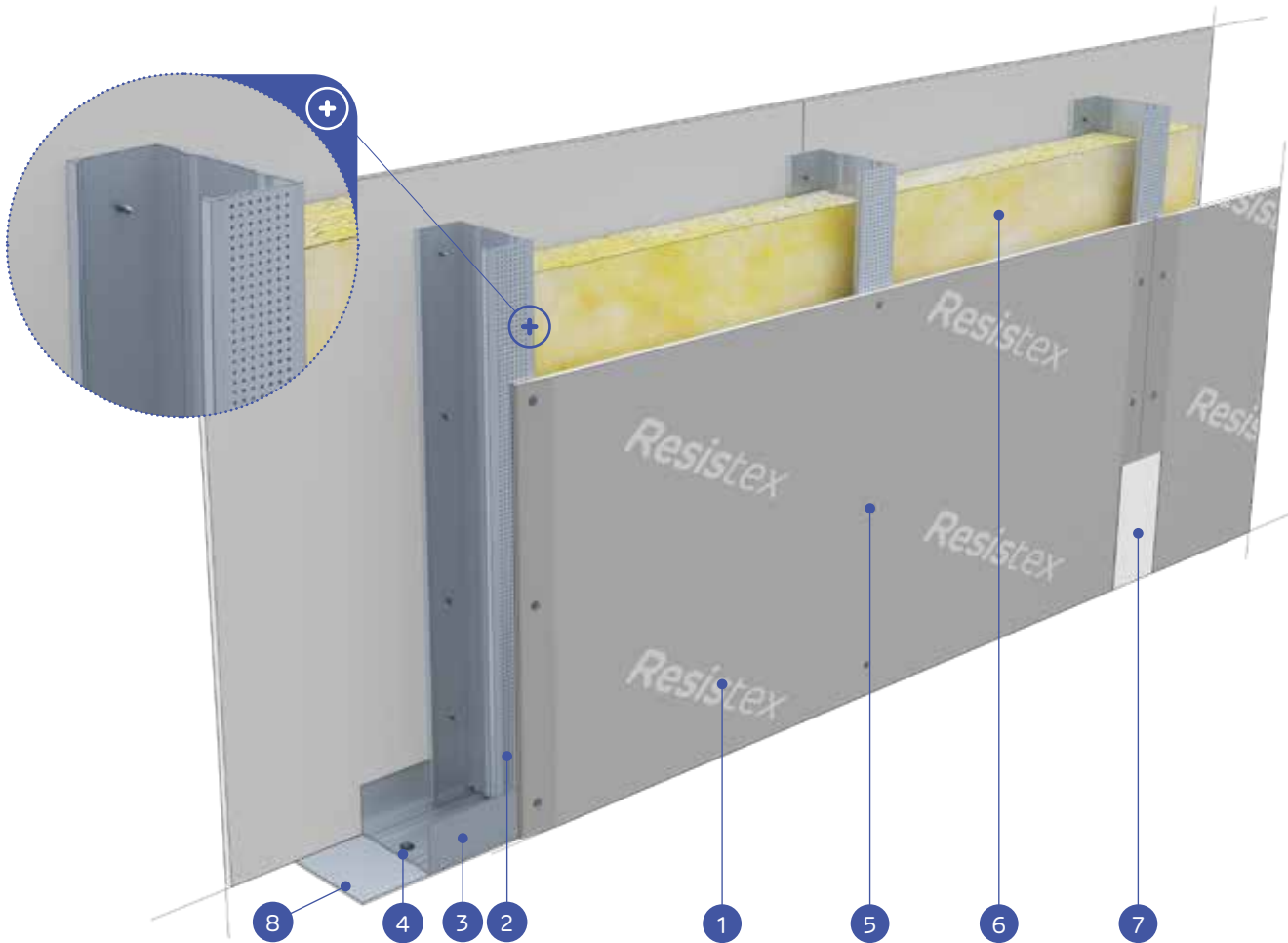
Burglar  
resistance  
class:  
RC2



Maximum  
encasement  
height:  
8320 mm

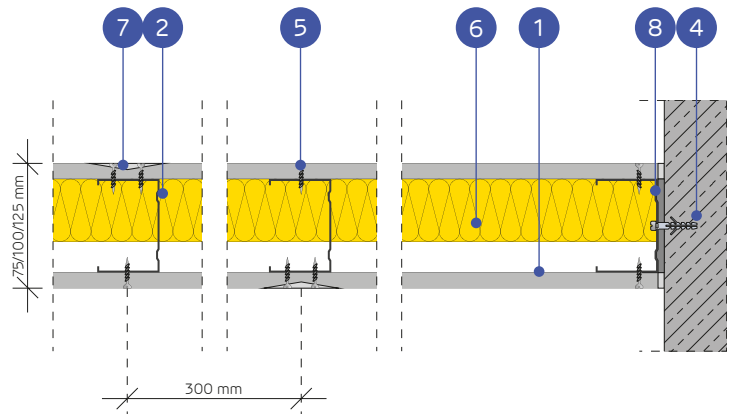


Number of  
related  
document:  
EN 1627:2011



## MATERIALS:

1. Resistex plasterboards
2. NIDA CW50/CW75/CW100 profile
3. NIDA UW50/UW75/UW100 profile
4. NIDA expansion plug
5. NIDA 3.5 x 25 mm selftapping 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 CW50, CW75 AND CW100 STRUCTURE

TECHNICAL PARAMETERS							
NIDA System	System Thickness [mm]	NIDA Metal Structure	NIDA Plasterboard	Insulation Mineral Wool	System weight [Kg/m <sup>2</sup> ]	Maximum height with fire performance H.max [m]	Maximum height without fire performance H.max [m]
D75	75	CW50 @ 300 mm	2x1 Resistex 12.5	1x MW 50 mm	29	4.45	4.45
D75	75	CW50-H @ 300 mm	2x1 Resistex 12.5	1x MW 50 mm	32	5.12	5.12
D100	100	CW75 @ 300 mm	2x1 Resistex 12.5	2x MW 50 mm	31	5.80	5.80
D100	100	CW75-H @ 300 mm	2x1 Resistex 12.5	2x MW 50 mm	34.5	6.50	6.77
D125	125	CW100 @ 300 mm	2x1 Resistex 12.5	2x MW 50 mm	32	6.50	7.07
D125	125	CW100-H @ 300 mm	2x1 Resistex 12.5	2x MW 50 mm	36.5	6.50	8.32

<sup>1)</sup> The maximum wall height acc. to 01060/11/R12NK ITB technical opinion

<sup>2)</sup> The burglar resistance classes according to standard EN 1627:2011.

<sup>3)</sup> The fire resistance class according to standard EN 13501-2:2016-07.

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

The firestop and anti-burglar wall systems constructed according to the Siniat technology act as firestop partitions, with fire exposition from both their sides.

AMOUNT OF MATERIALS UTILISED PER 1M <sup>2</sup> OF ANTI-BURGLAR WALLS, ACCORDING TO NIDA SYSTEM			
Material name	Unit	Simple stud @ 300 mm	Double stud @ 300 mm
Resistex Plasterboard	m <sup>2</sup>	2.00	
Mineral Wool 50 mm	m <sup>2</sup>	0 / 1 / 2	
NIDA Metal stud CW50/75/100	ml	3.50	7.00
Inferior track - NIDA Metal UW50/75/100	[H ≤ 4 m]	ml	0.35
	[4 m < H ≤ 8 m]	ml	0.20
	[8 m < H ≤ 9 m]	ml	0.12
Superior track - NIDA Metal UW50/75/100	[H ≤ 4 m]	ml	0.35
	[4 m < H ≤ 8 m]	ml	0.20
	[8 m < H ≤ 9 m]	ml	0.10
NIDA Metal UW50 jointing profile for CW50 studs	[0 m < H ≤ 4 m]	ml	0.00
	[4 m < H ≤ 8 m]	ml	0.70
	[8 m < H ≤ 9 m]	ml	1.60
NIDA Metal UW75 jointing profile for CW75 studs	[0 m < H ≤ 4 m]	ml	0.00
	[4 m < H ≤ 8 m]	ml	1.05
	[8 m < H ≤ 9 m]	ml	2.30
NIDA Metal UW100 jointing profile for CW100 studs	[0 m < H ≤ 4 m]	ml	0.00
	[4 m < H ≤ 8 m]	ml	1.40
	[8 m < H ≤ 9 m]	ml	3.10
Selftapping screw 212xL1	pc	32.00	32.00
Self-drilling screw 4.2x13 FLATHEAD for double studs	pc	0.00	8.00
Self-drilling screw 4.2x13 FLATHEAD for jointing profiles	pc	8.00	16.00
Siniat 6x40 metal dowel for fixing inferior tracks and perimetral studs.	pc	1.00	
Mechanical fixing for top track <sup>(5)</sup>	pc	0.50	
Monoadhesive sealing tape	ml	1.00	
Fiberglass jointing tape <sup>(6)</sup>	ml	3.60	
NIDA Profesional jointing compound	kg	0.60	
NIDA Boardfix adhesive gypsum	kg	0.10	

<sup>5)</sup> Alternatively, apply the NIDA Max gypsum compound.

<sup>6)</sup> 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.



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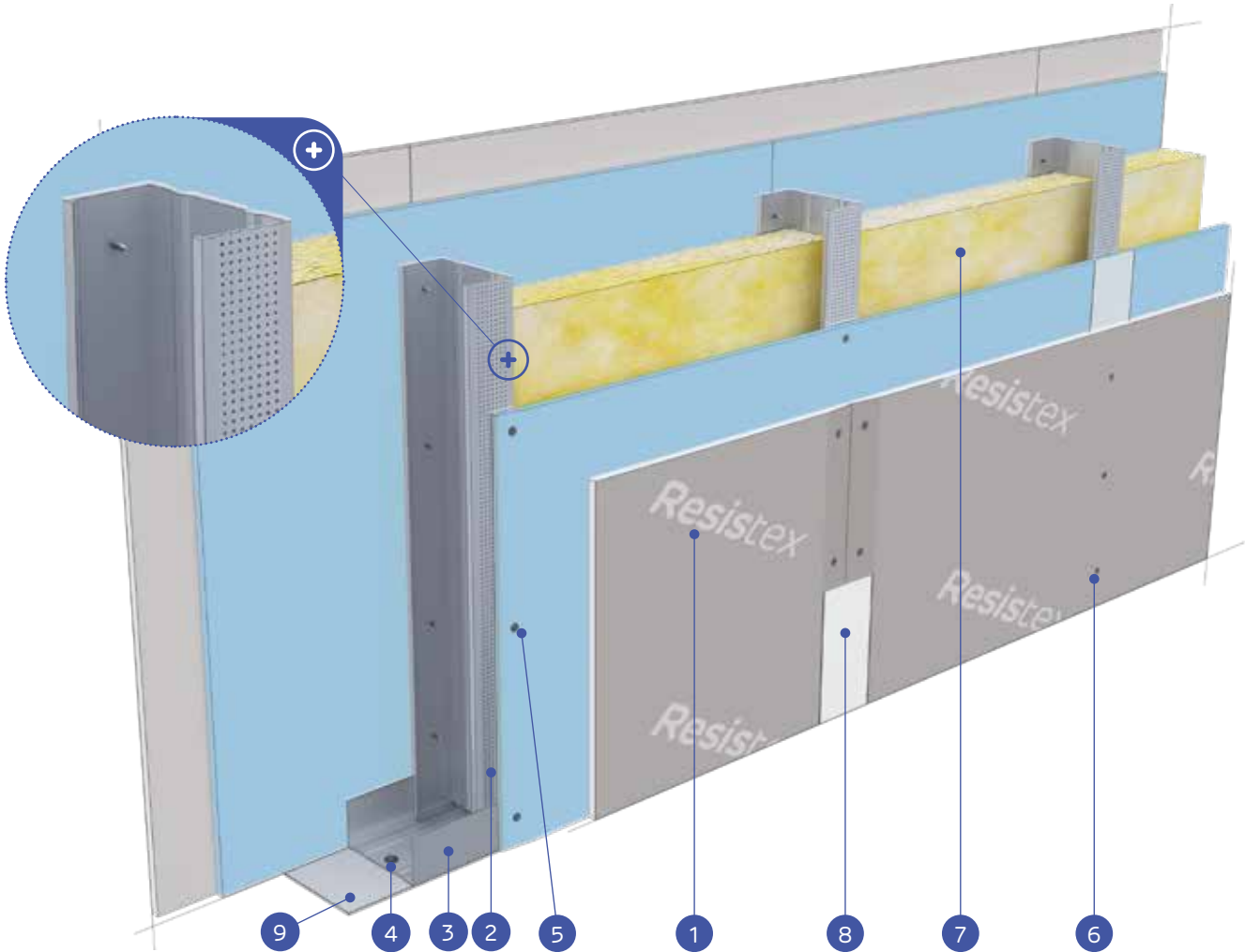
# NIDA System

 Fire resistance class: **EI60**

 Burglar resistance class: **RC2**

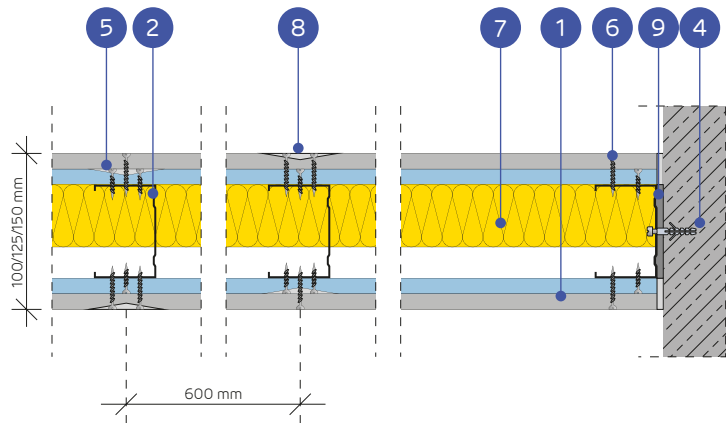
 Maximum encasement height: **8770 mm**

 Number of related document: **EN 1627:2011**



**MATERIALS:**

1. NIDA Acoustic plasterboard (internal layer) + Resistex plasterboard (external layer)
2. NIDA CW50/CW75/CW100 profile
3. NIDA UW50/UW75/UW100 profile
4. NIDA expansion plug
5. NIDA 3.5 x 25 mm selftapping screws
6. NIDA 3.5 x 45 mm selftapping 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 ON SINGLE AND DOUBLED NIDA C75 STRUCTURE (HYBRID WALLS FOR INSTALLATIONS - EXPERT/RESISTEX)

TECHNICAL PARAMETERS							
NIDA System	System Thickness [mm]	NIDA Metal Structure	NIDA Plasterboard	Insulation Mineral Wool	System weight [Kg/m <sup>2</sup> ]	Maximum height with fire performance H.max [m]	Maximum height without fire performance H.max [m]
D100	100	CW50 @ 600 mm	2x1 Resistex 12.5 + 2x1 NIDA Acoustic 12.5	1x MW 50 mm	52	5.00	5.00
D100	100	CW50-H @ 600 mm	2x1 Resistex 12.5 + 2x1 NIDA Acoustic 12.5	1x MW 50 mm	55	5.59	5.59
D125	125	CW75 @ 600 mm	2x1 Resistex 12.5 + 2x1 NIDA Acoustic 12.5	2x MW 50 mm	54	6.40	6.40
D125	125	CW75-H @ 600 mm	2x1 Resistex 12.5 + 2x1 NIDA Acoustic 12.5	2x MW 50 mm	57.5	6.50	7.23
D150	150	CW100 @ 600 mm	2x1 Resistex 12.5 + 2x1 NIDA Acoustic 12.5	2x MW 50 mm	55	6.50	7.68
D150	150	CW100-H @ 600 mm	2x1 Resistex 12.5 + 2x1 NIDA Acoustic 12.5	2x MW 50 mm	59.5	6.50	8.77

<sup>1)</sup> The maximum wall height acc. to 01060/11/R12NK ITB technical opinion

<sup>2)</sup> The burglar resistance classes according to standard EN 1627:2011.

<sup>3)</sup> The fire resistance class according to standard EN 13501-2:2016-07.

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

The firestop and anti-burglar wall systems constructed according to the Siniat technology act as firestop partitions, with fire exposition from both their sides.

AMOUNT OF MATERIALS UTILISED PER 1M <sup>2</sup> OF ANTI-BURGLAR WALLS, ACCORDING TO NIDA SYSTEM			
Material name	Unit	Simple stud @ 600 mm	Double stud @ 600 mm
Resistex Plasterboard	m <sup>2</sup>		2.00
NIDA Acoustic Plasterboard	m <sup>2</sup>		2.00
Mineral Wool 50 mm	m <sup>2</sup>		0 / 1 / 2
NIDA Metal stud CW50/75/100	ml	1.90	3.70
Inferior track - NIDA Metal UW50/75/100	[H ≤ 4 m]	ml	0.35
	[4 m < H ≤ 8 m]	ml	0.20
	[8 m < H ≤ 9 m]	ml	0.12
Superior track - NIDA Metal UW50/75/100	[H ≤ 4 m]	ml	0.35
	[4 m < H ≤ 8 m]	ml	0.20
	[8 m < H ≤ 9 m]	ml	0.10
NIDA Metal UW50 jointing profile for CW50 studs	[0 m < H ≤ 4 m]	ml	0.00
	[4 m < H ≤ 8 m]	ml	0.35
	[8 m < H ≤ 9 m]	ml	0.40
NIDA Metal UW75 jointing profile for CW75 studs	[0 m < H ≤ 4 m]	ml	0.00
	[4 m < H ≤ 8 m]	ml	0.55
	[8 m < H ≤ 9 m]	ml	0.60
NIDA Metal UW100 jointing profile for CW100 studs	[0 m < H ≤ 4 m]	ml	0.00
	[4 m < H ≤ 8 m]	ml	0.75
	[8 m < H ≤ 9 m]	ml	0.80
Selftapping screw 212xL1	pc	12.00	12.00
Selftapping screw 212xL2	pc	20.00	20.00
Self-drilling screw 4.2x13 FLATHEAD for double studs	pc	0.00	4.00
Self-drilling screw 4.2x13 FLATHEAD for jointing profiles	pc	5.00	9.00
Siniat 6x40 metal dowel for fixing inferior tracks and perimetral studs.	pc		1.00
Mechanical fixing for top track <sup>(5)</sup>	pc		0.50
Monoadhesive sealing tape	ml		1.00
Fiberglass jointing tape <sup>(6)</sup>	ml		3.60
NIDA Profesional jointing compound	kg		1.20
NIDA Boardfix adhesive gypsum	kg		0.10

<sup>5)</sup> Alternatively, apply the NIDA Max gypsum compound.

<sup>6)</sup> 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.



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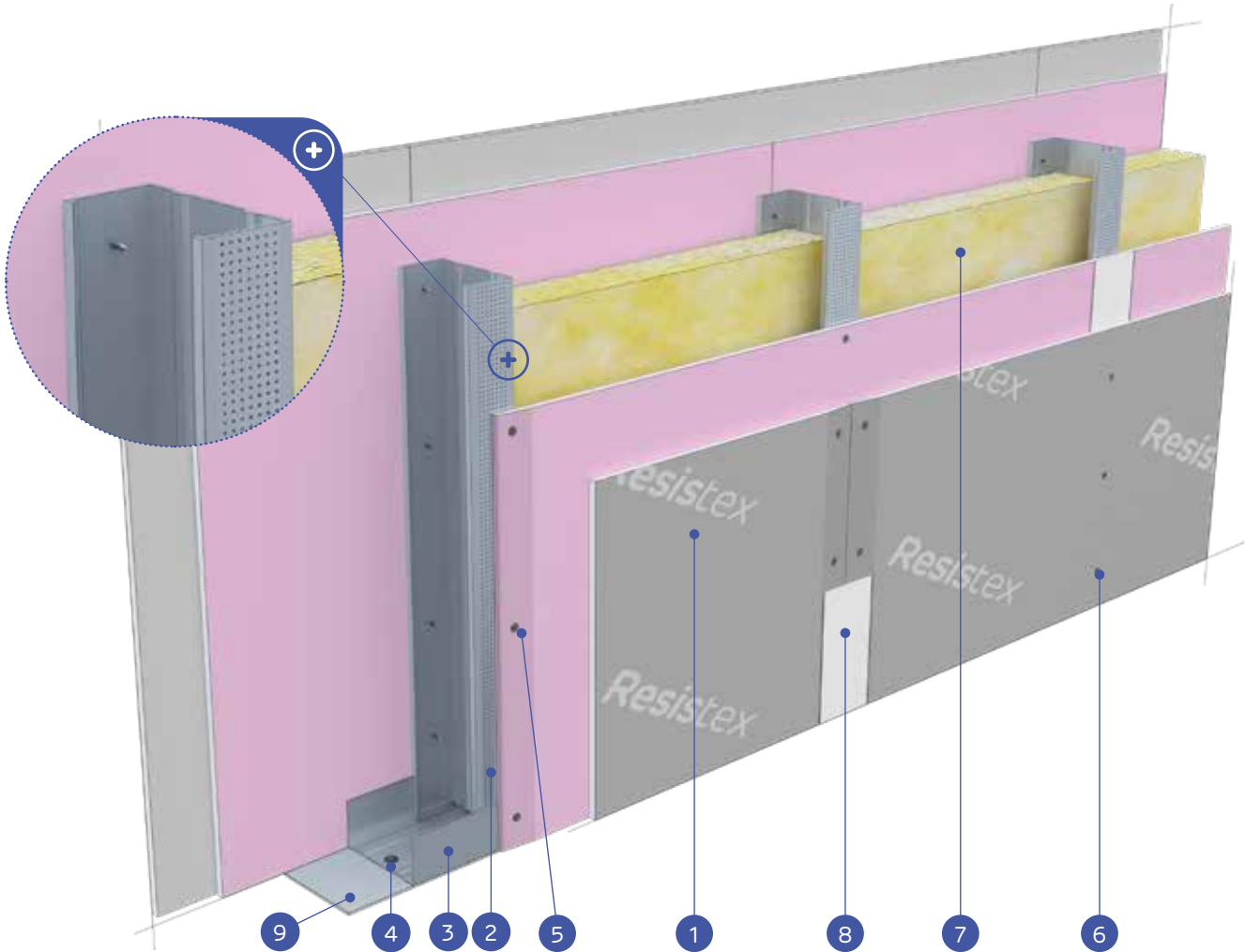
# NIDA System

 Fire resistance class: EI120

 Burglar resistance class: RC2

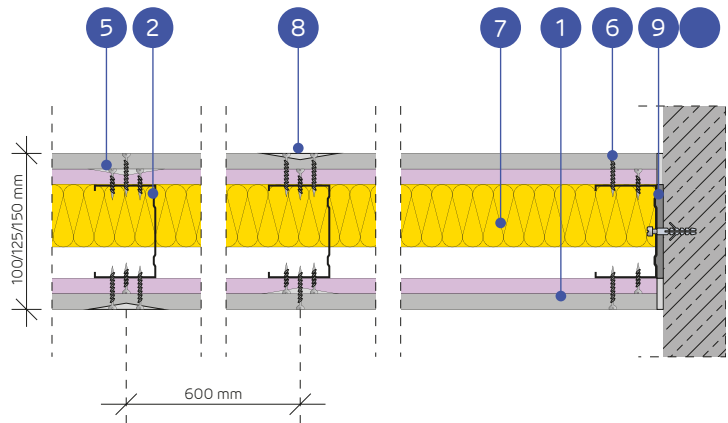
 Maximum encasement height: 9000 mm

 Number of related document: EN 1627:2011



**MATERIALS:**

1. NIDA Flam plasterboard (internal layer) + Resistex plasterboard (external layer)
2. NIDA CW50/CW75/CW100 profile
3. NIDA UW50/UW75/UW100 profile
4. NIDA expansion plug
5. NIDA 3.5 x 25 mm selftapping screws
6. NIDA 3.5 x 45 mm selftapping 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 CW50, CW75 AND CW100 STRUCTURE

TECHNICAL PARAMETERS							
NIDA System	System Thickness [mm]	NIDA Metal Structure	NIDA Plasterboard	Insulation Mineral Wool	System weight [Kg/m <sup>2</sup> ]	Maximum height with fire performance H.max [m]	Maximum height without fire performance H.max [m]
D100	100	CW50 @ 600 mm	2x1 Resistex 12.5 + 2x1 NIDA Flam 12.5	1x MW 50 mm	52	5.39	5.00
D100	100	CW50-H @ 600 mm	2x1 Resistex 12.5 + 2x1 NIDA Flam 12.5	1x MW 50 mm	55	5.87	5.75
D125	125	CW75 @ 600 mm	2x1 Resistex 12.5 + 2x1 NIDA Flam 12.5	1x MW 50 mm	54	6.50	6.75
D125	125	CW75-H @ 600 mm	2x1 Resistex 12.5 + 2x1 NIDA Flam 12.5	1x MW 50 mm	57.5	6.50	7.50
D150	150	CW100 @ 600 mm	2x1 Resistex 12.5 + 2x1 NIDA Flam 12.5	1x MW 50 mm	55	6.50	8.05
D150	150	CW100-H @ 600 mm	2x1 Resistex 12.5 + 2x1 NIDA Flam 12.5	1x MW 50 mm	59.5	6.50	9.00

<sup>1)</sup> The maximum wall height acc. to 01060/11/R12NK ITB technical opinion

<sup>2)</sup> The burglar resistance classes according to standard EN 1627:2011.

<sup>3)</sup> The fire resistance class according to standard EN 13501-2:2016-07.

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

The firestop and anti-burglar wall systems constructed according to the Siniat technology act as firestop partitions, with fire exposition from both their sides.

AMOUNT OF MATERIALS UTILISED PER 1M <sup>2</sup> OF ANTI-BURGLAR WALLS, ACCORDING TO NIDA SYSTEM			
Material name	Unit	Simple stud @ 600 mm	Double stud @ 600 mm
Resistex Plasterboard	m <sup>2</sup>	2.00	
NIDA Flam Plasterboard	m <sup>2</sup>	2.00	
Mineral Wool 50 mm	m <sup>2</sup>	0 / 1 / 2	
NIDA Metal stud CW50/75/100	ml	1.90	3.70
Inferior track - NIDA Metal UW50/75/100	[H ≤ 4 m]	ml	0.35
	[4 m < H ≤ 8 m]	ml	0.20
	[8 m < H ≤ 9 m]	ml	0.12
Superior track - NIDA Metal UW50/75/100	[H ≤ 4 m]	ml	0.35
	[4 m < H ≤ 8 m]	ml	0.20
	[8 m < H ≤ 9 m]	ml	0.10
NIDA Metal UW50 jointing profile for CW50 studs	[0 m < H ≤ 4 m]	ml	0.00
	[4 m < H ≤ 8 m]	ml	0.35
	[8 m < H ≤ 9 m]	ml	0.40
NIDA Metal UW75 jointing profile for CW75 studs	[0 m < H ≤ 4 m]	ml	0.00
	[4 m < H ≤ 8 m]	ml	0.55
	[8 m < H ≤ 9 m]	ml	0.60
NIDA Metal UW100 jointing profile for CW100 studs	[0 m < H ≤ 4 m]	ml	0.00
	[4 m < H ≤ 8 m]	ml	0.75
	[8 m < H ≤ 9 m]	ml	0.80
Selftapping screw 212xL1	pc	12.00	12.00
Selftapping screw 212xL2	pc	20.00	20.00
Self-drilling screw 4.2x13 FLATHEAD for double studs	pc	0.00	4.00
Self-drilling screw 4.2x13 FLATHEAD for jointing profiles	pc	5.00	9.00
Siniat 6x40 metal dowel for fixing inferior tracks and perimetral studs.	pc		1.00
Mechanical fixing for top track <sup>(5)</sup>	pc		0.50
Monoadhesive sealing tape	ml		1.00
Fiberglass jointing tape <sup>(6)</sup>	ml		3.60
NIDA Profesional jointing compound	kg		1.20
NIDA Boardfix adhesive gypsum	kg		0.10

<sup>5)</sup> Alternatively, apply the NIDA Max gypsum compound.

<sup>6)</sup> 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.



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# NIDA System



Fire  
resistance  
class:  
EI120



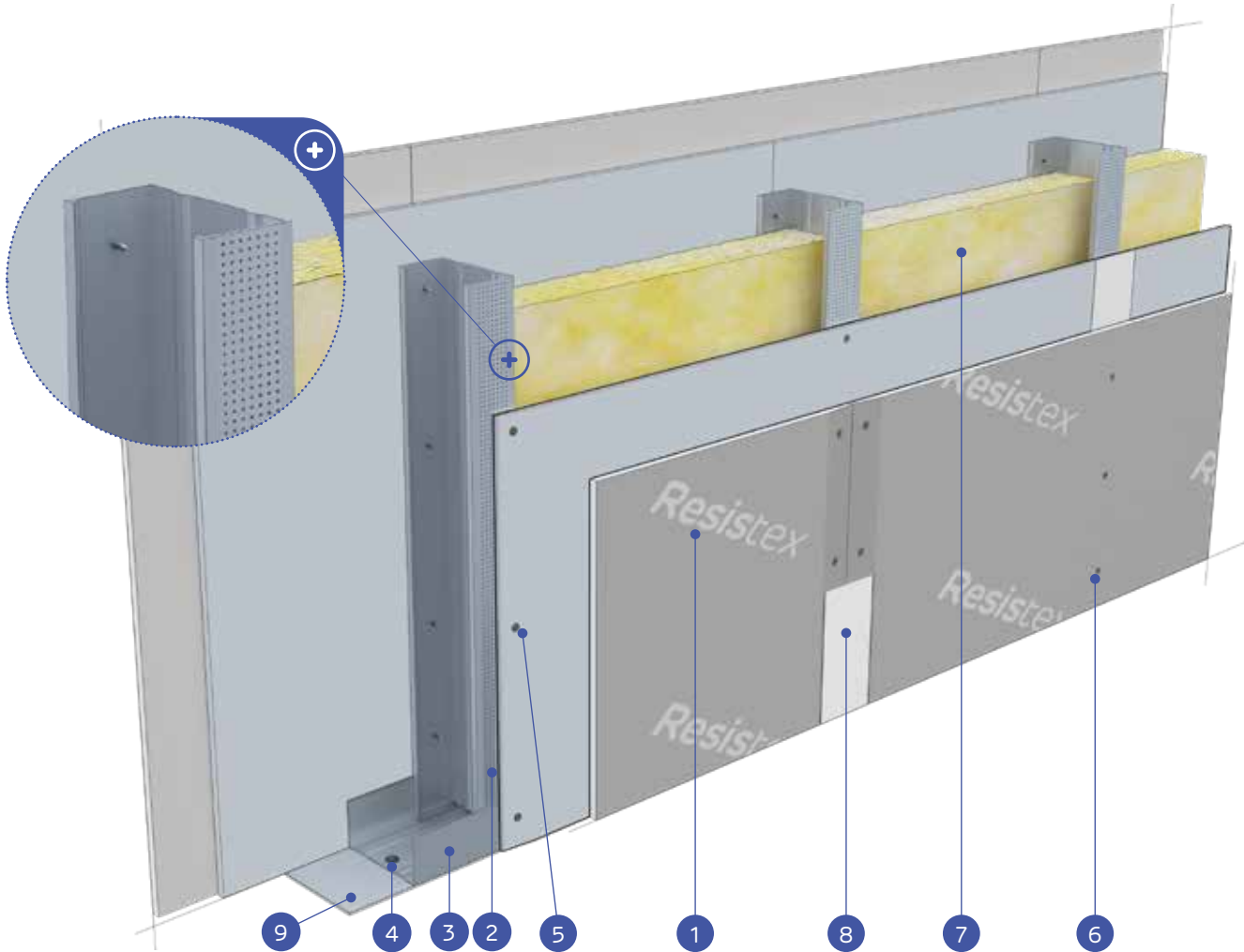
Burglar  
resistance  
class:  
RC2



Maximum  
encasement  
height:  
9000 mm

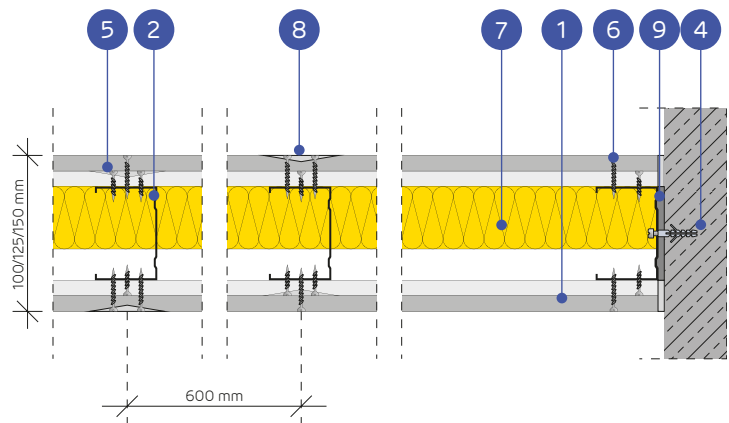


Number of  
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document:  
EN 1627:2011



## MATERIALS:

1. LaDura plasterboard (internal layer) + Resistex plasterboard (external layer)
2. NIDA CW50/CW75/CW100 profile
3. NIDA UW50/UW75/UW100 profile
4. NIDA expansion plug
5. NIDA 3.5 x 25 mm LaDura selftapping screws
6. NIDA 3.5 x 45 mm selftapping 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 CW50, CW75 AND CW100 STRUCTURE

TECHNICAL PARAMETERS							
NIDA System	System Thickness [mm]	NIDA Metal Structure	NIDA Plasterboard	Insulation Mineral Wool	System weight [Kg/m <sup>2</sup> ]	Maximum height with fire performance H.max [m]	Maximum height without fire performance H.max [m]
D100	100	CW50 @ 600 mm	2x1 Resistex 12.5 + 2x1 LaDura 12.5	1x MW 50 mm	55.3	5.39	5.00
D100	100	CW50-H @ 600 mm	2x1 Resistex 12.5 + 2x1 LaDura 12.5	1x MW 50 mm	58.1	5.87	5.75
D125	125	CW75 @ 600 mm	2x1 Resistex 12.5 + 2x1 LaDura 12.5	1x MW 50 mm	57.1	6.50	6.75
D125	125	CW75-H @ 600 mm	2x1 Resistex 12.5 + 2x1 LaDura 12.5	1x MW 50 mm	60.7	6.50	7.50
D150	150	CW100 @ 600 mm	2x1 Resistex 12.5 + 2x1 LaDura 12.5	1x MW 50 mm	58.1	6.50	8.05
D150	150	CW100-H @ 600 mm	2x1 Resistex 12.5 + 2x1 LaDura 12.5	1x MW 50 mm	62.6	6.50	9.00

<sup>1)</sup> The maximum wall height acc. to 01060/11/R12NK ITB technical opinion

<sup>2)</sup> The burglar resistance classes according to standard EN 1627:2011.

<sup>3)</sup> The fire resistance class according to standard EN 13501-2:2016-07.

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

The firestop and anti-burglar wall systems constructed according to the Siniat technology act as firestop partitions, with fire exposition from both their sides.

AMOUNT OF MATERIALS UTILISED PER 1M <sup>2</sup> OF ANTI-BURGLAR WALLS, ACCORDING TO NIDA SYSTEM			
Material name	Unit	Simple stud @ 600 mm	Double stud @ 600 mm
Resistex Plasterboard	m <sup>2</sup>	2.00	
LaDura Plasterboard	m <sup>2</sup>	2.00	
Mineral Wool 50 mm	m <sup>2</sup>	0 / 1 / 2	
NIDA Metal stud CW50/75/100	ml	1.90	3.70
Inferior track - NIDA Metal UW50/75/100	[H ≤ 4 m]	ml	0.35
	[4 m < H ≤ 8 m]	ml	0.20
	[8 m < H ≤ 9 m]	ml	0.12
Superior track - NIDA Metal UW50/75/100	[H ≤ 4 m]	ml	0.35
	[4 m < H ≤ 8 m]	ml	0.20
	[8 m < H ≤ 9 m]	ml	0.10
NIDA Metal UW50 jointing profile for CW50 studs	[0 m < H ≤ 4 m]	ml	0.00
	[4 m < H ≤ 8 m]	ml	0.35
	[8 m < H ≤ 9 m]	ml	0.40
NIDA Metal UW75 jointing profile for CW75 studs	[0 m < H ≤ 4 m]	ml	0.00
	[4 m < H ≤ 8 m]	ml	0.55
	[8 m < H ≤ 9 m]	ml	0.60
NIDA Metal UW100 jointing profile for CW100 studs	[0 m < H ≤ 4 m]	ml	0.00
	[4 m < H ≤ 8 m]	ml	0.75
	[8 m < H ≤ 9 m]	ml	0.80
Selftapping screw 212xL1	pc	12.00	12.00
Selftapping screw 212xL2	pc	20.00	20.00
Self-drilling screw 4.2x13 FLATHEAD for double studs	pc	0.00	4.00
Self-drilling screw 4.2x13 FLATHEAD for jointing profiles	pc	5.00	9.00
Siniat 6x40 metal dowel for fixing inferior tracks and perimetral studs.	pc		1.00
Mechanical fixing for top track <sup>(5)</sup>	pc		0.50
Monoadhesive sealing tape	ml		1.00
Fiberglass jointing tape <sup>(6)</sup>	ml		3.60
NIDA Profesional jointing compound	kg		1.20
NIDA Boardfix adhesive gypsum	kg		0.10

<sup>5)</sup> Alternatively, apply the NIDA Max gypsum compound.

<sup>6)</sup> 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.



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# NIDA System



Fire  
resistance  
class:  
EI120



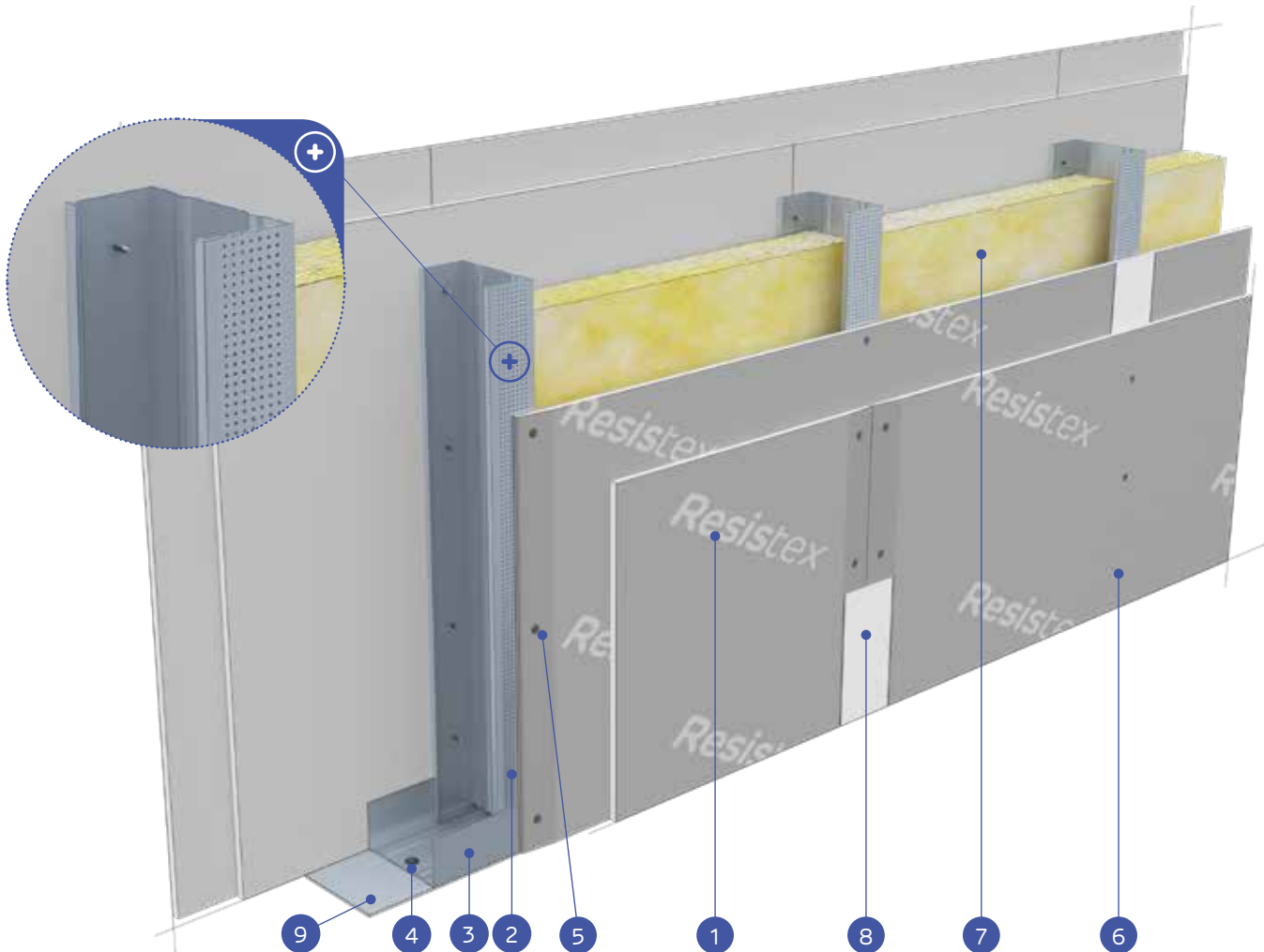
Burglar  
resistance  
class:  
RC3



Maximum  
encasement  
height:  
9020 mm

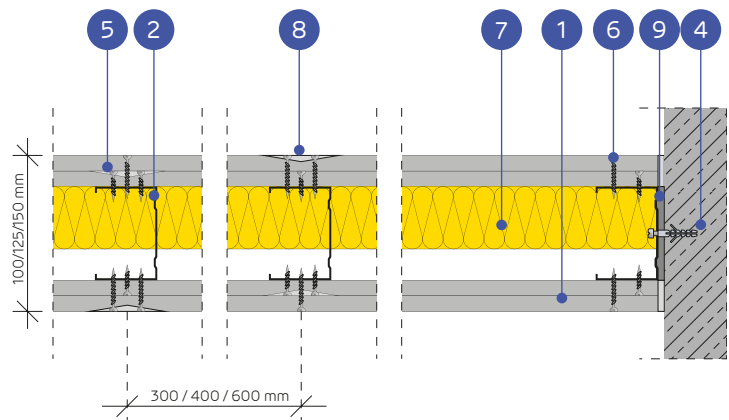


Number of  
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document:  
EN 1627:2011



## MATERIALS:

1. Resistex plasterboards
2. NIDA CW50/CW75/CW100 profile
3. NIDA UW50/UW75/UW100 profile
4. NIDA expansion plug
5. NIDA 3.5 x 25 mm selftapping screws
6. NIDA 3.5 x 45 mm selftapping 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 CW50, CW75 AND CW100 STRUCTURE

TECHNICAL PARAMETERS							
NIDA System	System Thickness [mm]	NIDA Metal Structure	NIDA Plasterboard	Insulation Mineral Wool	System weight [Kg/m <sup>2</sup> ]	Maximum height with fire performance H.max [m]	Maximum height without fire performance H.max [m]
D100	100	CW50 @ 600 mm	2x2 Resistex 12.5	1x MW 50 mm	50.6	4.50	4.50
D100	100	CW50 @ 400 mm	2x2 Resistex 12.5	1x MW 50 mm	51.3	5.00	5.00
D100	100	CW50 @ 300 mm	2x2 Resistex 12.5	1x MW 50 mm	52.1	5.34	5.34
D100	100	CW50-H @ 600 mm	2x2 Resistex 12.5	1x MW 50 mm	52	5.34	5.34
D100	100	CW50-H @ 400 mm	2x2 Resistex 12.5	1x MW 50 mm	53.4	5.60	5.60
D100	100	CW150-H @ 300 mm	2x2 Resistex 12.5	1x MW 50 mm	54.9	5.84	5.84
D125	125	CW75 @ 600 mm	2x2 Resistex 12.5	1x MW 50 mm	51.9	5.50	5.50
D125	125	CW75-H @ 400 mm	2x2 Resistex 12.5	1x MW 50 mm	52.8	6.48	6.48
D125	125	CW75 @ 300 mm	2x2 Resistex 12.5	1x MW 50 mm	53.9	6.50	6.70
D125	125	CW75-H @ 600 mm	2x2 Resistex 12.5	1x MW 50 mm	53.6	6.50	6.70
D125	125	CW75-H @ 400 mm	2x2 Resistex 12.5	1x MW 50 mm	55.5	6.50	7.11
D125	125	CW75-H @ 300 mm	2x2 Resistex 12.5	1x MW 50 mm	57.5	6.50	7.47
D150	150	CW100 @ 600 mm	2x2 Resistex 12.5	1x MW 50 mm	52.5	6.50	6.50
D150	150	CW100 @ 400 mm	2x2 Resistex 12.5	1x MW 50 mm	53.6	6.50	7.70
D150	150	CW100 @ 300 mm	2x2 Resistex 12.5	1x MW 50 mm	54.9	6.50	8.00
D150	150	CW100-H @ 600 mm	2x2 Resistex 12.5	1x MW 50 mm	54.6	6.50	8.00
D150	150	CW100-H @ 400 mm	2x2 Resistex 12.5	1x MW 50 mm	57	6.50	8.54
D150	150	CW100-H @ 300 mm	2x2 Resistex 12.5	1x MW 50 mm	59.4	6.50	9.02

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

<sup>2)</sup> The burglar resistance classes according to standard EN 1627:2011.

<sup>3)</sup> The fire resistance class according to standard EN 13501-2:2016-07.

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

The firestop and anti-burglar wall systems constructed according to the Siniat technology act as firestop partitions, with fire exposition from both their sides.

AMOUNT OF MATERIALS UTILISED PER 1M <sup>2</sup> OF ANTI-BURGLAR WALLS, ACCORDING TO NIDA SYSTEM							
Material name	Unit	Simple stud			Double stud		
		600 mm	400 mm	300 mm	600 mm	400 mm	300 mm
Resistex Plasterboard	m <sup>2</sup>	4.00					
Mineral Wool 50 mm	m <sup>2</sup>	0 / 1 / 2					
NIDA Metal stud CW50/75/100	ml	1.90	2.70	3.50	3.70	5.40	7.00
Inferior track - NIDA Metal UW50/75/100	[H ≤ 4 m]	0.35					
	[4 m < H ≤ 8 m]	0.20					
	[8 m < H ≤ 11 m]	0.12					
Superior track - NIDA Metal UW50/75/100	[H ≤ 4 m]	0.35					
	[4 m < H ≤ 8 m]	0.20					
	[8 m < H ≤ 11 m]	0.10					
NIDA Metal UW50 jointing profile for CW50 studs	[0 m < H ≤ 4 m]	0.00	0.00	0.00	0.00	0.00	0.00
	[4 m < H ≤ 8 m]	0.35	0.55	0.70	0.75	1.10	1.40
	[8 m < H ≤ 11 m]	0.40	0.60	0.80	0.80	1.20	1.60
NIDA Metal UW75 jointing profile for CW75 studs	[0 m < H ≤ 4 m]	0.00	0.00	0.00	0.00	0.00	0.00
	[4 m < H ≤ 8 m]	0.55	0.80	1.05	1.10	1.60	2.10
NIDA Metal UW100 jointing profile for CW100 studs	[8 m < H ≤ 12 m]	0.60	0.90	1.20	1.20	1.80	2.30
	[0 m < H ≤ 4 m]	0.00	0.00	0.00	0.00	0.00	0.00
NIDA Metal UW100 jointing profile for CW100 studs	[4 m < H ≤ 8 m]	0.75	1.10	1.40	1.50	2.10	2.80
	[8 m < H ≤ 11 m]	0.80	1.20	1.60	1.60	2.40	3.10
Selftapping screw 212xL1	pc	12.00	16.00	20.00	12.00	16.00	20.00
Selftapping screw 212xL2	pc	20.00	26.00	32.00	20.00	26.00	32.00
Self-drilling screw 4.2x13 FLATHEAD for double studs	pc	0.00	0.00	0.00	4.00	6.00	8.00
Self-drilling screw 4.2x13 FLATHEAD for jointing profiles	pc	5.00	7.00	9.00	9.00	13.00	17.00
Siniat 6x40 metal dowel for fixing inferior tracks and perimetral studs.	pc	1.00					
Mechanical fixing for top track <sup>(5)</sup>	pc	0.50					
Monoadhesive sealing tape	ml	1.00					
Fiberglass jointing tape <sup>(6)</sup>	ml	3.60					
NIDA Profesional jointing compound	kg	1.20					
NIDA Boardfix adhesive gypsum	kg	0.10					

<sup>5)</sup> Alternatively, apply the NIDA Max gypsum compound.

<sup>6)</sup> 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.



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## NIDA System



Fire  
resistance  
class:  
EI180



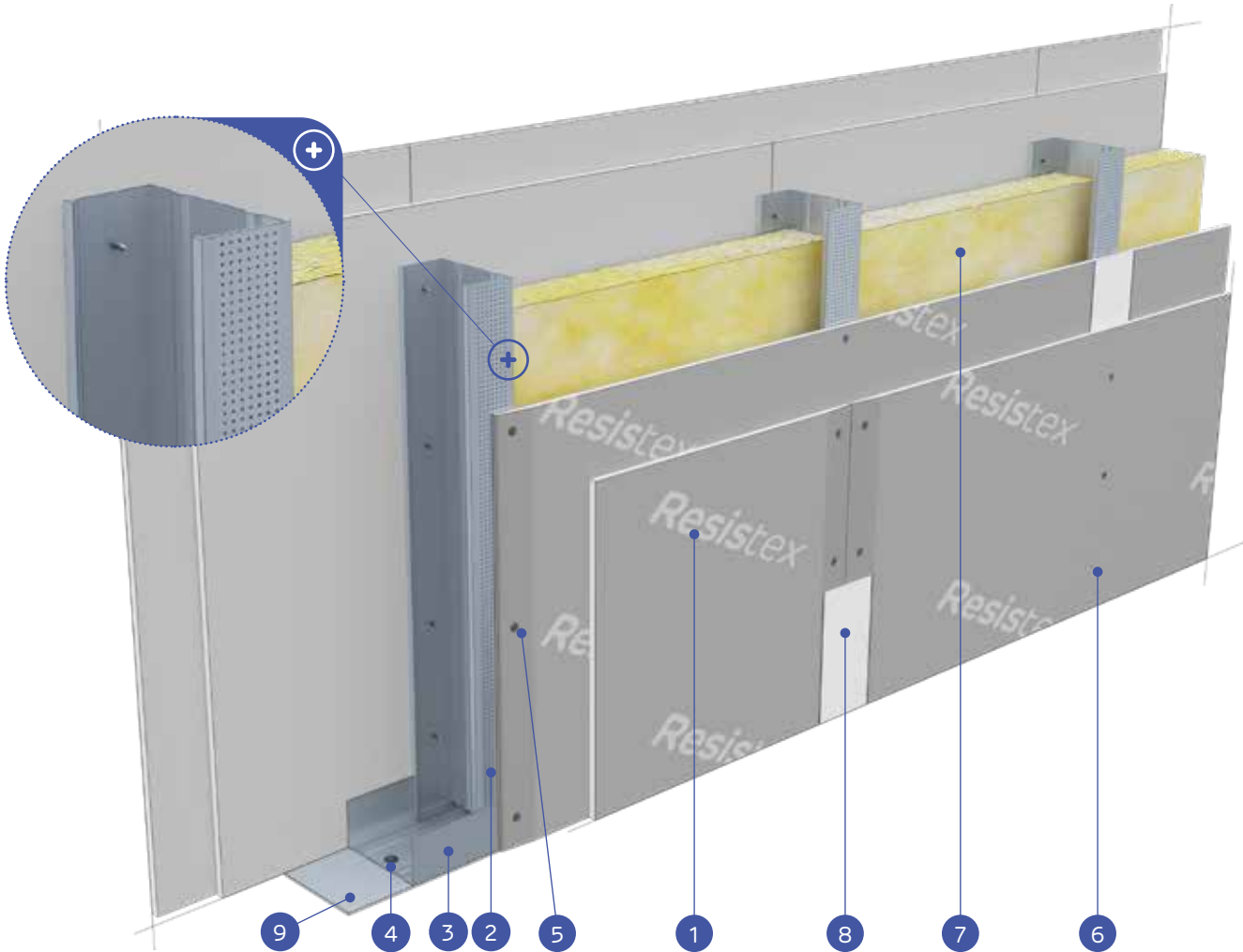
Burglar  
resistance  
class:  
RC3



Maximum  
encasement  
height:  
9110 mm

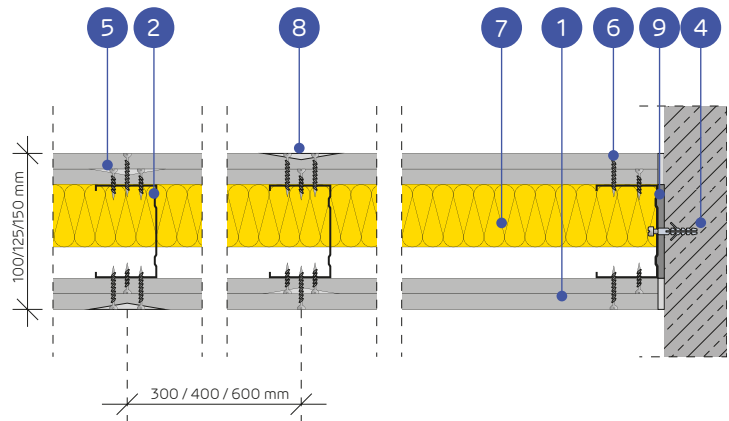


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## MATERIALS:

1. Resistex plasterboards
2. NIDA CW50/CW75/CW100 profile
3. NIDA UW50/UW75/UW100 profile
4. NIDA expansion plug
5. NIDA 3.5 x 25 mm selftapping screws
6. NIDA 3.5 x 45 mm selftapping 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 CW50, CW75 AND CW100 STRUCTURE

TECHNICAL PARAMETERS							
NIDA System	System Thickness [mm]	NIDA Metal Structure	NIDA Plasterboard	Insulation Mineral Wool	System weight [Kg/m <sup>2</sup> ]	Maximum height with fire performance H.max [m]	Maximum height without fire performance H.max [m]
D110	110	CW50 @ 600 mm	2x2 Resistex 15	1x MW 50 mm	58.6	4.50	4.50
D110	110	CW50 @ 400 mm	2x2 Resistex 15	1x MW 50 mm	59.3	5.00	5.00
D110	110	CW50 @ 300 mm	2x2 Resistex 15	1x MW 50 mm	60.1	5.51	5.51
D110	110	CW50-H @ 600 mm	2x2 Resistex 15	1x MW 50 mm	60	5.50	5.50
D110	110	CW75-H @ 400 mm	2x2 Resistex 15	1x MW 50 mm	61.4	5.75	5.75
D110	110	CW150-H @ 300 mm	2x2 Resistex 15	1x MW 50 mm	62.9	5.98	5.98
D135	135	CW75 @ 600 mm	2x2 Resistex 15	1x MW 50 mm	59.9	5.50	5.50
D135	135	CW50-H @ 400 mm	2x2 Resistex 15	1x MW 50 mm	60.8	6.50	6.63
D135	135	CW75 @ 300 mm	2x2 Resistex 15	1x MW 50 mm	61.9	6.50	6.84
D135	135	CW75-H @ 600 mm	2x2 Resistex 15	1x MW 50 mm	61.6	6.50	6.84
D135	135	CW75-H @ 400 mm	2x2 Resistex 15	1x MW 50 mm	63.5	6.50	7.23
D135	135	CW75-H @ 300 mm	2x2 Resistex 15	1x MW 50 mm	65.5	6.50	7.58
D160	160	CW100 @ 600 mm	2x2 Resistex 15	1x MW 50 mm	60.5	6.50	6.50
D160	160	CW100 @ 400 mm	2x2 Resistex 15	1x MW 50 mm	61.6	6.50	7.81
D160	160	CW100 @ 300 mm	2x2 Resistex 15	1x MW 50 mm	62.9	6.50	8.11
D160	160	CW100-H @ 600 mm	2x2 Resistex 15	1x MW 50 mm	62.6	6.50	8.11
D160	160	CW100-H @ 400 mm	2x2 Resistex 15	1x MW 50 mm	65	6.50	8.63
D160	160	CW100-H @ 300 mm	2x2 Resistex 15	1x MW 50 mm	67.4	6.50	9.11

<sup>1)</sup> The maximum wall height acc. to 01060/11/R12NK ITB technical opinion

<sup>2)</sup> The burglar resistance classes according to standard EN 1627:2011.

<sup>3)</sup> The fire resistance class according to standard EN 13501-2:2016-07.

<sup>4)</sup> The Resistex board type DFH2IR can be used in increased relative humidity environments up to 85% (up to 10 hour per day), e.g. bathrooms, kitchens, etc. The firestop and anti-burglar wall systems constructed according to the Siniat technology act as firestop partitions, with fire exposition from both their sides.

AMOUNT OF MATERIALS UTILISED PER 1M <sup>2</sup> OF ANTI-BURGLAR WALLS, ACCORDING TO NIDA SYSTEM							
Material name	Unit	Simple stud			Double stud		
		600 mm	400 mm	300 mm	600 mm	400 mm	300 mm
Resistex Plasterboard	m <sup>2</sup>	4.00					
Mineral Wool 50 mm	m <sup>2</sup>	0 / 1 / 2					
NIDA Metal stud CW50/75/100	ml	1.90	2.70	3.50	3.70	5.40	7.00
Inferior track - NIDA Metal UW50/75/100	[H ≤ 4 m]	0.35					
	[4 m < H ≤ 8 m]	0.20					
	[8 m < H ≤ 11 m]	0.12					
Superior track - NIDA Metal UW50/75/100	[H ≤ 4 m]	0.35					
	[4 m < H ≤ 8 m]	0.20					
	[8 m < H ≤ 11 m]	0.10					
NIDA Metal UW50 jointing profile for CW50 studs	[0 m < H ≤ 4 m]	0.00	0.00	0.00	0.00	0.00	0.00
	[4 m < H ≤ 8 m]	0.35	0.55	0.70	0.75	1.10	1.40
	[8 m < H ≤ 11 m]	0.40	0.60	0.80	0.80	1.20	1.60
NIDA Metal UW75 jointing profile for CW75 studs	[0 m < H ≤ 4 m]	0.00	0.00	0.00	0.00	0.00	0.00
	[4 m < H ≤ 8 m]	0.55	0.80	1.05	1.10	1.60	2.10
NIDA Metal UW100 jointing profile for CW100 studs	[8 m < H ≤ 12 m]	0.60	0.90	1.20	1.20	1.80	2.30
	[0 m < H ≤ 4 m]	0.00	0.00	0.00	0.00	0.00	0.00
NIDA Metal UW100 jointing profile for CW100 studs	[4 m < H ≤ 8 m]	0.75	1.10	1.40	1.50	2.10	2.80
	[8 m < H ≤ 11 m]	0.80	1.20	1.60	1.60	2.40	3.10
Selftapping screw 212xL1	pc	12.00	16.00	20.00	12.00	16.00	20.00
Selftapping screw 212xL2	pc	20.00	26.00	32.00	20.00	26.00	32.00
Self-drilling screw 4.2x13 FLATHEAD for double studs	pc	0.00	0.00	0.00	4.00	6.00	8.00
Self-drilling screw 4.2x13 FLATHEAD for jointing profiles	pc	5.00	7.00	9.00	9.00	13.00	17.00
Siniat 6x40 metal dowel for fixing inferior tracks and perimetral studs.	pc	1.00					
Mechanical fixing for top track <sup>(5)</sup>	pc	0.50					
Monoadhesive sealing tape	ml	1.00					
Fiberglass jointing tape <sup>(6)</sup>	ml	3.60					
NIDA Profesional jointing compound	kg	1.20					
NIDA Boardfix adhesive gypsum	kg	0.10					

<sup>5)</sup> Alternatively, apply the NIDA Max gypsum compound.

<sup>6)</sup> 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.



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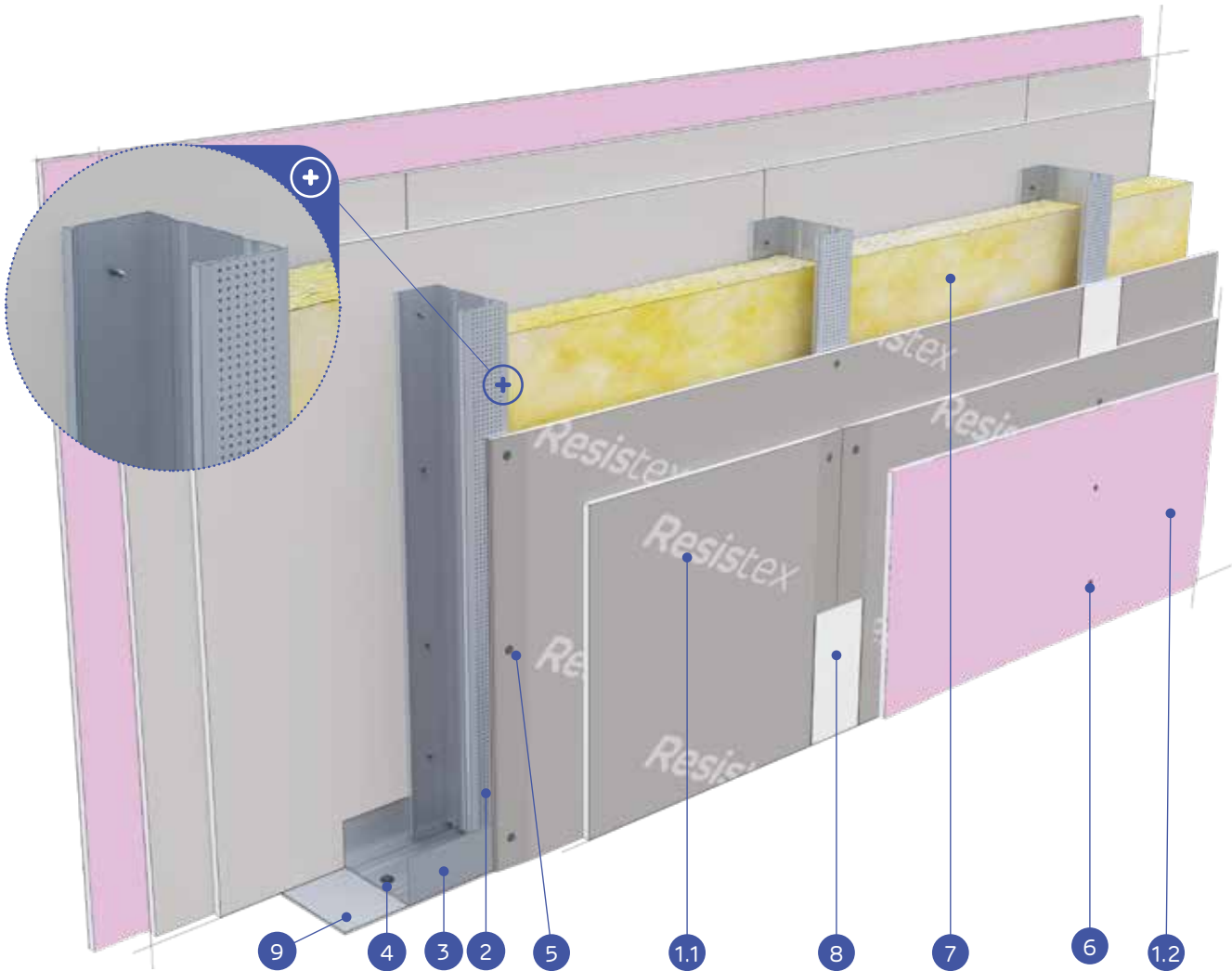
# NIDA System

 Fire resistance class:  
**EI180**

 Burglar resistance class:  
**RC3**

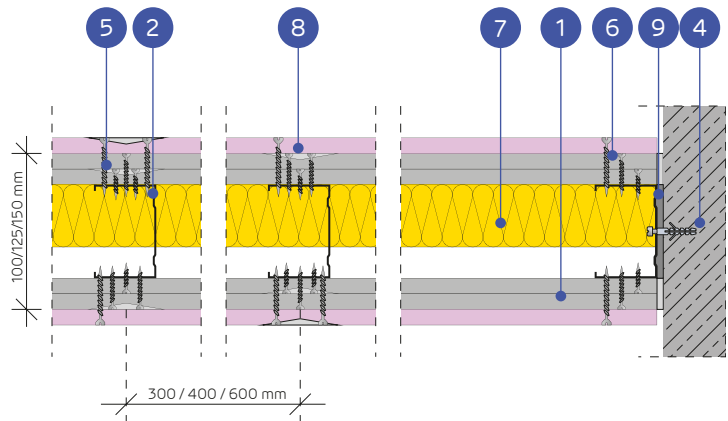
 Maximum encasement height:  
**9720 mm**

 Number of related document:  
**EN 1627:2011**



**MATERIALS:**

- 1.1 Resistex plasterboards
- 1.2 NIDA Flam plasterboard
- 2. NIDA CW50/CW75/CW100 profile
- 3. NIDA UW50/UW75/UW100 profile
- 4. NIDA expansion plug
- 5. NIDA 3.5 x 25 mm selftapping screws
- 6. NIDA 3.5 x 45 mm selftapping 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 CW50, CW75 AND CW100 STRUCTURE

TECHNICAL PARAMETERS							
NIDA System	System Thickness [mm]	NIDA Metal Structure	NIDA Plasterboard	Insulation Mineral Wool	System weight [Kg/m <sup>2</sup> ]	Maximum height with fire performance H.max [m]	Maximum height without fire performance H.max [m]
D125	125	CW50 @ 600 mm	2x2 Resistex 12,5 + 2x1 NIDA Flam 12,5	1x MW 50 mm	74.4	4.50	4.50
D125	125	CW50 @ 400 mm	2x2 Resistex 12,5 + 2x1 NIDA Flam 12,5	1x MW 50 mm	75.1	5.00	5.00
D125	125	CW50 @ 300 mm	2x2 Resistex 12,5 + 2x1 NIDA Flam 12,5	1x MW 50 mm	75.8	5.75	5.75
D125	125	CW50-H @ 600 mm	2x2 Resistex 12,5 + 2x1 NIDA Flam 12,5	1x MW 50 mm	75.7	5.50	5.50
D125	125	CW50-H @ 400 mm	2x2 Resistex 12,5 + 2x1 NIDA Flam 12,5	1x MW 50 mm	77.1	5.75	5.75
D125	125	CW50-H @ 300 mm	2x2 Resistex 12,5 + 2x1 NIDA Flam 12,5	1x MW 50 mm	78.6	6.50	6.61
D150	150	CW75 @ 600 mm	2x2 Resistex 12,5 + 2x1 NIDA Flam 12,5	1x MW 50 mm	76	5.50	5.50
D150	150	CW75-H @ 400 mm	2x2 Resistex 12,5 + 2x1 NIDA Flam 12,5	1x MW 50 mm	77	6.50	7.00
D150	150	CW75 @ 300 mm	2x2 Resistex 12,5 + 2x1 NIDA Flam 12,5	1x MW 50 mm	78	6.50	7.58
D150	150	CW75-H @ 600 mm	2x2 Resistex 12,5 + 2x1 NIDA Flam 12,5	1x MW 50 mm	77.8	6.50	7.50
D150	150	CW75-H @ 400 mm	2x2 Resistex 12,5 + 2x1 NIDA Flam 12,5	1x MW 50 mm	79.6	6.50	7.90
D150	150	CW75-H @ 300 mm	2x2 Resistex 12,5 + 2x1 NIDA Flam 12,5	1x MW 50 mm	81.6	6.50	8.20
D175	175	CW100 @ 600 mm	2x2 Resistex 12,5 + 2x1 NIDA Flam 12,5	1x MW 50 mm	76.6	6.50	6.50
D175	175	CW100 @ 400 mm	2x2 Resistex 12,5 + 2x1 NIDA Flam 12,5	1x MW 50 mm	77.8	6.50	8.25
D175	175	CW100 @ 300 mm	2x2 Resistex 12,5 + 2x1 NIDA Flam 12,5	1x MW 50 mm	79	6.50	8.87
D175	175	CW100-H @ 600 mm	2x2 Resistex 12,5 + 2x1 NIDA Flam 12,5	1x MW 50 mm	78.8	6.50	8.87
D175	175	CW100-H @ 400 mm	2x2 Resistex 12,5 + 2x1 NIDA Flam 12,5	1x MW 50 mm	81.1	6.50	9.32
D175	175	CW100-H @ 300 mm	2x2 Resistex 12,5 + 2x1 NIDA Flam 12,5	1x MW 50 mm	83.5	6.50	9.72

<sup>1)</sup> The maximum wall height acc. to 01060/11/R12NK ITB technical opinion. / <sup>2)</sup> The burglar resistance classes according to standard EN 1627:2011. / <sup>3)</sup> The fire resistance class according to standard EN 13501-2:2016-07. / <sup>4)</sup> The Resistex board type DFH2IR can be used in increased relative humidity environments up to 85% (up to 10 hour per day), e.g. bathrooms, kitchens, etc. / The firestop and anti-burglar wall systems constructed according to the Siniat technology act as firestop partitions, with fire exposition from both their sides.

AMOUNT OF MATERIALS UTILISED PER 1M <sup>2</sup> OF ANTI-BURGLAR WALLS, ACCORDING TO NIDA SYSTEM								
Material name	Unit	Simple stud			Double stud			
		600 mm	400 mm	300 mm	600 mm	400 mm	300 mm	
Resistex Plasterboard	m <sup>2</sup>					4.00		
NIDA Flam Plasterboard	m <sup>2</sup>					2.00		
Mineral Wool 50 mm	m <sup>2</sup>					0 / 1 / 2		
NIDA Metal stud CW50/75/100	ml	1.90	2.70	3.50	3.70	5.40	7.00	
Inferior track - NIDA Metal UW50/75/100	[H ≤ 4 m]					0.35		
	[4 m < H ≤ 8 m]					0.20		
	[8 m < H ≤ 11 m]					0.12		
Superior track - NIDA Metal UW50/75/100	[H ≤ 4 m]					0.35		
	[4 m < H ≤ 8 m]					0.20		
	[8 m < H ≤ 11 m]					0.10		
NIDA Metal UW50 jointing profile for CW50 studs	[0 m < H ≤ 4 m]	ml	0.00	0.00	0.00	0.00	0.00	0.00
	[4 m < H ≤ 8 m]	ml	0.35	0.55	0.70	0.75	1.10	1.40
	[8 m < H ≤ 11 m]	ml	0.40	0.60	0.80	0.80	1.20	1.60
NIDA Metal UW75 jointing profile for CW75 studs	[0 m < H ≤ 4 m]	ml	0.00	0.00	0.00	0.00	0.00	0.00
	[4 m < H ≤ 8 m]	ml	0.55	0.80	1.05	1.10	1.60	2.10
	[8 m < H ≤ 11 m]	ml	0.60	0.90	1.20	1.20	1.80	2.30
NIDA Metal UW100 jointing profile for CW100 studs	[0 m < H ≤ 4 m]	ml	0.00	0.00	0.00	0.00	0.00	0.00
	[4 m < H ≤ 8 m]	ml	0.75	1.10	1.40	1.50	2.10	2.80
	[8 m < H ≤ 11 m]	ml	0.80	1.20	1.60	1.60	2.40	3.10
Selftapping screw 212xL1	pc	12.00	16.00	20.00	12.00	16.00	20.00	
Selftapping screw 212xL2	pc	12.00	16.00	20.00	12.00	16.00	20.00	
Selftapping screw 212xL3	pc	20.00	26.00	32.00	20.00	26.00	31.00	
Self-drilling screw 4.2x13 FLATHEAD for double studs	pc	0.00	0.00	0.00	4.00	6.00	8.00	
Self-drilling screw 4.2x13 FLATHEAD for jointing profiles	pc	5.00	7.00	9.00	9.00	13.00	17.00	
Siniat 6x40 metal dowel for fixing inferior tracks and perimetral studs.	pc					1.00		
Mechanical fixing for top track <sup>(5)</sup>	pc					0.50		
Monoadhesive sealing tape	ml					1.00		
Fiberglass jointing tape <sup>(6)</sup>	ml					3.60		
NIDA Profesional jointing compound	kg					1.80		
NIDA Boardfix adhesive gypsum	kg					0.10		

<sup>5)</sup> Alternatively, apply the NIDA Max gypsum compound. / <sup>6)</sup> 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.



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ACC. EN 1627

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## NIDA System



Fire  
resistance  
class:  
EI120



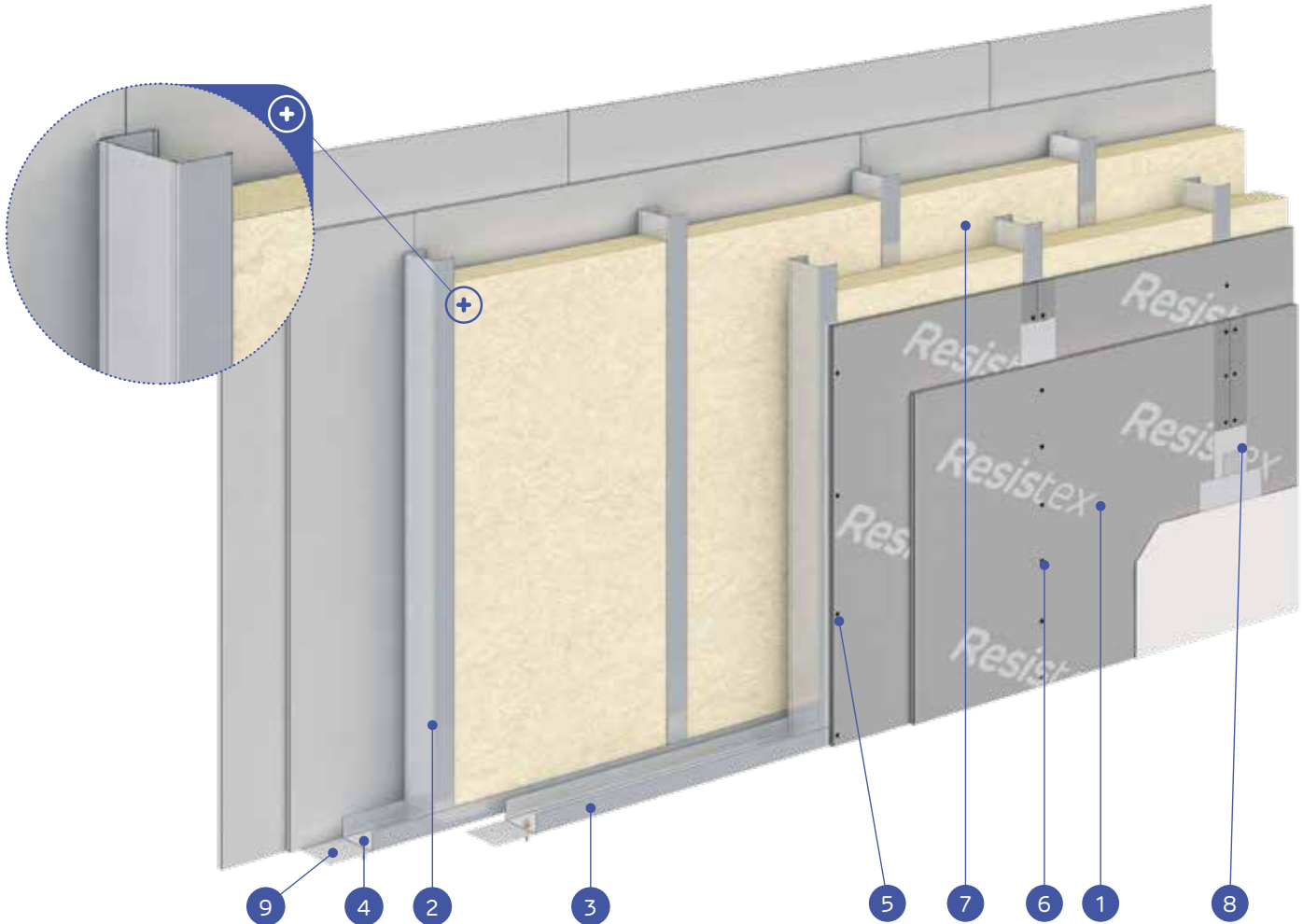
Burglar  
resistance  
class:  
RC3



Maximum  
encasement  
height:  
7430 mm

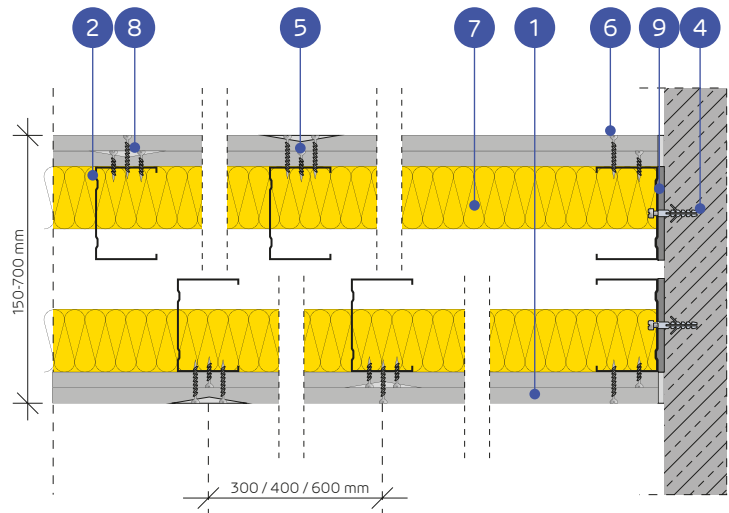


Number of  
related  
document:  
EN 1627:2011



## MATERIALS:

1. Resistex plasterboards
2. NIDA CW50/CW75/CW100 profile
3. NIDA UW50/UW75/UW100 profile
4. NIDA expansion plug
5. NIDA 3.5 x 25 mm selftapping screws
6. NIDA 3.5 x 45 mm selftapping 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 OFFSET SINGLE AND DOUBLED NIDA CW50, CW75 AND CW100 STRUCTURE

TECHNICAL PARAMETERS							
NIDA System	System Thickness [mm]	NIDA Metal Structure	NIDA Plasterboard	Insulation Mineral Wool	System weight [Kg/m <sup>2</sup> ]	Maximum height with fire performance H.max [m]	Maximum height without fire performance H.max [m]
S160	160	2x CW50 @ 600 mm	2x2 Resistex 12.5	2x1 MW 50 mm	52.5	3.05	3.05
S160	160	2x CW50 @ 400 mm	2x2 Resistex 12.5	2x1 MW 50 mm	54	3.45	3.45
S160	160	2x CW50 @ 300 mm	2x2 Resistex 12.5	2x1 MW 50 mm	55.4	3.80	3.80
S160	160	2x CW50-H @ 600 mm	2x2 Resistex 12.5	2x1 MW 50 mm	55.1	3.80	3.80
S160	160	2x CW50-H @ 400 mm	2x2 Resistex 12.5	2x1 MW 50 mm	58	4.35	4.35
S160	160	2x CW50-H @ 300 mm	2x2 Resistex 12.5	2x1 MW 50 mm	61	4.75	4.75
S210	210	2x CW75 @ 600 mm	2x2 Resistex 12.5	2x1 MW 50 mm	54.2	4.00	4.00
S210	210	2x CW75 @ 400 mm	2x2 Resistex 12.5	2x1 MW 50 mm	56.2	4.60	4.60
S210	210	2x CW75 @ 300 mm	2x2 Resistex 12.5	2x1 MW 50 mm	58.1	5.05	5.05
S210	210	2x CW75-H @ 600 mm	2x2 Resistex 12.5	2x1 MW 50 mm	57.7	5.05	5.05
S210	210	2x CW75-H @ 400 mm	2x2 Resistex 12.5	2x1 MW 50 mm	61.5	5.80	5.80
S210	210	2x CW75-H @ 300 mm	2x2 Resistex 12.5	2x1 MW 50 mm	65.5	6.40	6.40
S260	260	2x CW100 @ 600 mm	2x2 Resistex 12.5	2x1 MW 50 mm	55.3	4.95	4.95
S260	260	2x CW100 @ 400 mm	2x2 Resistex 12.5	2x1 MW 50 mm	57.8	5.70	5.70
S260	260	2x CW100 @ 300 mm	2x2 Resistex 12.5	2x1 MW 50 mm	60.1	6.30	6.30
S260	260	2x CW100-H @ 600 mm	2x2 Resistex 12.5	2x1 MW 50 mm	59.6	6.25	6.25
S260	260	2x CW100-H @ 400 mm	2x2 Resistex 12.5	2x1 MW 50 mm	64.5	6.50	7.20
S260	260	2x CW100-H @ 300 mm	2x2 Resistex 12.5	2x1 MW 50 mm	69.4	6.50	7.43

<sup>1)</sup> The maximum wall height acc. to 01060/11/R12NK ITB technical opinion

<sup>2)</sup> The burglar resistance classes according to standard EN 1627:2011.

<sup>3)</sup> The fire resistance class according to standard EN 13501-2:2016-07.

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

The firestop and anti-burglar wall systems constructed according to the Siniat technology act as firestop partitions, with fire exposition from both their sides.

AMOUNT OF MATERIALS UTILISED PER 1M <sup>2</sup> OF ANTI-BURGLAR WALLS, ACCORDING TO NIDA SYSTEM							
Material name	Unit	Simple stud			Double stud		
		600 mm	400 mm	300 mm	600 mm	400 mm	300 mm
Resistex Plasterboard	m <sup>2</sup>	4.00					
Mineral Wool 50 mm	m <sup>2</sup>	0 / 2 / 4					
NIDA Metal stud CW50/75/100	ml	3.90	5.50	7.20	7.70	11.00	14.40
Inferior track - NIDA Metal UW50/75/100	[H ≤ 4 m]	0.65					
	[4 m < H ≤ 6 m]	0.40					
	[6 m < H ≤ 7.5 m]	0.30					
Superior track - NIDA Metal UW50/75/100	[H ≤ 4 m]	0.65					
	[4 m < H ≤ 6 m]	0.40					
	[6 m < H ≤ 7.5 m]	0.30					
NIDA Metal UW50 jointing profile for CW50 studs	[0 m < H ≤ 4 m]	0.00	0.00	0.00	0.00	0.00	0.00
	[4 m < H ≤ 7.5 m]	0.80	1.10	1.45	1.55	2.20	2.90
NIDA Metal UW75 jointing profile for CW75 studs	[0 m < H ≤ 4 m]	0.00	0.00	0.00	0.00	0.00	0.00
	[4 m < H ≤ 7.5 m]	1.15	1.65	2.15	2.30	3.30	4.30
NIDA Metal UW100 jointing profile for CW100 studs	[0 m < H ≤ 4 m]	0.00	0.00	0.00	0.00	0.00	0.00
	[4 m < H ≤ 7.5 m]	1.55	2.20	2.90	3.10	4.40	5.75
Selftapping screw 212xL1	pc	12.00	16.00	20.00	12.00	16.00	20.00
Selftapping screw 212xL2	pc	20.00	26.00	32.00	20.00	26.00	32.00
Self-drilling screw 4.2x13 FLATHEAD for double studs	pc	0.00	0.00	0.00	8.00	11.00	14.00
Self-drilling screw 4.2x13 FLATHEAD for jointing profiles	pc	9.00	11.00	15.00	17.00	25.00	32.00
Siniat 6x40 metal dowel for fixing inferior tracks and perimetral studs.	pc	2.00					
Mechanical fixing for top track <sup>(5)</sup>	pc	1.00					
Monoadhesive sealing tape	ml	2.00					
Fiberglass jointing tape <sup>(6)</sup>	ml	3.60					
NIDA Profesional jointing compound	kg	1.20					
NIDA Boardfix adhesive gypsum	kg	0.10					

<sup>5)</sup> Alternatively, apply the NIDA Max gypsum compound.

<sup>6)</sup> 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.



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## NIDA System



Fire  
resistance  
class:  
EI180



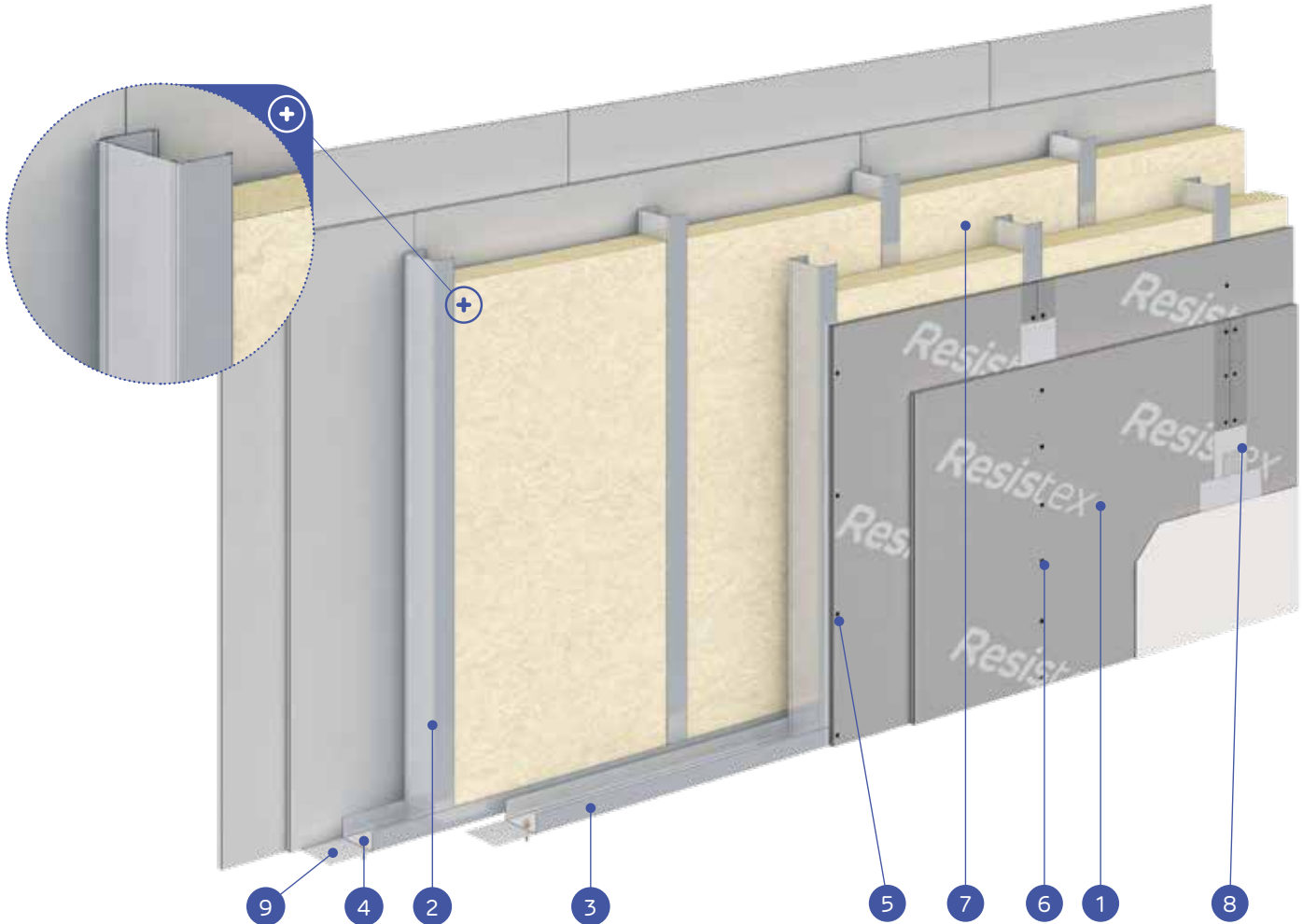
Burglar  
resistance  
class:  
RC3



Maximum  
encasement  
height:  
7430 mm

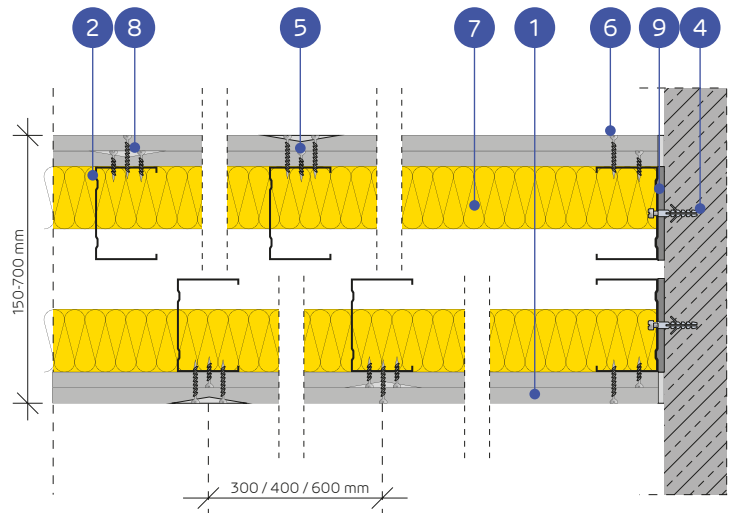


Number of  
related  
document:  
EN 1627:2011



## MATERIALS:

1. Resistex plasterboards
2. NIDA CW50/CW75/CW100 profile
3. NIDA UW50/UW75/UW100 profile
4. NIDA expansion plug
5. NIDA 3.5 x 25 mm selftapping screws
6. NIDA 3.5 x 45 mm selftapping 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 OFFSET SINGLE AND DOUBLED NIDA CW50, CW75 AND CW100 STRUCTURE

TECHNICAL PARAMETERS							
NIDA System	System Thickness [mm]	NIDA Metal Structure	NIDA Plasterboard	Insulation Mineral Wool	System weight [Kg/m <sup>2</sup> ]	Maximum height with fire performance H.max [m]	Maximum height without fire performance H.max [m]
S170	170	2x CW50 @ 600 mm	2x2 Resistex 15	2x1 MW 50 mm	62	3.10	3.10
S170	170	2x CW50 @ 400 mm	2x2 Resistex 15	2x1 MW 50 mm	63.3	3.50	3.50
S170	170	2x CW50 @ 300 mm	2x2 Resistex 15	2x1 MW 50 mm	64.9	3.85	3.85
S170	170	2x CW50-H @ 600 mm	2x2 Resistex 15	2x1 MW 50 mm	64.6	3.85	3.85
S170	170	2x CW50-H @ 400 mm	2x2 Resistex 15	2x1 MW 50 mm	67.5	4.40	4.40
S170	170	2x CW50-H @ 300 mm	2x2 Resistex 15	2x1 MW 50 mm	70.5	4.80	4.80
S220	220	2x CW75 @ 600 mm	2x2 Resistex 15	2x1 MW 50 mm	64.5	4.05	4.05
S220	220	2x CW75 @ 400 mm	2x2 Resistex 15	2x1 MW 50 mm	66.4	4.65	4.65
S220	220	2x CW75 @ 300 mm	2x2 Resistex 15	2x1 MW 50 mm	68.3	5.10	5.10
S220	220	2x CW75-H @ 600 mm	2x2 Resistex 15	2x1 MW 50 mm	67.9	5.10	5.10
S220	220	2x CW75-H @ 400 mm	2x2 Resistex 15	2x1 MW 50 mm	71.7	5.85	5.85
S220	220	2x CW75-H @ 300 mm	2x2 Resistex 15	2x1 MW 50 mm	75.7	6.40	6.40
S270	270	2x CW100 @ 600 mm	2x2 Resistex 15	2x1 MW 50 mm	65.6	4.95	4.95
S270	270	2x CW100 @ 400 mm	2x2 Resistex 15	2x1 MW 50 mm	68	5.75	5.75
S270	270	2x CW100 @ 300 mm	2x2 Resistex 15	2x1 MW 50 mm	70.3	6.30	6.30
S270	270	2x CW100-H @ 600 mm	2x2 Resistex 15	2x1 MW 50 mm	69.9	6.30	6.30
S270	270	2x CW100-H @ 400 mm	2x2 Resistex 15	2x1 MW 50 mm	74.7	6.50	7.20
S270	270	2x CW100-H @ 300 mm	2x2 Resistex 15	2x1 MW 50 mm	79.6	6.50	7.43

<sup>1)</sup> The maximum wall height acc. to 01060/11/R12NK ITB technical opinion

<sup>2)</sup> The burglar resistance classes according to standard EN 1627:2011.

<sup>3)</sup> The fire resistance class according to standard EN 13501-2:2016-07.

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

The firestop and anti-burglar wall systems constructed according to the Siniat technology act as firestop partitions, with fire exposition from both their sides.

AMOUNT OF MATERIALS UTILISED PER 1M <sup>2</sup> OF ANTI-BURGLAR WALLS, ACCORDING TO NIDA SYSTEM							
Material name	Unit	Simple stud			Double stud		
		600 mm	400 mm	300 mm	600 mm	400 mm	300 mm
Resistex Plasterboard	m <sup>2</sup>	4.00					
Mineral Wool 50 mm	m <sup>2</sup>	0 / 2 / 4					
NIDA Metal stud CW50/75/100	ml	3.90	5.50	7.20	7.70	11.00	14.40
Inferior track - NIDA Metal UW50/75/100	[H ≤ 4 m]	0.65					
	[4 m < H ≤ 6 m]	0.40					
	[6 m < H ≤ 7.5 m]	0.30					
Superior track - NIDA Metal UW50/75/100	[H ≤ 4 m]	0.65					
	[4 m < H ≤ 6 m]	0.40					
	[6 m < H ≤ 7.5 m]	0.30					
NIDA Metal UW50 jointing profile for CW50 studs	[0 m < H ≤ 4 m]	0.00	0.00	0.00	0.00	0.00	0.00
	[4 m < H ≤ 7.5 m]	0.80	1.10	1.45	1.55	2.20	2.90
NIDA Metal UW75 jointing profile for CW75 studs	[0 m < H ≤ 4 m]	0.00	0.00	0.00	0.00	0.00	0.00
	[4 m < H ≤ 7.5 m]	1.15	1.65	2.15	2.30	3.30	4.30
NIDA Metal UW100 jointing profile for CW100 studs	[0 m < H ≤ 4 m]	0.00	0.00	0.00	0.00	0.00	0.00
	[4 m < H ≤ 7.5 m]	1.55	2.20	2.90	3.10	4.40	5.75
Selftapping screw 212xL1	pc	12.00	16.00	20.00	12.00	16.00	20.00
Selftapping screw 212xL2	pc	20.00	26.00	32.00	20.00	26.00	32.00
Self-drilling screw 4.2x13 FLATHEAD for double studs	pc	0.00	0.00	0.00	8.00	11.00	14.00
Self-drilling screw 4.2x13 FLATHEAD for jointing profiles	pc	9.00	11.00	15.00	17.00	25.00	32.00
Siniat 6x40 metal dowel for fixing inferior tracks and perimetral studs.	pc	2.00					
Mechanical fixing for top track <sup>(5)</sup>	pc	1.00					
Monoadhesive sealing tape	ml	2.00					
Fiberglass jointing tape <sup>(6)</sup>	ml	3.60					
NIDA Profesional jointing compound	kg	1.20					
NIDA Boardfix adhesive gypsum	kg	0.10					

<sup>5)</sup> Alternatively, apply the NIDA Max gypsum compound.

<sup>6)</sup> 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.



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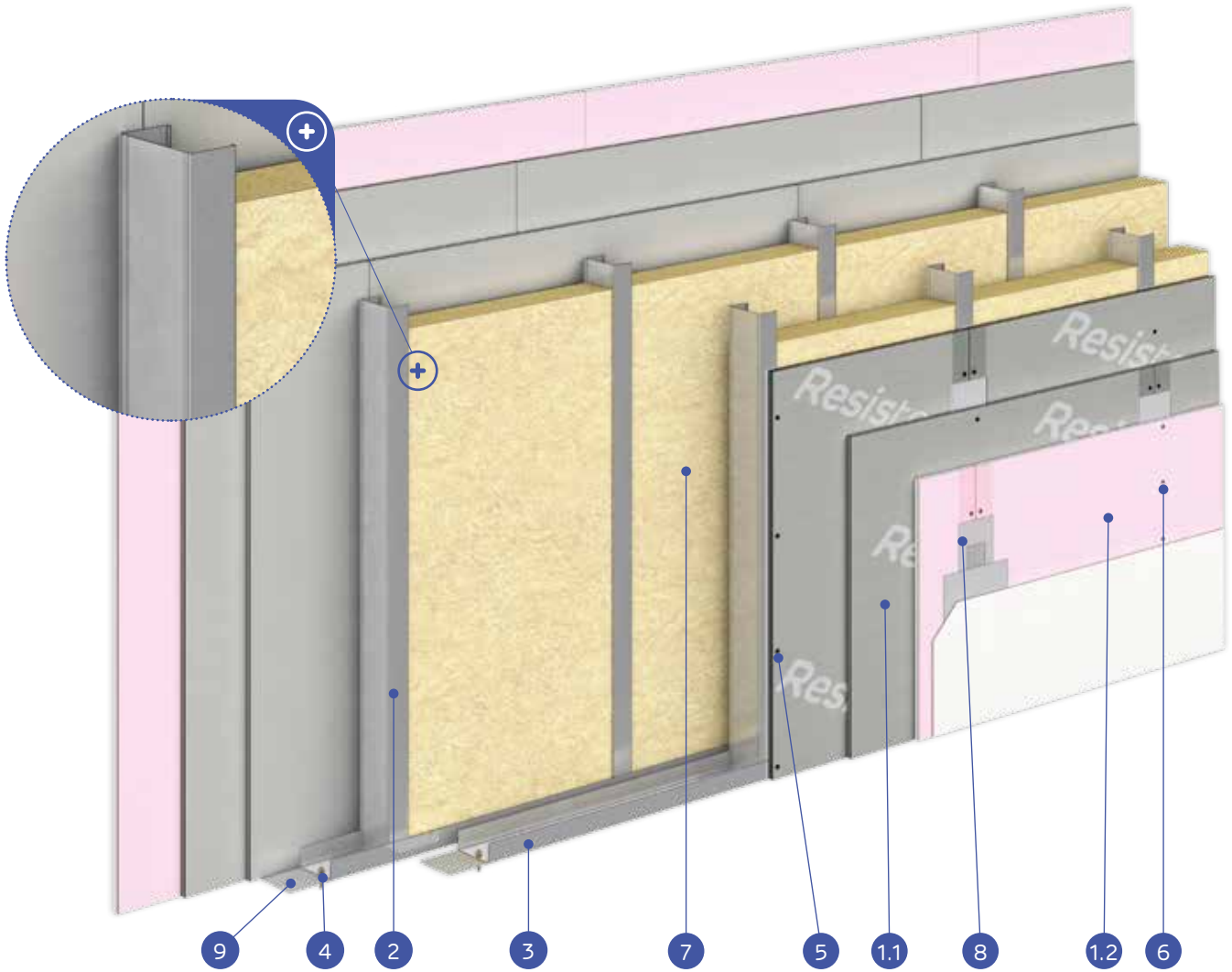
# NIDA System

 Fire resistance class:  
**EI180**

 Burglar resistance class:  
**RC3**

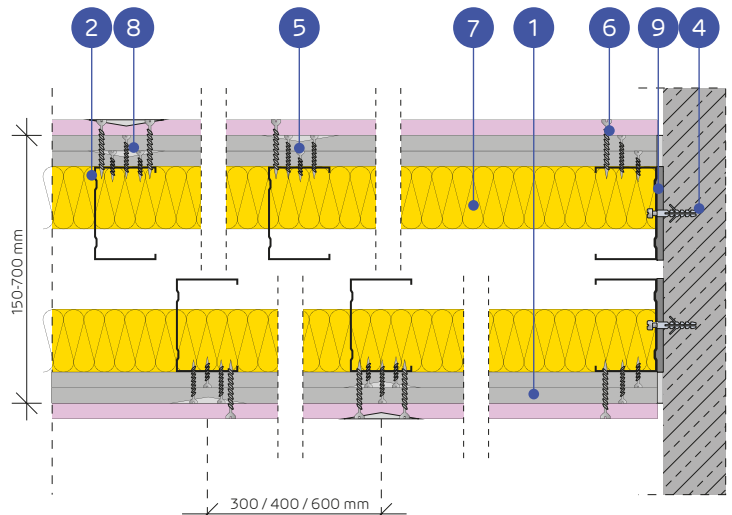
 Maximum encasement height:  
**7430 mm**

 Number of related document:  
**EN 1627:2011**



**MATERIALS:**

- 1.1 Resistex plasterboards
- 1.2 NIDA Flam plasterboard
- 2 NIDA CW50/CW75/CW100 profile
- 3 NIDA UW50/UW75/UW100 profile
- 4 NIDA expansion plug
- 5 NIDA 3.5 x 25 mm selftapping screws
- 6 NIDA 3.5 x 45 mm selftapping 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 OFFSET SINGLE AND DOUBLED NIDA CW50, CW75 AND CW100 STRUCTURE

TECHNICAL PARAMETERS							
NIDA System	System Thickness [mm]	NIDA Metal Structure	NIDA Plasterboard	Insulation Mineral Wool min. 42 kg/m <sup>3</sup>	System weight [Kg/m <sup>2</sup> ]	Maximum height with fire performance H.max [m]	Maximum height without fire performance H.max [m]
S185	185	2x CW50 @ 600 mm	2x2 Resistex 12.5 + 2x1 NIDA Flam 12.5	2x1 MW 50 mm	78.5	3.10	3.10
S185	185	2x CW50 @ 400 mm	2x2 Resistex 12.5 + 2x1 NIDA Flam 12.5	2x1 MW 50 mm	80	3.50	3.50
S185	185	2x CW50 @ 300 mm	2x2 Resistex 12.5 + 2x1 NIDA Flam 12.5	2x1 MW 50 mm	81.4	3.85	3.85
S185	185	2x CW50-H @ 600 mm	2x2 Resistex 12.5 + 2x1 NIDA Flam 12.5	2x1 MW 50 mm	81.1	3.85	3.85
S185	185	2x CW50-H @ 400 mm	2x2 Resistex 12.5 + 2x1 NIDA Flam 12.5	2x1 MW 50 mm	84	4.40	4.40
S185	185	2x CW50-H @ 300 mm	2x2 Resistex 12.5 + 2x1 NIDA Flam 12.5	2x1 MW 50 mm	87	4.80	4.80
S235	235	2x CW75 @ 600 mm	2x2 Resistex 12.5 + 2x1 NIDA Flam 12.5	2x1 MW 50 mm	81.7	4.05	4.05
S235	235	2x CW75 @ 400 mm	2x2 Resistex 12.5 + 2x1 NIDA Flam 12.5	2x1 MW 50 mm	83.7	4.65	4.65
S235	235	2x CW75 @ 300 mm	2x2 Resistex 12.5 + 2x1 NIDA Flam 12.5	2x1 MW 50 mm	85.6	5.10	5.10
S235	235	2x CW75-H @ 600 mm	2x2 Resistex 12.5 + 2x1 NIDA Flam 12.5	2x1 MW 50 mm	85.2	5.10	5.10
S235	235	2x CW75-H @ 400 mm	2x2 Resistex 12.5 + 2x1 NIDA Flam 12.5	2x1 MW 50 mm	89	5.85	5.85
S235	235	2x CW75-H @ 300 mm	2x2 Resistex 12.5 + 2x1 NIDA Flam 12.5	2x1 MW 50 mm	93	6.40	6.40
S285	285	2x CW100 @ 600 mm	2x2 Resistex 12.5 + 2x1 NIDA Flam 12.5	2x1 MW 50 mm	82.8	4.95	4.95
S285	285	2x CW100 @ 400 mm	2x2 Resistex 12.5 + 2x1 NIDA Flam 12.5	2x1 MW 50 mm	85.3	5.75	5.75
S285	285	2x CW100 @ 300 mm	2x2 Resistex 12.5 + 2x1 NIDA Flam 12.5	2x1 MW 50 mm	87.6	6.30	6.30
S285	285	2x CW100-H @ 600 mm	2x2 Resistex 12.5 + 2x1 NIDA Flam 12.5	2x1 MW 50 mm	87.1	6.30	6.30
S285	285	2x CW100-H @ 400 mm	2x2 Resistex 12.5 + 2x1 NIDA Flam 12.5	2x1 MW 50 mm	92	6.50	7.20
S285	285	2x CW100-H @ 300 mm	2x2 Resistex 12.5 + 2x1 NIDA Flam 12.5	2x1 MW 50 mm	96.9	6.50	7.43

<sup>1)</sup> The maximum wall height acc. to 01060/11/R12NK ITB technical opinion

<sup>2)</sup> The burglar resistance classes according to standard EN 1627:2011.

<sup>3)</sup> The fire resistance class according to standard EN 13501-2:2016-07.

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

The firestop and anti-burglar wall systems constructed according to the Siniat technology act as firestop partitions, with fire exposition from both their sides.

AMOUNT OF MATERIALS UTILISED PER 1M <sup>2</sup> OF ANTI-BURGLAR WALLS, ACCORDING TO NIDA SYSTEM							
Material name	Unit	Simple stud			Double stud		
		600 mm	400 mm	300 mm	600 mm	400 mm	300 mm
Resistex Plasterboard	m <sup>2</sup>				4.00		
NIDA Flam Plasterboard	m <sup>2</sup>				2.00		
Mineral Wool 50 mm	m <sup>2</sup>				0 / 2 / 4		
NIDA Metal stud CW50/75/100	ml	3.90	5.50	7.20	7.70	11.00	14.40
Inferior track - NIDA Metal UW50/75/100	[H ≤ 4 m]				0.65		
	[4 m < H ≤ 6 m]				0.40		
	[6 m < H ≤ 7.5 m]				0.30		
Superior track - NIDA Metal UW50/75/100	[H ≤ 4 m]				0.65		
	[4 m < H ≤ 6 m]				0.40		
	[6 m < H ≤ 7.5 m]				0.30		
NIDA Metal UW50 jointing profile for CW50 studs	[0 m < H ≤ 4 m]	0.00	0.00	0.00	0.00	0.00	0.00
	[4 m < H ≤ 7.5 m]	0.80	1.10	1.45	1.55	2.20	2.90
NIDA Metal UW75 jointing profile for CW75 studs	[0 m < H ≤ 4 m]	0.00	0.00	0.00	0.00	0.00	0.00
	[4 m < H ≤ 7.5 m]	1.15	1.65	2.15	2.30	3.30	4.30
NIDA Metal UW100 jointing profile for CW100 studs	[0 m < H ≤ 4 m]	0.00	0.00	0.00	0.00	0.00	0.00
	[4 m < H ≤ 7.5 m]	1.55	2.20	2.90	3.10	4.40	5.75
Selftapping screw 212xL1	pc	12.00	16.00	20.00	12.00	16.00	20.00
Selftapping screw 212xL2	pc	12.00	16.00	20.00	12.00	16.00	20.00
Selftapping screw 212xL3	pc	20.00	26.00	32.00	20.00	26.00	32.00
Self-drilling screw 4.2x13 FLATHEAD for double studs	pc	0.00	0.00	0.00	8.00	11.00	14.00
Self-drilling screw 4.2x13 FLATHEAD for jointing profiles	pc	9.00	11.00	15.00	17.00	25.00	32.00
Siniat 6x40 metal dowel for fixing inferior tracks and perimetral studs.	pc				2.00		
Mechanical fixing for top track <sup>(5)</sup>	pc				1.00		
Monoadhesive sealing tape	ml				2.00		
Fiberglass jointing tape <sup>(6)</sup>	ml				3.60		
NIDA Profesional jointing compound	kg				1.80		
NIDA Boardfix adhesive gypsum	kg				0.10		

<sup>5)</sup> Alternatively, apply the NIDA Max gypsum compound.

<sup>6)</sup> 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.



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# NIDA System



Fire  
resistance  
class:  
EI120



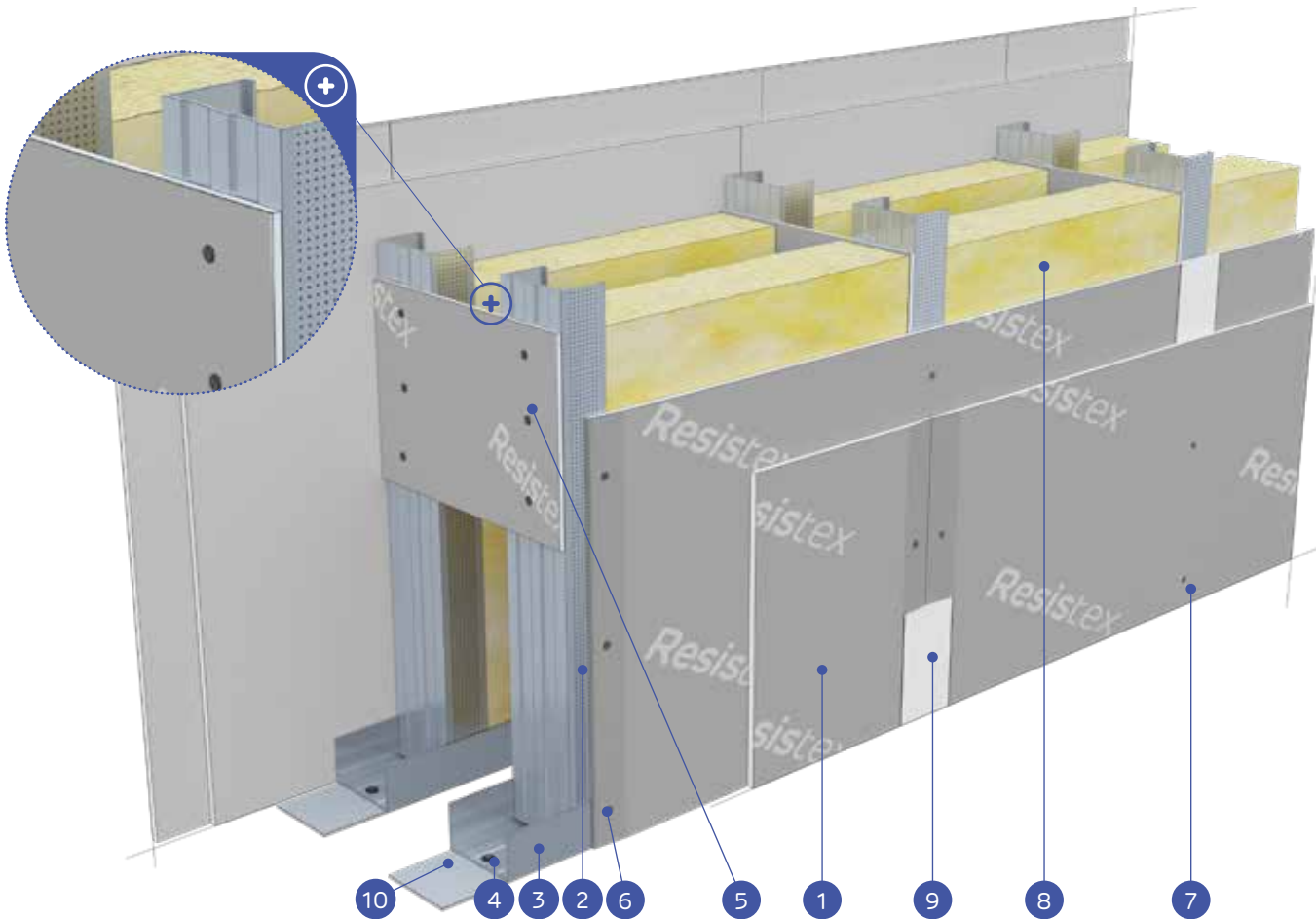
Burglar  
resistance  
class:  
RC3



Maximum  
encasement  
height:  
7470 mm

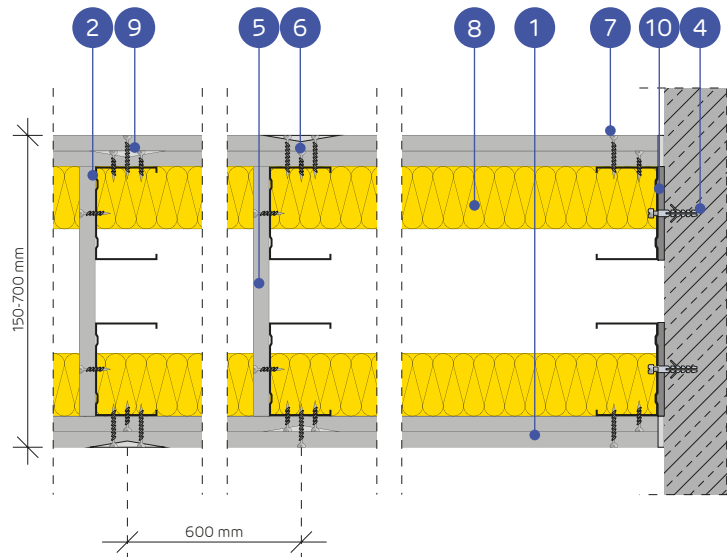


Number of  
related  
document:  
EN 1627:2011



## MATERIALS:

1. Resistex plasterboards
2. NIDA CW50/CW75/CW100 profile
3. NIDA UW50/UW75/UW100 profile
4. NIDA expansion plug
5. Lacing of Resistex board, min. height 300 mm, min. 2 pcs. per post (max. spacing 1500 mm)
6. NIDA 3.5 x 25 mm selftapping screws
7. NIDA 3.5 x 45 mm selftapping screws
8. Insulation material mineral wool
9. Joint between plasterboards filled with NIDA gypsum compound with NIDA reinforcement tape
10. 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							
NIDA System	System Thickness [mm]	NIDA Metal Structure	NIDA Plasterboard	Insulation Mineral Wool min. 30 kg/m <sup>3</sup>	System weight [Kg/m <sup>2</sup> ]	Maximum height with fire performance H.max [m]	Maximum height without fire performance H.max [m]
SL150	150 - 900	2x CW50 @ 600 mm	2x2 Resistex 12.5	2x1 MW 50 mm	59.2	4.48	4.48
SL150	150 - 900	2x CW50 @ 400 mm	2x2 Resistex 12.5	2x1 MW 50 mm	63	4.75	4.75
SL150	150 - 900	2x CW50 @ 300 mm	2x2 Resistex 12.5	2x1 MW 50 mm	66.7	4.99	4.99
SL150	150 - 900	2x CW50-H @ 600 mm	2x2 Resistex 12.5	2x1 MW 50 mm	61.7	4.75	4.75
SL150	150 - 900	2x CW50-H @ 400 mm	2x2 Resistex 12.5	2x1 MW 50 mm	67	5.00	5.00
SL150	150 - 900	2x CW50-H @ 300 mm	2x2 Resistex 12.5	2x1 MW 50 mm	72.4	5.25	5.25
SL200	200 - 900	2x CW75 @ 600 mm	2x2 Resistex 12.5	2x1 MW 50 mm	61.7	6.00	6.00
SL200	200 - 900	2x CW75 @ 400 mm	2x2 Resistex 12.5	2x1 MW 50 mm	65.9	6.25	6.25
SL200	200 - 900	2x CW75 @ 300 mm	2x2 Resistex 12.5	2x1 MW 50 mm	70.2	6.50	6.56
SL200	200 - 900	2x CW75-H @ 600 mm	2x2 Resistex 12.5	2x1 MW 50 mm	65.1	6.50	6.50
SL200	200 - 900	2x CW75-H @ 400 mm	2x2 Resistex 12.5	2x1 MW 50 mm	71.2	6.50	6.75
SL200	200 - 900	2x CW75-H @ 300 mm	2x2 Resistex 12.5	2x1 MW 50 mm	77.6	6.50	7.02
SL250	250 - 900	2x CW100 @ 600 mm	2x2 Resistex 12.5	2x1 MW 50 mm	62.7	6.50	6.50
SL250	250 - 900	2x CW100 @ 400 mm	2x2 Resistex 12.5	2x1 MW 50 mm	67.5	6.50	7.00
SL250	250 - 900	2x CW100 @ 300 mm	2x2 Resistex 12.5	2x1 MW 50 mm	72.2	6.50	7.28
SL250	250 - 900	2x CW100-H @ 600 mm	2x2 Resistex 12.5	2x1 MW 50 mm	67.1	6.50	7.00
SL250	250 - 900	2x CW100-H @ 400 mm	2x2 Resistex 12.5	2x1 MW 50 mm	74.2	6.50	7.25
SL250	250 - 900	2x CW100-H @ 300 mm	2x2 Resistex 12.5	2x1 MW 50 mm	81.5	6.50	7.47

<sup>1)</sup> The maximum wall height acc. to 01060/11/R12NK ITB technical opinion

<sup>2)</sup> The burglar resistance classes according to standard EN 1627:2011.

<sup>3)</sup> The fire resistance class according to standard EN 13501-2:2016-07.

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

The firestop and anti-burglar wall systems constructed according to the Siniat technology act as firestop partitions, with fire exposition from both their sides.

AMOUNT OF MATERIALS UTILISED PER 1M <sup>2</sup> OF ANTI-BURGLAR WALLS, ACCORDING TO NIDA SYSTEM								
Material name	Unit	Simple stud			Double stud			
		600 mm	400 mm	300 mm	600 mm	400 mm	300 mm	
Resistex Plasterboard	m <sup>2</sup>	4.00						
Plasterboard strip to connect CW studs	m <sup>2</sup>	0.40	0.60	0.80	0.40	0.60	0.80	
Mineral Wool 50 mm	m <sup>2</sup>	0 / 2 / 4						
NIDA Metal stud CW50/75/100	ml	3.70	5.40	7.00	7.40	10.70	14.00	
Inferior track - NIDA Metal UW50/75/100	[H ≤ 4 m]	0.65						
	[4 m < H ≤ 6 m]	0.40						
	[6 m < H ≤ 7.5 m]	0.30						
Superior track - NIDA Metal UW50/75/100	[H ≤ 4 m]	0.65						
	[4 m < H ≤ 6 m]	0.40						
	[6 m < H ≤ 7.5 m]	0.30						
NIDA Metal UW50 jointing profile for CW50 studs	[0 m < H ≤ 4 m]	0.00	0.00	0.00	0.00	0.00	0.00	
	[4 m < H ≤ 7.5 m]	0.75	1.10	1.40	1.50	2.15	2.80	
NIDA Metal UW75 jointing profile for CW75 studs	[0 m < H ≤ 4 m]	0.00	0.00	0.00	0.00	0.00	0.00	
	[4 m < H ≤ 7.5 m]	1.10	1.60	2.10	2.20	3.20	4.20	
NIDA Metal UW100 jointing profile for CW100 studs	[0 m < H ≤ 4 m]	0.00	0.00	0.00	0.00	0.00	0.00	
	[4 m < H ≤ 7.5 m]	1.50	2.15	2.80	2.95	4.30	4.80	
Selftapping screw 212xL1	pc	12.00	16.00	20.00	12.00	16.00	20.00	
Selftapping screw 212xL2	pc	20.00	26.00	32.00	20.00	26.00	32.00	
Selftapping screw 212xL1 to fix strips to studs	pc	14.00	20.00	26.00	14.00	20.00	26.00	
Self-drilling screw 4.2x13 FLATHEAD for double studs	pc	0.00	0.00	0.00	8.00	11.00	14.00	
Self-drilling screw 4.2x13 FLATHEAD for jointing profiles	pc	9.00	11.00	15.00	17.00	25.00	32.00	
Siniat 6x40 metal dowel for fixing inferior tracks and perimetral studs.	pc	2.00						
Mechanical fixing for top track <sup>(5)</sup>	pc	1.00						
Monoadhesive sealing tape	ml	2.00						
Fiberglass jointing tape <sup>(6)</sup>	ml	3.60						
NIDA Profesional jointing compound	kg	1.20						
NIDA Boardfix adhesive gypsum	kg	0.10						

<sup>5)</sup> Alternatively, apply the NIDA Max gypsum compound.

<sup>6)</sup> 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.



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## NIDA System



Fire  
resistance  
class:  
EI180



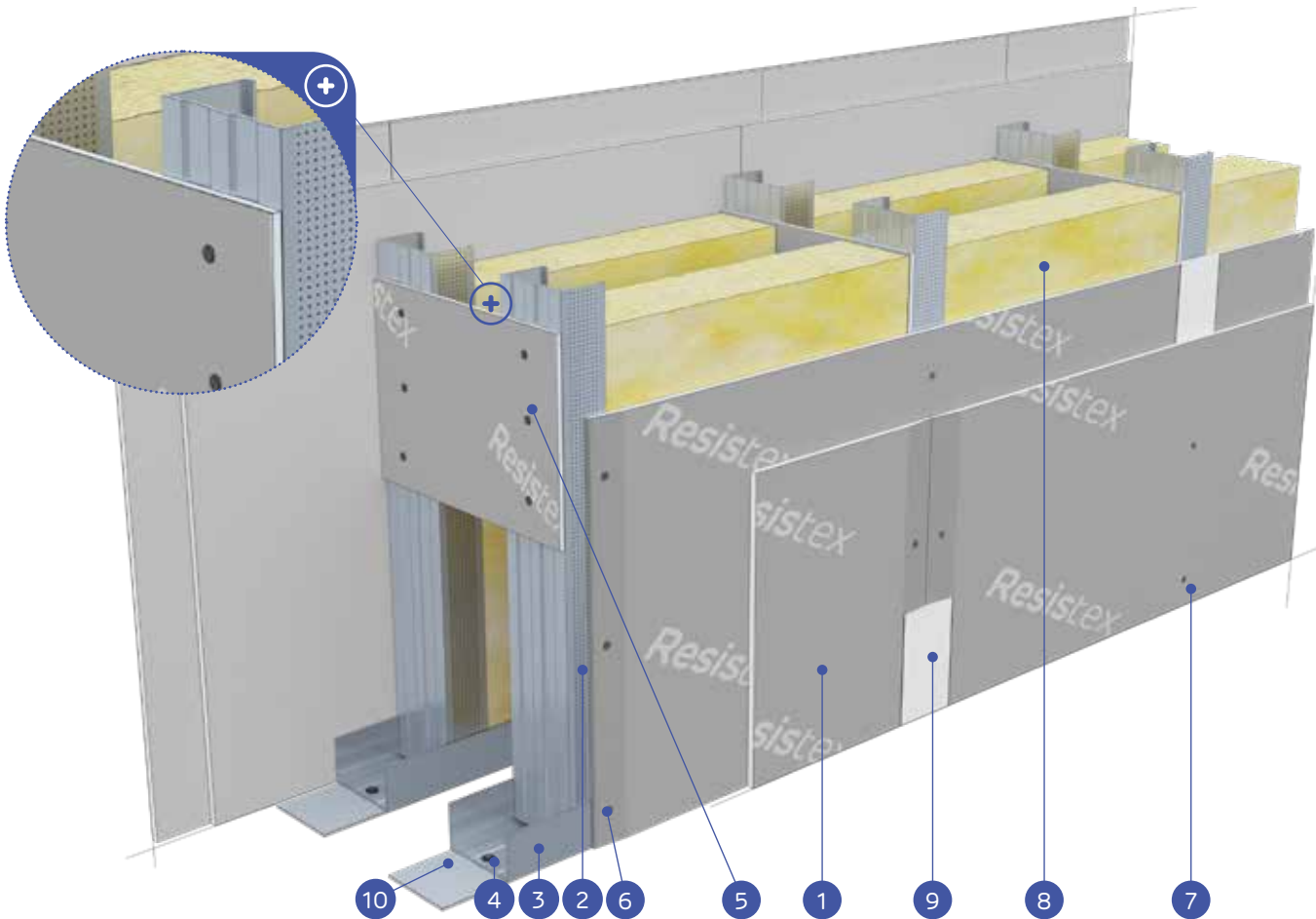
Burglar  
resistance  
class:  
RC3



Maximum  
encasement  
height:  
7470 mm

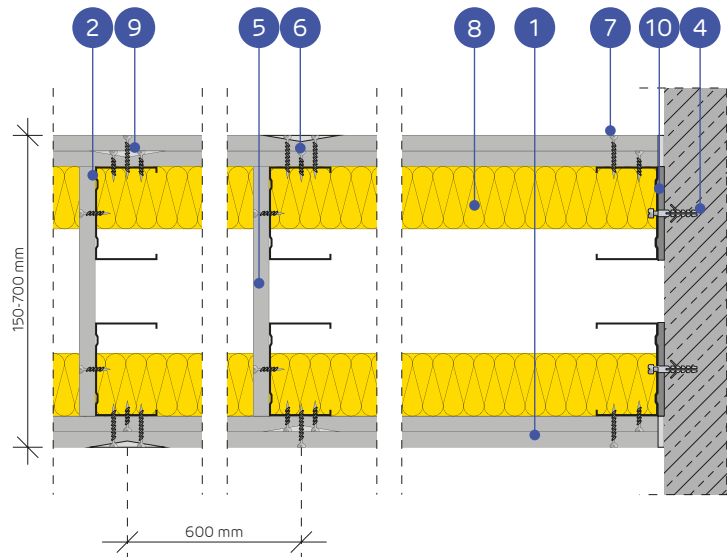


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document:  
EN 1627:2011



## MATERIALS:

1. Resistex plasterboards
2. NIDA CW50/CW75/CW100 profile
3. NIDA UW50/UW75/UW100 profile
4. NIDA expansion plug
5. Lacing of Resistex board, min. height 300 mm, min. 2 pcs. per post (max. spacing 1500 mm)
6. NIDA 3.5 x 25 mm selftapping screws
7. NIDA 3.5 x 45 mm selftapping screws
8. Insulation material mineral wool
9. Joint between plasterboards filled with NIDA gypsum compound with NIDA reinforcement tape
10. 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							
NIDA System	System Thickness [mm]	NIDA Metal Structure	NIDA Plasterboard	Insulation Mineral Wool min. 30 kg/m <sup>3</sup>	System weight [Kg/m <sup>2</sup> ]	Maximum height with fire performance H.max [m]	Maximum height without fire performance H.max [m]
SL150	160 - 900	2x CW50 @ 600 mm	2x2 Resistex 15	2 x 1 MW 50 mm	68.1	4.50	4.50
SL150	160 - 900	2x CW50 @ 400 mm	2x2 Resistex 15	2 x 1 MW 50 mm	72.3	4.75	4.75
SL150	160 - 900	2x CW50 @ 300 mm	2x2 Resistex 15	2 x 1 MW 50 mm	76.5	4.99	4.99
SL150	160 - 900	2x CW50-H @ 600 mm	2x2 Resistex 15	2 x 1 MW 50 mm	70.6	4.75	4.75
SL150	160 - 900	2x CW50-H @ 400 mm	2x2 Resistex 15	2 x 1 MW 50 mm	76.4	5.00	5.00
SL150	160 - 900	2x CW50-H @ 300 mm	2x2 Resistex 15	2 x 1 MW 50 mm	82.2	5.25	5.25
SL200	210 - 900	2x CW75 @ 600 mm	2x2 Resistex 15	2 x 1 MW 75 mm	70.6	6.00	6.00
SL200	210 - 900	2x CW75 @ 400 mm	2x2 Resistex 15	2 x 1 MW 75 mm	75.3	6.25	6.25
SL200	210 - 900	2x CW75 @ 300 mm	2x2 Resistex 15	2 x 1 MW 75 mm	79.9	6.50	6.56
SL200	210 - 900	2x CW75-H @ 600 mm	2x2 Resistex 15	2 x 1 MW 75 mm	74	6.50	6.50
SL200	210 - 900	2x CW75-H @ 400 mm	2x2 Resistex 15	2 x 1 MW 75 mm	80.6	6.50	6.75
SL200	210 - 900	2x CW75-H @ 300 mm	2x2 Resistex 15	2 x 1 MW 75 mm	87.3	6.50	7.02
SL250	260 - 900	2x CW100 @ 600 mm	2x2 Resistex 15	2 x 1 MW 75 mm	71.7	6.50	6.50
SL250	260 - 900	2x CW100 @ 400 mm	2x2 Resistex 15	2 x 1 MW 75 mm	76.9	6.50	7.00
SL250	260 - 900	2x CW100 @ 300 mm	2x2 Resistex 15	2 x 1 MW 75 mm	82	6.50	7.28
SL250	260 - 900	2x CW100-H @ 600 mm	2x2 Resistex 15	2 x 1 MW 75 mm	76	6.50	7.00
SL250	260 - 900	2x CW100-H @ 400 mm	2x2 Resistex 15	2 x 1 MW 75 mm	83.6	6.50	7.25
SL250	260 - 900	2x CW100-H @ 300 mm	2x2 Resistex 15	2 x 1 MW 75 mm	91.2	6.50	7.47

<sup>1)</sup> The maximum wall height acc. to 01060/11/R12NK ITB technical opinion

<sup>2)</sup> The burglar resistance classes according to standard EN 1627:2011.

<sup>3)</sup> The fire resistance class according to standard EN 13501-2:2016-07.

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

The firestop and anti-burglar wall systems constructed according to the Siniat technology act as firestop partitions, with fire exposition from both their sides.

AMOUNT OF MATERIALS UTILISED PER 1M <sup>2</sup> OF ANTI-BURGLAR WALLS, ACCORDING TO NIDA SYSTEM							
Material name	Unit	Simple stud			Double stud		
		600 mm	400 mm	300 mm	600 mm	400 mm	300 mm
Resistex Plasterboard	m <sup>2</sup>	4.00					
Plasterboard strip to connect CW studs	m <sup>2</sup>	0.40	0.60	0.80	0.40	0.60	0.80
Mineral Wool 50 mm	m <sup>2</sup>	0 / 2 / 4					
NIDA Metal stud CW50/75/100	ml	3.70	5.40	7.00	7.40	10.70	14.00
Inferior track - NIDA Metal UW50/75/100	[H ≤ 4 m]	ml					
	[4 m < H ≤ 6 m]	ml					
	[6 m < H ≤ 7.5 m]	ml					
Superior track - NIDA Metal UW50/75/100	[H ≤ 4 m]	ml					
	[4 m < H ≤ 6 m]	ml					
	[6 m < H ≤ 7.5 m]	ml					
NIDA Metal UW50 jointing profile for CW50 studs	[0 m < H ≤ 4 m]	ml	0.00	0.00	0.00	0.00	0.00
	[4 m < H ≤ 7.5 m]	ml	0.75	1.10	1.40	1.50	2.15
NIDA Metal UW75 jointing profile for CW75 studs	[0 m < H ≤ 4 m]	ml	0.00	0.00	0.00	0.00	0.00
	[4 m < H ≤ 7.5 m]	ml	1.10	1.60	2.10	2.20	3.20
NIDA Metal UW100 jointing profile for CW100 studs	[0 m < H ≤ 4 m]	ml	0.00	0.00	0.00	0.00	0.00
	[4 m < H ≤ 7.5 m]	ml	1.50	2.15	2.80	2.95	4.30
Selftapping screw 212xL1	pc	12.00	16.00	20.00	12.00	16.00	20.00
Selftapping screw 212xL2	pc	20.00	26.00	32.00	20.00	26.00	32.00
Selftapping screw 212xL1 to fix strips to studs	pc	14.00	20.00	26.00	14.00	20.00	26.00
Self-drilling screw 4.2x13 FLATHEAD for double studs	pc	0.00	0.00	0.00	8.00	11.00	14.00
Self-drilling screw 4.2x13 FLATHEAD for jointing profiles	pc	9.00	11.00	15.00	17.00	25.00	32.00
Siniat 6x40 metal dowel for fixing inferior tracks and perimetral studs.	pc	2.00					
Mechanical fixing for top track <sup>(5)</sup>	pc	1.00					
Monoadhesive sealing tape	ml	2.00					
Fiberglass jointing tape <sup>(6)</sup>	ml	3.60					
NIDA Profesional jointing compound	kg	1.20					
NIDA Boardfix adhesive gypsum	kg	0.10					

<sup>5)</sup> Alternatively, apply the NIDA Max gypsum compound.

<sup>6)</sup> 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.



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## NIDA System



Fire  
resistance  
class:  
EI180



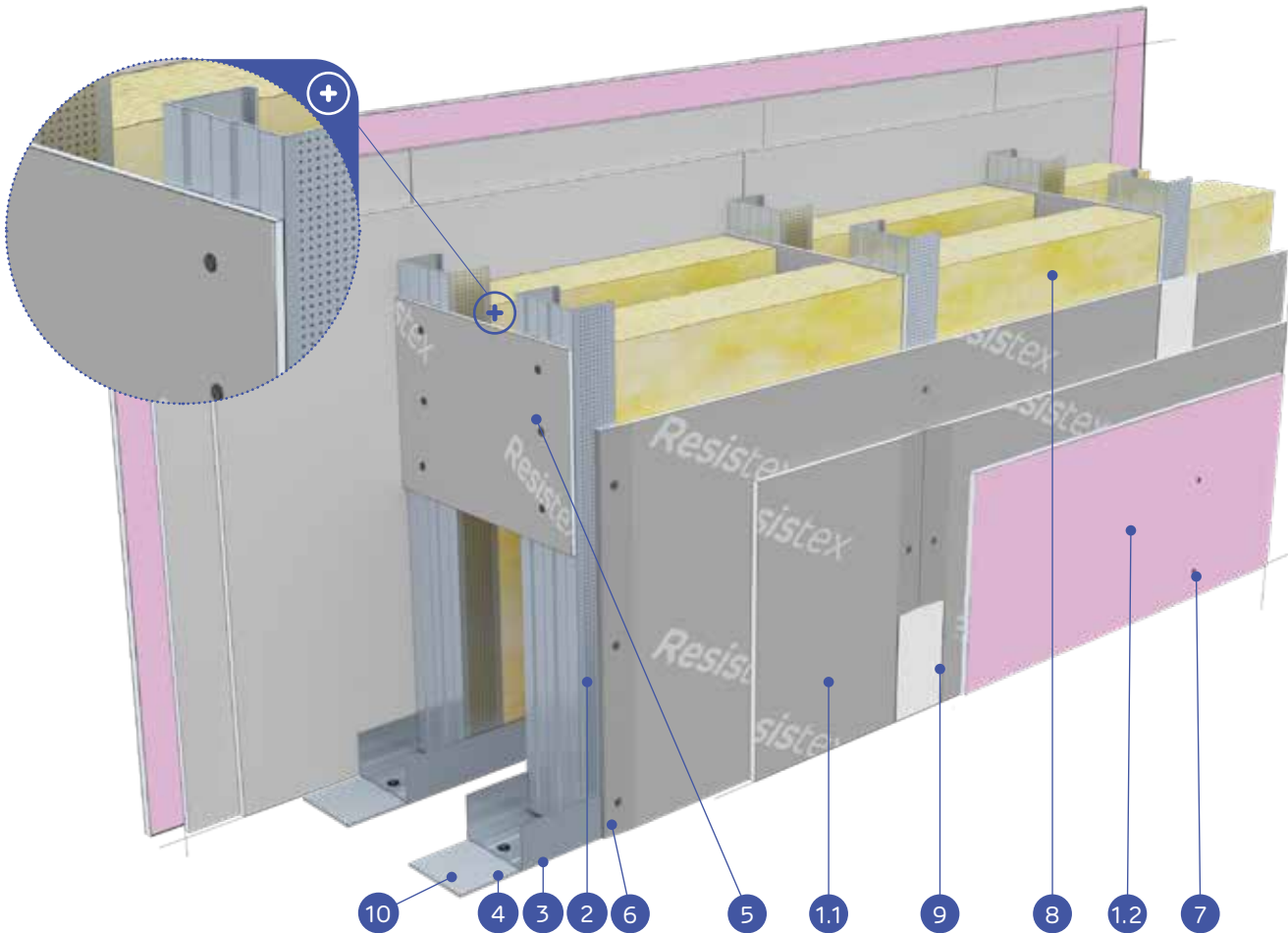
Burglar  
resistance  
class:  
RC3



Maximum  
encasement  
height:  
7470 mm

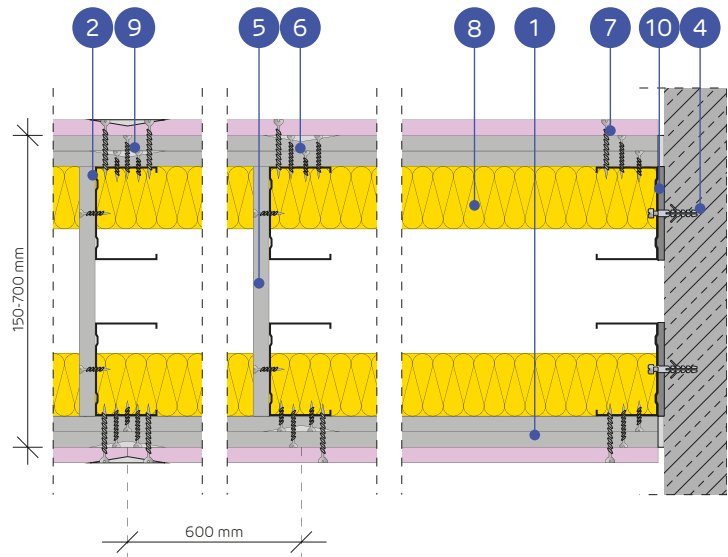


Number of  
related  
document:  
EN 1627:2011



## MATERIALS:

- 1.1 Resistex plasterboards
- 1.2 NIDA Flam plasterboard
2. NIDA CW50/CW75/CW100 profile
3. NIDA UW50/UW75/UW100 profile
4. NIDA expansion plug
5. Lacing of Resistex board, min. height 300 mm, min. 2 pcs. per post (max. spacing 1500 mm)
6. NIDA 3.5 x 25 mm selftapping screws
7. NIDA 3.5 x 45 mm selftapping screws
8. Insulation material mineral wool
9. Joint between plasterboards filled with NIDA gypsum compound with NIDA reinforcement tape
10. 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 STRUCTURE C100 (WALLS FOR INSTALLATIONS)

TECHNICAL PARAMETERS							
NIDA System	System Thickness [mm]	NIDA Metal Structure	NIDA Plasterboard	Insulation Mineral Wool min. 42 kg/m <sup>3</sup>	System weight [Kg/m <sup>2</sup> ]	Maximum height with fire performance H.max [m]	Maximum height without fire performance H.max [m]
SL175	175 - 900	2x CW50 @ 600 mm	2x2 Resistex 12,5 + 2x1 NIDA Flam 12,5	2x1 MW 50 mm	83.7	4.50	4.50
SL175	175 - 900	2x CW50 @ 400 mm	2x2 Resistex 12,5 + 2x1 NIDA Flam 12,5	2x1 MW 50 mm	87.5	4.75	4.75
SL175	175 - 900	2x CW50 @ 300 mm	2x2 Resistex 12,5 + 2x1 NIDA Flam 12,5	2x1 MW 50 mm	91.2	4.99	4.99
SL175	175 - 900	2x CW50-H @ 600 mm	2x2 Resistex 12,5 + 2x1 NIDA Flam 12,5	2x1 MW 50 mm	86.2	4.75	4.75
SL175	175 - 900	2x CW50-H @ 400 mm	2x2 Resistex 12,5 + 2x1 NIDA Flam 12,5	2x1 MW 50 mm	91.5	5.00	5.00
SL175	175 - 900	2x CW50-H @ 300 mm	2x2 Resistex 12,5 + 2x1 NIDA Flam 12,5	2x1 MW 50 mm	96.9	5.25	5.25
SL225	225 - 900	2x CW75 @ 600 mm	2x2 Resistex 12,5 + 2x1 NIDA Flam 12,5	2x1 MW 50 mm	89.6	6.00	6.00
SL225	225 - 900	2x CW75 @ 400 mm	2x2 Resistex 12,5 + 2x1 NIDA Flam 12,5	2x1 MW 50 mm	91.2	6.25	6.25
SL225	225 - 900	2x CW75 @ 300 mm	2x2 Resistex 12,5 + 2x1 NIDA Flam 12,5	2x1 MW 50 mm	95.4	6.50	6.56
SL225	225 - 900	2x CW75-H @ 600 mm	2x2 Resistex 12,5 + 2x1 NIDA Flam 12,5	2x1 MW 50 mm	90.3	6.50	6.50
SL225	225 - 900	2x CW75-H @ 400 mm	2x2 Resistex 12,5 + 2x1 NIDA Flam 12,5	2x1 MW 50 mm	96.5	6.50	6.75
SL225	225 - 900	2x CW75-H @ 300 mm	2x2 Resistex 12,5 + 2x1 NIDA Flam 12,5	2x1 MW 50 mm	102.8	6.50	7.02
SL275	275 - 900	2x CW100 @ 600 mm	2x2 Resistex 12,5 + 2x1 NIDA Flam 12,5	2x1 MW 50 mm	88	6.50	6.50
SL275	275 - 900	2x CW100 @ 400 mm	2x2 Resistex 12,5 + 2x1 NIDA Flam 12,5	2x1 MW 50 mm	92.8	6.50	7.00
SL275	275 - 900	2x CW100 @ 300 mm	2x2 Resistex 12,5 + 2x1 NIDA Flam 12,5	2x1 MW 50 mm	97.5	6.50	7.28
SL275	275 - 900	2x CW100-H @ 600 mm	2x2 Resistex 12,5 + 2x1 NIDA Flam 12,5	2x1 MW 50 mm	92.3	6.50	7.00
SL275	275 - 900	2x CW100-H @ 400 mm	2x2 Resistex 12,5 + 2x1 NIDA Flam 12,5	2x1 MW 50 mm	99.5	6.50	7.25
SL275	275 - 900	2x CW100-H @ 300 mm	2x2 Resistex 12,5 + 2x1 NIDA Flam 12,5	2x1 MW 50 mm	106.7	6.50	7.47

<sup>1)</sup> The maximum wall height acc. to 01060/11/R12NK ITB technical opinion / <sup>2)</sup> The burglar resistance classes according to standard EN 1627:2011. / <sup>3)</sup> The fire resistance class according to standard EN 13501-2:2016-07. / <sup>4)</sup> The Resistex board type DFH2IR can be used in increased relative humidity environments up to 85% (up to 10 hour per day), e.g. bathrooms, kitchens, etc. / The firestop and anti-burglar wall systems constructed according to the Siniat technology act as firestop partitions, with fire exposition from both their sides.

AMOUNT OF MATERIALS UTILISED PER 1M <sup>2</sup> OF ANTI-BURGLAR WALLS, ACCORDING TO NIDA SYSTEM								
Material name	Unit	Simple stud			Double stud			
		600 mm	400 mm	300 mm	600 mm	400 mm	300 mm	
Resistex Plasterboard	m <sup>2</sup>	4.00						
NIDA Flam Plasterboard	m <sup>2</sup>	2.00						
Plasterboard strip to connect CW studs	m <sup>2</sup>	0.40	0.60	0.80	0.40	0.60	0.80	
Mineral Wool 50 mm	m <sup>2</sup>	0 / 2 / 4						
NIDA Metal stud CW50/75/100	ml	3.70	5.40	7.00	7.40	10.70	14.00	
Inferior track - NIDA Metal UW50/75/100	[H ≤ 4 m]	ml						0.65
	[4 m < H ≤ 6 m]	ml						0.40
	[6 m < H ≤ 7.5 m]	ml						0.30
Superior track - NIDA Metal UW50/75/100	[H ≤ 4 m]	ml						0.65
	[4 m < H ≤ 6 m]	ml						0.40
	[6 m < H ≤ 7.5 m]	ml						0.30
NIDA Metal UW50 jointing profile for CW50 studs	[0 m < H ≤ 4 m]	ml	0.00	0.00	0.00	0.00	0.00	
	[4 m < H ≤ 7.5 m]	ml	0.75	1.10	1.40	1.50	2.15	2.80
NIDA Metal UW75 jointing profile for CW75 studs	[0 m < H ≤ 4 m]	ml	0.00	0.00	0.00	0.00	0.00	
	[4 m < H ≤ 7.5 m]	ml	1.10	1.60	2.10	2.20	3.20	4.20
NIDA Metal UW100 jointing profile for CW100 studs	[0 m < H ≤ 4 m]	ml	0.00	0.00	0.00	0.00	0.00	
	[4 m < H ≤ 7.5 m]	ml	1.50	2.15	2.80	2.95	4.30	4.80
Selftapping screw 212xL1	buc	12.00	16.00	20.00	12.00	16.00	20.00	
Selftapping screw 212xL2	buc	12.00	16.00	20.00	12.00	16.00	20.00	
Selftapping screw 212xL3	buc	20.00	26.00	32.00	20.00	26.00	32.00	
Selftapping screw 212xL1 to fix strips to studs	buc	14.00	20.00	26.00	14.00	20.00	26.00	
Self-drilling screw 4.2x13 FLATHEAD for double studs	buc	0.00	0.00	0.00	8.00	11.00	14.00	
Self-drilling screw 4.2x13 FLATHEAD for jointing profiles	buc	9.00	11.00	15.00	17.00	25.00	32.00	
Siniat 6x40 metal dowel for fixing inferior tracks and perimetral studs.	buc	2.00						
Mechanical fixing for top track <sup>(5)</sup>	buc	1.00						
Monoadhesive sealing tape	ml	2.00						
Fiberglass jointing tape <sup>(6)</sup>	ml	3.60						
NIDA Professional jointing compound	kg	1.80						
NIDA Boardfix adhesive gypsum	kg	0.10						

<sup>5)</sup> Alternatively, apply the NIDA Max gypsum compound. / <sup>6)</sup> 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.



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# NIDA System



Fire  
resistance  
class:  
EI120



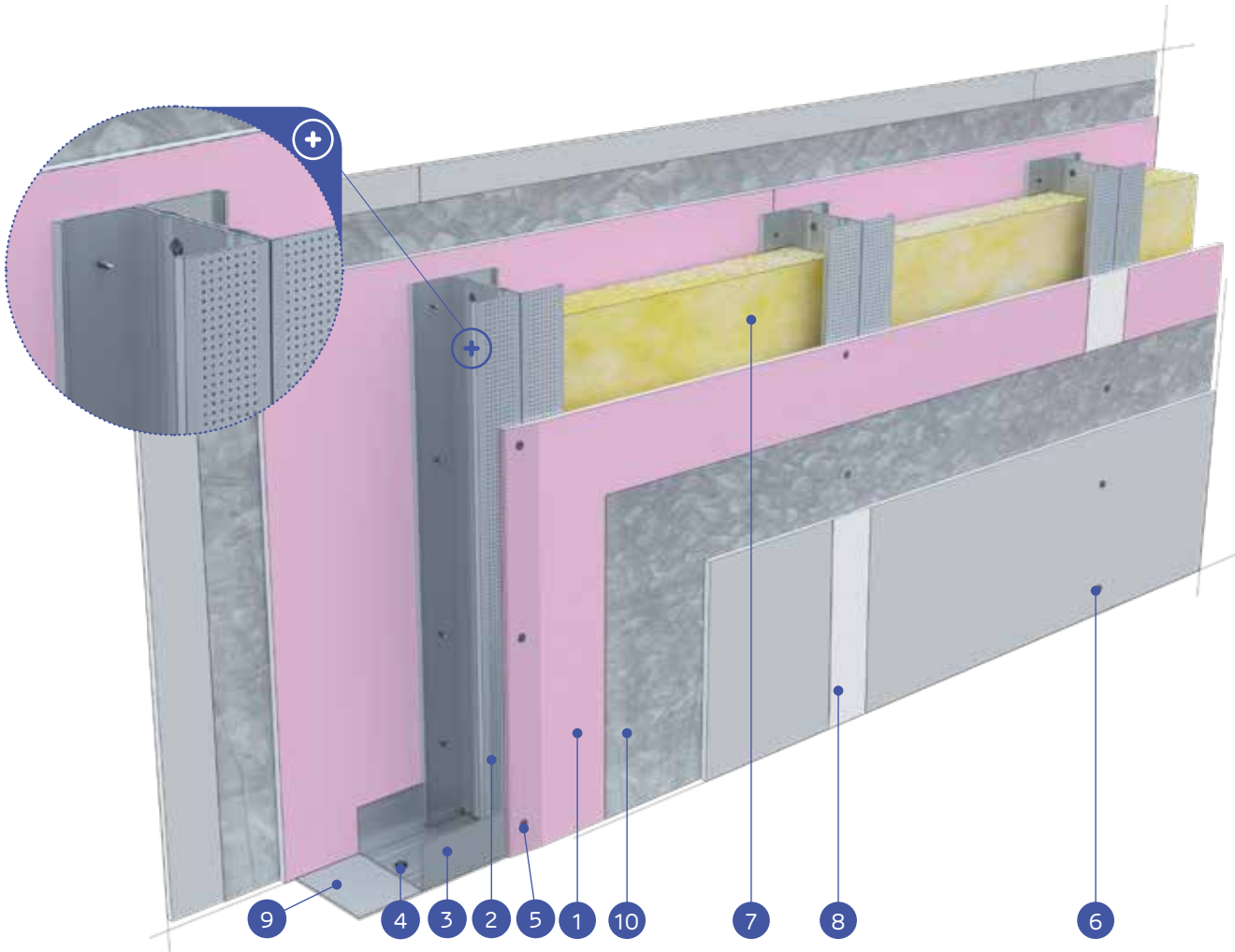
Burglar  
resistance  
class:  
RC4



Maximum  
encasement  
height:  
6500 mm

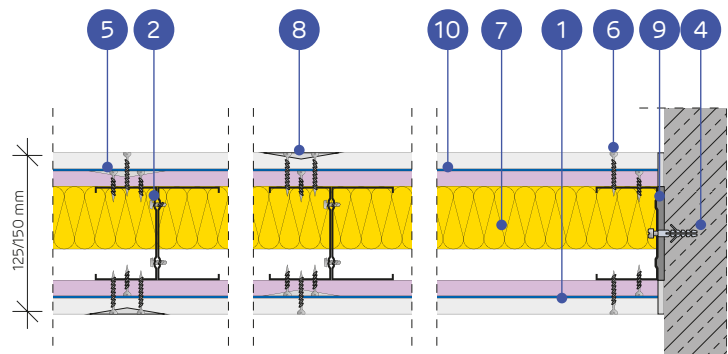


Number of  
related  
document:  
EN 1627:2011



## MATERIALS:

1. NIDA Flam plasterboard (internal layer) + LaDura plasterboard (external layer)
2. NIDA CW75/CW100 profile (doubled)
3. NIDA UW75/UW100 profile
4. NIDA expansion plug
5. NIDA 3.5 x 25 mm selftapping screws
6. LaDura 4.2 x 38 mm selftapping 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 70/95 mm
10. Galvanised steel sheet thickness 0.5 mm (applied on both sides)



## ANTI-BURGLAR PARTITION WALL SYSTEM BASED ON SINGLE AND DOUBLED NIDA C75 STRUCTURE

TECHNICAL PARAMETERS							
NIDA System	System Thickness [mm]	NIDA Metal Structure	NIDA Plasterboard	Insulation Mineral Wool	System weight [Kg/m <sup>2</sup> ]	Maximum height with fire performance H.max [m]	Maximum height without fire performance H.max [m]
D126	126	CW75-H @ 600 mm	2x1 LaDura 12.5 + 2x1 Steel Sheet 0.5 2x1 NIDA Flam 12.5	1 x MW 75mm	66.8	6.50	6.50
D126	126	CW75-H @ 400 mm	2x1 LaDura 12.5 + 2x1 Steel Sheet 0.5 2x1 NIDA Flam 12.5	1 x MW 75mm	68.7	6.50	6.50
D126	126	CW75-H @ 300 mm	2x1 LaDura 12.5 + 2x1 Steel Sheet 0.5 2x1 NIDA Flam 12.5	1 x MW 75mm	70.7	6.50	6.50
D151	151	CW100-H @ 600 mm	2x1 LaDura 12.5 + 2x1 Steel Sheet 0.5 2x1 NIDA Flam 12.5	1 x MW 100mm	67.8	6.50	6.50
D151	151	CW100-H @ 400 mm	2x1 LaDura 12.5 + 2x1 Steel Sheet 0.5 2x1 NIDA Flam 12.5	1 x MW 100mm	70.2	6.50	6.50
D151	151	CW100-H @ 300 mm	2x1 LaDura 12.5 + 2x1 Steel Sheet 0.5 2x1 NIDA Flam 12.5	1 x MW 100mm	72.6	6.50	6.50

<sup>1)</sup> The maximum wall height acc. to 01060/11/R12NK ITB technical opinion

<sup>2)</sup> The burglar resistance classes according to standard EN 1627:2011.

<sup>3)</sup> The fire resistance class according to standard EN 13501-2:2016-07.

<sup>4)</sup> The Resistex board type DFH2IR can be used in increased relative humidity environments up to 85% (up to 10 hour per day), e.g. bathrooms, kitchens, etc. The firestop and anti-burglar wall systems constructed according to the Siniat technology act as firestop partitions, with fire exposition from both their sides.

AMOUNT OF MATERIALS UTILISED PER 1M <sup>2</sup> OF ANTI-BURGLAR WALLS, ACCORDING TO NIDA SYSTEM				
Material name	Unit	Double stud		
		600 mm	400 mm	300 mm
LaDura Plasterboard	m <sup>2</sup>		2.00	
NIDA Flam Plasterboard	m <sup>2</sup>		2.00	
Steel sheet DX51D Z100 min. 0.5 mm thick - EN 14195	m <sup>2</sup>		2.20	
Mineral Wool 50 mm	m <sup>2</sup>		0 / 2	
NIDA Metal stud CW50/75/100	ml	3.70	5.40	7.00
Inferior track - NIDA Metal UW50/75/100	ml		0.35	
		[H ≤ 4 m]		
		[4 m < H ≤ 6.5 m]	0.20	
Superior track - NIDA Metal UW50/75/100	ml		0.35	
		[H ≤ 4 m]		
		[4 m < H ≤ 6.5 m]	0.20	
NIDA Metal UW75 jointing profile for CW75 studs	ml	0.00	0.00	0.00
		[0 m < H ≤ 4 m]		
		[4 m < H ≤ 6.5 m]	1.10	2.10
NIDA Metal UW100 jointing profile for CW100 studs	ml	0.00	0.00	0.00
		[0 m < H ≤ 4 m]		
		[4 m < H ≤ 6.5 m]	1.50	2.80
Selftapping LaDura 3.9xL1	pc	12.00	16.00	20.00
Selfdrilling LaDura 3.9xL1 (fix the steel sheet)	pc	12.00	16.00	20.00
Selfdrilling LaDura 3.9xL2	pc	20.00	26.00	32.00
Self-drilling screw 4.2x13 FLATHEAD for double studs	pc	4.00	6.00	8.00
Self-drilling screw 4.2x13 FLATHEAD for jointing profiles	pc	9.00	13.00	17.00
Siniat 6x40 metal dowel for fixing inferior tracks and perimetral studs.	pc		1.00	
Mechanical fixing for top track <sup>(5)</sup>	pc		0.50	
Monoadhesive sealing tape	ml		1.00	
Fiberglass jointing tape <sup>(6)</sup>	ml		3.60	
NIDA Profesional jointing compound	kg		1.20	
NIDA Boardfix adhesive gypsum	kg		0.10	

<sup>5)</sup> Alternatively, apply the NIDA Max gypsum compound.

<sup>6)</sup> 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.



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# NIDA System



Fire  
resistance  
class:  
**EI180**



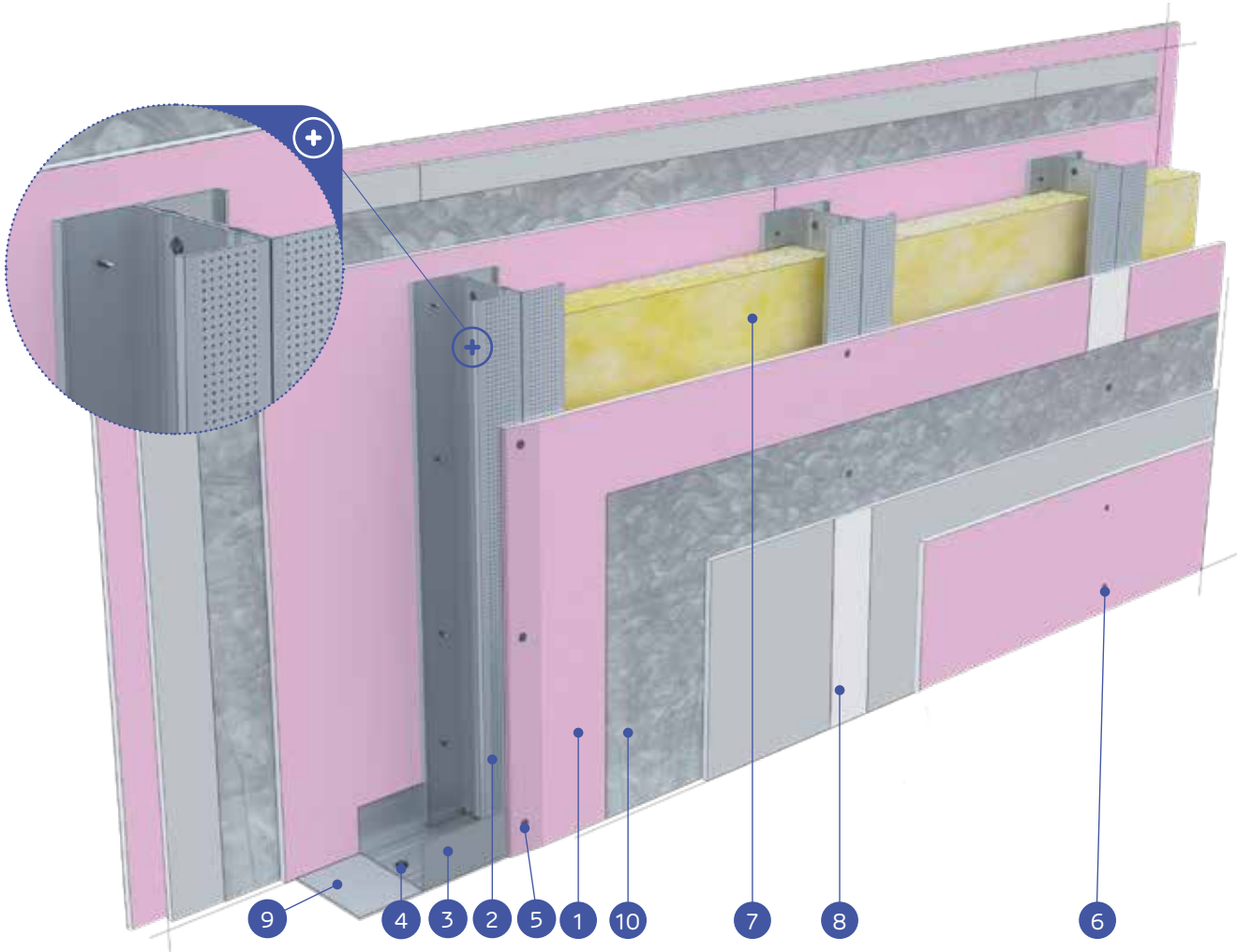
Burglar  
resistance  
class:  
**RC4**



Maximum  
encasement  
height:  
**6500 mm**

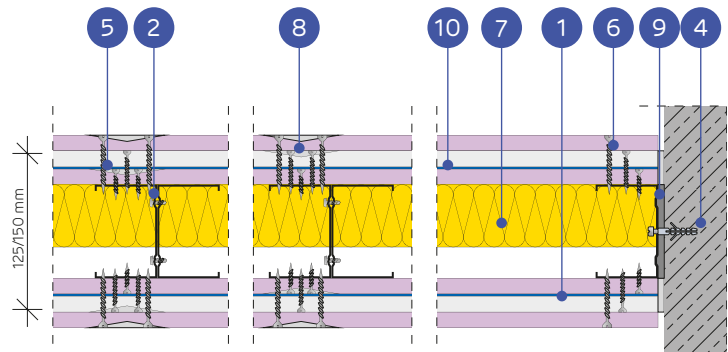


Number of  
related  
document:  
**EN 1627:2011**



## MATERIALS:

1. NIDA Flam plasterboard (internal and external layer) + LaDura plasterboard (intermediate layer)
2. NIDA CW75/CW100 profile (doubled) + NIDA Flam (external layer)
3. NIDA UW75/UW100 profile
4. NIDA expansion plug
5. NIDA 3.5 x 25 mm selftapping screws
6. LaDura 4.2 x 38 mm selftapping 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 70/95 mm
10. Galvanised steel sheet thickness 0.5 mm (applied on both sides)



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

TECHNICAL PARAMETERS							
NIDA System	System Thickness [mm]	NIDA Metal Structure	NIDA Plasterboard	Insulation Mineral Wool	System weight [Kg/m <sup>2</sup> ]	Maximum height with fire performance H.max [m]	Maximum height without fire performance H.max [m]
D151	151	CW75-H @ 600 mm	2x1 LaDura 12.5 + 2x1 Steel Sheet 0.5 2x2 NIDA Flam 12.5	1 x MW 75mm	89.8	6.50	6.50
D151	151	CW75-H @ 400 mm	2x1 LaDura 12.5 + 2x1 Steel Sheet 0.5 2x2 NIDA Flam 12.5	1 x MW 75mm	91.7	6.50	6.50
D151	151	CW75-H @ 300 mm	2x1 LaDura 12.5 + 2x1 Steel Sheet 0.5 2x2 NIDA Flam 12.5	1 x MW 75mm	93.7	6.50	6.50
D176	176	CW100-H @ 600 mm	2x1 LaDura 12.5 + 2x1 Steel Sheet 0.5 2x2 NIDA Flam 12.5	1 x MW 100mm	90.8	6.50	6.50
D176	176	CW100-H @ 400 mm	2x1 LaDura 12.5 + 2x1 Steel Sheet 0.5 2x2 NIDA Flam 12.5	1 x MW 100mm	93.2	6.50	6.50
D176	176	CW100-H @ 300 mm	2x1 LaDura 12.5 + 2x1 Steel Sheet 0.5 2x2 NIDA Flam 12.5	1 x MW 100mm	95.6	6.50	6.50

<sup>1)</sup> The maximum wall height acc. to 01060/11/R12NK ITB technical opinion

<sup>2)</sup> The burglar resistance classes according to standard EN 1627:2011.

<sup>3)</sup> The fire resistance class according to standard EN 13501-2:2016-07.

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

The firestop and anti-burglar wall systems constructed according to the Siniat technology act as firestop partitions, with fire exposition from both their sides.

AMOUNT OF MATERIALS UTILISED PER 1M <sup>2</sup> OF ANTI-BURGLAR WALLS, ACCORDING TO NIDA SYSTEM				
Material name	Unit	Double stud		
		600 mm	400 mm	300 mm
LaDura Plasterboard	m <sup>2</sup>		2.00	
NIDA Flam Plasterboard	m <sup>2</sup>		4.00	
Steel sheet DX51D Z100 min. 0.5 mm thick - EN 14195	m <sup>2</sup>		2.20	
Mineral Wool 50 mm	m <sup>2</sup>		0 / 2	
NIDA Metal stud CW50/75/100	ml	3.70	5.40	7.00
Inferior track - NIDA Metal UW50/75/100	ml		0.35	
	[H ≤ 4 m]			
	[4 m < H ≤ 6.5 m]		0.20	
Superior track - NIDA Metal UW50/75/100	ml		0.35	
	[H ≤ 4 m]			
	[4 m < H ≤ 6.5 m]		0.20	
NIDA Metal UW75 jointing profile for CW75 studs	ml	0.00	0.00	0.00
	[0 m < H ≤ 4 m]			
	[4 m < H ≤ 6.5 m]	1.10	1.60	2.10
NIDA Metal UW100 jointing profile for CW100 studs	ml	0.00	0.00	0.00
	[0 m < H ≤ 4 m]			
	[4 m < H ≤ 6.5 m]	1.50	2.10	2.80
Selftapping LaDura 3.9xL1	pc	12.00	16.00	20.00
Selfdrilling LaDura 3.9xL1 (fix the steel sheet)	pc	12.00	16.00	20.00
Selfdrilling LaDura 3.9xL2	pc	12.00	16.00	20.00
Selfdrilling LaDura 3.9xL3	pc	20.00	26.00	32.00
Self-drilling screw 4.2x13 FLATHEAD for double studs	pc	4.00	6.00	8.00
Self-drilling screw 4.2x13 FLATHEAD for jointing profiles	pc	9.00	13.00	17.00
Siniat 6x40 metal dowel for fixing inferior tracks and perimetral studs.	pc		1.00	
Mechanical fixing for top track <sup>(5)</sup>	ml		0.50	
Monoadhesive sealing tape	ml		1.00	
Fiberglass jointing tape <sup>(6)</sup>	kg		3.60	
NIDA Profesional jointing compound	kg		1.80	
NIDA Boardfix adhesive gypsum			0.10	

<sup>5)</sup> Alternatively, apply the NIDA Max gypsum compound.

<sup>6)</sup> 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.



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# REFERENCE PROJECT

Name: ONE MIRCEA ELIADE

Application: HIGH CLASS RESIDENTIAL



Specificities of the project and delivered solutions:

One Mircea Eliade is a residential complex in Bucharest with mixt functions being composed of two towers with 15 stories and one tower with 19 stories over the ground, with a total of 247 apartments.

Siniat provided technical support for both architects and construction company and delivered RC4 class (acc to EN 16727) antiburglary walls between two apartments and between apartments and hallways. The requirements achieved by our systems are up to EI180' fire protection and over 66dB acoustic insulation.





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Solution based on the "Pchełka" type screws



Solution was based on the FLAT HEAD® type screws

For more information visit our website: [www.siniat.pl](http://www.siniat.pl), or see our clip on YouTube.

## FLAT HEAD®

Simple plasterboard encasement solution



# CERTIFICATES

Certest, s.r.o., Dlhá 191/44, 010 09 Žilina, Slovak Republic  
Authorised Body by the Slovak Republic National Security Authority No. AOUS 01/2016

  
CERTEST – Testing & Certification Section

**CERTIFICATE No. 00578/2019**  
issued on: 02.12.2019

CERTEST – Testing & Certification Section issues this certificate:

- Product name (type): **Anti-burglar Siniat partitions with electrical sockets RC2 acc. EN 1627:2011**  
type: 75A50-300/Reasitex RC2  
variant(s): Wall type: A. Max. wall thickness 175 mm. (see annex no. 1 of this certificate)
- Applicant (trade name and seat): **Siniat Sp. z o.o., Przeclawska 8 st, 03-879 Warszawa, Poland**
- Applicant's company Reg. No.: REGON 001412101
- Manufacturer (trade name and seat): Siniat Sp. z o.o., Przeclawska 8 st, 03-879 Warszawa, Poland

This is to certify a conformity of characteristics of the above mentioned product(s) with technical requirements stated in standard(s): EN 1627:2011 - burglary class of resistance RC2, Slovak National Security Authority Test Procedure No. 1/2012 – type 2.

The Tests results and findings on conformity of the above mentioned product(s) that are given in standard(s) are summarized in the Report No. ZP-0640 dated 02.12.2019. Detailed technical description of the aim product is mentioned ibid. Relevant technical requirements applied, and the certificate regulations are quoted on the certificate back side.


The Certificate holder is entitled to employ the certification mark „SECURITY TESTED“ of burglary resistant class **RC2**. The product is going to be assigned into SECURITY TESTED database of products and presented on web-site of BURGLARY RESISTANT PRODUCTS.

**Restraint / stipulation of the product usage:**  
Certificate validity: 3 years starting from the date of issue.



Certification Body Stamp Ing. Vilam Šedo  
Director of Certest, s.r.o.

Certest, s.r.o., Dlhá 191/44, 010 09 Žilina, Slovak Republic  
Authorised Body by the Slovak Republic National Security Authority No. AOUS 01/2016

  
CERTEST – Testing & Certification Section

**CERTIFICATE No. 00581/2019**  
issued on: 02.12.2019

CERTEST – Testing & Certification Section issues this certificate:


- Product name (type): **Anti-burglar Siniat partitions with electrical sockets RC2 acc. EN 1627:2011**  
type: 100A50/Expert+Reasitex RC2  
variant(s): Wall type: A, B, C, D. Wall thickness scope 100 + 900 mm. (see annex no. 1 of this certificate)
- Applicant (trade name and seat): **Siniat Sp. z o.o., Przeclawska 8 st, 03-879 Warszawa, Poland**
- Applicant's company Reg. No.: REGON 001412101
- Manufacturer (trade name and seat): Siniat Sp. z o.o., Przeclawska 8 st, 03-879 Warszawa, Poland

This is to certify a conformity of characteristics of the above mentioned product(s) with technical requirements stated in standard(s): EN 1627:2011 - burglary class of resistance RC2, Slovak National Security Authority Test Procedure No. 1/2012 – type 2.

The Tests results and findings on conformity of the above mentioned product(s) that are given in standard(s) are summarized in the Report No. ZP-0641 dated 02.12.2019. Detailed technical description of the aim product is mentioned ibid. Relevant technical requirements applied, and the certificate regulations are quoted on the certificate back side.


The Certificate holder is entitled to employ the certification mark „SECURITY TESTED“ of burglary resistant class **RC2**. The product is going to be assigned into SECURITY TESTED database of products and presented on web-site of BURGLARY RESISTANT PRODUCTS.

**Restraint / stipulation of the product usage:**  
Certificate validity: 3 years starting from the date of issue.



Certification Body Stamp Ing. Vilam Šedo  
Director of Certest, s.r.o.

Certest, s.r.o., Dlhá 191/44, 010 09 Žilina, Slovak Republic  
Authorised Body by the Slovak Republic National Security Authority No. AOUS 01/2016

  
CERTEST – Testing & Certification Section

**CERTIFICATE No. 00579/2019**  
issued on: 02.12.2019

CERTEST – Testing & Certification Section issues this certificate:


- Product name (type): **Anti-burglar Siniat partitions with electrical sockets RC3 acc. EN 1627:2011**  
type: 100A50/Reasitex RC3  
variant(s): Wall type: A, B, C, D. Wall thickness scope 100 + 900 mm. (see annex no. 1 of this certificate)
- Applicant (trade name and seat): **Siniat Sp. z o.o., Przeclawska 8 st, 03-879 Warszawa, Poland**
- Applicant's company Reg. No.: REGON 001412101
- Manufacturer (trade name and seat): Siniat Sp. z o.o., Przeclawska 8 st, 03-879 Warszawa, Poland

This is to certify a conformity of characteristics of the above mentioned product(s) with technical requirements stated in standard(s): EN 1627:2011 - burglary class of resistance RC3, Slovak National Security Authority Test Procedure No. 1/2012 – type 3.

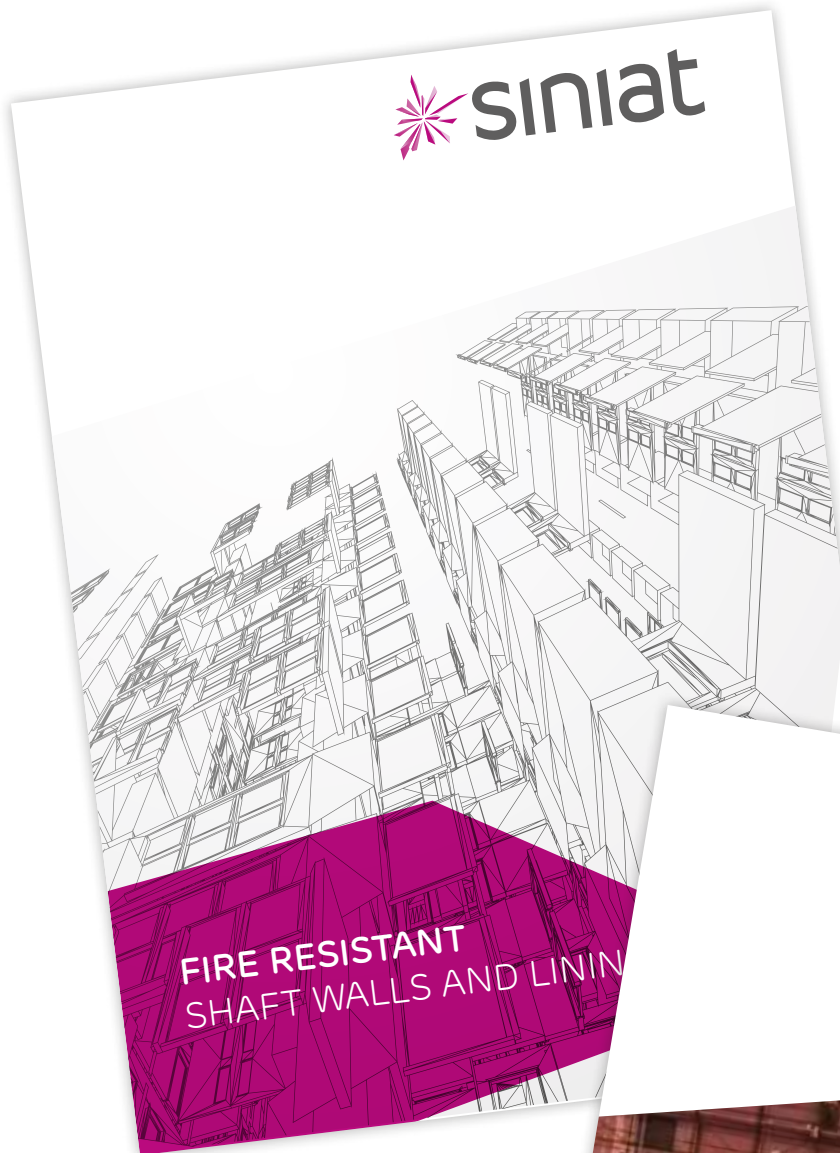
The Tests results and findings on conformity of the above mentioned product(s) that are given in standard(s) are summarized in the Report No. ZP-0639 dated 02.12.2019. Detailed technical description of the aim product is mentioned ibid. Relevant technical requirements applied, and the certificate regulations are quoted on the certificate back side.

The Certificate holder is entitled to employ the certification mark „SECURITY TESTED“ of burglary resistant class **RC3**. The product is going to be assigned into SECURITY TESTED database of products and presented on web-site of BURGLARY RESISTANT PRODUCTS.

**Restraint / stipulation of the product usage:**  
Certificate validity: 3 years starting from the date of issue.



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