siniat

NEW

Solidtex

with HDC
HIGH DENSITY CRYSTALLISATION
TECHNOLOGY

Solidtex the board that breaks **the rules of building**

www.siniat.com.cy

etex building performance

Join the **Solidtex** revolution.

Solidtex

with HDC
HIGH DENSITY CRYSTALLISATION
TECHNOLOGY

Thanks to the exclusive High Density Crystallisation (HDC) technology, developed by Etex Building Performance, **the new Solidtex drywall system** challenges the traditional masonry with a unique solidity and resistance performance.

+ EXTRAORDINARY

Exceptional, unprecendent.

INDEX

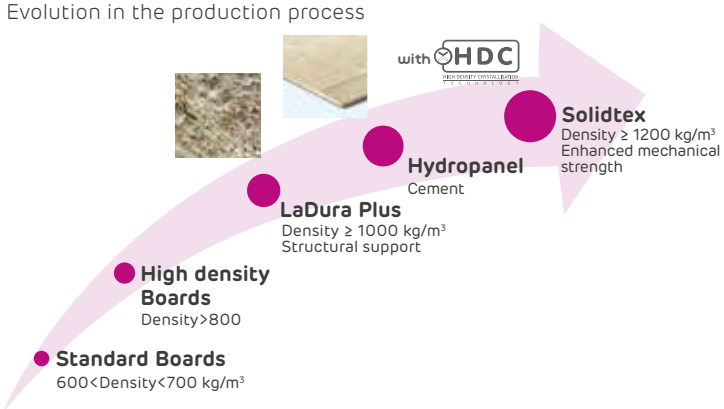
+ INNOVATION

Pioneers of innovative solutions.

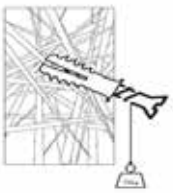
SOLIDTEX:
SOLIDITY IN PERFORMANCE.

Innovation in Etex Building Performance is an activity pursued with conviction and challenging objectives. Our latest innovation is the Solidtex board, a breakthrough in drywall solutions.

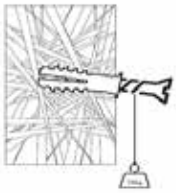
We offer you **the solution.** Solidtex is a multipurpose plasterboard that ensures the highest performance for the most demanding projects.

	HOW	WHAT
Technology and process	Increase of the core density Compliant to EN 520 Evolution in the production process  	>1200 kg/m³ D E F H1 I R Type Patent
Sustainability	Recyclability Recycled content	100% > 35%
Mechanical strength	Extraordinary resistance to suspended loads Partition solidity: higher with less metal frame Burglar resistance	Twice than common drywall systems 30-50% higher than standard partitions RC2 with only 3 boards
Acoustics	Excellent insulation between residential units	R_w=66 dB with only 3 boards
Installation	Workability - Finishing Versatile and simple systems	★ ★ ★ ★ ★ ★ ★ ★ ★
Uniqueness	Studs at 1200 mm spacing, screws at 600 mm Versatile and simple systems	Patent ★ ★ ★ ★ ★

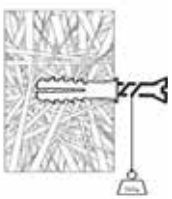
The outstanding characteristics of Solidtex lead us to request two patents; one related to the production process and the other one to the system configuration with metal studs at 1200 mm spacing.
Solidtex systems overcome traditional masonry walls and achieve the highest performances among drywall systems.
Solidtex allows the possibility to hang loads until now unimaginable for drywall systems, grants solidity of partitions indistinguishable from masonry walls, and excellent acoustic insulation.
The innovative technology at the base of Solidtex board combines the ease of working and finishing quality typical of gypsum plasterboard with mechanical performance so far attributed exclusively to the masonry.
Solidtex has been conceived in order to meet the needs of architects, installers and end users.



STANDARD



HIGH DENSITY



ULTRA HIGH DENSITY
30% - 50% MORE
GYPSUM/M³

Solidtex with HDC

TECHNOLOGY AND PROCESS

Solidtex is a plasterboard 12.5 mm thick, with tapered edges, produced with HDC (High Density Crystallisation) technology, composed of a high density gypsum core (>1200 kg/m³), treated for high moisture resistance, reinforced with glass fibers, encased in a special paper liner.

Solidtex is compliant to EN 520, type D E F H1 I R.

→**D** Controlled density >800 kg/m³
- Solidtex >1200 kg/m³ over 50% higher than the limit value of class D
- enhanced resistance to suspended load and durability of the wall.

→**E** Suitable to be used as sheathing board in external walls, not permanently exposed to external weather conditions

→**F** Improved core adhesion at high temperature
- Suitable for applications with excellent fire resistance performance

→**H1** Reduced water absorption, the highest class according to EN 520
- suitable for all the environments even with high humidity

→**I** High surface hardness
- enhanced walls durability and impact resistance

→**R** Greater mechanical resistance
- increased by over 25% compared to the limit values of the R class
- enhanced resistance to suspended loads

MECHANICAL RESISTANCE

We want to offer the best to the market, without compromise: the solidity of the board and of the systems was our target goal in formulating Solidtex.

Hanging of loads
The suspension of loads is an important feature for the end user.

Our solution is Solidtex. Freedom to customize the rooms with no worries.

→Be able to suspend any load without worrying about the point of application
- exactly like the masonry
- no additional reinforcements are required. Solidtex achieves maximum values for drywall systems.

→Reliability and safety in fixing the loads thanks to the high resistance.

SUSTAINABILITY

Solidtex is 100% recyclable.
It has a recycled content more than 35%, thanks to the use of gypsum from alternative sources, choice driven by Etex BP to preserve natural sources.

Solidtex has very low VOC emissions.

The solution for sustainable building.

GREENSHAPING

The following tables show the average rupture loads obtained from tests performed at the Istituto Giordano according to UNI 8326 standard and ETAG 003 guideline for different combinations of boards and types of anchors. The anchors were applied directly to the boards, not to the metal frame, at the centerline between two metal studs.

SHEAR RESISTANCE - Tests according to UNI 8326

Anchor type		Configuration - Nr and type of board			
		1 x Solidtex	1 x PregyPlac BA13 1 x Solidtex	1 x SoundBoard 1 x Solidtex	2 x Solidtex
		IG 346118	IG 346119	IG 346120	IG 346118
	Metal anchor (Ø 10 mm hole)	320 kg	305 kg	410 kg	490 kg
	Nylon anchor Ø 8 x 50 mm	295 kg*	290 kg*	480 kg	480 kg*
	Self-tapping metal anchor	185 kg*	-	-	180 kg*

The above values refer to the average breaking loads obtained during the tests
The loads to be applied must consider a proper safety factor to be established according to the anchor type and the specific design requirements.

* Failure of the screw inside the anchor, without failure of the boards

SHELVES AND CABINETS - Eccentric load tests according to UNI 8326 and ETAG 003

	Features	Anchor type	Configuration - Nr and type of board			
			1 x Solidtex	1 x PregyPlac BA13 1 x Solidtex	1 x SoundBoard 1 x Solidtex	2 x Solidtex
			IG 346118	IG 346119	IG 346120	IG 346118
	Shelf 50 x 30 x 15 cm	2 Metal anchors (Ø 10 mm hole)	248 kg	250 kg	290 kg	370 kg
	Shelf 100 x 30 x 60 cm	4 Metal anchors (Ø 10 mm hole)	> 200 kg	400 kg	490 kg	620 kg
	Wall cabinet	2 Metal anchors (Ø 10 mm hole)	180 kg*	-	-	-

The above values refer to the average breaking loads obtained during the tests
The loads to be applied must consider a proper safety factor to be established according to the anchor type and the specific design requirements.

* Failure of the cabinet's brackets, without failure of the fixings

+ SOLIDITY

Systems durability and safety.

Drywall test on shaking table

Impact resistance
The safety and durability of the systems, minimizing the reparations, is a further expectation to which the maximum importance has to be given.

Our solution for every type of intended use is Solidtex!
The excellent mechanical properties make Solidtex systems suitable for the residential sector but also for applications in environments that can be affected by impacts such as gyms, corridors, schools and crowded environments.

Burglar resistance
The security of environments that can not be violated is an important demand.

Our solution is simple with Solidtex: 3 boards system!
Burglar resistance has been certified at Istituto Giordano according to UNI EN 1627, UNI EN 1628, UNI EN 1629 and UNI EN 1630 standards, obtaining the RC2 classification with a double frame system and only 3 Solidtex boards, extremely easy and fast.

Earthquake safety
The earthquakes of recent decades have highlighted the need for an anti-seismic design for both structural and non-structural elements. In fact the collapse, or damage, of non-structural elements can cause victims, injuries, blocking of emergency exits and contribute significantly to economic losses.
Drywall systems, thanks to the lightness and the intrinsic characteristics of deformability, are particularly suitable to resist against seismic actions. Siniat anti-seismic systems, not only don't collapse, but also allow to maintain the building functionality; this is essential to limit the number of people that need to be evacuated and prevent the shut down of commercial activities.

Thanks to a research activity aimed at both the analysis of the behavior of existing drywall systems and the development of innovative anti-seismic solutions, Siniat has certified anti-seismic solutions that have been the subject of experimentation at the University of Naples Federico II DIST (Department of Structural Engineering) according to the most severe international test protocols.

The comparison tests performed on traditional masonry walls have shown that:
- masonry walls are subjected to diffuse cracking for modest ground accelerations (0.1 - 0.2 g)
- Etex BP drywall partitions can resist to high levels of acceleration and maximum drift without being damaged whereas in the same conditions brick walls totally collapse.

Thanks to their low weight, up to 1/5 of that of masonry walls, drywall systems allow a great reduction of seismic forces acting on the building .

This aspect, together with the deformation capabilities of Etex BP anti-seismic systems, enables the design of more flexible load-bearing

For additional information on seismic topics please contact our technical office

Unmatched performances.

structures.

ACOUSTICS

The comfort of a building is strictly linked to its acoustic performance.

Solidtex, because of its high mass, can be used as an effective sound-insulation solution. A system with only three boards can provide a substantial sound-proofing solution.
It guarantees excellent acoustic insulation between units, hospital rooms, hotel rooms and classrooms.

INSTALLATION

Companies involved in the installation look for and select reliable products that ensure a high quality of the work on sites; confirming thus their know how and expertise.

Solidtex with its high aesthetic and remarkable technical specifications, offers a reliable solution that can guarantee:

→excellent surface finish thanks to the special paper liner;
→high level of finishing without the surface skimming;
→workability
- the boards can be cut with a simple cutter, specific equipments are not required;
- the boards can be handled without special precautions;
- skimming is not necessary.

SYSTEM

Who designs and who invests in drywall construction wants to ensure solutions with high performance paying attention to the costs but without compromise on the quality of the result.

Rapid and simple solutions:
→the installation of metal studs at 1200 mm spacing allows to halve the structure;
→single board systems allow to meet the needs for most of the projects;
→screw center distance 600 mm

More efficient installation than masonry wall:
- greater speed and cleaning of the job site;
- easy installation with less finishing steps;
- logistics: light materials, easy to transport and handle;
- services integration: cables and services can be easily integrated within the cavity of the partition;
- job-site management: clean processing and maintenance, with limited production of waste, that can be recycled.

The radical Solidtex innovation is the solution that allows us to offer unique, high performance, easy and quick to install systems.

+ SUSTAINABILITY

Crazy for green.

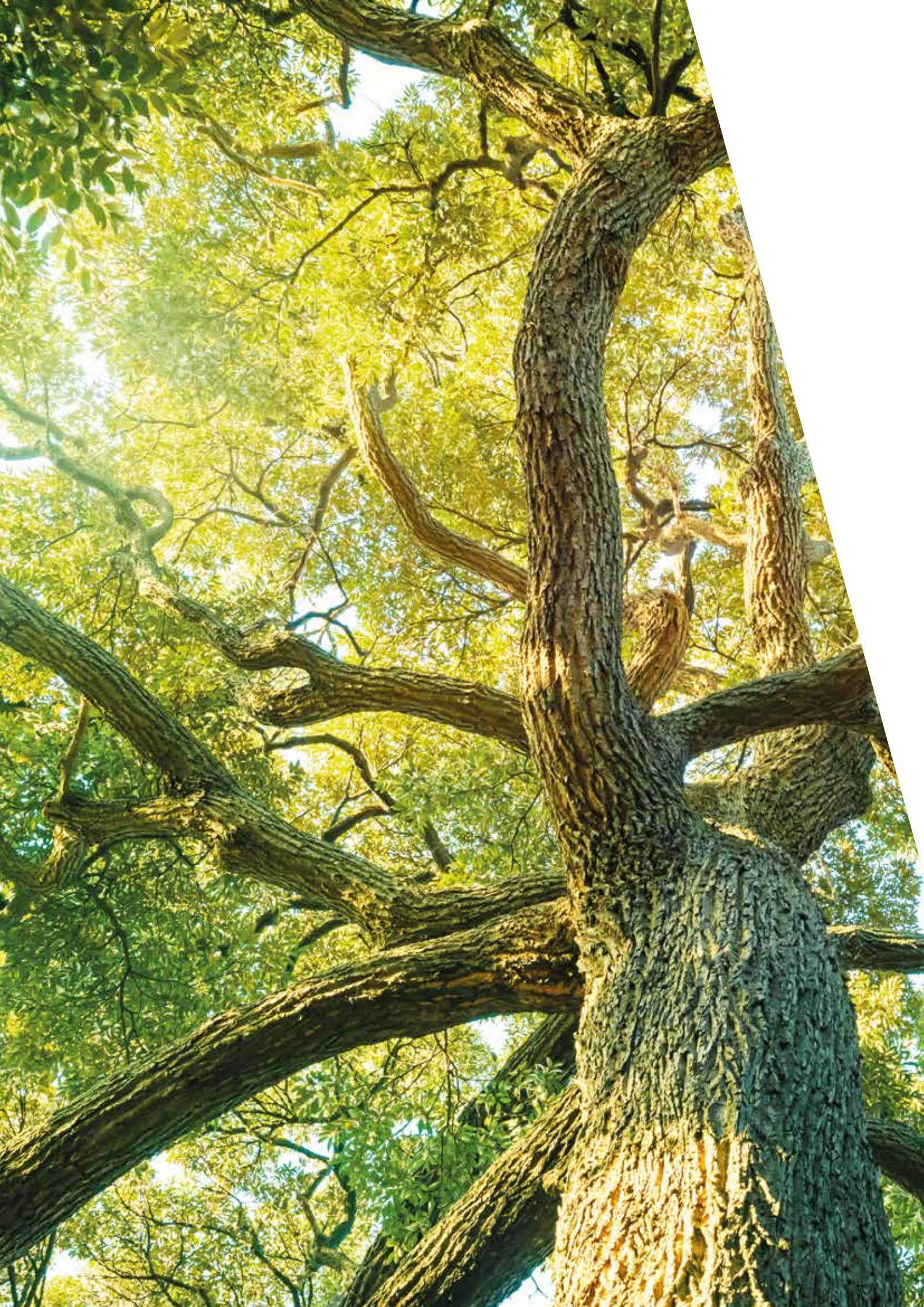
SUSTAINABILITY AND QUALITY

In recent years there has been a growing affirmation of an **ecological conscience** worldwide, so we are all aware that our well-being can not be separated from the environment and therefore from a correct and **sustainable** use of natural resources.
At the same time we are all always more attentive to the **quality** of what we buy and use in everyday life.
These two concepts, **Sustainability and Quality** are the basis of the work of Etex Building Performance, always at the forefront of technology, careful of the environmental impact of production and the quality of products.
For a long time our production plant located in Corfinio has been using gypsum waste that would otherwise be thrown away.
Furthermore, both the boards production line and the steel profiles line operate under controlled quality conditions.

Our respect for the environment is demonstrated by several actions:

- testing according to UNI EN 16000-9 from the CATAS laboratory has been performed, verifying **its products VOC emissions;**
- the production plant is ISO 9001 certified by ICMQ which certifies the **quality control** of the process;
- the production plant is ISO 14001 certified by ICMQ certifying the **environmental management** of the process;
- ICMQ has verified **the recycled content in the plasterboards (>30%)**, then issuing the verification document according to UNI EN ISO 14021;
- a **recovery service for gypsum board waste has been developed** that allows the **complete recyclability** of boards.

The mentioned actions contribute in obtaining credits in building sustainability assessment protocols, such as LEED and ITACA.



LEED:

- Materials and Resources
- Internal Environmental Quality
- Regional Priorities (PR)

ITACA:

- B.4.6 recycled / recovered materials
- B.4.8 Local Materials
- B.4.10 Recyclable or Removable Materials

SOLUTIONS

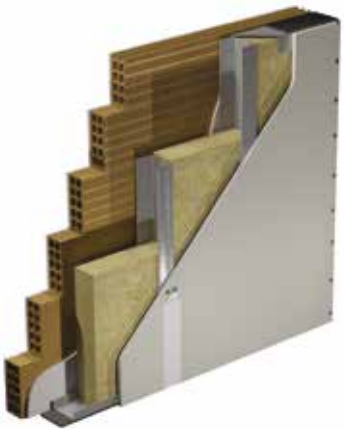
Among the many advantages of drywall systems there is certainly the possibility of modulating the system configuration (type and number of boards, type of structure, insulation ...) according to the required performances.
This versatility allows us to offer alternative solutions with different levels of performance to meet all design requirements.

We propose solutions distinguishing three types of

• **S-tex1:** Single metal frame partitions used as simple partitions and suitable for any intended use

• **S-tex2:** Double metal frame partitions characterized by high acoustic insulation and typically used for the separation between apartments, patient rooms, hotel rooms, classrooms etc.

• **S-tex3:** Linings of existing walls with the aim of improving thermal and / or acoustic insulation or for aesthetic purpose, or services integration.



*S-tex1: Single metal frame partitions						
SYSTEM	VARIANT	THICKNESS	MAXIMUM HEIGHT	SOUND INSULATION R_w	RESISTANCE TO SUSPENDED LOADS	HUMID ENVIRONMENTS
S-tex1.1	-	100 mm	4,50 m	53 dB	★★★	YES
S-tex1.2	S-tex1.2a	100 mm	3,55 m	61 dB	★★★	YES
	S-tex1.2b	125 mm	4,70 m	61 dB		
S-tex1.3	S-tex1.3a	100 mm	3,55 m	61 dB	★★★★	YES
	S-tex1.3b	125 mm	4,70 m	62 dB		
S-tex1.4	S-tex1.4a	100 mm	5,40 m	61 dB	★★★★★	YES
	S-tex1.4b	125 mm	6,20 m	63 dB		

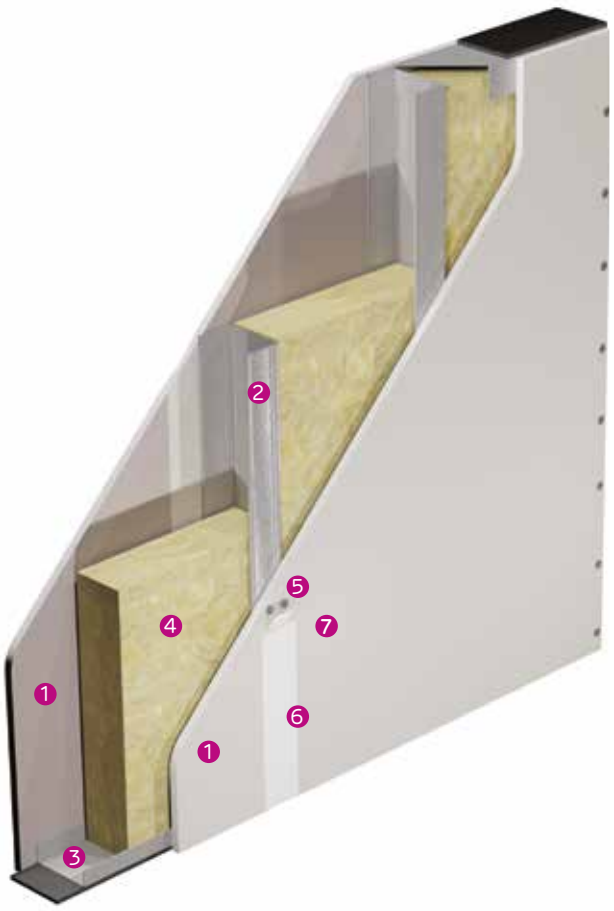
*S-tex2: Double metal frame partitions					
SYSTEM	THICKNESS	MAXIMUM HEIGHT	SOUND INSULATION R_w	RESISTANCE TO SUSPENDED LOADS	HUMID ENVIRONMENTS
S-tex2.1	195 mm	4,00 m	66 dB	★★★	YES
S-tex2.2	220 mm	4,00 m	71 dB	★★★★	YES
S-tex2.3	220 mm	4,00 m	73 dB	★★★★★	YES

*S-tex3: Linings			
SYSTEM	THICKNESS	SOUND INSULATION R_w	HUMID ENVIRONMENTS
S-tex3.1	62.5 mm	66 dB - Masonry hollow brick with plaster	YES
S-tex3.2	75 mm	68 dB - Masonry hollow brick with plaster (72 dB with double lining)	YES

S-TEX1: SINGLE METAL FRAME PARTITIONS

S-TEX1.1

D100/M75 - 2 S-TEX - LM



1. Solidtex board
2. PregyMetal Stud C75/50
3. PregyMetal Track U75/40
4. 60 mm thick rock wool
5. Solidtex screws
6. Siniat joint compound
7. Siniat joint tape

ADVANTAGES

- Thin system
- Speed of installation
- Possibility to fix shelves and suspended loads
- Moisture resistant
- Innovation: 120 cm stud spacing allowed

CONSUMPTION (1)		
	i = 60 cm	i = 120 cm
Solidtex board	2.10 m^2	2.10 m^2
PregyMetal Track U75 / 40	0.70 m	0.70 m
PregyMetal Studs U75 / 50	1.75 m	0.85 m
Solidtex screws	18 U	12 U
Polyethylene tape	Var.	Var.
Siniat joint tape	1.75 m	1.75 m
Siniat joint compound	0.70 kg	0.70 kg
Rock wool	1.05 m^2	1.05 m^2

CARATTERISTICHE	
Partition thickness	100 mm
Partition weight	35 kg/m^2
Max height (2)	4,50 m (studs at 60 cm) 3,40 m (studs at 120 cm)
Sound insulation (3)	R_w = 53 dB
Fire resistance (4)	EI 60
Hanging of loads	See pages 10-11

(1) Average consumption per m^2 for 3m height wall considering a scrap of 5%.
(2) Maximum height for partition subjected to horizontal load of 1.00 kN/m applied at 1,20 m height above the floor according to DM 17/01/2018.
(3) Istituto Giordano n. 354380
(4) Istituto Giordano n. 351340-3917FR (studs at 60 cm, 4,20 m max height)

SPECIFICATION

Siniat internal partition S-tex1.1 - D100 / M75 2 S-tex -LM with a thickness of 100 mm consisting of a galvanized steel metal frame complying with UNI EN 14195 with PregyMetal U75 / 40 tracks fixed to the floor and ceiling by suitable plugs at 50 cm and PregyMetal C75 / 50 studs at 60 / 120 cm.
Facing on both sides consisting of 1 layer of Solidtex boards with a thickness of 12.5 mm and density >1200 kg / m3 in compliance with EN 520 (type D E F H1 I R). Rock wool insulation panel 40 kg/m^3 min. density and 60 mm min. thickness in the cavity.
The boards will be screwed to the metal frame by Solidtex screws.
Polyethylene tape applied behind the metal frame all along the edges.
Treatment of the joints and heads of the screws with Siniat joint compound and reinforcement tape.

S-TEX1.2

S-TEX1.2a - D100/M50 - 2 PS BA13 + 2 S-TEX - LM
S-TEX1.2b - D125/M75 - 2 PS BA13 + 2 S-TEX - LM

1. Solidtex board
2. PregyPlac BA 13 board
3. PregyMetal Stud C50/50 – C75/50
4. PregyMetal Track U50/40 - U75 / 40
5. 40 - 60 mm thick rock wool
6. Solidtex screws
7. Siniat joint compound
8. Siniat joint tape

ADVANTAGES

- Thin system
- Possibility to fix shelves and suspended loads
- Moisture resistant
- High sound insulation

CONSUMPTION (1)	
Solidtex board	2.10 m²
PregyPlac BA 13 board	2.10 m²
PregyMetal Track U50/40 - U75 / 40	0.70 m
PregyMetal Studs C50/50 - C75 / 50	1.75 m
SNT screws (first layer)	6 U
Solidtex screws (second layer)	18 U
Polyethylene tape	Var.
Siniat joint tape	1.75 m
Siniat joint compound	0.70 kg
Rock wool	1.05 m²

TECHNICAL FEATURES		
Variant	S-tex1.2a	S-tex1.2b
Partition thickness	100 mm	125 mm
Partition weight	52 kg/m²	53 kg/m²
Max height (2)	3.55 m	4.70 m
Sound insulation	R_w = 61 dB[3]	R_w = 61 dB[4]
Hanging of loads	See pages 10-11	

(1) Average consumption per m2 for 3 m height wall considering a scrap of 5%
(2) Maximum height for partition subjected to horizontal load of 1.00 kN/m applied at 1,20 m height above the floor according to DM 17/01/2018
(3) ITC Avignon internal test
(4) Istituto Giordano n. 354382

SPECIFICATION

Siniat internal partition S-tex1.2a - D100 / M50 – 2 PS BA13 + 2S-tex –LM (S-tex1.2b - D125/M75 – 2 PS BA13 + 2 S-tex – LM) with a thickness of 100 mm (125 mm) consisting of a galvanized steel metal frame complying with UNI EN 14195 with PregyMetal U50/40 (U75/40) tracks fixed to the floor and ceiling by suitable plugs at 50 cm and PregyMetal C50/50 (C75/50) studs at 60 cm. Facing on both sides consisting of nr.1 layer (inner) of PregyPlac BA13 boards with a thickness of 12.5 mm in compliance with EN 520 (type A) and nr.1 layer (outer) of Solidtex boards with a thickness of 12.5 mm and density >1200 kg / m³ in compliance with EN 520 (type D E F H1 I R). Rock wool insulation panel 40 mm (60 mm) thickness in the cavity. The boards will be screwed to the metal frame by SNT and Solidtex screws. Polyethylene tape applied behind the metal frame all along the edges. Treatment of the joints and heads of the screws with Siniat joint compound and reinforcement tape.

S-TEX1.3

S-TEX 1.3a - D100/M50 - 2 SB + 2 S-TEX - LM
S-TEX 1.3b - D125/M75 - 2 SB + 2 S-TEX - LM

1. Solidtex board
2. Sounboard board
3. PregyMetal Stud C50/50 – C75/50
4. PregyMetal Track U50/40 - U75 / 40
5. 40 - 60 mm thick rock wool
6. Solidtex screws
7. Siniat joint compound
8. Siniat joint tape

ADVANTAGES

- Thin system
- Possibility to fix shelves and suspended loads
- Moisture resistant
- High sound insulation

CONSUMPTION (1)	
Solidtex board	2.10 m²
Sounboard board	2.10 m²
PregyMetal Track U50/40 - U75 / 40	0.70 m
PregyMetal Studs C50/50 - C75 / 50	1.75 m
SNT screws (first layer)	6 U
Solidtex screws (second layer)	18 U
Polyethylene tape	Var.
Siniat joint tape	1.75 m
Siniat joint compound	0.70 kg
Rock wool	1.05 m²

TECHNICAL FEATURES		
Variant	S-tex1.3a	S-tex1.3b
Partition thickness	100 mm	125 mm
Partition weight	58 kg/m²	59 kg/m²
Max height (2)	3.55 m	4.70 m
Sound insulation (3)	R_w = 61 dB	R_w = 62 dB
Hanging of loads	See pages 10-11	

(1) Average consumption per m² for 3 m height wall considering a scrap of 5%
(2) Maximum height for partition subjected to horizontal load of 1.00 kN/m applied at 1,20 m height above the floor according to DM 17/01/2018.
(3) Acoustic simulation.

SPECIFICATION

Siniat internal partition S-tex1.3a - D100 / M50 – 2 SB + 2S-tex –LM (S-tex1.3b - D125/M75 – 2 SB BA13 + 2 S-tex – LM) with a thickness of 100 mm (125 mm) consisting of a galvanized steel metal frame complying with UNI EN 14195 with PregyMetal U50/40 (U75/40) tracks fixed to the floor and ceiling by suitable plugs at 50 cm and PregyMetal C50/50 (C75/50) studs at 60 cm. Facing on both sides consisting of nr.1 layer (inner) of Sounboard BA13 boards with a thickness of 12.5 mm and density 960 kg / m³ in compliance with EN 520 (type D I) and nr.1 layer (outer) of Solidtex boards with a thickness of 12.5 mm and density >1200 kg / m³ in compliance with EN 520 (type D E F H1 I R). Rock wool insulation panel 40 mm (60 mm) thickness in the cavity.
The boards will be screwed to the metal frame by SNT and Solidtex screws. Polyethylene tape applied behind the metal frame all along the edges. Treatment of the joints and heads of the screws with Siniat joint compound and reinforcement tape.

S-TEX1.4

S-TEX1.4a - D100/M50 - 4 S-TEX - LM
S-TEX1.4b - D125/M75 - 4 S-TEX - LM

1. Solidtex board
2. PregyMetal Stud C50/50 – C75/50
3. PregyMetal Track U50/40 - U75 / 40
4. 40 - 60 mm thick rock wool
5. Solidtex screws
6. Siniat joint compound
7. Siniat joint tape

ADVANTAGES

- Very high mechanical resistance to bending and impact
- Very high resistance to suspended loads
- Moisture resistant
- High sound insulation

CONSUMPTION (1)	
Solidtex board	4.20 m²
Sounboard board	0.70 m
PregyMetal Track U50/40 - U75 / 40	1.75 m
PregyMetal Studs C50/50 - C75 / 50	6 U
SNT screws (first layer)	18 U
Solidtex screws (second layer)	Var.
Polyethylene tape	1.75 m
Siniat joint tape	0.70 kg
Siniat joint compound	1.05 m²

TECHNICAL FEATURES		
Variant	S-tex1.4a	S-tex1.4b
Partition thickness	100 mm	125 mm
Partition weight	64 kg/m²	65 kg/m²
Max height (2)	5.40 m	6.20 m
Sound insulation (3)	R_w = 61 dB	R_w = 63 dB
Hanging of loads	See pages 10-11	

(1) Average consumption per m² for 3 m height wall considering a scrap of 5%
(2) Maximum height for partition subjected to horizontal load of 1.00 kN/m applied at 1,20 m height above the floor according to DM 17/01/2018
(3) Acoustic simulation

SPECIFICATION

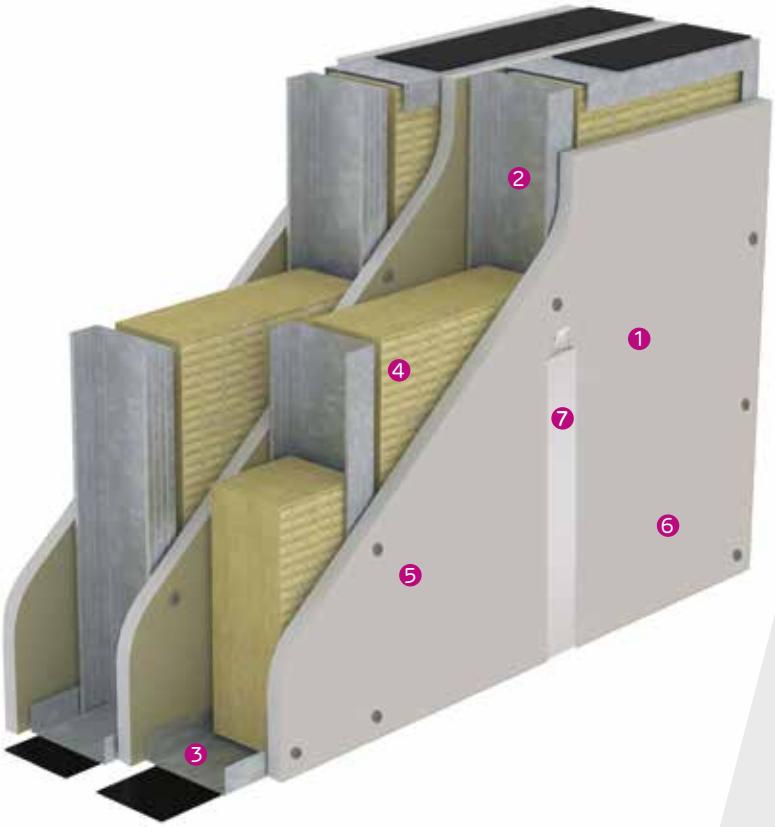
Siniat internal partition S-tex1.4a - D100 / M50 - 4S-tex –LM (S-tex1.4b - D125/M75 – 4 S-tex – LM) with a thickness of 100 mm (125 mm) consisting of a galvanized steel metal frame complying with UNI EN 14195 consisting of PregyMetal U50/40 (U75/40) tracks fixed to the floor and ceiling by suitable plugs at 50 cm and PregyMetal C50/50 (C75/50) studs at 60 cm. Facing on both sides consisting of nr.2 layer of Solidtex boards with a thickness of 12.5 mm and density >1200 kg / m³ in compliance with EN 520 (type D E F H1 I R)

Rock wool insulation panel 40 mm (60 mm) thickness in the cavity. The boards will be screwed to the metal frame by Solidtex screws. Polyethylene tape applied behind the metal frame all along the edges. Treatment of the joints and heads of the screws with Siniat joint compound and reinforcement tape.

S-TEX2: DOUBLE METAL FRAME PARTITIONS

S-TEX2.1

S195/M75+M75 - 3 S-TEX - 2 LM



1. Solidtex board
2. PregyMetal Stud C75/50
3. PregyMetal Track U75 / 40
4. 60 mm thick rock wool
5. Solidtex screws
6. Siniat joint compound
7. Siniat joint tape

ADVANTAGES

- Anti-burglar
- Excellent sound insulation
- Possibility to fix shelves and suspended loads
- Moisture resistant
- Thin system
- Speed of installation

CONSUMPTION (1)		
	i = 60 cm	i = 40 cm
Solidtex board	3.15 m²	3.15 m²
PregyMetal Track U75 / 40	1.40 m	1.40 m
PregyMetal Studs C75/50	3.50 m	5.25 m
Solidtex screws	27 U	35 U
Polyethylene tape	Var.	Var.
Siniat joint tape	1.75 m	1.75 m
Siniat joint compound	0.70 kg	0.70 kg
Rock wool	2.10 m²	2.10 m²

TECHNICAL FEATURES	
Partition thickness	195 mm
Partition weight	55 kg/m²
Max height (2)	4.00 m
Sound insulation (3)	R_w = 66 dB
Burglar resistance (4)	RC2
Thermal transmittance	U = 0.23 W/m²K
Hanging of loads	See pages 10-11

(1) Average consumption per m² for 3 m height wall considering a scrap of 5%.
(2) Maximum height for partition subjected to horizontal load of 1.00 kN/m applied at 1,20 m height above the floor according to DM 17/01/2018.
(3) Istituto Giordano n. 354383
(4) Istituto Giordano n. 345648 - Staggered studs at 40 cm spacing

SPECIFICATION

Siniat internal partition S-tex2.1 – S195/ M75+M75 – 3 S-tex – 2 LM with a thickness of 195 mm consisting of a double galvanized steel metal frame complying with UNI EN 14195 with PregyMetal U75/40 tracks fixed to the floor and ceiling by suitable plugs at 50 cm and PregyMetal C75/50 studs at 60 cm (40 cm and staggered for anti-burglar system). Facing on both sides consisting of nr.1 layer of Solidtex boards with a thickness of 12.5 mm and density >1200 kg / m3 in compliance with EN 520 (type D E F H1 I R). The inner side of one of the two frames will be faced with nr.1 layer of Solidtex boards with a thickness of 12.5 mm and density >1200 kg / m3 in compliance with EN 520 (type D E F H1 I R). Keep an air gap of at least 5 mm between the two frames. Rock wool insulation panel 60+60 mm thick in the cavity. The boards will be screwed to the metal frame by Solidtex screws. Polyethylene tape applied behind the metal frame all along the edges. Treatment of the joints and heads of the screws with Siniat joint compound and reinforcement tape.

S-TEX2.2

S220/M75+M75 - 2 S-TEX + 3 SB - 2 LM

1. Solidtex board
2. Sounboard board
3. PregyMetal Stud C75/50
4. PregyMetal Track U75 / 40
5. 60 mm thick rock wool
6. Solidtex screws
7. Siniat joint compound
8. Siniat joint tape

ADVANTAGES

- Anti-burglar
- Excellent sound insulation
- Possibility to fix shelves and suspended loads
- Moisture resistant

CONSUMPTION (1)		
	i = 60 cm	i = 40 cm
Solidtex board	2.10 m²	2.10 m²
SoundBoard board	3.15 m²	3.15 m²
PregyMetal Track U75 / 40	1.40 m	1.40 m
PregyMetal Studs C75/50	3.50 m	5.25 m
SNT screws (first layer)	15 U	21 U
Solidtex screws (second layer)	18 U	26 U
Polyethylene tape	Var.	Var.
Siniat joint tape	1.75 m	1.75 m
Siniat joint compound	0.70 kg	0.70 kg
Rock wool	2.10 m²	2.10 m²

TECHNICAL FEATURES	
Partition thickness	220 mm
Partition weight	75 kg/m²
Max height (2)	4.00 m
Sound insulation (3)	R_w = 71 dB
Burglar resistance (4)	RC2
Thermal transmittance	U = 0.22 W/m²K
Hanging of loads	See pages 10-11

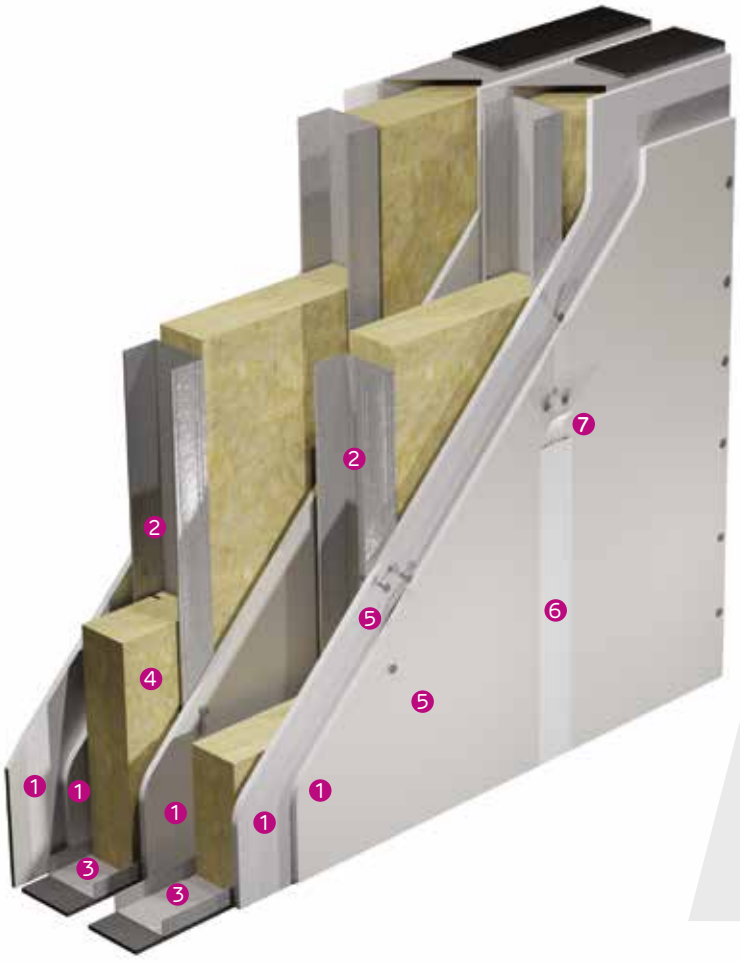
(1) Average consumption per m2 for 3 m height wall considering a scrap of 5%
(2) Maximum height for partition subjected to horizontal load of 1.00 kN/m applied at 1,20 m height above the floor according to DM 17/01/2018
(3) ITC Avignon internal test
(4) Istituto Giordano n. 345648 - Staggered studs at 40 cm spacing

SPECIFICATION

Siniat internal partition S-tex2.2 – S220/ M75+M75 – 2 S-tex + 3 SB -– 2 LM with a thickness of 220 mm consisting of a double galvanized steel metal frame complying with the UNI EN 14195 standard consisting of PregyMetal U75/40 tracks fixed to the floor and ceiling by suitable plugs at 50 cm and PregyMetal C75/50 studs at 60 cm (40 cm and staggered for anti-burglar system). Facing on both sides consisting of nr.1 layer (inner) of SounBoard boards with a thickness of 12.5 mm and density o 950 kg / m3 in compliance with EN 520 (type D I) and nr. 1 layer (outer) of Solidtex boards with a thickness of 12.5 mm and density >1200 kg / m3 in compliance with EN 520 (type D E F H1 I R). The inner side of one of the two frames will be faced with nr.1 layer of SoundBoard boards with a thickness of 12.5 mm and density 960 kg / m3 in compliance with EN 520 (type D I). Keep an air gap of at least 5 mm between the two frames. Rock wool insulation panel 60+60 mm thick in the cavity. The boards will be screwed to the metal frame by SNT and Solidtex screws. Polyethylene tape applied behind the metal frame all along the edges. Treatment of the joints and heads of the screws with Siniat joint compound and reinforcement tape.

S-TEX2.3

S220/M75+M75 - 5 S-TEX - 2 LM



1. Solidtex board
2. PregyMetal Stud C75/50
3. PregyMetal Track U75 / 40
4. 60 mm thick rock wool
5. Solidtex screws
6. Siniat joint compound
7. Siniat joint tape

ADVANTAGES

- Anti-burglar
- Very high resistance to suspended loads
- Excellent sound insulation
- Moisture resistant

CONSUMPTION (1)		
	i = 60 cm	i = 40 cm
Solidtex board	5.25 m²	5.25 m²
PregyMetal Track U75 / 40	1.40 m	1.40 m
PregyMetal Studs C75/50	3.50 m	5.25 m
Solidtex screws (first layer)	15 U	21 U
Solidtex screws (second layer)	18 U	26 U
Polyethylene tape	Var.	Var.
Siniat joint tape	1.75 m	1.75 m
Siniat joint compound	0.70 kg	0.70 kg
Rock wool	2.10 m²	2.10 m²

TECHNICAL FEATURES	
Partition thickness	220 mm
Partition weight	85 kg/m²
Max height (2)	4.00 m
Sound insulation (3)	R_w = 73 dB
Burglar resistance (4)	RC2
Thermal transmittance	U = 0.22 W/m²K
Hanging of loads	See pages 10-11

(1) Average consumption per m² for 3 m height wall considering a scrap of 5%
(2) Maximum height for partition subjected to horizontal load of 1.00 kN/m applied at 1,20 m height above the floor according to DM 17/01/2018.
(3) ITC Avignon internal test
(4) Istituto Giordano n. 345648 - Staggered studs at 40 cm spacing

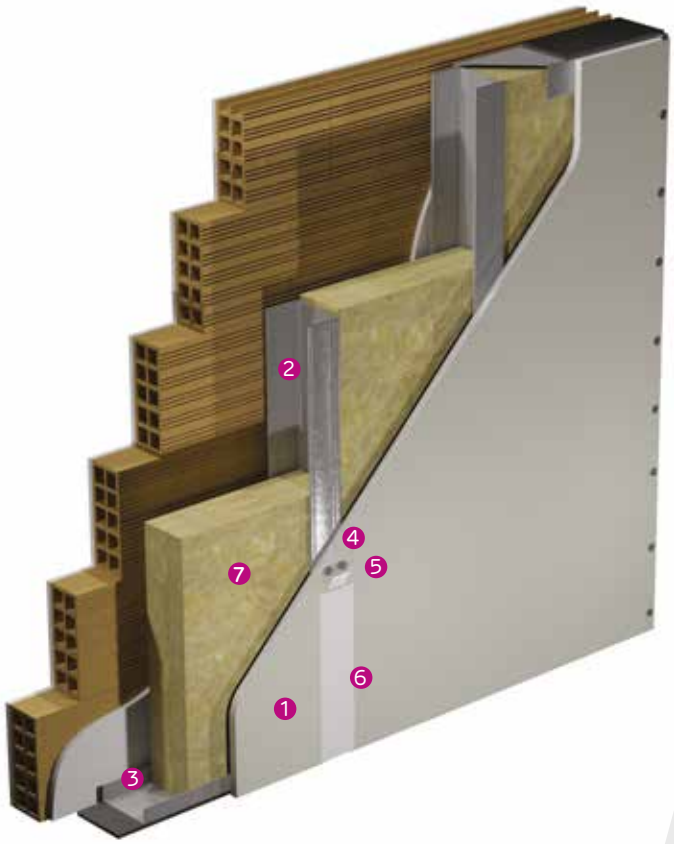
SPECIFICATION

Siniat internal partition S-tex2.3 – S220/ M75+M75 – 5 S-tex + 3 SB -– 2 LM with a thickness of 220 mm consisting of a double galvanized steel metal frame complying with UNI EN 14195 with PregyMetal U75/40 tracks fixed to the floor and ceiling by suitable plugs at 50 cm and PregyMetal C75/50 studs at 60 cm (40 cm and staggered for anti-burglar system). Facing on both sides consisting of nr.2 layer of Solidtex boards with a thickness of 12.5 mm and density >1200 kg / m3 in compliance with EN 520 (type D E F H1 I R).The inner side of one of the two frames will be faced with nr.1 layer of Solidtex boards with a thickness of 12.5 mm and density >1200 kg / m3 in compliance with EN 520 (type D E F H1 I R). Keep an air gap of at least 5 mm between the two frames. Rock wool insulation panel 60+60 mm thick in the cavity. The boards will be screwed to the metal frame by Solidtex screws. Polyethylene tape applied behind the metal frame all along the edges. Treatment of the joints and heads of the screws with Siniat joint compound and reinforcement tape.

S-TEX3: LININGS

S-TEX3.1

CW63/M50 - 1 S-TEX - LM



1. Solidtex board
2. PregyMetal Stud C50/50
3. PregyMetal Track U50/ 40
4. Solidtex screws
5. Siniat joint tape
6. Siniat joint compound
7. Rock wool

ADVANTAGES

- Thin system
- Speed of installation
- Increase of the thermal and acoustic insulation of the existing wall
- Moisture resistant
- Possibility to suspend loads directly on the boards
- Correction of the verticality of pre-existing walls
- Integration of services in the cavity

CONSUMPTION (1)	
Solidtex board	1.05 m^2
PregyMetal Track U50/40	0.70 m
PregyMetal Studs C50/50	1.75 m
Solidtex screws	9 U
Polyethylene tape	Var.
Siniat joint tape	0.90 m
Siniat joint compound	0.35 kg
Rock wool	1.05 m^2

TECHNICAL FEATURES	
Lining thickness	62,5 mm
Lining weight	18,5 kg/m^2
Sound insulation (2)	R_w = 66 dB
Thermal resistance	R = 1,41 m^2K/W
Hanging of loads	See pages 10-11

(1) Average consumption per m^2 for 3 m height lining considering a scrap of 5%
(2) Istituto Giordano n. 354377 - in combination with masonry wall consisting of 12 cm hollow clay blocks with cement plaster

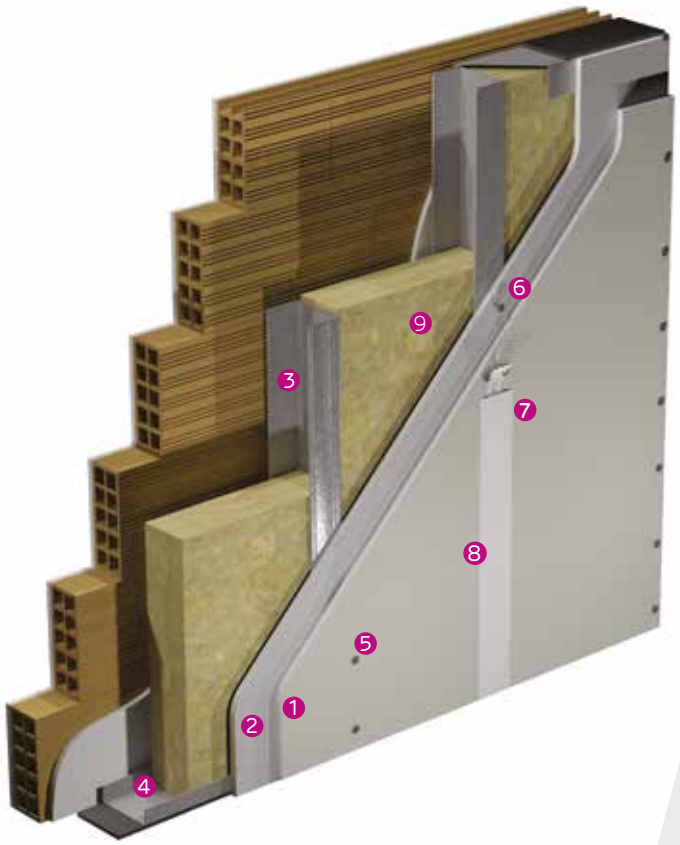
SPECIFICATION

Siniat internal lining S-tex3.1 – CW63/M50 – 1 S-tex – LM with a thickness of 62,5 mm consisting of a galvanized steel metal frame complying with UNI EN 14195 with PregyMetal U50/40 tracks fixed to the floor and ceiling by suitable plugs at 50 cm and PregyMetal C50/50 studs at 60 cm.
The studs will be fixed to the support with 60x35 mm "L" metal brackets at vertical spacing of 1.20 m.

Facing consisting of nr.1 layer of Solidtex boards with a thickness of 12.5 mm and density >1200 kg / m3 in compliance with EN 520 (type D E F H1 I R). Rock wool insulation panel 40 mm thickness in the cavity.
The boards will be screwed to the metal frame by Solidtex screws.
Polyethylene tape applied behind the metal frame all along the edges.
Treatment of the joints and heads of the screws with Siniat joint compound and reinforcement tape.

S-TEX3.2

CW75/M50 - 1 PS BA13 + 1 S-TEX - LM



1. Solidtex board
2. PregyPlac BA13 board
3. PregyMetal Stud C50/50
4. PregyMetal Track U50/ 40
5. Solidtex screws
6. SNT screws
7. Siniat joint tape
8. Siniat joint compound
9. Rock wool

ADVANTAGES

- Increase of the thermal and acoustic insulation of the existing wall
- Moisture resistant
- Possibility to suspend loads directly on the boards
- Correction of the verticality of pre-existing walls
- Integration with plant systems in cavity

CONSUMPTION (1)	
Solidtex board	1.05 m²
PregyPlac BA13 board	1.05 m²
PregyMetal Track U50/40	0.70 m
PregyMetal Studs C50/50	1.75 m
SNT screws (first layer)	3 U
Solidtex screws (second layer)	9 U
Polyethylene tape	Var.
Siniat joint tape	0.90 m
Siniat joint compound	0.35 kg
Rock wool	1.05 m²

CARATTERISTICHE	
Lining thickness	75 mm
Lining weight	27.5 kg/m²
Sound insulation (2)	R_w = 68 dB R_w = 72 dB (double lining)
Thermal resistance	R = 1.47 m²K/W
Hanging of loads	See pages 10-11

(1) Average consumption per m2 for 3 m height lining considering a scrap of 5%
(2) Istituto Giordano n. 354378 and n. 354379 (double lining) - in combination with masonry wall consisting of 12 cm hollow clay blocks with cement plaster

SPECIFICATION

Siniat internal lining S-tex3.2 – CW75/M50 – 1 PS BA13 + 1 S-tex – LM with a thickness of 75 mm consisting of a galvanized steel metal frame complying with UNI EN 14195 with PregyMetal U50/40 tracks fixed to the floor and ceiling by suitable plugs at 50 cm and PregyMetal C50/50 studs at 60 cm.
The studs will be fixed to the support with 60x35 mm "L" metal brackets at vertical spacing of 1.20 m.
Facing consisting of nr.1 layer (inner) of PregyPlac BA13 boards with a thickness of 12.5 mm, in compliance with EN 520 (type A) and nr.1 layer of Solidtex boards with a thickness of 12.5 mm and density >1200 kg / m³ in compliance with EN 520 (type D E F H1 I R). Rock wool insulation panel 40 mm thickness in the cavity. The boards will be screwed to the metal frame by SNT and Solidtex screws. Polyethylene tape applied behind the metal frame all along the edges. Treatment of the joints and heads of the screws with Siniat joint compound and reinforcement tape.

+ INFO

Technical data.

DATA SHEET

Type plasterboard	D E F H1 I R
Edges	Tapered
Nominal thickness	12,5 mm
Nominal width	1200 mm
Nominal length	2000, 3000 mm
Density	> 1200 kg/m³
Weight	> 15,0 kg/m²
Fire reaction	Euroclass A2-s1,d0
Thermal conductivity	λ = 0,25 W/mK
Water vapour diffusion resistance factor - Dry cup - Wet cup	 $\mu_{dry} \approx 10$ $\mu_{wet} \approx 4$
Surface water absorption	≤ 180 g/m²
Total water absorption	≤ 5 %
Flexural breaking load - Longitudinal direction - Transverse direction	 > 725 N > 300 N
Surface hardness (diameter of the depression)	≤ 15 mm
Sustainability - Recyclability - Recycled content	 100 % > 35 %

SOLIDTEX RANGE

BOARDS							
CODE	DESCRIPTION	THICKNESS MM	WIDTH CM	LENGTH CM	PACKAGING	N° OF BOARDS PER PALLET	Kg PER PACKAGE
148860	Solidtex BA12,5 2000 x 32 P	12,5	120	200	76,8 m²	32	1200
145033	Solidtex BA12,5 3000 x 32 P	12,5	120	300	115,2 m²	32	1790
SCREWS							
4065172	Solidtex 4,2x32	-	-	-	1000 pieces box	-	-
4064712	Solidtex 4,2X42	-	-	-	1000 pieces box	-	-

There are **revolutions** that break down the walls and others that **change the rules of building.**

siniat

LANITIS ARISTOPHANOUS

October 2018

GREENSHAPING

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