



# SECURTEX<sup>®</sup>

The first plasterboard-only system certified to LPS 1175 and accredited by Secured by Design

Brochure includes information on;

- Secured by Design Requirements
- Part Q Requirements
- Design Benefits
- Installation Benefits & Guidance



Please check that this is the current version by visiting the Siniat website. For archived versions please contact technical services

“Our Member Companies can make a huge contribution to reducing crime and building safer communities, by bringing products to market that meet the standards required by Secured by Design and having them used or installed in new developments and major refurbishments. We are the only way for companies to obtain Police accreditation for security-related products in the UK”

Emma Snow, Development Officer, Secured by Design, the national police crime prevention initiative



## PRODUCT OVERVIEW

Siniat Securtext® is an attack-resistant plasterboard to foil opportunistic burglars, keep occupants safe, protect the long-term durability of partitions and achieves the standards to meet Secured by Design and Part Q regulations.

**Burglary is still one of the most common types of crime.**

It affected some 689,000\* households in England & Wales in 2017, up 4% on the previous year. Designing to Secured by Design standards is a way of keeping buildings safe and is proven to reduce both the risk and fear of crime.

**Securtext® is a new plasterboard which has security 'designed in'.**

Securtext® is a dense gypsum plasterboard with an integrated glass fibre mesh which delays burglars from breaking through the partition and gaining entry from dwelling-to-dwelling or from corridors and other communal areas.

**It has passed the rigorous tests required by the Police's Secured by Design standards.**

Securtext® is the first plasterboard-only system certified to LPS 1175 and accredited by the Secured by Design Police Initiative. Siniat Securtext® partitions meet Clause 24 of Secured by Design Homes 2016, helping your project qualify for all Secured by Design award types.



Securtext® is used as one inner layer of a double layer partition to create a secure wall.

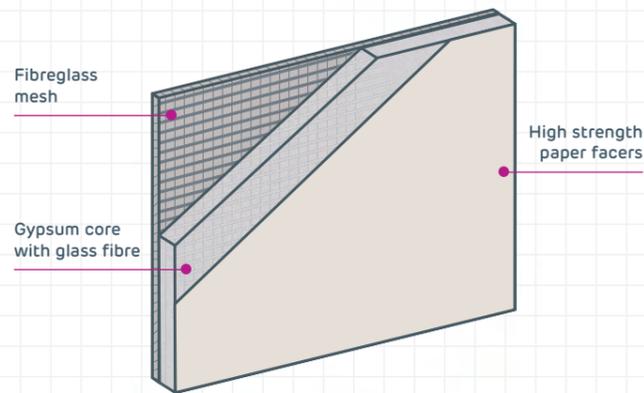
\*Office for National Statistics – Trends in Crime Survey for England and Wales Jan to Dec 2017

## HOW SECURTEX® WORKS

A dense gypsum board reinforced with glass fibre mesh.

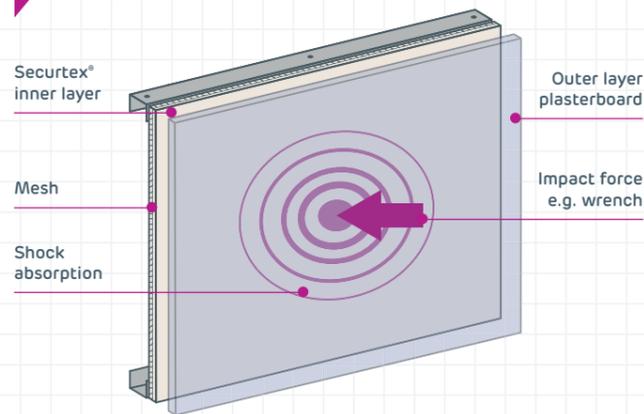
Securtex® plasterboard contains a glass fibre mesh, to bring extra mechanical strength and impact resistance. Combined with a dense gypsum core, it prevents damage by tools typically used by opportunistic burglars, such as screwdrivers or by physical attack, eliminating the need for additional materials such as metal lath or ply in the partition.

Figure 1 Securtex® board



When the outer layer of a Securtex® system is struck, the force transfers into the Securtex® layer. The mesh embedded in Securtex® dissipates the force across the whole area of the board, reducing the force of impact and minimising the damage to the partition.

Figure 2 Shock absorption in a Securtex® system



“Glass mesh has been used to reinforce the core of the plasterboard. The mesh brings extra mechanical strength and impact resistance to protect against attack.”

Pierre Peyron, Industrialisation Engineer for Securtex®

Glass fibre mesh embedded in Securtex® enhances mechanical strength.

## AT RISK AREAS

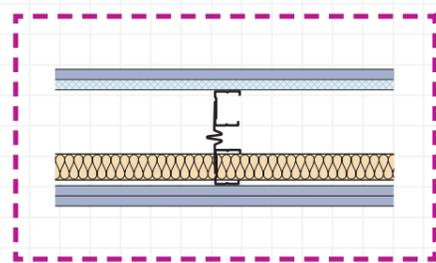
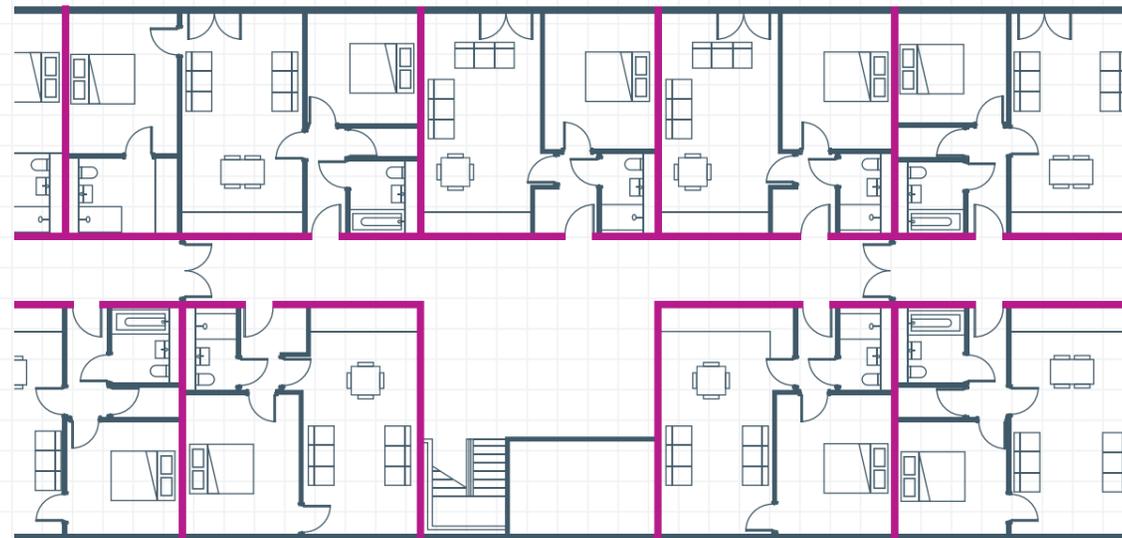
Securtex® is a certified choice and ideal for areas needing reinforcement. Securtex® can be used in partitions to improve security and delay any attempt to breakthrough the partition.

Vulnerable areas where Securtex® can be incorporated are:

- Dwelling to dwelling\*
- Dwelling to corridor\*
- Dwelling to communal space\*
- Public and high traffic areas

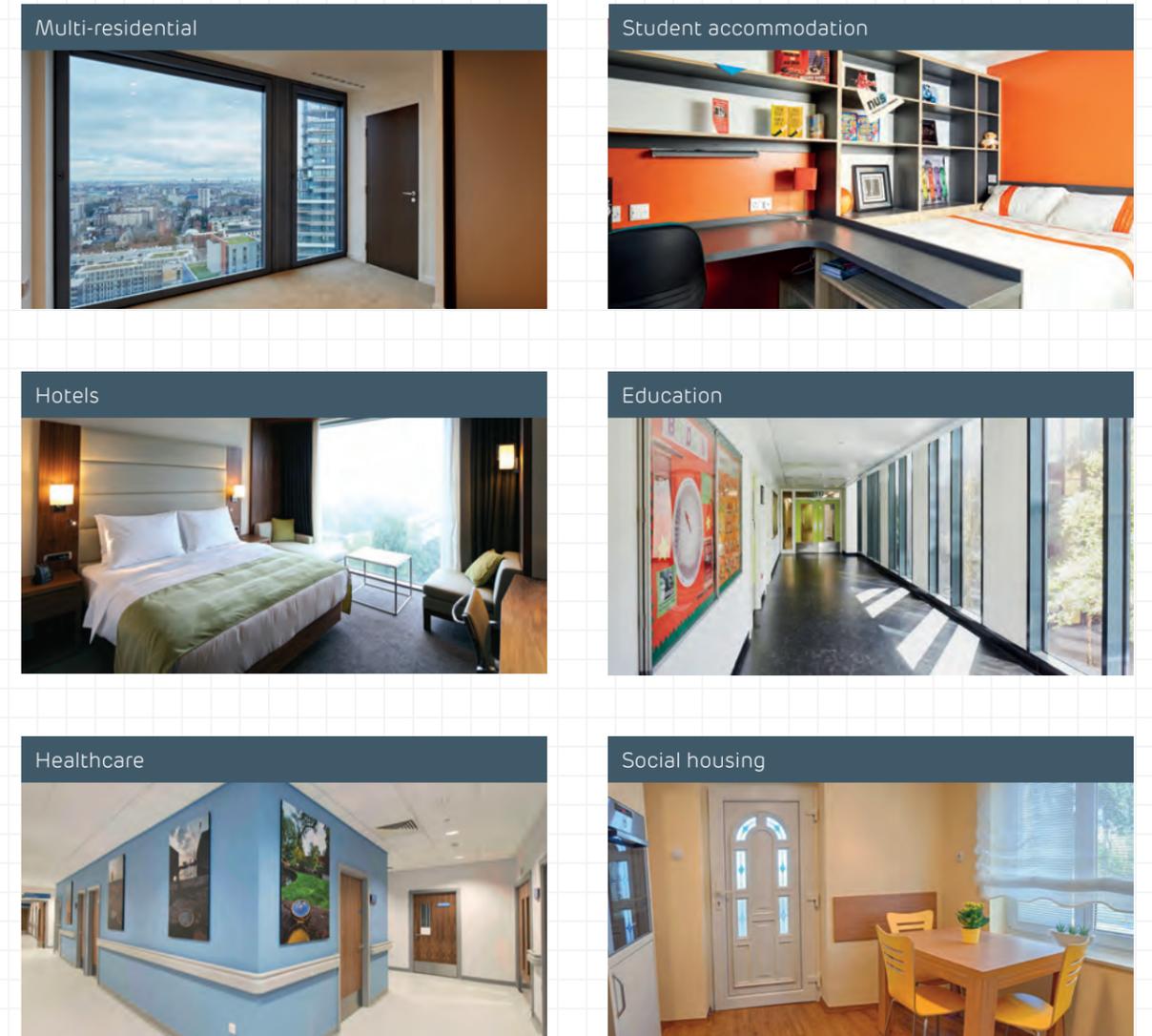
\*Partition requirements under SBD Homes 2016.

Figure 3 Partitions required by Secured by Design to meet LPS 1175 Security Rating 1 (highlighted pink).



RSPX 039 – Achieves the required fire/acoustic/duty & security performances. See system performances on Page 12 & 13 for more details.

Securtex® is particularly suitable for:



## DESIGN BENEFITS

A simpler design with fewer components.

Unlike systems including metal lath or plywood, Securtex® is a simple partition installation which does not need extra components:

- Reducing the risk of incorrect installation and remedial works
- Simplifying any longer term maintenance requirements

Securtex® is an easy addition to your partition. It is used as the base inner layer on one side of a double layer partition. Compatible with a range of outer layer Siniat boards to suit your project needs.

### Fully tested

Securtex® partitions are fully tested to meet your project needs:

- Fire performance up to 120 minutes
- Acoustic performance up to 65 dB
- Heights up to 5.3m
- Severe Duty Partitions

For system options refer to the table on pages 12 & 13.

Peace of mind for building occupiers and owners.

### Fear of crime

Secured by Design principles are proven to reduce the risk of crime. Evidence from newly built developments in West Yorkshire that follow Secured by Design standards shows that they are now up to 75% less likely to be burgled.

In Glasgow, refurbished developments following Secured by Design principles are up to 63% less likely to experience crime.

### Provide durability to the partition

With robustness at its core, Securtex® provides impact resistance to both deliberate and accidental damage. This helps keep maintenance down and reduce ongoing operational costs.

### Peace of Mind

Secured by Design believe they are the world's most successful crime prevention initiative.

In 2005 Secured by Design made it a requirement that to obtain SBD's Police Preferred Specification, products, such as Securtex®, had to be certified by an independent, third-party accreditation service to ensure that all products maintain their quality over time.

Galliard Homes exploring the capabilities of Securtex®.



## DESIGN BENEFITS

A fully tested and warranted, secure rated, partition system.

Until now, specifiers have had limited options for certified and tested secure rated partition systems.

In contrast, Siniat Securtex® partitions are extensively tested and certified to:

- Achieve Secured by Design standards
- Meet LPS 1175, the security standard from the leading industry Loss Prevention Certification Board
- Meet Clause 24 of Secured by Design Homes 2016, helping your project qualify for Secured by Design Awards
- Automatically pass AD-Q1 requirements, streamlining the building control process
- Exceed the requirements for Approved Document Q, subject to 600mm either side of the door
- Comprehensively tested for fire and acoustics

As a result, we can offer a System Lifetime Warranty for Securtex®, subject to terms and conditions\*, giving you the peace of mind that your design will continue to meet your performance needs.



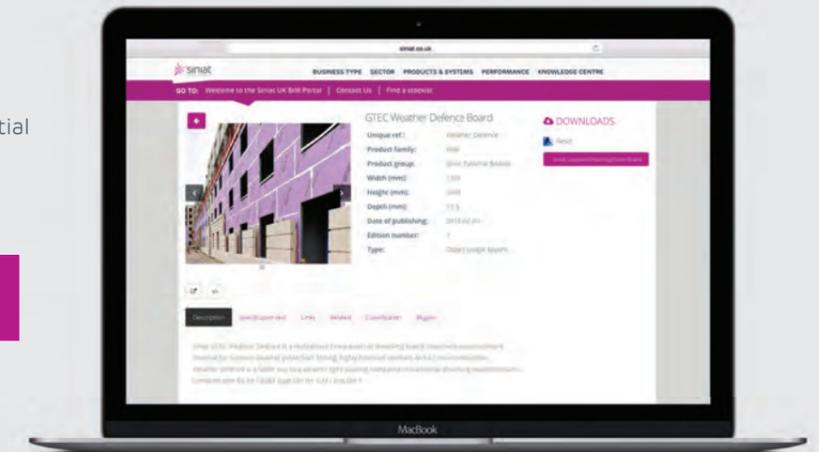
\* Please see [www.siniat.co.uk/knowledge-centre](http://www.siniat.co.uk/knowledge-centre)

BIM Objects and other technical design support for your project

### BIM Objects

We have a suite of BIM objects to help designers and contractors comply with Level 2. This includes dedicated objects, with a substantial amount of information included for you to incorporate into your next BIM project.

Visit [www.siniat.co.uk/en/knowledge-centre/bim](http://www.siniat.co.uk/en/knowledge-centre/bim)



### Bespoke Detailing

If you would like us to do the detail for you, our technical Support Team are Securtex® experts and are happy to help.

0800 145 6033

[technical.siniat@etexbp.co.uk](mailto:technical.siniat@etexbp.co.uk)



# PARTITION SYSTEM PERFORMANCE

Whilst the Securtext® board can provide the security rating, it can also meet the acoustic, fire and other performance needs of your project when combined with a selection of our performance boards.

A double layer partition incorporating a single layer of Siniat Securtext® Board meets the requirements of Clause 24 (secure partition) of Secured by Design Homes 2016 when applied to either side of the partition.

Table 2 Securtext® partitions: summary of system performance.

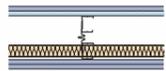
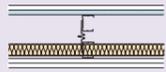
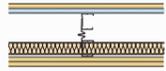
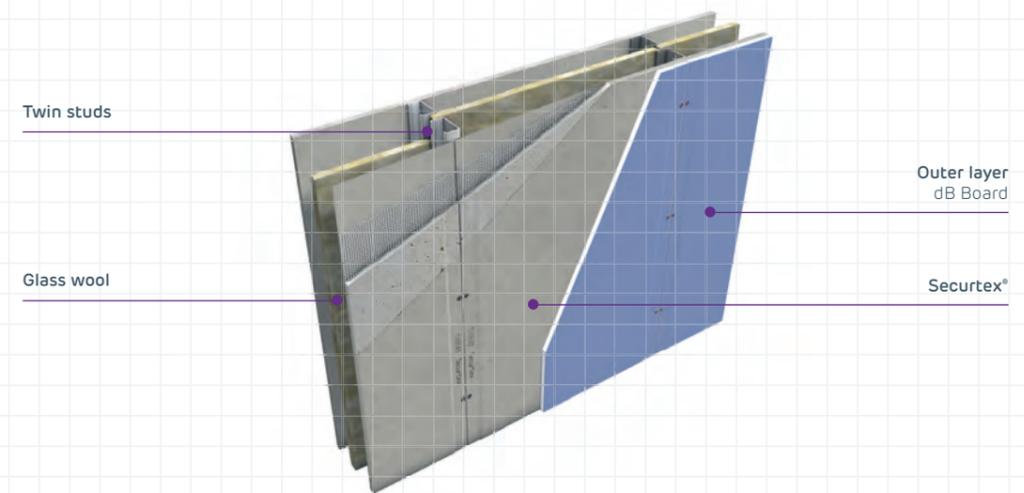
SYSTEM	Outer layer	Inner layer	Stud @ 600mm centres	Insulation (min. 10kg/m <sup>3</sup> )	Fire EN 1364-1 (mins)	Maximum height (m)	Overall thickness (mm)	Acoustic perf. (Rw, Ctr dB)	Acoustic perf. (Rw + Ctr dB)	DUTY RATING	SECURITY RATING	SBD APPROVED	SYSTEM HIGHLIGHT
 RSPX 039	15mm GTEC dB Board	Side A: 15mm Securtext® Board Side B: 15mm GTEC dB Board	Twin rows of CS50/Rx	50mm glass wool	90	5.3	200 250	64, -9 64, -8	55 56	Severe	SR1 – LPS 1175		Cost effective solution where fire performance requirements are less demanding.
 RMPX 039	15mm Megadeco Board	Side A: 15mm Securtext® Board Side B: 15mm Megadeco Board	Twin rows of CS50/Rx	50mm glass wool	120	5.3	200 250	64, -9 64, -8	55 56	Severe	SR1 – LPS 1175		Megadeco's unique pre-sealed surface allows direct decoration, with no need for a separate sealer.
 RUPX 039	15mm Universal Board	Side A: 15mm Securtext® Board Side B: 15mm GTEC Universal Board	Twin rows of CS50/Rx	50mm glass wool	120	5.3	200 250	64, -9 64, -8	55 56	Severe	SR1 – LPS 1175		A skim finish choice with the benefit of 120 mins fire resistance.

Figure 5

System RSPX 039: 90 min fire protection, 64 Rw dB, Severe duty rating, SBD Approved.



# INSTALLATION BENEFITS

Simpler installation to increase productivity.

Securtex® offers multiple benefits over the traditional plywood or metal lath secure partition systems.

### Safer to use on site

Securtex® is easier to cut and shape than metal lath or plywood ensuring better site safety.

### Easier to install

Securtex® boards can be scored and snapped helping to ensure easier and faster installations than other secure solutions.

### Less complexity

Fewer materials on site reduces the potential for mistakes or time delays, helping reduce costly defects which will need rectifying in the future.

#### Securtex® ✓



- Fewer components
- Score & snap
- Faster to install than ply & metal\*
- Safer to install, no power tools or sharp edges

#### Expanded metal ✗



- Cut with power tools
- Hard to cut penetrations
- Prone to rattling vibration
- Significant safety risk from sharp edges
- Lack of fire and acoustic test data

#### Plywood ✗



- Cut with power tools
- Hard to cut penetrations
- Increased thickness & weight of partition
- No fire and acoustic test data

\* In internal tests.



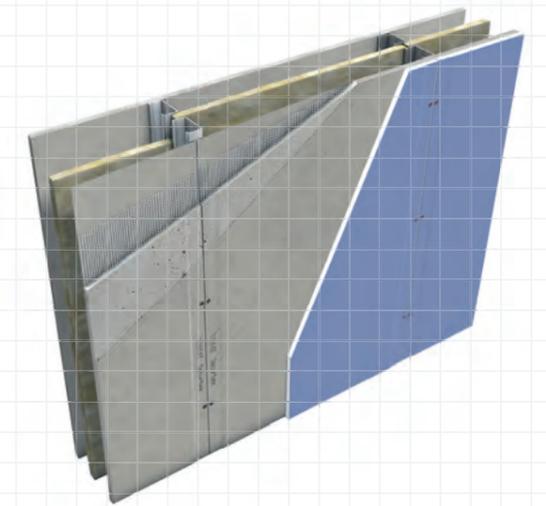


## INSTALLATION GUIDE

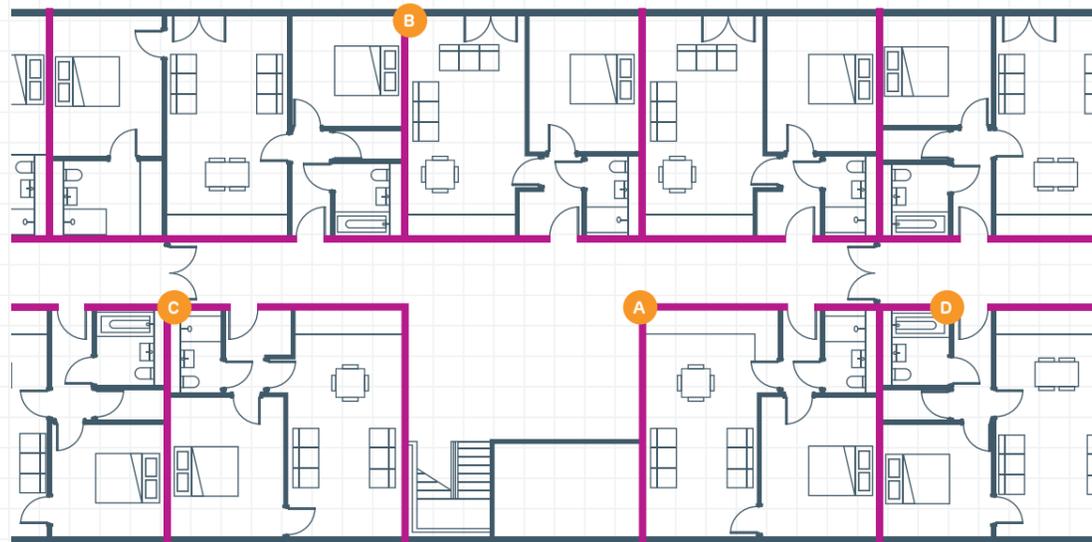
Securtex® board is installed in the same way as other plasterboards.

- **Stage 1:** Prepare an appropriate metal/timber stud frame which provides fixing point for boards.
- **Stage 2:** Measure required board length, ensuring any deflection requirements are accounted for.
- **Stage 3:** 15mm Securtex® boards should be cut on the back face to give best results. Mark 15mm Securtex® boards in preparation for cutting process, score the boards using a standard retractable knife and snap in traditional method.
- **Stage 4:** Fix 15mm Securtex® boards to framework using 35mm GTEC Performance Self Tapping Screws, at 300mm centres on both inner layer and outer layer.
- **Stage 5:** Fix outer board layer with appropriate GTEC Board as required.
- **Stage 6:** Vertical and horizontal board joints to be staggered between layers and opposing sides.
- **Stage 7:** Horizontal board joints on outer layers to be reinforced with GTEC FS50/Rx Flat Strap.
- **Stage 8:** Seal perimeter of partition with GTEC Intumescent Acoustic Sealant to maintain fire/acoustic performance.
- **Stage 9:** Finish partition with skim plaster or tape and joint (as required). Use Megadeco board and Deco Joint Filler and Deco Joint Cement to eliminate need for sealing prior to decoration.

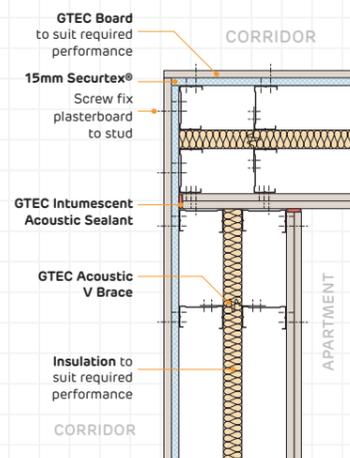
Figure 6 Typical Securtex® separating wall partition.



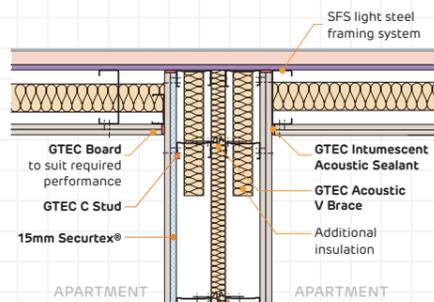
Typical floor plan of a residential building with key junctions highlighted.



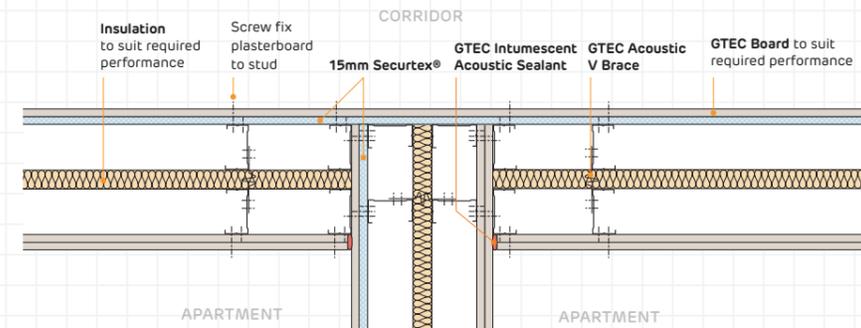
**A** Party wall corner



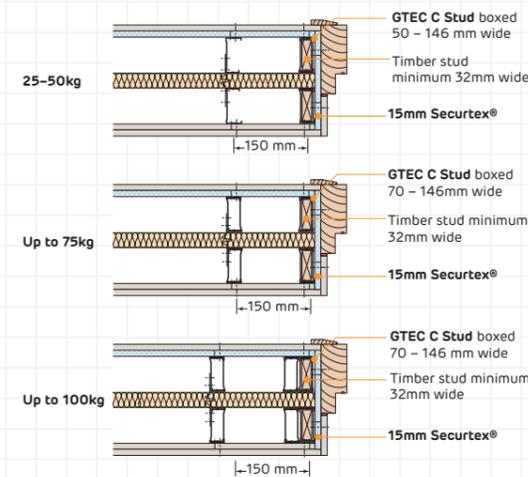
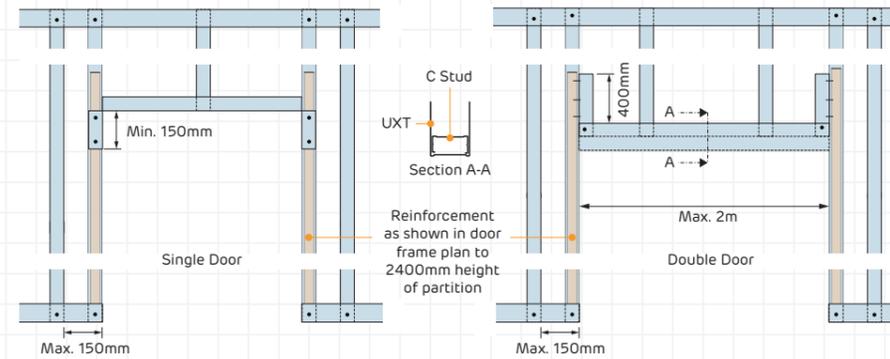
**B** Party wall junction with external SFS



**C** Party wall acoustic T-junction



**D** Apartment entrance door details



## REGULATIONS EXPLAINED

### Approved Document Q and Secured by Design Standards

#### Approved Document Q

Approved Document Q (AD-Q) was introduced in 2015 to address the issue of security in new build construction.

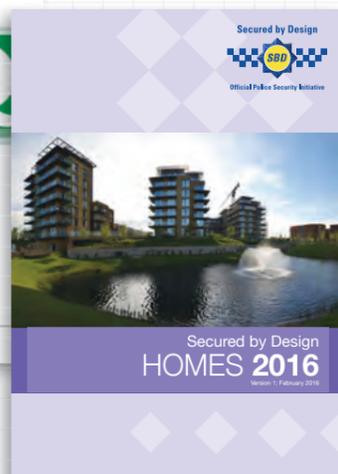
It sets out the requirement that lightweight partitions containing a secure door set must include a resilient layer around the door set to the full height of the door and 600mm either side. This regulation was introduced to reduce the risk of bypassing the secure door set through the partition instead and accessing the locking system to gain entry.

#### Secured by Design

Secured by Design (SBD) takes security one step further. Focusing on designing out crime, it stipulates that all partition systems containing secure door sets, separating dwellings or separating dwellings and communal spaces/corridors must be certified to a security standard such as LPS 1175, Security Rating 1.

As a minimum, all new build residential units must comply with AD-Q1, ensuring that secure door sets are adequately protected.

However, if the project also gains a Secured by Design award – it automatically passes requirement AD-Q1, streamlining the building control process.



# REGULATIONS EXPLAINED

## LPS 1175 Security Ratings Explained.

The Loss Prevention Standard (LPS) 1175 is the result of many years of work by the Loss Prevention Certification Board (LPCB), government, insurers and police, and has rapidly become a core element of physical security specification.

The LPS standard comprises a number of security ratings with test requirements of ascending intensity. These are measured in terms of attack tools and time available to the attacker, and enables specifiers to select products according to the risks that they and their property face.

LPS 1175 Security Ratings are shown in Table 1. They are measured by a series of manual tests to assess the intruder resistance of building components – including partitioning systems. SR1 is required by Secured by Design Homes.



Table 1 LPS 1175 Security Ratings

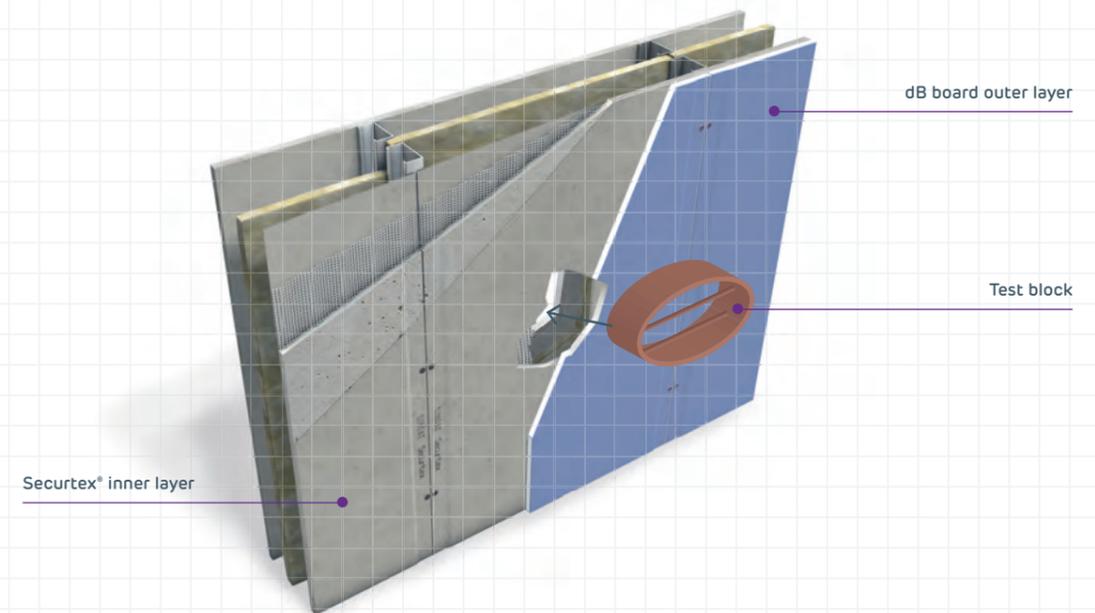
SECURITY RATING	DESCRIPTION	MAX. WORKING TIME (MINS)	TOOL SET
SR1	Opportunistic attack by bodily force using minimal tools.	1	Cable cutter, glass cutter, wrench, hook, knife, tyre lever, pliers, punch, kick, screwdriver, scribe, spanner and more.
SR2	More determined opportunist attack with tools of a higher mechanical advantage.	3	Above + bolt cutter, claw hammer, hand drill, hacksaw, shears, long screwdriver and more.
SR3	Deliberate forced entry of protected premises using bodily force and a selection of attack options.	5	Above + axe, crowbar, chisels, gas torch, scissor jack, cordless drill, pad saw and more.
SR4	Experienced attempts at forced entry with higher tool levels.	10	Above + grinder, circular saw, felling axe, sledgehammer and more.

The methods used to expose the weakest elements of the partitioning system include:

- Physical attack with bodily force, tyre levers and screwdrivers
- Attempts to delaminate panels with knives and levers
- Attempts to overcome fixings using screwdrivers

A system passes if it prevents the attacker from creating an opening large enough for a 400 x 225mm elliptical test block to gain entry, simulating whether a person could gain entry through the system.

Figure 4 400 x 225mm test block simulating human entry through a lightweight partition.



## SECURED BY DESIGN PRINCIPLES: REDUCING CRIME THROUGH DESIGN

In order to achieve Secured by Design status, Securtext® had to adhere to rigorous test standards required by the police.

Secured by Design (SBD) is the National Police Crime Prevention Initiative who seek to achieve sustainable reductions in crime through design and other approaches to help people live in a safer society. SBD believe they are the world's most successful crime prevention initiative.

SBD works in partnership with National and Local Government, British and European standards authorities, trade associations, the construction industry, manufacturers and many other organisations to reduce crime and the fear of crime by incorporating proven crime prevention techniques into the built environment.

To obtain this accreditation, Securtext® had to be certified by an independent, third-party UK Accreditation Service (UKAS) certification authority. This standard involved initial testing and will incorporate regular re-testing and production audits to ensure standards are maintained over time, as opposed to being tested only once.

SBD accreditation also ensures compliance with the Building Regulations – Approved Document Q (Security), which became effective in England in October 2015.

### Secured by Design: An initiative that works

SBD believes that certification of products plays an important part in the impressive reductions in burglary rates. Since SBD was established in 1989, in response to a rise in burglary due to housing demand taking precedence over security considerations during the '70s and '80s.

Tens of thousands of residents have moved into new or refurbished homes designed to SBD crime prevention standards and continue to benefit from SBD's high standards of security.

The importance of Secured by Design crime prevention work has also been recognised by the Home Office. Their Modern Crime Prevention Strategy (March 2016) highlights the importance of removing or designing out opportunities to offend. It states: "We are working with the Police to maintain the 'Secured by Design' brand, which is an important source of advice on how design of, for example, housing estates or shopping precincts, can prevent crime and anti-social behaviour."

### Secured by Design



Official Police Security Initiative

the Siniat website. For archived versions please contact technical services.

## IMPORTANT INFORMATION

Building work with Securtex® should be planned, designed and managed in accordance with Construction Design and Management Regulations, 2015 (CDM 2015). Ensure all related hazards are identified and controlled.

### Handling and Storage

#### Handling

Securtex® is supplied on a wooden pallet. Packs should be moved using a fork lift truck or hydraulic trolley. Care should be taken to ensure that the machinery is safely capable of such movements and that the operator is trained and competent.

#### Storage

Pallets should be stored on a flat surface, in a dry, covered, frostproof and well ventilated area.

### Personal protection

#### Respiratory

As with most types of nuisance dust, excessive inhalation of dust may cause irritation of the respiratory system. Exposure to dust at high concentrations or over a prolonged period of time may lead to lung disease (silicosis) and an increased risk of lung cancer.

#### Skin contact

Prolonged contact may irritate sensitive skin.

#### Eye contact

Eye contact with dust may lead to transient eye irritation or inflammation.

Table 3 Technical characteristics.

Type	Description	Performance	Units
General	Density	<b>900</b>	kg/m <sup>3</sup>
	Mass	<b>13.5</b>	kg/m <sup>2</sup>
Mechanical properties	Breaking load longitudinal direction according to BS EN 520	<b>&gt;870</b>	N
	Breaking load transverse direction according to BS EN 520	<b>&gt;360</b>	N
Fire	Reaction to fire – Euro class according to BS EN 13501-1	<b>A2-s1, d0</b>	
Thermal	Thermal conductivity according to BS EN 12524	<b>0.25</b>	W/mK
	Thermal resistance R	<b>0.06</b>	m <sup>2</sup> .K/W
Permeability	Water vapour resistance factor (μ) according to BS EN 12524	<b>10</b>	
Impact	Impact resistance to BS 5234-2 (double layer system)	<b>Severe duty</b>	
Security	Security rating to LPS 1175 (double layer system)	<b>SR1</b>	

Table 4 Ordering details.

Article name	Dimensions (mm)			Code SAP	Packaging	Nominal weight (pallet)	m <sup>2</sup> /pallet
	Thickness	Width	Length				
Securtex® SE15 1200*2400*40DB/P	15	1200	2400	159006	40 boards per pallet	1.56 T	115.2
Securtex® SE15 1200*2700*40DB/P			2700	159007		1.75 T	129.6
Securtex® SE15 1200*3000*40DB/P			3000	159008		1.95 T	144

### Lifetime System Warranty – Peace of Mind

Siniat products and components are rigorously tested together. By completing this testing we are able to guarantee the technical performance of our systems throughout the project life cycle.

Our systems, when built with the correct components and materials, and installed by qualified professionals in accordance with our latest literature and relevant standards, offer our invaluable Siniat Lifetime System Warranty. In the unlikely event of failure, provided the system is unaltered, as originally designed and built, Siniat will reinstate the system to its originally specified performance level – giving you and your client peace of mind.





To see how Securtext<sup>®</sup> can benefit your next project, call our Technical Services team on **0800 145 6033**.

**GB Orderline**

For placing orders, delivery enquiries, local stockists etc.

 **0800 373636**

 **01275 377700**

 **orderline@etexbp.co.uk**

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 **0800 145 6033 or 01275 377789**

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