



CRIME IMPACT STATEMENT

Land bound by Oldham Road, Marshall Street,
Chadderton Street, and Bendix Street, Manchester

117 No. Apartments & 147sq m Commercial
Floorspace

Greater Manchester Police

FOR: MULBURY HOMES LIMITED

design**for**security

VERSION B: 4th December 2019

Land bounded by Oldham Road, Marshall Street, Chadderton Street and Bendix. Manchester

2016/0374/CIS/01

EXECUTIVE SUMMARY

Recommendations made

This development has been assessed against the principles of 'Crime Prevention Through Environmental Design' (CPTED - <http://designforsecurity.org/about/crime-prevention-through-environmental-design/>), in order to reduce the opportunities for crime and the fear of crime. The following areas have been identified as a concern and should be addressed (see section 3.3 for more details).

- Graffiti is prevalent in this area and measures should be taken to reduce the potential for the building to be targeted i.e. by treating blank facades with an anti-graffiti treatment and the use of lighting to all elevations.

Additionally, there are a number of recommendations made in section 3.3 of this report which would enhance the security of the development, and it is highly recommended that these are considered. It is also recommended that the development is built to Secured by Design standards.



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1 Visual Audit

The proposed development site can be seen on the adjacent map, edged in red. The site is located in the New Cross area on the periphery of Manchester city centre – close to the areas of Ancoats and Northern Quarter.

The site is bound by Marshall Street to the North, Oldham Road to the East, Addington Street to the South, and Chadderton Street to the West. The site is presently occupied by a three storey commercial unit and a surface car park.

Developments in the local area include some small commercial developments and a number of small public surface parking areas. A number of sites in the local New Cross area have planning permission for residential development. The area is in close proximity to Great Ancoats Street which has a large amount of new residential developments.



2 Crime Statistics & Analysis

All data below is based on crimes recorded between 1st August 2017 to 31st July 2018.

2.1 Crime Summary

Recorded Crime within 500m of Site									
Domestic Burglary	Non-Domestic Burglary	Criminal Damage	Less Serious Wounding	Theft	Robbery	Serious Wounding	Theft from Motor Vehicle	Theft of Motor Vehicle	Bicycle Theft
50	156	207	1050	412	97	23	159	40	88

- 2.1.1 Overall the level of crime recorded in this area over the last 12 months has been above average for Manchester, high for Greater Manchester and very high for England and Wales. The highest rate above average was for vehicle crimes, with the most common form of vehicle crime being theft from a motor vehicle and criminal damage to a vehicle. Theft from motor vehicle offences are particularly concentrated in the car parks directly north west of the proposed site.

2.2 Common Local M.O.s (Modus Operandi)

- 2.2.1 Forcing open of secured doors, in particular apartment entrance doors, using bodily force or implements.

Possible Solution - Apartment entrance doors should be certified to BS PAS 24 (or similar). Communal entrance doors should operate on a strict access control system, with an audio/visual intercom system for visitors.

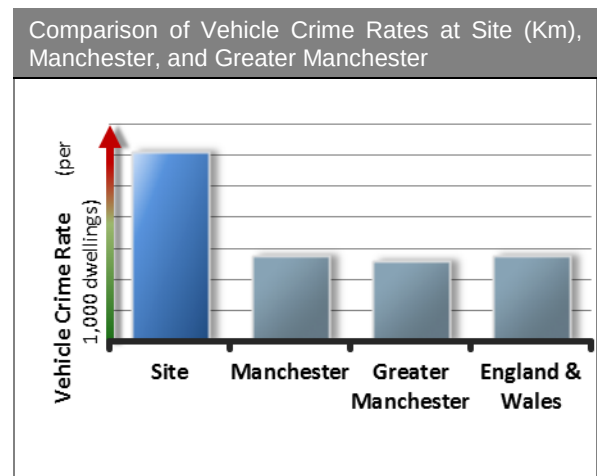
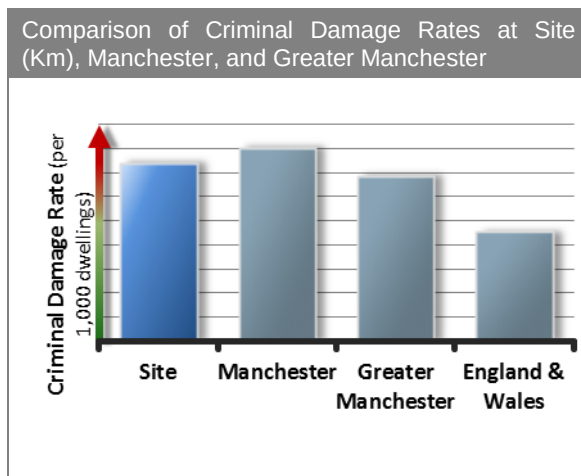
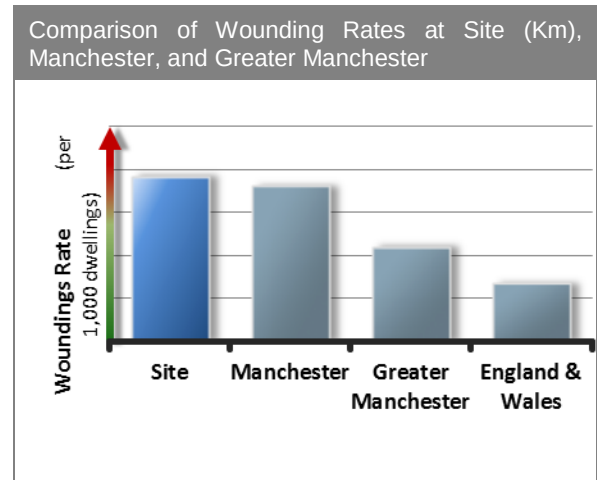
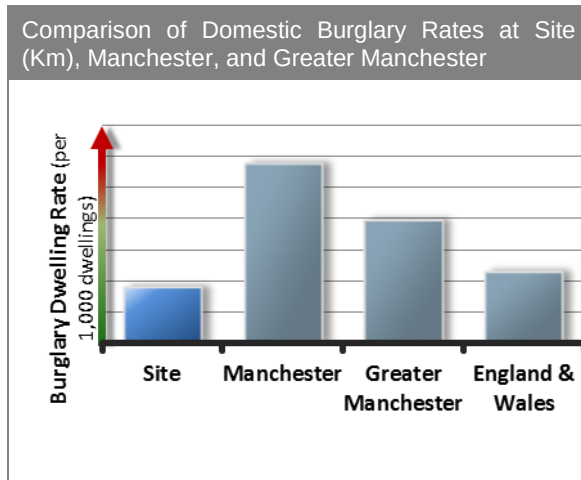
2.3 Risk Factors

The typical security risks for a development of this nature are:

- Domestic burglary
- Theft from gardens, sheds or garages
- Criminal damage to dwellings and vehicles
- Theft of, or from, vehicles
- Bogus callers and distraction burglary
- Anti-social behaviour
- Neighbour disputes
- Theft and criminal damage during the construction period
- Unauthorised access to private spaces
- Poor maintenance of access control systems

2.4 Crime Rate Comparison

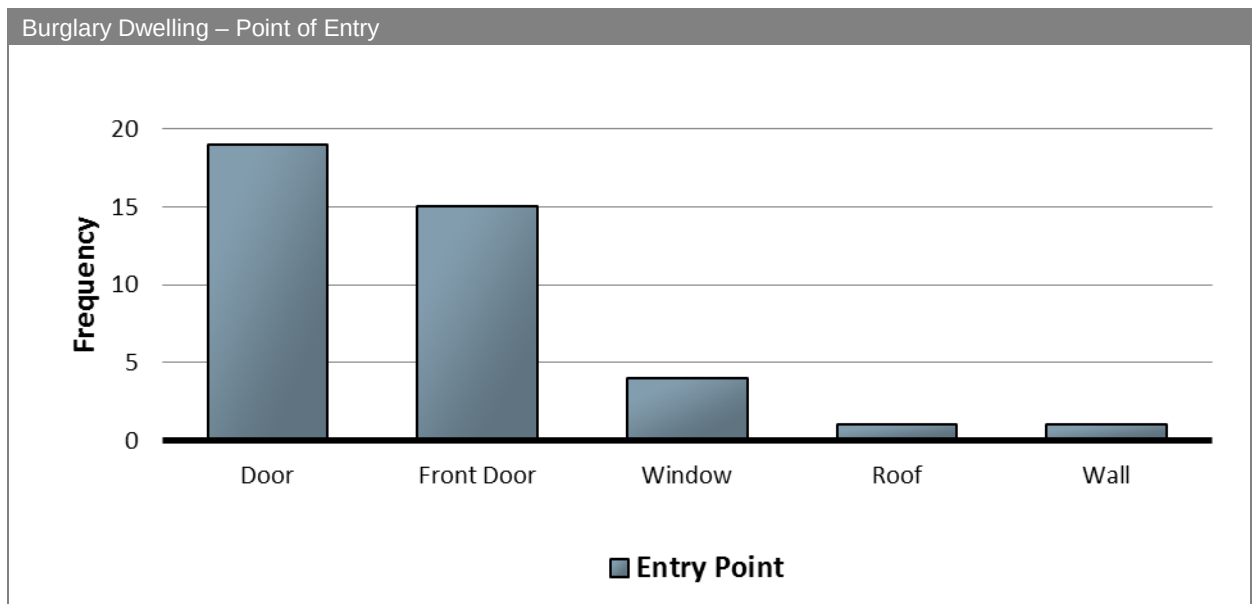
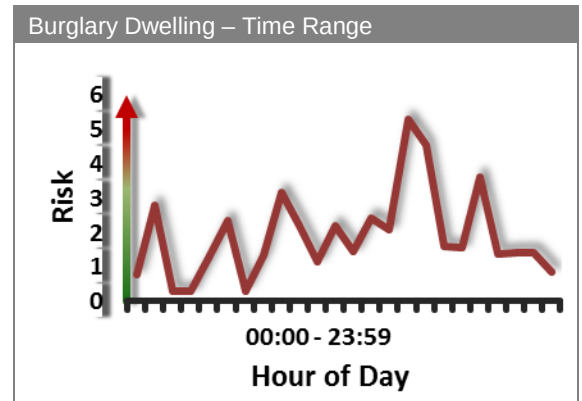
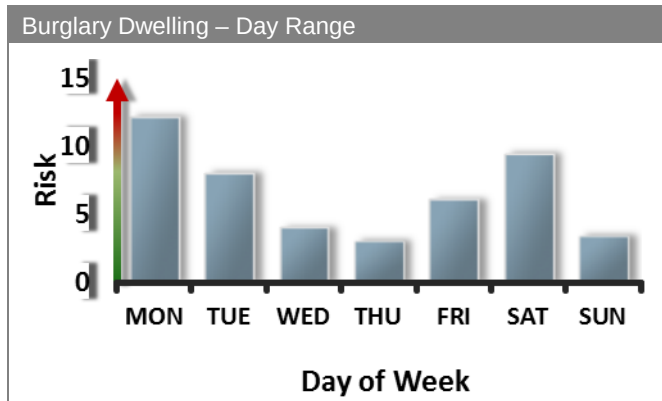
The rates below relates to crime committed within 500m of the site.



- 2.4.1 The rate of domestic burglaries per 1000 dwellings is **69% lower** than Manchester as a whole, **55% lower** than Greater Manchester and **23% lower** than England & Wales.
- 2.4.2 The rate of woundings per 1000 dwellings is **6% higher** than Manchester as a whole, **76% higher** than Greater Manchester and **188% higher** than England & Wales.
- 2.4.3 The rate of incidents of criminal damage per 1000 dwellings is **8% lower** than Manchester as a whole, **8% higher** than Greater Manchester and **63% higher** than England & Wales.
- 2.4.4 The rate of incidents of vehicle crime per 1000 dwellings is **123% higher** than Manchester as a whole, **137% higher** than Greater Manchester and **123% higher** than England & Wales.

2.5 Domestic Burglary: Risk Analysis

The data below relates to domestic burglaries committed within 500m of the site.



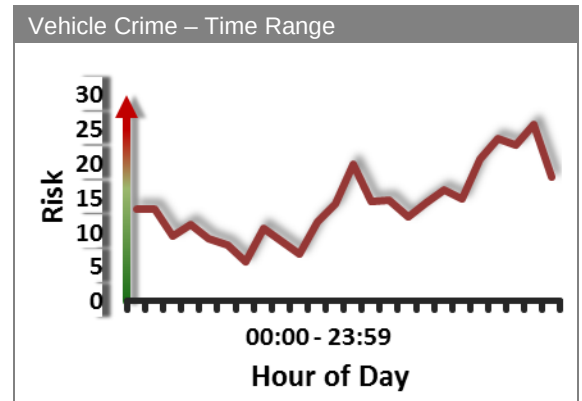
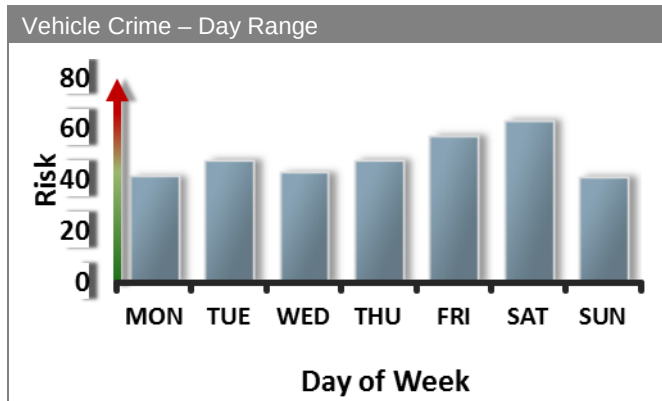
2.5.1 **Day/Time Range:** The risk of burglary is highest in the afternoon in particular on Mondays and Saturdays.

2.5.2 **Point of Entry:** In the local area the following entry points and MO's have been utilised most frequently:

- Forcing open of secured doors, in particular front doors, using bodily force or implements.
- Exploitation of insecure doors, in particular front doors, to gain entry to the premises.

2.6 Vehicle Crime: Risk Analysis

The data below relates to vehicle crime committed within 500m of the site.



- 2.6.1 **Day/Time Range:** The risk of vehicle crime is highest in the evening, in particular on Fridays and Saturdays.
- 2.6.2 **Crime Location:** The majority (58%) of vehicle crimes target vehicles that are parked on the street. Offenders are more likely to be targeting vehicles that are parked on the street as they are easier to access, reducing the likelihood of offenders being witnessed. Additionally, there are likely to be more vehicles parked on the street than in other areas, offering offenders a greater opportunity to commit vehicle crimes.

3 Layout Appraisal

3.1 Proposed development

- 3.1.1 The proposed development is of 117 no. apartments with 146sq m commercial floor space at ground floor. There will be 6 no. ground floor apartments with entrances taken from the street rather than the internal circulation core.

3.2 Positive Aspects of the Proposal

The following proposed features would make a positive contribution to the prevention of crime and fear of crime.

- 3.2.1 The redevelopment of this site as apartments will bring additional activity and vitality to the area. The retail element of the proposals will attract people to the site during the day when it might otherwise be quiet in the local area.
- 3.2.2 The proposed development, and particularly the ground floor apartments will provide active frontages to Addington Street and Bendix Street which will help to enliven the street scene and help to provide useful natural surveillance of the area. The commercial unit at ground floor will provide an active frontage to Oldham Road.
- 3.2.3 The reception desks overlook the main entrance into the building allowing staff to vet those entering the building.
- 3.2.4 There are no recesses in the building footprint that could provide potential hiding places or loitering places where an offender could commit crime without fear of detection.
- 3.2.5 The main entrance is well located on the prominent corner of the development on the junction of Oldham Road and Addington Street and will be clearly visible from the pedestrian street and the public highways.
- 3.2.6 The commercial unit and the residential aspects of the building are self-contained.

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- 3.2.7 The reception desk is positioned where it overlooked the main communal entrance, allowing staff to vet those visiting the building.

3.3 Changes Needed and Recommendations

The following points have been identified for further consideration and would need to be addressed for Design for Security to support the proposed scheme.

- 3.3.1 External communal access doors must be compliant with and certified to BS PAS 24, STS202, or LPS 1175 SR2, LPS 2081 SRA, including a lock capable of being operated via an electronic access control system. The communal entrance doors should be self-closing and secured with a multi-point electronic lock and capable of being operated via an electronic access control system, these features should be permitted under the scope of the certification. Access in to the building should be controlled by a video entry phone system (with the picture viewable on the phone unit, rather than on a television set) so that residents can vet visitors before allowing them access in to the building. There should be no unrestricted trade access in to the building.
- 3.3.2 On apartment buildings of the size proposed a secure postal lobby should be provided, allowing postal workers to deliver mail without having unrestricted access through the building. There should be a secure door between the postal lobby and circulation cores. Ideally, residents should only be able to access their floor either by lift or stair core.
- 3.3.3 Main entrance doors to ground floor apartments should be fitted with a split spindle or fixed external handle to prevent these doors being left insecure if left unlocked. These apartment doors should be illuminated with dusk-til-dawn lighting.
- 3.3.4 Lighting to the underside of the building overhang of the apartment building should be illuminated to prevent any misuse of this space, which could potentially generate congregation.
- 3.3.5 All building elevations and doorways should be illuminated to deter antisocial or criminal activity.
- 3.3.6 Any blank facades should be treated with an anti-graffiti coating to a height of 2000mm, so that any graffiti can be easily cleaned.
- 3.3.7 The proposed commercial units should be covered with monitored alarm systems.

4 Physical Security (Residential)

The following checklist forms the physical security requirements for this scheme to achieve Secured by Design accreditation.

4.1 Doors

- ☐ External communal access doors must be compliant with and certified to STS201, or LPS 1175 SR2, including a lock capable of being operated via an electronic access control system. The communal entrance doors should be self-closing and secured with a multi-point electronic lock and capable of being operated via an electronic access control system, these features should be permitted under the scope of the certification. Access in to the build should be controlled by a video entry phone system (with the picture viewable on the phone unit, rather than on a television set) so that residents can vet visitors before allowing them access in to the building. There should be no unrestricted trade access in to the building.
- ☐ To prevent tailgating there should be two certified access controlled doors (certified to STS201, or LPS 1175 SR2) between publically accessible space and apartment entrance doors.
- ☐ Where secure postal lobbies are to be created, the secondary communal door must be to the same specification as the outer door - certified to BS PAS 24, STS201, or LPS 1175 SR2, including a lock capable of being operated via an electronic access control system.
- ☐ Apartment entrance doors must be compliant with and certified to BS PAS 24, STS201, or LPS 1175 SR2. It is advised that these doors do not have fixed sidelights, and are provided with door viewers instead. Chain limiters are recommended but not essential. Construction of internal walls surrounding internal doors should be compliant with part Q of building regulations.

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- ☐ External main entrance doors to ground floor apartment's doors must be compliant with and certified to BS PAS 24, STS201, or LPS 1175 SR2, and fitted with a split spindle or fixed external handle.
 - ☐ Letterboxes within doors must be located a minimum of 400mm away from internal handle and locking hardware.
 - ☐ External escape-only doors (as with external doors in general) should be certified to BS PAS 24, or LPS 1175 SR2. It is crucial that the door ironmongery is permitted for use on these doors under the security certification of the product.
 - ☐ Windows
 - ☐ Windows must be compliant with and certified to BS PAS 24.
 - ☐ Ground floor and easily accessible opening lights (escape requirements permitting) must be key-lockable, and have fixed/lockable opening restrictors (not releasable from the outside) limited to 100mm.

4.2 Glazing

- ☐ Glazing to a height of 2400mm (or if otherwise accessible) must incorporate at least one pane of glass rated as P1A under EN 356. The remaining pane in a double glazed unit may be toughened glass.

4.3 Alarms

- ☐ If an alarm is installed then it should comply with either:
 - BS EN 50131 and PD 6662 for wired systems
 - BS 6799 for wireless systems
- ☐ If an alarm is installed, it should be linked to contacts on all external doors, (including internal doors in to garages) and PIR detectors should cover all ground floor rooms with windows.
- ☐ If an alarm is not to be provided, there should be a 13amp, non-switched fuse spur to allow future residents to connect an alarm.

4.4 Access Control

- ☐ Access control systems should be operable by swipe card or fob, and not numeric key pads. The following areas/doors should operate on access control:
 - External doors
 - Doors into circulation cores
 - Internal and external doors in to the car parking area

5 Physical Security (Retail)

5.1 Doors

- ☐ External doors must be compliant with and certified to STS202, or LPS 1175 SR2. Staff should be given flexibility over permitting access into the building at different times of the day and night. The main sliding entrance doors should be capable of being controlled by reception staff if required (e.g. at night) to prevent unauthorised access or nuisance/antisocial behaviour in/around the entrance lobby.
- ☐ External escape-only doors (as with external doors in general) should be certified to BS PAS 24, or LPS 1175 SR2. It is crucial that the door ironmongery is permitted for use on these doors under the security certification of the product.

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- ☐ All doors/frames to staff areas/stores/offices should be robust/solid core (minimum 44mm thick) and fitted with auditable access controls. Staff should only be allowed access to areas required for their work. Keys/passes should only be carried if required for duties and should be accounted for at all times.

5.2 Windows and Shutters

- ☐ Windows must be compliant with and certified to BS 7950.
- ☐ Ground floor and easily accessible opening lights (escape requirements permitting) must be key-lockable, and have fixed/lockable opening restrictors (not releasable from the outside) limited to 100mm.
- ☐ Any curtain walling panels should include laminated glazing and should be securely fixed directly to the floor slabs where possible, rather than to perimeter columns.
- ☐ Shutters must be tested and certified to LPS 1175 SR2, and installed in accordance with manufacturer's instructions.

5.3 Glazing

- ☐ Glazing to a height of 2400mm (or if otherwise accessible) must incorporate at least one pane of glass with a 1.5mm PVB interlayer (e.g. 7.5mm laminated glass), or a glass rated as P4A under EN 356. The remaining pane in a double glazed unit may be toughened glass.

5.4 Alarms

- ☐ If an alarm is installed, it should be linked to contacts on all external doors and PIR detectors should cover all ground floor rooms with windows.
- ☐ If an alarm is not to be provided, there should be an infrastructure in place to allow for the easy installation of an alarm system (conduits and power points).
- ☐ It is strongly recommended that any alarm system is monitored, with a response facility (be that an alert to the key holder, or to a security patrol team).

5.5 Access Control

- ☐ Access control systems should be operable by swipe card or fob, and not numeric key pads. The following areas/doors should operate on access control:
 - External doors
 - Areas restricted to staff

6 Management & Maintenance

- 6.1.1 The upkeep of a development over its lifetime can be crucial to the level of security and safety within. Aspects of a development, which are left to deteriorate, have the potential to attract further crime – a process known as 'the broken window theory'. A maintenance plan should be drawn up to address issues such as:
 - Litter removal
 - Repair to communal areas (lighting, signage, access controls)
 - Trimming and pruning to shrubs and trees
- 6.1.2 Any public open space or amenity areas not under the ownership of residents should be subject to an effective maintenance contract. This should ensure that all damage is rectified in a timely manner, and that any such space will not be detrimental to its surroundings.

7 Construction

- 7.1.1 Untidy sites and their surroundings can be littered with debris accessible to vandals who often use loose materials as missiles to commit crime. The client should take measures appropriate to secure their site during construction, and control pedestrian and vehicular access in to and out of the site curtilage. It is also recommended that the contractor on this scheme is a member of the 'Considerate Constructors Scheme', who has committed to be a considerate and good neighbour, as well as clean, respectful, safe, environmentally conscious, responsible and accountable.
- 7.1.2 Site security contractors should be SIA (Security Industry Authority) approved to ensure professional standards are adhered to (please see <http://www.sia.homeoffice.gov.uk/pages/acs-intro.aspx> for more details).

8 Useful References

8.1 Secured by Design (SBD)

- 8.1.1 Secured by Design focuses on crime prevention at the design, layout and construction stages of homes and commercial premises and promotes the use of security standards for a wide range of applications and products. To apply for Secured by Design certification for your development, visit our online application form at: <http://www.designforsecurity.org/secured-by-design/sbd-accreditation/>

A Contact register

Date	Contact With	Summary of Contact
15/08/2018	Rachel Hopkins	CIS application received
04/12/2019	Rachel Hopkins	Revised plans received

B CIS Version History

Version	Revisions Made	Date
A		
B	Minor revisions	04/12/2019

C Glossary

Burglary Resistance Standards

BS 7950, 1997

Specification for enhanced security performance of casement and tilt/turn windows.

BS 4873, 2005: Specification for aluminium windows.

BS 7412, 2007: Specification for plastic windows made from PVC-U extruded hollow profiles.

BS 644-1, 2003: Wood windows. Specification for factory assembled windows - various types.

BWF:TWAS: Timber window accreditation scheme.

BS 6510, 2005: Specification for steel windows, sills, window boards & doors.

BS PAS 23-1, 1999

General performance requirements for door assemblies.

A performance standard for door sets, which certifies that a particular door set is fit for purpose. Door products must also have BS PAS 24 certification.

BS PAS 24-1, 2012

General security performance requirements for door assemblies.

An attack test standard for door sets, which certifies that a particular door, frame, lock and hardware set has withstood a series of physical tests. This is the minimum police requirement for Secured by Design dwellings, and is also applicable to French/double doors, and sliding doors.

ENV 1627-30 (Security Ratings WK1 to WK6)

Windows, doors, shutters - Burglar resistance Requirements and classification

The classification system used in ENV 1627-30 is aimed at the commercial market and is based on five elements:

- Resistance of glazing
- Performance of hardware
- Resistance to static loading
- Resistance to dynamic loading
- Burglary resistance by manual intervention

LPS 1175 (Security Ratings 1 to 6)

Specification for testing and classifying the burglary resistance of building components

This includes doors, shutters, garage doors and grilles typically for commercial premises and higher risk domestic premises and is acceptable to the ABI and the Police. The standard has 6 levels, 6 being the highest, with levels 1 and 2 equivalent in many respects to BS PAS 24 and BS 7950.

STS01 Issue 4: 2012

Enhanced security requirements for doorsets and door assemblies for dwellings to satisfy the requirements of PAS23 and PAS24

As the title suggests this is an equivalent test standard to PAS 24, incorporating PAS 23 (fitness for purpose), published by Warrington Certification.

STS02 Issue 3: 2011

Requirements for burglary resistance of construction products including hinged, pivoted, folding or sliding doorsets, windows, curtain walling, security grilles, garage doors and shutters.

This specifies a broadly similar range of attack tools and times to those specified at the lower levels of LPS1175. However, STS02 does not extend to cover the higher levels of risk addressed within LPS1175 and the attack methods used differ.

EN 356, 2000 (Ratings P1A to P8A)

Glass in building. Security glazing. Testing and classification of resistance against manual attack.

A performance standard for manual attacks on glazing. P2A is comparable to the performance of a 6.8mm laminated glass, and P4A to that of a 9.5mm laminated glass.

Commonly Used Acronyms

CIT

Cash in transit (refers to vehicles, personnel and routines).

CPTED

Crime Prevention Through Environmental Design
(Learn more at www.designforsecurity.org/about/cpted)

CRS

Crime Reduction Specialist. Sometimes known as CPO (Crime Prevention Officer)

INPT

Integrated Neighbourhood Policing Team.

PVB/PolyVinyl Butyral (Glazing interlayer)

A commonly used interlayer used in the production of laminated glass.

LPCB (Loss Prevention Certification Board)

A brand of the BRE Global (Building Research Establishment) family. The LPCB work with insurers, Government, police, designers, manufacturers, contractors and end users to develop methods of assessing performance and reliability of security products to ensure their fitness for purpose.

UKAS (United Kingdom Accreditation Service)

The sole national accreditation body recognised by government to assess, against internationally agreed standards, organisations that provide certification, testing, inspections and calibration services.

Useful Websites

Design for Security

www.designforsecurity.org

Secured by Design

www.securedbydesign.com

RIBA Product Selector

www.ribaproductselector.com

LPCB – Red Book Live

www.redbooklive.com

Crime Reduction (Home Office)

www.crimereduction.homeoffice.gov.uk

DAC (Design Against Crime) Solution Centre

www.designagainstcrime.org

Building for Life

www.buildingforlife.org

CLG (Communities and Local Government)

www.communities.gov.uk