

# Ballistic Door Product Data Sheet TDSBB 1001A

# BLAST&BALLISTICS LTD

### **Ballistic Doorsets –**

### **Product Range 'Blast & Ballistic Doorsets'**

Specify either - 'Blast & Ballistic Steel Doorset'

'Blast & Ballistic Timber Doorset'
'Blast & Ballistic Glazed Doorset'

When ordering, specify product from above and add suffix for the required ballistic protection e.g. 'Blast & Ballistic Timber Doorset FB6' = NATO 7.62 protection

Ballistic Ratings – BSEN 1522/23 FB2 through to FB7 European

Standards and NIJ IIIA through to NIJ IV American

Standards

Material Finish – Timber Composite, Steel and Fully Glazed

Fire Resistance – Timber/Glazed products FR60 and specific steel

doorsets up to 4 hours

Internal / External – Both options for all types and includes weathering

detail on external applications

**Frames –** Steel or Timber composite of minimum section

100mm deep, and varying to suit local applications with additional depth or separate linings. Rebate

depths minimum 25mm

Frame Finishes – RAL Powder Coat, Stains, Paints, Lacquers

**Doorleaves –** Steel facings incorporating ballistic armoured steel

linings and structural profiles. Timber facings onto hardwood/ballistic steel composite cores, lipped all edges. All door edges fully encapsulated

an eages. An abor eages rany encapsulated

**Doorleaf Finishes –** RAL Powder Coat, Stains, Paints, Lacquers

**Hinges –** 3 or 4 No.Stainless steel or purpose made

**Door Closers –** All types provided, LCN 4040 is the closer of choice

Ancillary Items - 'T' Bars: to meeting edges of double doorsets

Thresholds: Internal/external profiles

Hinge Bolts: Security upgrade item as detailed Seals: Draught Seals: Fire Seals as detailed Weather Detail: Drip moulds, weather boards Fixings: Supplied on request for masonry or steel

email: <a href="mailto:sales@blastandballistics.com">sales@blastandballistics.com</a>









Vision Panels – Tested to BSEN 1063 BR2 through to BR7 European Standards and NIJ IIIA

through to NIJ IV American Standards

Vision Panel Frame - Manufactured from ballistic armour with bolt through fixing from the

protected side, and tested to the same ballistic standard as the doorleaf FB2

through to FB7 and NIJ IIIA through to NIJ IV

Finish - RAL PPC finish or cloaked with solid hardwood to match decorative door

finishes

Glazing - Tested within the Vision Panel Frame to BSEN 1063 BR2 through to BR7

European Standards and NIJ IIIA through to NIJ IV American Standards.

Available in Spall Allowed and NO Spall options

**Side Panels** - Manufactured to integrate with the doorset and again meeting the same

ballistic levels of protection

Overpanels, fanlights Manufactured to integrate with the doorset and again meeting the same

ballistic levels of protection

**Locking Hardware** - ASSA Modular Locking with Ruko and ASSA cylinders

Surelock McGill single and multipoint locking systems Pickersgill Kaye single and multipoint locking systems Mico Tindall single and multipoint locking systems

Morticed and also surface mounted locking using the above hardware

**Locking Options -** Emergency Escape only

Emergency Escape with external entry Manual in/out with manual locking Manual escape and external entry

Access control in, emergency escape out

Access control in and out with mechanical override

Option with all locks of auto locking/auto bolting/manual locking

Access control locking in 12 volts and also 24 volts

Overlocking facilities

All locking can be interlocked for use in Airlocks and Tiger Traps

Special locking applications can be incorporated into these locks including

lock status and bolt status monitoring

Additional Products - Ballistic door viewers to BSEN 1063 BR2 through to BR7 European Standards

and NIJ IIIA through to NIJ IV American Standards.

Ballistics Louvres (can be fitted within the doorleaf or within side panels) to BSEN 1063 BR2 through to BR7 European Standards and NIJ IIIA through to

NIJ IV American Standards.

### Blast rating upgrade available from C25 through to C10 with full ballistic protection

These doors and locking products have been supplied to UK Government Projects for over 25 years both within the United Kingdom and also on Overseas Projects and all elements of their construction are independently tested within the United Kingdom



# BLAST&BALLISTICS LTD

# Technical Data Sheet TDSBB 1002

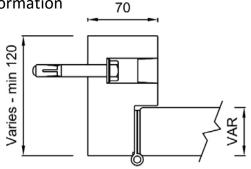


A leaf and a half timber ballistic doorset

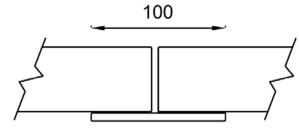
### **Ballistic Doorsets - Wooden**

- Designed primarily for commercial, domestic and military environments.
- Paint, stains and lacquer factory applied finishes.
- For internal and external applications
- Can accommodate a wide range of commercial and specialist locking systems
- Configurations Single, 1½ leaf and Double doorsets, with side and overpanels if required
- Available with vision panels, ballistic louvers and door viewers which are also ballistic rated
- Extensive range of ballistic certification

Typical wooden door and frame profiles – see accompanying details for further information 70



Typical outline - variable job specific



Typical outline - meeting style detail







	Do outrous c	
	Doorframe  Machined from solid hardwood timbers	
<b>√</b>		
<b>V</b>	Can be machined to replicate existing timber finishes	
<b>✓</b>	Minimum frame depth/wall thickness generally 120mm +	
Doorleaf		
<b>√</b>	Ranging in thickness from 44mm up to 70mm	
✓ Multi layered timber & steel composite core/pressure bonded		
	Finishes	
✓	Flush, veneers or panel effects	
✓	Factory applied paint finish	
✓	Factory applied stains and lacquers	
✓	Both internal and external quality finishes	
	Available sizes	
✓	Single doorsets up to 1300mm wide x 3050mm high	
✓	Double doorsets 2550mm wide x 3050mm high	
✓	With side screens and overpanels - indefinite	
	Hinges	
✓	Continuous Stainless Steel hinges	
✓	Individual Stainless Steel Hinges	
	Suitable Locking Systems/applications	
✓	Multipoint surface mounted locking systems	
✓	Multipoint concealed locking systems	
✓	Single point surface mounted locking systems	
✓	Single point morticed locking systems	
✓	Suitable for access control	
✓	Suitable for mechanical operation only	
✓	Suitable for escape systems/panic exit only	
✓	Suitable for combined a/c, mechanical override and escape	
	Power transfer to lock options	
✓	Concealed cable loop	
✓	Surface mounted cable loop	
	Certified Ballistic Standards	
✓	BS EN1522/23 FB6 - 7.62 NATO	
✓	BS EN1522/23 FB5 - 5.56 NATO	
✓	Special - AK47 Stannag based	
✓	BS EN1522/23 FB444	
✓	BS EN1522/23 FB3357	
	BS 5051 - G2/S86357, .44, Shotgun	
✓ ✓ ✓	Concealed cable loop Surface mounted cable loop Certified Ballistic Standards BS EN1522/23 FB6 - 7.62 NATO BS EN1522/23 FB5 - 5.56 NATO Special - AK47 Stannag based BS EN1522/23 FB444	

#### Shown above:

- 1 Ballistic Louver
- 2 Ballistic Door Viewer
- 3 Ballistic Vision Panel with decorative covers

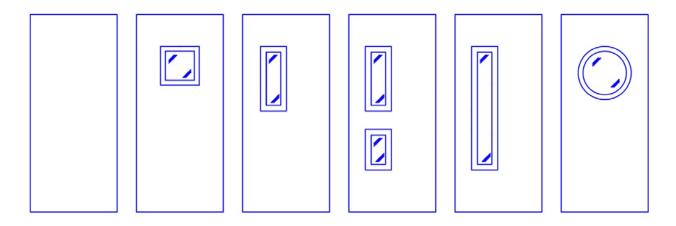
	•		
Compatible additional items			
✓	Ballistic door viewer to BS EN1063 BR3 - BR6 and NIJ IIIA - III		
✓	Vision panels to BS EN1063 BR3 - BR6 and NIJ IIIA - III + AK47		
✓	Ballistic Louver to BS EN 1522.23 FB3 - FB6 + AK47		
Door closers			
✓	Suitable door closer type LCN 4041 and derivatives		
✓	Alternative makes - Geze, Dorma and ASSA		
✓	Automatic opening and closing systems - Besam, Dorma		
Weights			
✓	Wooded frame profiles approx. 5.4kg/m		
✓	Doorleaves approx. 45kg/m2 to 82kg/m2		
Packing			
<b>✓</b>	Supplied in international crates for dispatch		



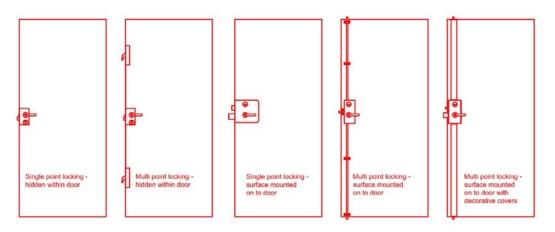


### Suitable for –

- Commercial applications
- Domestic applications
- Embassies
- Internal use
- External use
- Flush finishes
- Panelled finishes
- Paints finish
- Stains and lacquers

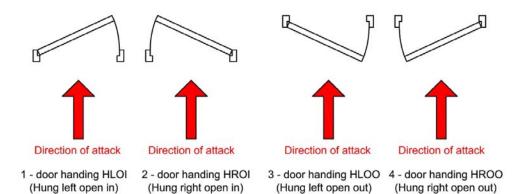


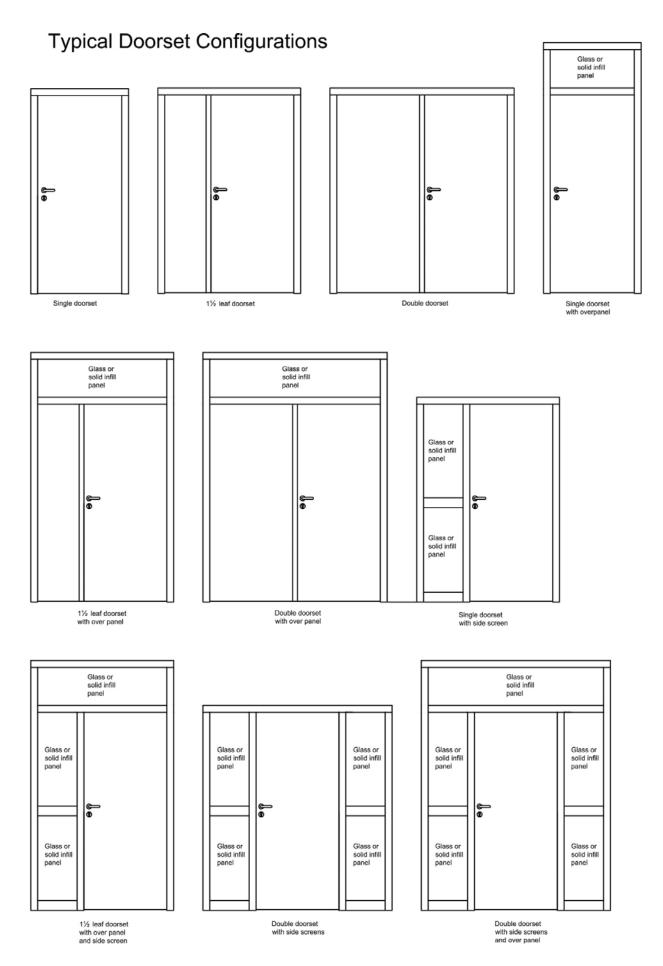
### **Typical Vision Panel Layouts**



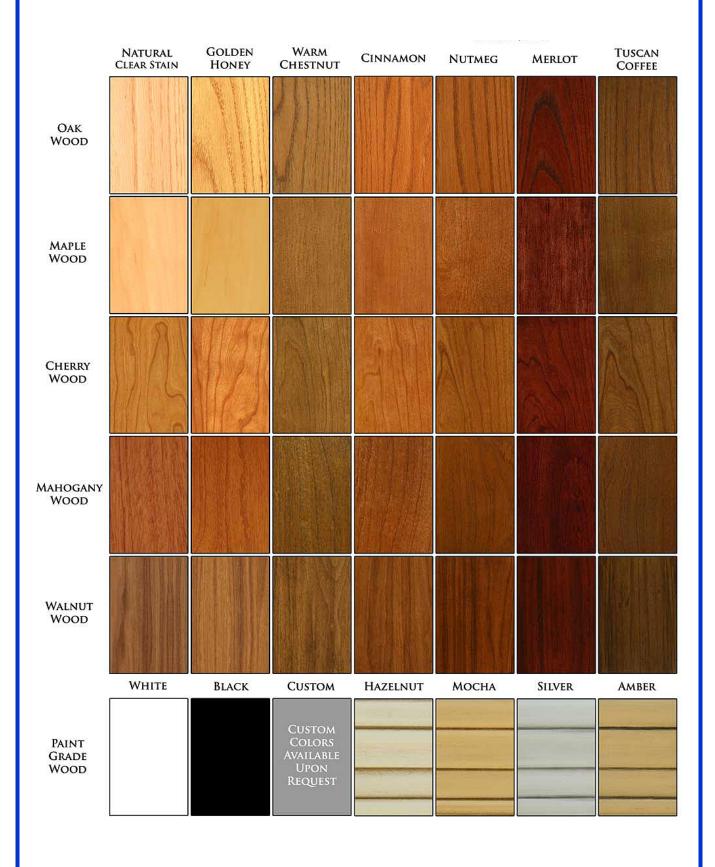
### Locking systems - hidden and exposed

### Door handings - when ordering





## Indicative veneer options and finishes



### **Door Configuration Outline – for Steel and Wooden Doorsets**





Inward opening and outward opening blast, ballistic and security doorsets



Concealed locking double blast, ballistic and security doorset



**Ballistic doorset with bullet louvers** 



High security multi point locking system with bullet ventilation grilles and internal tray to resist deliberate ingress of flammable liquids



One and a half leaf door configurations



Double doorset with high security locking and removable overpanel and transom. Particularly useful when large equipment needs to be moved through door openings



Double doorset with high security locking, clear glazed fanlight and vision panels to each doorleaf. Allows lots of light to enter the room but still offers blast, ballistic and security protection



# Technical Data Sheet TDSBB 1003

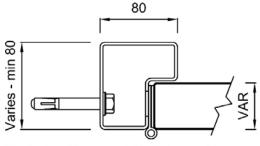


Fully glazed ballistic entrance

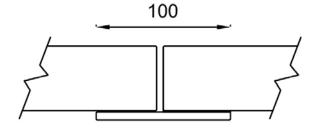
#### **Ballistic Doorsets - Glazed**

- Designed primarily for commercial, domestic and military environments.
- PPC or other special finishes available
- For internal and external applications
- Can accommodate a wide range of commercial and specialist locking systems
- Configurations Single, 1½ leaf and Double doorsets, with side and overpanels if required
- Extensive range of ballistic certification

Typical glazed door and frame profiles – see accompanying details for further information



Typical outline - variable job specific



Typical outline - meeting style detail

	Doorframe		
<b>✓</b>	Fabricated from profiled ballistic steels		
✓	Can be designed to complement existing doors and windows		
✓	Minimum frame depth/wall thickness generally 80mm		
Doorleaf			
✓	Ranging in thickness from 50mm up to 80mm		
<b>√</b>	Fully welded construction		
	Finishes		
✓	Factory applied PPC finish		
✓	Factory applied paint finish		
✓	Both internal and external quality finishes		
Available sizes			
✓	Single doorsets up to 1200mm wide x 2500mm high		
✓	Double doorsets 2550mm wide x 2500mm high		
✓	With side screens and overpanels - indefinite		
	Hinges		
✓	Continuous Stainless Steel hinges or individual hi load hinges		
	Suitable Locking Systems/applications		
✓	Multipoint surface mounted locking systems		
✓	Multipoint concealed locking systems		
✓	Single point surface mounted locking systems		
✓	Single point morticed locking systems		
✓	Suitable for access control		
✓	Suitable for mechanical operation only		
✓	Suitable for escape systems/panic exit only		
✓	Suitable for combined a/c, mechanical override and escape		
	Power transfer to lock options		
✓	Concealed cable loop		
✓	Surface mounted cable loop		
	Certified Ballistic Standards		
✓	BS EN1522/23/1063 - FB7/BR7		
✓	BS EN1522/23/1063 - FB6/BR6		
✓	BS EN1522/23/1063 - FB5/BR5		
✓	BS EN1522/23/1063 - FB4/BR4		
✓	BS EN1522/23/1063 - FB3/BR3		
✓	NIJ 0108.01 IV		
✓	NIJ 0108.01 IIIA		
✓	UL752 Level 9		
✓	UL752 Level 5		
✓	UL752 Level 3		
✓	AK47		

	Blast ratings		
✓	Arena testing 100 kg @15m with ballistic protection		
✓	Protecting against fragmentation - grenades and pipe bombs		
Door closers			
✓	Suitable door closer type LCN 4041 and derivatives		
✓	Alternative makes - Geze, Dorma and ASSA		
✓	Automatic opening and closing systems - Besam, Dorma		
Weights			
✓	Profiled frames approx. 24kg/m		
✓	Glass - see elsewhere - Data sheet TDSBB 1005		
Packing			
✓	Supplied in international crates for dispatch		



## Special finishes also available







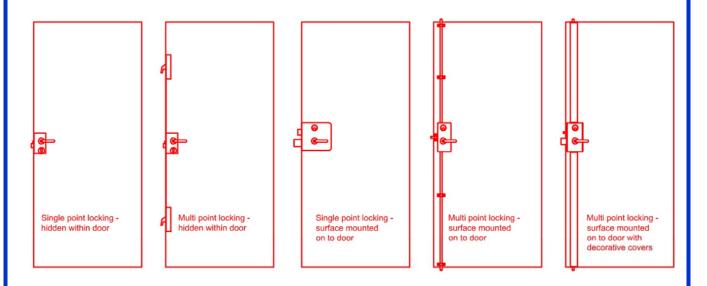
Airlock doorsets (top left) are ideally designed using as much glass as possible. Firstly ensuring that the doors and cubicle will offer the intended ballistic protection, the controller will then have good visibility of the person making their way through the airlock and provide time to assess the visitor, whilst they are waiting for the inner door to release, after which the airlock can be exited.

Both doors of the airlock should be controlled in such a way that only one door at any time can be opened. This is controlled by the access control system. See our locking products and also bullet window section for further information.

The minimum level of ballistic protection should be .44 Magnum – EN1063 BR4 or NIJ 0108.01 IIIA but it is often anticipated that larger calibre weapons, such as AK47 or other concealed automatic weapons may be used, in which case a protection level of EN1063 BR6 or NIJ IV should be considered.

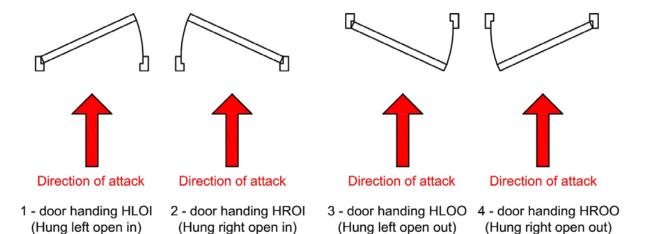
Ballistic or 'Bullet Glass Doors' and sometimes more specifically 'AK47 bullet glass doors' as they are sometimes referred to are suitable for both internal and external applications.

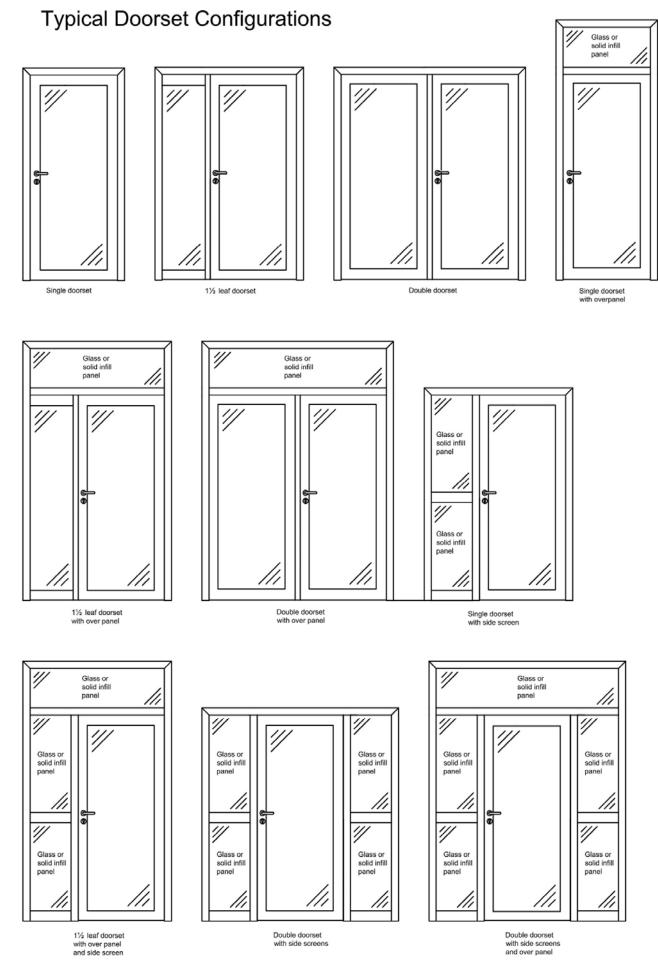
Also see our Ballistic Windows page and also Data Sheets for more information about our glass products.



### Locking systems - hidden and exposed

## Door handings - when ordering







# Fire Rated Door Product Data Sheet TDSBB 1028

# BLAST&BALLISTICS LTD

#### Fire Rated Doorsets -

### **Product Range 'Blast & Ballistic Fire Doorsets'**

Specify either - 'Blast & Ballistics Ltd. Metal Fire Doorset' - See Images on Page 3

'Blast & Ballistics Ltd. Timber Fire Doorset' - See Images on Page 4

'Blast & Ballistics Ltd. Glazed Fire Doorset' - See Images on Page 3

When ordering, specify product from above and add suffix for the required level of fire protection. E.g. for a 1 hour timber fire door specify: 'Blast and Ballistics Ltd. Timber Fire Doorset FD60' and where applicable 'E' and 'El' (see below for explanation)

Fire Test Standards – BSEN 1363-1, BSEN 13501.2:2016, BSEN 1634-1, BSEN 1634-3, BSEN 16034, BSEN 476 Part 22

Integrity/Insulation - Products are denoted 'E' and 'EI'. The 'E' means that they are tested to Integrity only

(this prevents the spread of fire past the doorset) or 'EI' which means that in addition to preventing the fire passing the doorset it is also safe to touch in a fire

situation

**Material Finish** – Aluminium, Steel, Timber. Glazed Doorsets in Metal frames.

Timber/Steel/Aluminium doorsets with vision panels

Fire Resistance – Standard Timber products 30 and 60 minutes. Special timber products 90 and 120

minutes. Metal doorsets 60 minutes through to 4 hours including blast and ballistic

rated products

Internal / External – Both options for all types and includes weathering detail on external applications

Frames – Steel/Aluminium of minimum section 100mm deep, and varying to suit local

applications. Steel frames are folded steel generally  $100 \times 60$  in section with rebate. Aluminium frames are extruded and of minimum  $80 \times 50$  and upwards dependent upon system profile. Timber frames  $100 \times 45$  with rebate or  $100 \times 32$  with planted stop and upwards. 30 minute timber frames in softwood, 60 minute and greater in

high density close grained hardwood

Frame Finishes – RAL Powder Coat for Steel and Aluminium and Veneers, Stains, Paints, Lacquers for

timber frames

**Doorleaves –** Steel/Aluminium – choice of flush panels or fully glazed panels within outer framing

system. Timber doorsets are solid core with flush faces in paint, decorative veneers

or laminates

**Doorleaf Finishes –** RAL Powder Coat for Steel and Aluminium and Veneers, Stains, Paints, Lacquers for

**Timber Doors** 

email: sales@blastandballistics.com

Thresholds: Not generally required unless specified to accommodate floor coverings or external

weather applications

**Seals:** All products are fitted with fire seals, internal insulation, intumescent strips,

intumescent papers to hinges and locks as per test data

**Weather Detail:** Drip moulds, weather boards for external application fire doorsets as required

**Fixings:** Supplied on request and also fire mastics, Rockwool and specialist sealants

Vision Panels – Tested to BSEN 1363, BSEN 1364, BSEN 1365, BSEN 1634, BS 476

Vision Panel Beads - Manufactured from Steel, Aluminium or Timber dependant upon fire door type

**Finish -** Steel/Aluminium RAL PPC finish and stains, paints, lacquers for hardwood timber

beads

Glazing - Tested within the Vision Panel Frame using proprietary products such as Pyroguard,

Schott, Polflam, Pilkington, ESG, Contraflam, Pyrobel up 120 minutes fire resistance in both integrity only and integrity and insulation preventing heat transfer from fire

side to non fire side

**Side Panels -** Manufactured to integrate with the doorset and again meeting the same levels of

fire protection. They can be solid panels or glazed panels

Overpanels, fanlights Manufactured to integrate with the doorset and again meeting the same levels of

fire protection. They can be solid panels or glazed panels

**Locking Hardware** - Certifire approved locking is available on all doorsets and is installed in accordance

with test requirements

**Locking Options -** Emergency Escape only

Emergency Escape with external entry Manual in/out with manual locking Manual escape and external entry

Access control in, emergency escape out

Access control in and out with mechanical override

Option with all locks of auto locking/auto bolting/manual locking

Access control locking in 12 volts and also 24 volts

Overlocking facilities

All locking can be interlocked for use in Airlocks and Tiger Traps

Special locking applications including monitoring

#### Also available – Fire Rated Louvre Doors and associated products

These doors and locking products have been supplied to UK Government Projects for over 25 years both within the United Kingdom and also on Overseas Projects and all elements of their construction are independently tested within Europe and the United Kingdom

## **'Blast & Ballistics Ltd. Glazed Fire Doorset'**











'Blast & Ballistics Ltd. Metal Fire Doorset'







### 'Blast & Ballistics Ltd. Timber Fire Doorset'









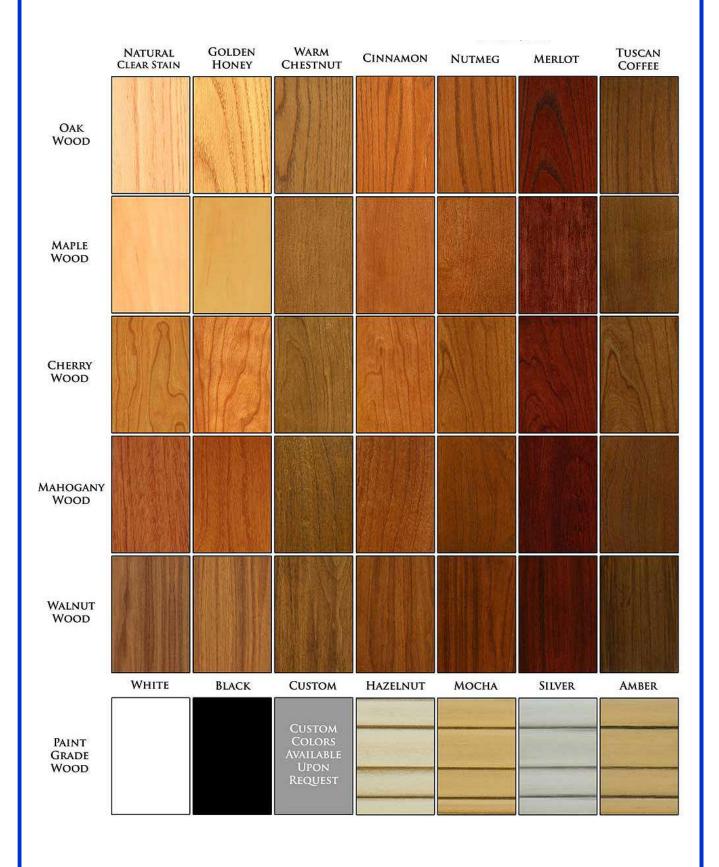


'Blast & Ballistics Ltd. Louvred Fire Doorset'





## Indicative veneer options and finishes





# LPCB SR3 and SR4 Fire Rated Ballistic Doorsets

# BLAST&BALLISTICS LTD

**TDSBB 1031** 

# Fire Rated Security and Ballistic Doorsets – Product Range 'Blast & Ballistic FRBRS'

### **LPCB SR3 and SR4 Security – Fire – Ballistic protection in one product**

















#### 1. Fire Protection Specification

Fire Test Standards - Doorset - BS EN 1634-1: 2008 and LPS1056: Issue 6.1 for 4 hours

Vision Panel – BS EN 1634-1: 2008 for 1 hour or 2 hours

**Integrity** Products are denoted 'E' means that they are tested for Integrity (this prevents the

spread of fire past the doorset)

Material Finish – Marine Grade Factory PPC Steel, and vision panels also in Marine PPC finish

Fire Resistance – Doorsets are 30 and 60 minutes fire protection and also extending to 4 hours

including blast and ballistic ratings

**Internal / External** – Both options for all types and includes weathering detail on external applications

Frames – Steel 100mm deep. Steel frames are folded steel generally 100 x 74 in section with

rebate.

Frame Finishes – RAL Marine Grade Powder Coat for Steel

**Doorleaves –** Steel with ballistic and attack internal reinforcement

email: sales@blastandballistics.com

**Doorleaf Finishes –** RAL Powder Coat for Steel

**Thresholds:** Choice of detail – see profiles elsewhere

Seals: All products are fitted with fire seals, internal insulation, weather seals as required

Weather Detail: Drip moulds, weather boards for external application fire doorsets as required

**Fixings:** Supplied on request and also fire mastics, Rockwool and specialist sealants

**Vision Panels –** Tested to 30, 60, 90 and 120 minutes fire protection

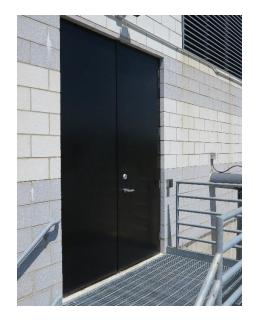
Vision Panel Beads - Manufactured from Steel,

**Finish -** Steel Marine Grade paint finish

Glazing - Tested within the Vision Panel Frame using proprietary products such as Pyroguard,

Schott, Polflam, Pilkington, ESG, Contraflam, Pyrobel up 120 minutes fire resistance.

This is also combines with LPS attack glass and ballistic glass







### 2. LPCB Physical Attack Specification

LPCB Attack Standards – Tested and certified to either LPS SR3 and SR4 Issue 7 currently being updated to Issue 8

LPCB Test Certificate No.'s - LPS SR4 No. 234d/07 Part 4 LPS SR3 No. 234d/13 Part 3









### 3. Ballistic Protection Specification

Independent Ballistic Tested by Wiltshire Ballistic Services – Registered UKAS Test Centre, ISO 9001

Ballistic Test Standard - BS EN1522/23 (Doors and Frames) and BS EN1063 (Glazing Elements)

Test Certificate No.'s - Doorset Elements - FB4 (including FB3) - No. 10298a and NIJ IIIA No. 10298b

Glazing Element - BR6 used on all ballistic glazing - No. 10080d







These doorsets and locking products have been supplied to UK Government Projects for over 25 years both within the United Kingdom and also on Overseas Projects and all elements of their construction are independently tested within the United Kingdom

# Certificate of Accreditation



Wiltshire Ballistic Services Limited

Testing Laboratory No. 10532

Is accredited in accordance with International Standard ISO/IEC 17025:2017

- General Requirements for the competence of testing and calibration laboratories.

This accreditation demonstrates technical competence for a defined scope specified in the schedule to this certificate, and the operation of a management system (refer joint. ISO-ILAC-IAF Communiqué dated April 2017). The schedule to this certificate is an essential accreditation document and from time to time may be revised and reissued.

The most recent issue of the schedule of accreditation, which bears the same accreditation number as this certificate, is available from www.ukas.com.

This accreditation is subject to continuing conformity with United Kingdom Accreditation

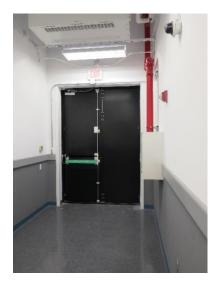
Matt Gantley. Chief Executive Officer

Initial Accreditation: 13 December 202





UNAS is appointed as the sole national accreditation body for the UK by The Accreditation Regulations 2009 (SI No 3155/2019) and ope





**Locking Hardware** - Approved locking is fitted on all doorsets and is installed in accordance with test requirements

**Locking Options -** Emergency Escape only

Emergency Escape with external entry

Manual in/out with manual locking

Manual escape and external entry

Access control in, emergency escape out

Access control in and out with mechanical override

Option with all locks of auto locking/auto bolting/manual locking

Access control locking in 12 volts and also 24 volts

Overlocking facilities

All locking can be interlocked for use in Airlocks and Tiger Traps

Special locking applications including monitoring



#### Additional Information:

- Doorsets are also used for Airlock applications, Data Centres,
   Alarm Receiving Centres, Cash Offices, Secure Storage of Valuables
- CE Marking to BS EN14351-1
- Thermal Properties nominal U values 3.7 with Vision Panels
- All doorsets fitted with hinges to BS EN1935 Class 13 and also hinge bolts to all hinge sides

### All products MADE IN ENGLAND