

# STEEL DOORS



# YOUR STEEL DOOR SPECIALIST



The Birtley Building Products range of residential doors has been created to perform in looks, strength, low maintenance and weather resistance.

With over 15 years experience Birtley Building Products has the expertise to ensure specification, design and manufacture of complete doorsets exceeds the expectations of the client.

- Over 15 years experience with a reputation to match
- Rapid turnaround
- Dedicated in-house team
- Contract Management including surveying
- Supply and fit
- Choice of high performance steel and GRP composite entrance doors
- Secured by Design and PAS23/PAS24 accredited
- Flexible approach to high security hardware and furniture
- Specialist expertise in both new build and social housing markets
- Environmental Commitments

## LOW MAINTENANCE STEEL ENTRANCE DOORS

Our high performance steel composite doors are low maintenance alternative to timber, guaranteed not to warp, rot, twist or bow and offer a durable thermal efficient entrance to any house.

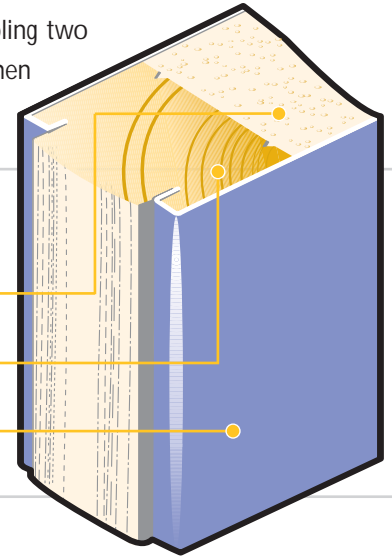
Birtley steel doors are constructed by coupling two steel skins to a timber subframe, which is then injected with an insulating foam core.

### Door Construction

High insulation foam core

Timber sub frame

Strong steel face



Steel doors from Birtley are available as smooth or grained for an attractive finish.

Birtley smooth steel doors are faced with 24 gauge rolled steel for strength and durability. Their smooth finish is supplied ready primed and is ideal for gloss painting and will appeal to those who prefer simple elegance in an entrance.

Our range of grained steel doors provide the appearance of wood with the strength of steel. They are faced with 24 gauge rolled steel, with the grained pressed into the steel to create a durable finish that will not scuff or peel. They are supplied primed ready for staining or painting.

### YOUR ULTIMATE DOOR

- ✓ Low maintenance
- ✓ No warping, twisting or bowing
- ✓ Steel doors will not crack and has a high dent resistance
- ✓ Tested to PAS23/24 and Secured by Design
- ✓ Wood effect aesthetics without the disadvantages
- ✓ Primed ready for gloss painting or staining
- ✓ Sidelights available
- ✓ Grained effect or smooth effect door skins
- ✓ Improved edge detailing technology
- ✓ Choice of hardware and furniture
- ✓ 5 year guarantee
- ✓ 11 different designs
- ✓ Attractive glass options
- ✓ Excellent acoustic insulation



## DOOR STYLES

A choice of door 11 different door styles are available



BD1



BD2



BD3



BD4



BD5



BD6



BD7



BD8



BD14



BD15



BD16

## GLAZING CHOICE

Glazed doors available in a choice of glass options including clear, bevelled and patterned.

We use 4mm toughened glass externally as standard (6.4mm laminated for Secured By Design) and 4mm toughened glass internally, providing 26mm double glazing units.



## HARDWARE AND FURNITURE

We offer a range of hardware and furniture to ensure homes are secure, such as a 180° eye viewer, security chain, sleeved letter plates in a choice of brass, steel or chrome.

All our lock keeps and hinge fixings utilise twin fast screws and our high security loose pin hinges feature integral hinge bolts. Importantly our Secured By Design approved multi point locking system, provides entry with a latch withdrawal using a key rather than a lever, featuring pick resistance and anti drill cylinders accredited to BS 1303 Grade 3, complete with 3 keys.



We offer a flexible approach to high security hardware and door furniture to ensure we can meet your specific requirements.

## FIRE DOOR

Birtley unglazed steel doors have been certified as fire rated for 30 minutes in a fire resistance test in accordance with BS 476 part 22.



# STEEL DOORS PRODUCT SPECIFICATION

## DOOR LEAF

- Steel-faced composite door leaf of nominal 44mm thickness
- Supplied pre-finished or pre-primed ready for finishing
- Hardware and glazing may be pre-fitted

## Steel Facings

- Steel facings both sides of door:-
  - 0.55mm thickness primed
  - Tolerance to BS EN 10143:1993
- Press formed to door pattern
- Continuous hot dip zinc coated steel:
  - BS EN 10142:2000
  - Grade: DX53D +Z 275 MC

## Finish – Primed

- Accepts most paint types, including:
  - Oil/solvent based primers, top-coats and stains or varnishes
  - 2-part automotive systems
  - Water borne systems
- 100% coating to facings

## Pre-finished

Factory prefinished service (extra cost option)

Colours available are:

White PV00-5525  
Green BS381 - 267  
Bold Red BS381 C564  
Blue BS20 C40  
Yellow BS10 E50  
Brown BS381 C411

## Sub-frame System

- Softwood timber sub-frame system finger jointed and laminated for stability
- Butt-jointed interlocking construction
- Lock blocks: suitable for 3-point locks (both sides of door) & overhead closers

## Core Insulation

- Injection filled rigid polyurethane core:
  - Foamed density: 42 kg/m<sup>3</sup>
- HCFC and CFC free – Ozone Depletion Potential (ODP) Rating: zero
- Flammability – meets the requirements of BS 4735:1974 (as amended 1993)
- GWP less than 3

## Glazing System

- Cassette glazing system with grained effect
- Full perimeter closed cell acrylic glazing tape and silicone weather seals
- Supplied unfinished ready for painting or painted to match door
- Most designs accept 26mm thickness double-glazed units to BS EN 1279-2:2002
- Glazed units incorporate toughened or laminated glass to BS 6206
- Low-e glass may be supplied

NOTE: Low-e glass is not required for compliance with part L1 of the Building Regulations for England & Wales

## DOORSET U-VALUE

- Maximum doorset U-value: 2.0 W/m<sup>2</sup>K (WITHOUT low-e glazing)

## PVC-U OUTER FRAME

### Profile 22@ 70mm PVC-U Frame System

- Reinforced with aluminium (extrusion to BS 6063 and BS 1474)
- EPDM flipper gasket fitted
- System compatible mechanically fixed combination frames available
- UV stable white through colour
- Cill or goal-post arrangement: Mechanically fixed with purpose-designed cleats
- Add-on and ancillary profiles available
- Kitemark: BS7413 (licence no KM 12895)
- Five cill size options (30mm high): 85mm; 125mm; 155mm; 180mm; 225mm

## PVC-U Frame Fittings

- Patented design butt hinge in white powder-coated or anodised gold finish: Non-removable stainless steel pin; Nylon bushes
- Aluminium threshold options in anodised gold or mill finish; compliant with part M of the Building Regulations for England & Wales (subject to installation)

## TIMBER OUTER FRAME

- 88mm outer-frame size
- White or brown gasket fitted
- Hardwood cills in a range of size options to suit installation requirements

## INTEGRAL TOPLIGHT AND SIDELIGHT COMBINATION FRAMES AVAILABLE

- Panel glazed sidelights
- Direct glazed sidelights & toplights
- Glazing to NHBC guidelines

## Timber

- Redwood softwood vac treated
- Sapele/Meranti hardwood

## Components to BS EN 942:1996

- Outer frame: Class J30
- Beads/cills: Class J10

## Timber Frame Fittings

- Loose pin steel butt hinges in bright zinc or yellow passivated finish
- Aluminium threshold options in anodised gold or mill finish; compliant with part M of the Building Regulations for England & Wales (subject to installation)

## HARDWARE

### 3-Point Multi-Point Locking

- 3 deadbolt and centre latch
- 92mm handle centres; 45mm backset
- Euro-profile cylinder; brass or nickel finish
- 16mm wide faceplate
- Lever-lever (92mm centres, sprung)
- Adjustable keep system (seal compression)

## Mortice & Rim Locks

- 5-lever mortice sash-lock or dead-lock Kite-marked: BS 3621:1980; 64mm case size
- Euro-profile 5-pin cylinder mortice sash-lock or deadlock; available Kite-marked: BS 3621:1980 with 6-pin anti-pick/drill cylinder and security escutcheon; 64mm case size
- Rim night latch; 40mm narrow stile; brass or chrome plated

## Lever furniture

- Cast aluminium lever furniture anodised gold satin (silver), bright gold and bright chrome finish
- Solid brass lever furniture

## Letterplates

- Integral weather seals, internal brush-seal
- Extruded aluminium sprung internal and external flap; anodised gold, satin (silver), bright gold and bright chrome.
- Aperture to BS 2911:1974

## Ancillary Hardware

- A range of hardware is available, including:
  - Brass mortice bolts; steel hinge bolts
  - Solid brass urn knocker
  - 180° viewer; chrome/solid brass
  - Solid brass/chrome plated door chain

NOTE: Doors may be fitted with virtually any hardware specification to meet individual requirements (e.g. master keyed)

## STANDARDS

### PAS 23-1:1999 & PAS 24-1:1999

General performance requirements & enhanced security

- Single leaf PVC-U outer frame steel or hardwood outerframe doorsets available as tested and passed at UKAS accredited test houses to PAS 23-1:1999 and PAS 24-1:1999
- Copies of test reports available on request
- Must be supplied to specification as tested
- Fully assembled doorsets must be supplied

## Secured by Design

- Single leaf PVC-U outer frame or hardwood outerframe steel doorsets available as Secured By Design licensed products
- Specification as per PAS 23-1:1999 and PAS 24-1:199 with additional security:-

### ALL DOORS:-

- One pane of glass laminated
- Locking cylinder to BS EN 1303 - Grade 3, with anti-pick and anti-drill
- 3-point locking

### FRONT DOORS ONLY:-

- Door viewer between 1200 & 1500mm
- Door chain fitted
- 3-Point lock



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THE BEST WINDOWS ARE MADE FROM



✓ PAS 23

✓ PAS 24