

C&B

BUILDING

Materials Trading LLC

Steel

DOORS AND WINDOWS

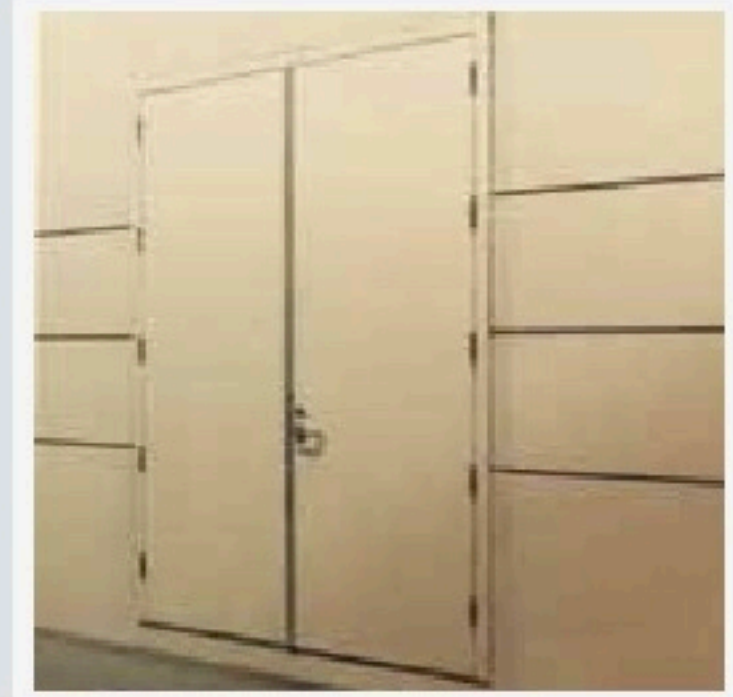


ABOUT US

C&B Building Materials Trading LLC. supplies building materials and finishing product that are used on major international construction projects.

The company employs a team who has an unrivaled wealth of experience within the construction industry and this is affected in the company's approach offering a total solutions package of all project work.

Our Self Motivated Professional team and close relationship with various leading Manufacturers related to our products have accomplished to satisfy the Customer needs and demands within the stipulated period and thus, succeeded in making us a leading supplier of Architectural Metal Products in the region.



DESIGN OPTIONS

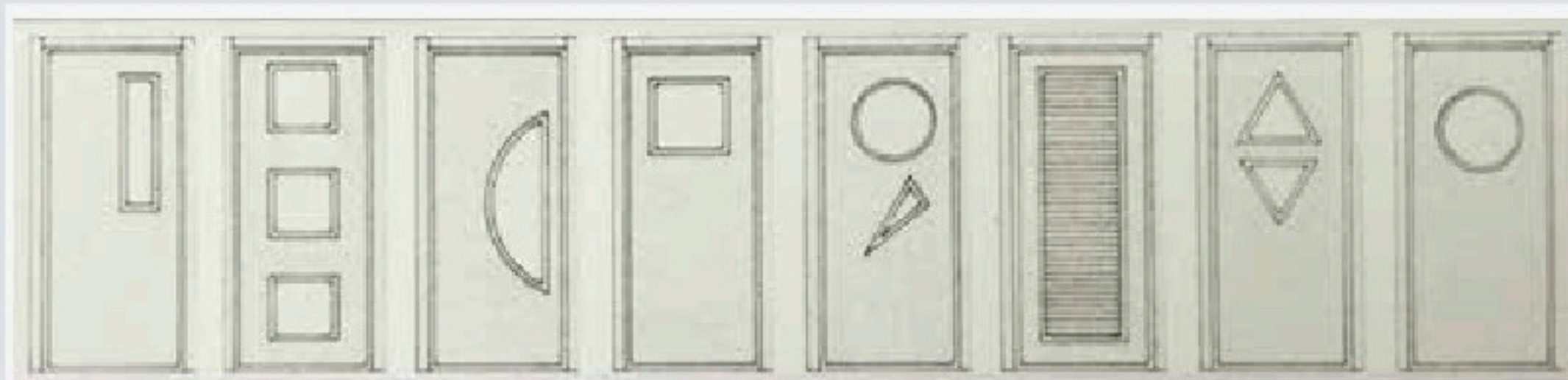
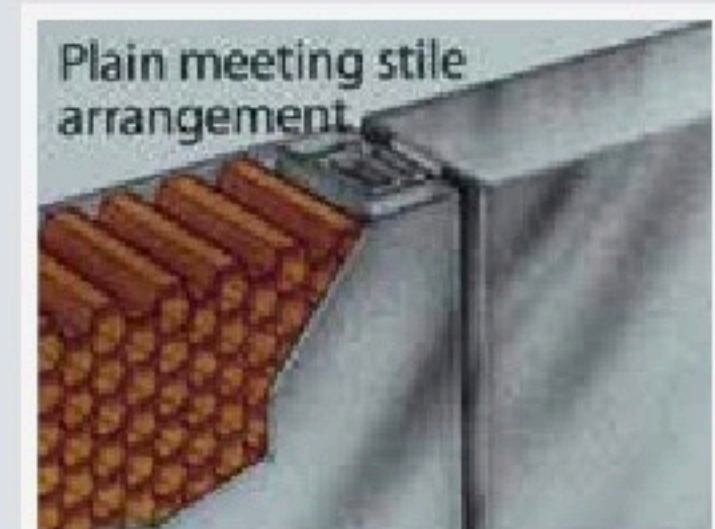
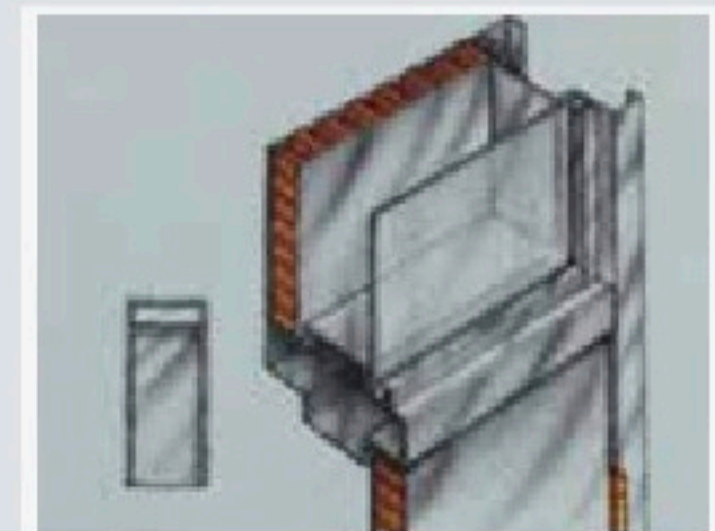
Steel doorsets can be produced to incorporate a multitude of accessories or special features to suit the application required.

Doors and panels are constructed from zinc coated steel (as standard), galvanise and stainless steel are also available.

Generally 1.2mm thick, but this may vary to suit specific requirements.

Doors and panels are press folded to form two skins - the door edges, internal reinforcements and core materials are supplied to suit individual performance requirements.

Side and/or overpanels in glass, solid or other materials are available to complement the doors and frames.



FIRE RESISTANT STEEL DOORSETS



The irreparable damages caused by fire every year cost business millions of pounds, moreover loss of human lives. The devastation caused by fire should never be underestimated. Similarly, the importance of adequate fire protection cannot be emphasized enough.

By choosing Fire resistant Steel Door sets you can be assured of protection for up to 1 hour.

The stairways and hallways within a building can act like a chimney, allowing fire to spread quickly from one level to another. By isolating the fire and preventing it from reaching these areas, fire doors not only buy you valuable time but also protect people and property from fire damage and the harmful effects of smoke.

C&B Building Materials Trading LLC. has achieved an enviable reputation in the design and supply of high performance steel fire doors and frames. Our fire doors are fully tested and approved by leading authorities throughout the world.

METAL DOORS SERIES

PERSONNEL DOORS :

A complete range of single or double door sets designed to satisfy the varied requirements of general purpose internal and external applications with polyester powder coating finish to any RAL color.



CLEAN ROOM DOORS :

Flush door sets have no visible construction lines and therefore allow a totally clean surface which reduces particle contamination for clean room environments to suit Hospital, Laboratory, and other clean environment locations.



FIRE DOORS :

Available with a variety of configuration and vision panel options. A maximum fire resistance of 2 hours can be achieved.

Tested by "UL" reference no R10011 and R10041 and Warrington certifications "BS" reference no. ME 1110 to suit a Staircase, Corridor, Service room, Entrance etc...



SECURITY DOORS:

Security from intruder attack is gained through the addition of a range of features, designed in conjunction with police, insurance companies and various government bodies suitable for Banks, Police Stations, Server rooms, and other similar Secured rooms.

ACOUSTIC DOORS :

A complete range of single and double door sets to suit performance requirements up to RW07dB and 120-min fire integrity to suit Cinemas, Studios, Mechanical rooms, Generator rooms, and other sound polluted rooms.



SECURITY PRODUCT SERIES

SECURITY WINDOWS :

A complete range of security windows suitable for Banks, Police stations and Government bodies. Can be supplied in various designs to suit the client requirement.



BULLET PROOF DOORS:

Design, manufacture and supply of complete range of bullet resistance door sets from G. up to S11. Tested to BS 5824 part 1:1988:1.



CELL GRILL DOORS & SCREENS:

Full range of security cell grills for police stations designed to meet the international standard requirements for the Detention Product Requirements.

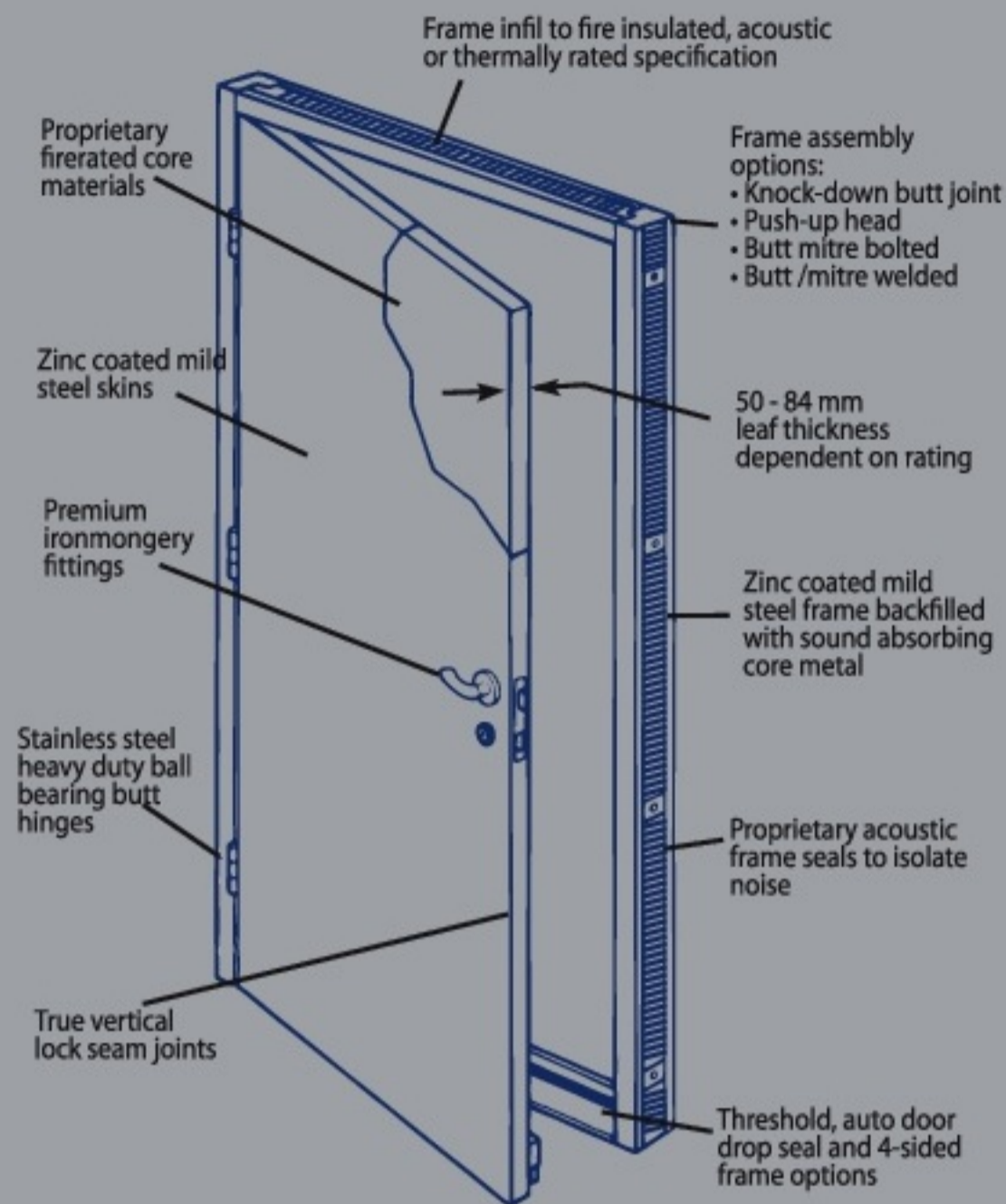


GLASS SCREENS:

Design, manufacture and supply of complete range of glass screens, steel and stainless steel, fire rated, insulated and security.

ACOUSTIC STEEL DOORSETS - AD RANGE

PRODUCT SPECIFICATION AND STANDARD OPTIONS



GUIDE TO NOISE LEVEL

| Sound Level | Source | Sensation |
|-------------|-------------------------|---------------|
| 120 | Jet Aircraft | Physical Pain |
| 100 | Elevated Train | Deafening |
| 80 | Truck Unmuffled | Very Loud |
| 60 | Average Factory | Loud |
| 40 | Quiet Radio | Moderate |
| 20 | Quiet conversation | Faint |
| 0 | Threshold of Audibility | |

Note Sound transmission through surrounding building elements need consideration when specifying. LF: Low Frequency RwdB: Weighted sound reduction index under laboratory conditions. *Available through our FastTrack Service

ACOUSTIC DOOR RANGE

| Door Ref. | Sound Reduction | Max Fire Rating | Thermal Rating (approx.) |
|-----------|-----------------|-----------------|--------------------------------|
| *AD 1 | 30 RwdB | Up to 4 hr | 1.68W/m ² K U-Value |
| *AD 2 | 35 RwdB | Up to 2 hr | 1.70W/m ² K U-Value |
| *AD 3 | 40 RwdB | Up to 2 hr | 1.98W/m ² K U-Value |
| *AD 4 | 45 RwdB | Up to 2 hr | 1.00W/m ² K U-Value |
| *AD 5 | 50 RwdB | Up to 2 hr | 0.64W/m ² K U-Value |
| *AD 4 | 50 LF RwdB | Up to 2 hr | 1.17W/m ² K U-Value |
| *AD 5 | 53 RwdB | Up to 2 hr | 0.65W/m ² K U-Value |

STEEL DOORSET CHARACTERISTICS

- Strong durable and impact resistant
- Unaffected by moisture, will not warp, swell or rot
- Excellent surface finish, smooth and durable
- Prepared & reinforced to receive wide range of ironmongery
- Inherent hygienic properties
- Reduced maintenance and lower cost ownership
- Enhanced security and acoustic characteristics
- Environmentally friendly - 100% recyclable

OPTIONS

- Single and double doorsets
- Side and overpanels
- Full range of premium hardware sets and accessories
- Specialised acoustic vision panels

FINISHES

- Range of RAL polyester powder coated top coat

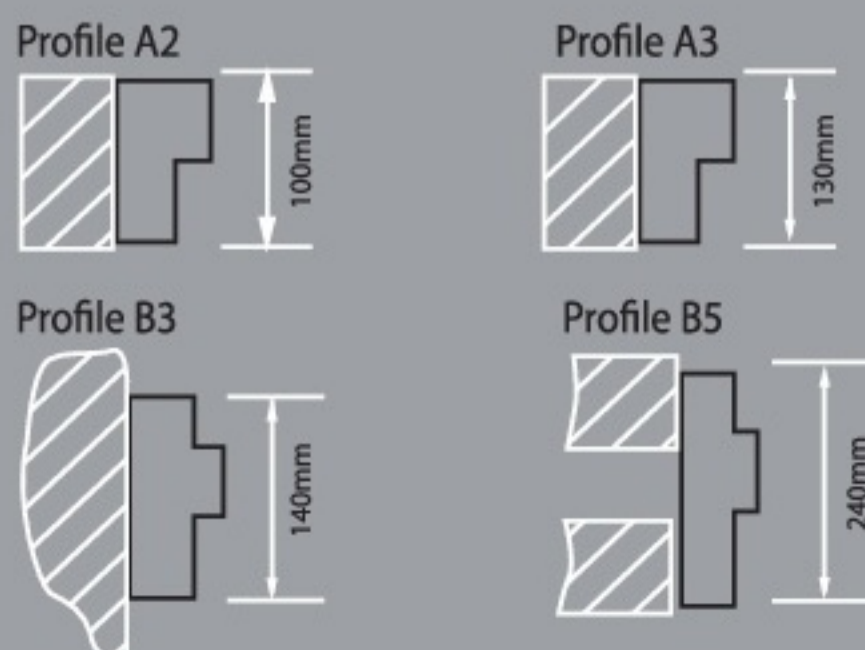
CLASSIFICATIONS

Tested and certified in accordance with:
 BS EN ISO 1990 : 2-140 (BS 2760)
 BS EN ISO 1997 : 1-117 (BS 0821)
 Fire rating listed are in accordance with BS 476 Part 22
 All doorsets meet the smoke passage and air leakage requirements of BS 0088
 BS EN ISO 9001 : 2008 (Quality Management System)

SPECIFICATION INFORMATION

- CAD drawings - DFX or DWG versions
- NBS Specification (Document L-2-Doors/ Shutters/Hatches)

STANDARD FRAME PROFILE OPTIONS



Non Standard profiles also available to client specifications

ACOUSTIC STEEL DOORSETS

Loud noise hurts everyone and it's especially bad for business. Continued exposure impairs hearing and undermines emotional well-being, exposing employers to potential liabilities. Even at relatively low levels, unwanted noise can be a costly drain to employee morale and productivity.

Where the combination of acoustic performance & aesthetically pleasing detail is required.

AD Range can be specified in full confidence for a variety of demanding situations including Multiplex Cinemas, Research facilities, Offices, Airports, Hotels etc...

Steel is a strong durable material, it will not rot, warp or swell and has superior resistance to forced entry and enhanced fire protection.

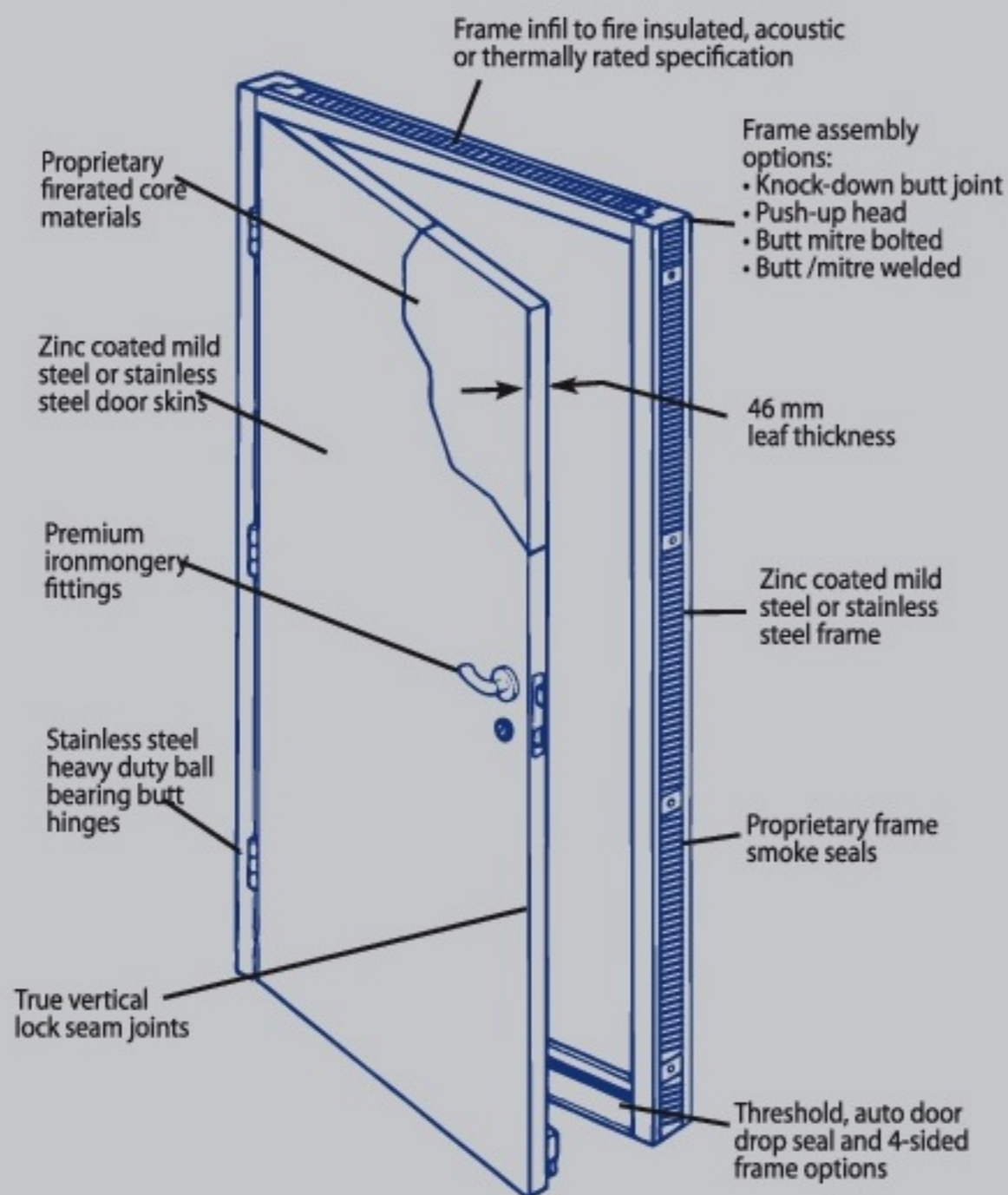
With its smooth, powder coated, easy to clean surface finish, maintenance requirements are minimal.



FIRE STEEL DOORSETS - FD RANGE

PRODUCT SPECIFICATION AND STANDARD OPTIONS

FIRE DOOR FEATURES



STEEL DOORSET CHARACTERISTICS

- Strong durable and impact resistant
- Unaffected by moisture, will not warp, swell or rot
- Excellent surface finish, smooth and durable
- Prepared & reinforced to receive wide range of ironmongery
- Inherent hygienic properties
- Reduced maintenance and lower cost ownership
- Enhanced security and acoustic characteristics
- Environmentally friendly - 100% recyclable

CLASSIFICATIONS

- BS 476 Part 1987:22 (Fire Integrity)
- BS 476 Part 1987:22 (Full fire insulation)
- BS EN 13637:2003 (New European standard)
- BS 1988:2003 (Smoke passage)
- Underwriters laboratories Inc.
- BS EN ISO 9001:2001 (Quality Management System)

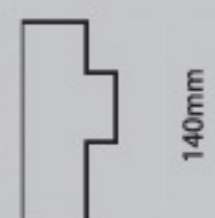
STANDARD FRAME PROFILE OPTIONS

Profile A2



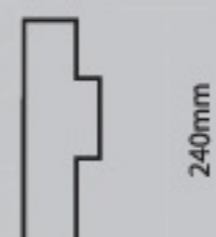
100mm

Profile B3



140mm

Profile B5



240mm

Non Standard profiles also available to client specifications

OPTIONS

- Single and double doorsets
- Single and double swing
- Side and overpanels
- Banks of doorsets
- Vision panels.
- Fully glazed option
- Fire block louvres
- Full range of premium hardware sets

FINISHES

- Range of RAL polyester powder coated top coat finishes or primer
- Brushed, polished or patterned
- stainless steel to order

SPECIFICATION

- INFORMATION
- CAD drawings - DFX or DWG
- versions NBS Specification (Document L-r-Doors/ Shutters/Hatches)

| Door Ref. | Fire Integrity Rating | | | Sound Reduction (Optional) | Thermal Rating (approx.) (Optional) |
|-----------|-----------------------|------|---------|----------------------------|-------------------------------------|
| | BS | EU | UL | | |
| *FD 1 | 1 hr | 1 hr | 0.75 hr | 30 RwdB | 1.68W/m ² K U-Value |
| *FD 2 | 2 hr | 2 hr | 1.5 hr | 30 RwdB | 1.68W/m ² K U-Value |
| *FD 3 | 3 hr | | | | |
| *FD 4 | 4 hr | | | | |
| *FD 5 | 5 hr | | | | |

*Available through our FastTrack service

| Door Ref. | Fire Integrity Rating | | Sound Reduction (Optional) | Thermal Rating (approx.) (Optional) |
|-----------|-----------------------|--------|----------------------------|-------------------------------------|
| | BS | BS | | |
| FI 1 | 1 hr | 0.5 hr | 40 RwdB | 0.98W/m ² K U-Value |
| FI 2 | 1 hr | 1 hr | 40 RwdB | 0.98W/m ² K U-Value |
| FI 3 | 2 hr | 0.5 hr | 40 RwdB | 0.98W/m ² K U-Value |
| FI 4 | 2 hr | 1 hr | 40 RwdB | 0.98W/m ² K U-Value |

Note Sound transmission through surrounding building elements need consideration when specifying. RwdB weighted sound reduction index under laboratory conditions

Fire doors and frames are generally constructed as standard doorsets but have special internal reinforcement. The fire door range has been fully tested and approved by leading authorities throughout the world.

Fire resisting doorsets are available to suit numerous applications from single action to double action doorsets to a maximum fire resistance period of r hours.

Steel as a medium for doors and frames has advantages over other materials, expanding and contracting at uniform and predictive rates. Gaps around door leaves in the event of fire are quickly filled by the expansion of both door and frame which further assists any smoke seal requirements.

The reaction of steel to fire means that in most instances intumescent materials are not required.

Extracts from WFRRC Report No. 09-11

The successful fire testing of an unlatched double action double doorsets.

This typical cross corridor situation when tested in conjunction with floor springs and accessories achieved a fire resistance of period of r hours.

It has been estimated that over 20% of fatalities in fire situations are caused by smoke or toxic fumes.

A full range of seals are available to satisfy the requirements of BS 476 and smoke leakage rates of BS 6888.

The selection of ironmongery and door controls play a significant part in determining the performance of a door in a fire.



Vision panels and non vision louvres can be manufactured to any size or glass specification requirements although a choice of standard sizes are available.

Vision panels can also be included with the door ranges to achieve a maximum of 2 hours fire resistance and are available up to a clear vision glass size of:

- 450X750mm
- 250X1800mm
- or 500mm nominal diameter.

Smoke seals can be supplied as a surface mounted self adhesives silicone seal or alternatively as an integral fin seal slotted into the frame section, both of which pass the requirements of BS 5588 Part 1: 1990



As standard, all door and frame components are supplied in a single pack etch primer - stoved.

Our first class paint line and stoving oven facilities allow us to supply to any BS or RAL colour. Available if required, our standard acrylic semi-gloss top coat, provides a hard and durable surface for a long lasting aesthetically pleasing finish. Alternatively special finishes such as anti-graffiti offer significant benefits over on-site applications.

A large section of decorative coverings is also available including corporate colour matching and screen printing of text/logos.

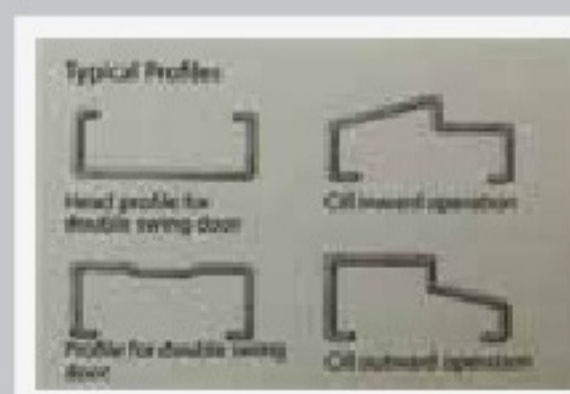
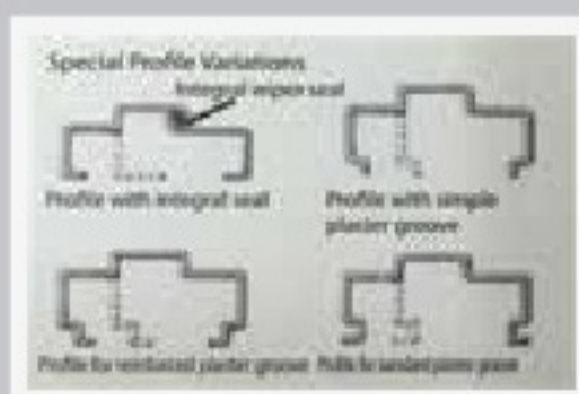
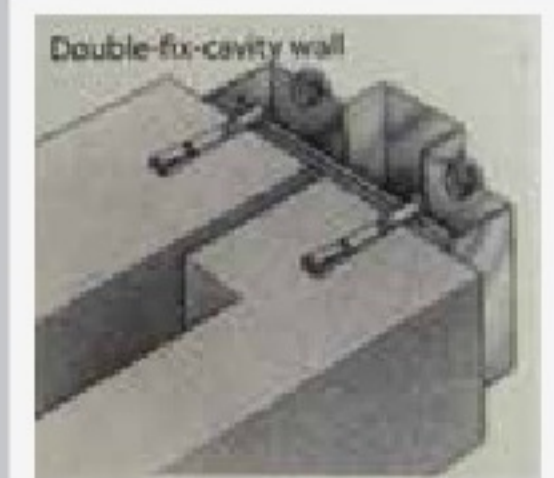
Steel frames are of a pressed construction, produced from zinc coated steel sheet (galvanized) or stainless steel.

The durability and resilience of steel makes it a sensible partner in some instances for timber or laminated doors where higher traffic flows may damage timber frames.

The door frames are mainly made from welded profile construction, or sometimes from knock down form for more economical transportation, storage, assembly and installation.

Various bolted corner constructions are available either butt or jointed or mitred or alternatively these may be welded for a totally clean appearance.

Virtually any size and shape of frame profile is available, which can be supplied complete with matching seals, transoms and mullions as required.



The most popular methods of frame fixing are shown for either 1st or 2nd fix application with the frame void filled as required or to suit individual performance requirements.

All details shown are typical only and our Technical Support Group would be pleased to advise on individual design applications.



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