



OMEGA FIRE RATED DOORSET





Size Range

Structural Openings	
Width	Height
Single up to 1300mm	up to 2900mm
Double up to 2500mm	up to 2900mm



Adaptaframe\*



Adaptabase\*



Adaptalock



Door Seal



Threshold



Availability

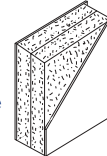
OMEGAFRI doors are designed primarily for internal use and are suitable for fire resistance purposes in commercial and industrial applications.

Performance

OMEGAFRI doorsets are designed and manufactured to ISO 9000 Quality Assurance Standards. They have been fully fire tested at Warrington Fire Research Centre and are approved for use to BS: 476 Part 22 for fire periods up to and including four hours fire resistance and 60 minutes insulation.

Door Leaf

- Constructed from two skins of 18g. Galvaneal zinc coated steel folded to form a 45mm thick door leaf. The edges of the two skins are folded to create a recess into which is located an intumescent seal. A horizontal channel is located within the leaf, welded to the inner and outer skins to close off the top of the leaf.
- The void between the two skins is infilled with a bonded ceramic board selected for its thermal insulation performance.
- Reinforcing pads are fitted as standard within the leaf to suit hardware options.
- The bottom edge of the door contains a 2.5mm thick steel reinforcing channel welded to both skins for maximum strength at this position of abuse. (It is probably the strongest reinforcing member utilised with the industry on doors of this type.)
- The ADAPTABASE\* is fitted as standard on OMEGAFRI doorsets. This consists of a bottom rail which is inserted into the reinforcing channel at the base of the door leaf. In addition to closing off the bottom edge of the door, the rail can be adjusted up to 16mm to suit existing or future changes in floor finish thickness, or to meet mandatory smoke control requirements, complying with BS: 476 Part 31.1.
- The hinging edge is reinforced by 3.4mm thick hinge mountain plates welded within the leaf, and the lock mechanism is installed within an inner enclosure to facilitate its removal for future maintenance or replacement.
- On double doors, a "T" section astragal is fitted to one leaf to ensure positive sealing at the centre on doors requiring higher fire performances.



Frame

- OMEGAFRI frames are pressed from 16 gauge Galvaneal zinc coated steel to form a single or double rebate profile. Headers are profiled to form a smooth, butt joint with the full height vertical posts and headers include tab and slot locators for positive engagement.
- Uprights are reinforced with a 4.5mm thick steel plates at all hinge and lock points and headers include 2.5mm thick galvanised reinforcing to suit door closers.
- Where insulation is also a requirement for the door frame they can be supplied fully compliant with the 60 minute ratings. Various materials are available to suit different applications

Thresholds

- Thresholds are available at extra cost, either as a shallow depth extruded aluminium profile, or a steel member to match the frame profile producing a full four sided frame.
- Frames for OMEGAFRI doors are arranged for bolt fixing to any suitable opening structure.

Seals

- A tubular silicone seal can be supplied bonded into the frame rebate. In conjunction with the threshold they ensure accurate sealing of the door/frame gap for smoke protection in the initial stages of fire.

Hardware

- As standard, door leaves are hung from 1.5 pairs of 3.4mm thick stainless steel, full ball-bearing hinges for smooth operation, in high cyclage/heavy duty applications.
- In addition, doors can be provided with a range of locks, latches, lever handles, panic equipment, closers, etc. to suit fire-rated\* applications.
- On double doors, lever action flush bolts can be installed within the leading edge of the passive door leaf. Whatever hardware is selected, all items are normally factory fitted, requiring no additional assembly work on site.
- \*Choice of hardware can greatly effect fire performance and we therefore recommend the use of our tested items, as laid down in BS: 5588. However, your choice can be submitted to the Fire Test Centres for assessment, should you wish to select alternative items of hardware. (Subject to extra cost.)

Vision Panels

- Doors can also be provided with vision panels in various standard sizes and glazing materials to suit various impact resistance and fire performance requirements.

Finish

- All door leaves and frames receive one coat of self-etching primer prior to despatch. Alternatively, doors can be supplied factory finished in any standard BS:4800 or R.A.L. colour. Specialist paint systems are also available to suit Coastal/Chemical environments, anti-graffiti and Foodsafe applications.

To Specify

Door(s) to be OMEGAFRI doorsets, supplied (and installed) by....., to suit a structural opening .....mm wide x .....mm high, including double-rebated frames, (extruded aluminium threshold and seals etc., if required), and standard hardware. (Also include any special hardware options required, including manufacturers details, part nos., etc. if known.)

- Door(s) to be  
 or  
 a) primed for final site painting by others.  
 b) finish-painted to BS..... (R.A.L.....).

Contact

Fire Ratings

	FD30	FD60	FD120	FD240
<b>Configurations</b>				
Single Swing Latched	■	■	■	■
Single Swing Latchless	■	■	■	■
Double Swing	■	■	■	■
Double Egress	■	■	■	■
<b>Options</b>				
Solid Overpanels	■	■	■	■
Solid Side Panels	■	■	■	■
<b>Ancillary Items</b>				
Vision Panels	■	■	■	■
<b>Opening Constructions</b>				
Masonry	■	■	■	■
Timber Stud Partitions(P)	■	■	■	■
Steel Stud Partitions(P)	■	■	■	■
Reinforced Stud Partitions(P)	■	■	■	■
(P) Provisional				

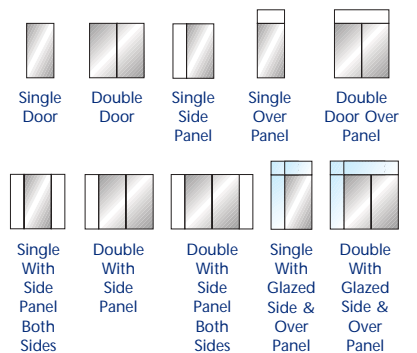
We continuously test new configurations and cores to meet the evolving needs of specifiers. An up to date list of current certification is available on request

Vision Panels

	Glass Toughness Fire Rating	Geo Wired	PYRAN S	FIRELITE
		Up to FD120	Class A Up to FD120	Class C Up to FD240
200 x 200mm		•	•	•
200 x 500mm		•	•	•
200 x 700mm		•	•	•
400 x 500mm		•	•	•
300mm dia		•	•	•
400mm dia		•	•	•
500mm dia		•	•	•

Also available:  
 Double Glazed Semi-flush and Triple Glazed Full Flush.  
 Louvres available to client specification.

Door Elevations



Optional Extras

Adaptaframe\*



Withdrawn Extended  
 Stainless Steel Construction

Enhancements available with OMEGAFRI doorsets



SR Sound Reducing (Acoustic)

\*Design Right. Patent Granted. Whilst every effort is made to ensure that this datasheet is comprehensive and accurate, Omega Doors will not accept any liability for omissions or errors.