DUALFRAME Performance data: 75mm HP Entrance Door

Composition and Manufacture

Aluminium profiles are extruded from aluminium alloy 6063 or 6060 T6 complying with the recommendations of BS EN 755-9:2001.

Weatherstripping is polypropylene backed woven pile and polyurethane foam enclosed in a polythene sheath, set in undercut grooves in the sash.

The thermal barrier section is achieved using two separate aluminium extrusions and two polyamide extrusions mechanically jointed to form a single compound profile. (Except on some coupling mullions where a 'pour and cut' polyurethane resin thermal break is used).

Frame members are mitre cut at 45 degrees. Corners are reinforced with stainless steel corner ties and extruded aluminium corner cleats. All joints are sealed against water entry during fabrication.

Weather Performance

When tested in accordance with BS6375:Part 1:1989 all products listed in this data sheet, when manufactured, installed and glazed strictly to the enclosed details, will achieve the following exposure categories:

Single Doors	Air	Water	Wind Resistance*	Exposure Category
Open In (HD)	300pa	300pa	2000pa	2000
Open In (STD)	300pa	300pa	2400pa	2400
Open Out (HD)	600pa	300pa	2000pa	2000 Special
Open Out (STD)	600pa	600pa	2400pa	2400 Special

Double Doors	Air	Water	Wind Resistance*	Exposure Category
Open In (STD & HD)	300pa	200pa	1200pa	1200
Open Out (STD & HD)	600pa	600pa	1200pa	1200 Special

Low threshold Single Doors	Air	Water	Wind Resistance*	Exposure Category
Open In (HD)	300pa	200pa	2000pa	2000
Open In (STD)	300pa	150pa	2400pa	1200
Open Out (HD)	600pa	200pa	2000pa	2000 Special
Open Out	600pa	300pa	2400pa	2400 Special

Low threshold Double Doors	Air	Water	Wind Resistance*	Exposure Category
Open In (HD)	300pa	50pa	1200pa	1200X
Open In (STD)	200pa	200pa	1200pa	1200
Open Out (HD)	600pa	150pa	1200pa	1200 Special
Open Out	600pa	300pa	1200pa	1200 Special

*Exposure catgory varies with width/height of door and mullion/transom used, as these are the only unsupported members.

Authority

BS6262: Code of practice for glazing for buildings

BS EN 755-9: Aluminium and aluminium alloys. Extruded rod/bar, tube and profiles. Profiles, tolerances on dimensions and form.

BS 3987: Specification for anodic oxide coatings on wrought aluminium for external architectural applications

BS EN 12206:1 2004: Specification for powder organic coatings for application and stoving to aluminium alloy extrusions, sheet and perforated sections for external architectural purposes.

Pr EN 10077-2: Thermal performance of windows, doors and shutters – calculation of thermal transmittance – Part 2: Numerical method for frames

BS: PAS 23-1: 1999 General performance requirements for door assemblies

BS: PAS 24-1: 1999 Enhanced security performance requirements for door assemblies

Note: To conform to the requirements of PAS 023 and 024, doors must be to an identical specification to those tested, and fabricated in accordance with the Product Manual.

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Size Limitations

Fixed Light Maximum area 5 sq.m

Single Doors	(O/A Frame size)
Minimum Width	650mm
Maximum Width	1260mm
Minimum Height	1850mm (STD)
	1840mm (L/T)
Maximum Height	2400mm (STD)
	2390mm (L/T)

Double Doors	(O/A Frame size)
Minimum Width	1246mm
Maximum Width	2466mm
Minimum Height	1850mm (STD)
	1840mm (L/T)
Maximum Height	2400mm
	2390mm (L/T)

Unequal Split - Double Doors (Sizes shown are outerframe to centre of split)

Minimum Slave Leaf	320mm (STD & H/D)
	354mm (AFT)
Minimum Master Leaf	623mm
Maximum Leaf	1023mm (STD)
	1223mm (H/D)
	1233mm (AFT)

Maximum Leaf Weight Using Standard Hinges is 75kg.
Maximum Leaf Weight Using Heavy Duty & A.F.T Hinges is 100kg.

STD	= Standard
AFT	= Anti Finger Trap
H/D	= Heavy Duty
L/T	= Low Threshold

Please see pages 6 - 7 for door size to hardware relationships.

Hardware

Doors are hung on extruded aluminium hinges with stainless steel pins and nylon bushes. Powder coated to match the door. Locks are of Eurogroove construction with three hooks and central latch. A full length stainless steel faceplate is fitted. Optional top and bottom shoot-bolts are also available. On double doors, the slave leaf is secured by means of a slave lock having only top and bottom shoot bolts or by means of a shootbolt, with central finger operated mechanism throwing two opposing 10mm dia zinc plated steel bolts Cylinders are of 5-pin anti-drill construction. All keeps are adjustable and are made from pressed stainless steel. Hardware enhancements are available to achieve compliance with PAS 024.

Glazing

Drainage in accordance with details listed in this manual meets the requirements of 'ventilated and drained glazing systems', as specified in BS6262. Glass must conform to BS6262 for thickness and type. Insulating glass units of 24mm and 28mm can be accommodated.

Door leafs: Glass set against extruded synthetic rubber gaskets retained in undercut grooves within an aluminium bead profile. Final retention of the glass is achieved yby the application of a co-extruded PVCu/synthetic rubber wedge gasket between the inner face of the glass and the frame.

Thermal Performance

Dualframe 75mm complies to Part L of the Building Regulations 2002, using only hard coat low emissivity glass and standard spacers to the double glazed units. Lower U-values can be achieved using double glazed units with enhanced thermal insulation, such as 'soft coat' low emissivity glass, argon gas filling and thermally broken spacer bars.

Site Work

A design, installation and glazing service is available through a nationwide network of fabricators and installers. For details of suitable fabricators and installers, please contact our Marketing Department on 01684 853500.

Secured by Design
SBD
Official Police Security Initiative

PAS 23-1 and
PAS 24-1
Licence No. KM90215

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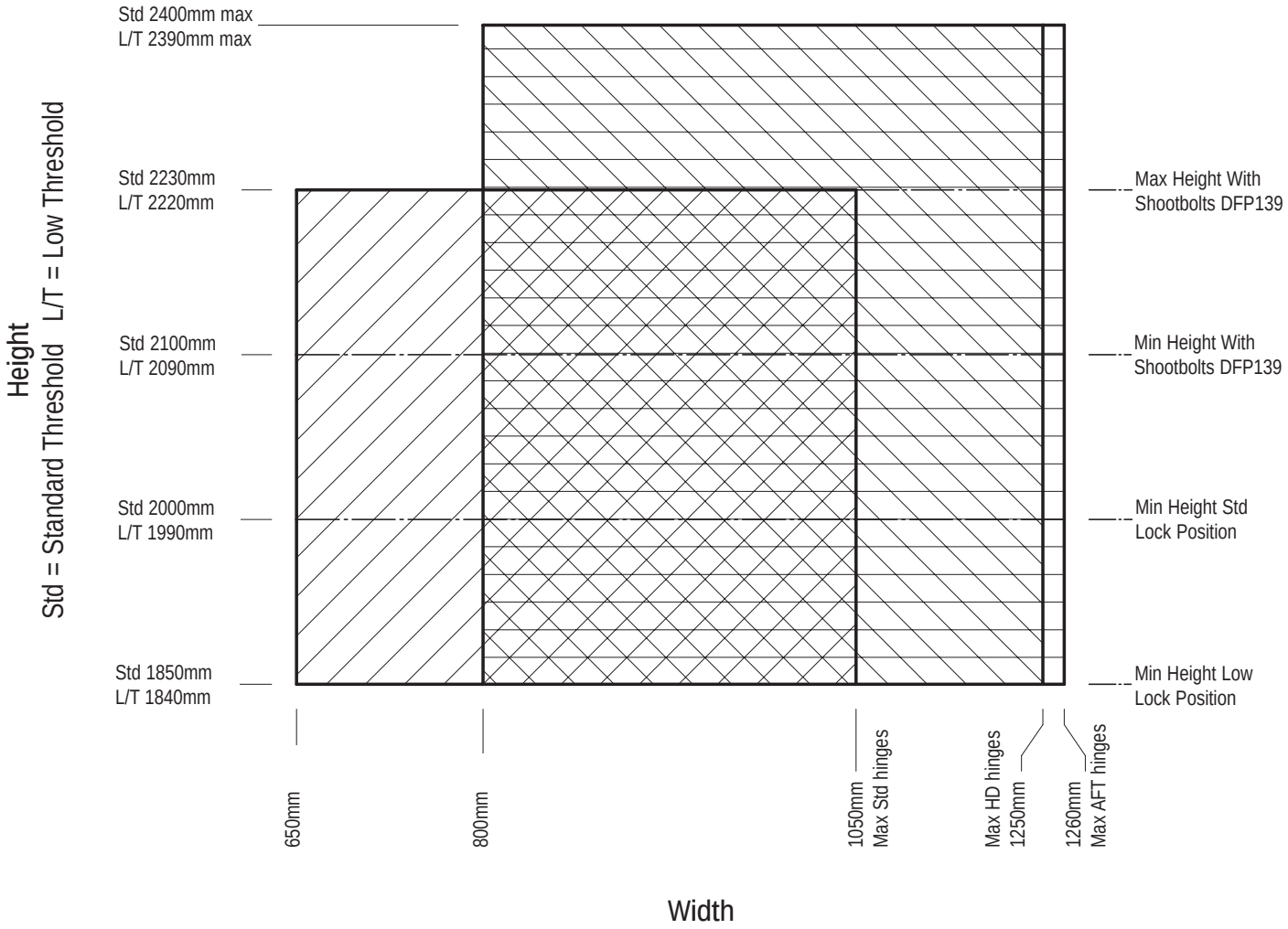
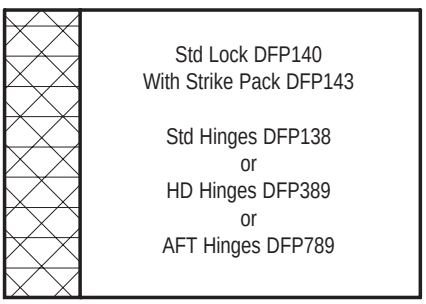
Dualframe Single Door Size to Hardware Relationships

Note: Sizes shown are overall frame





Dualframe Double Door Size to Hardware Relationships

Note: Sizes shown are overall frame