

Bespoke Fire Safety Training NOS-5

Underpinning Knowledge and Risk Assessment of High Risk Premises

Fire Door Repairs & Upgrading Period Buildings

(powerpoint)

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FPA Trainer





DISADVANTAGE
LOW INSULATION.

STUZZ GEND

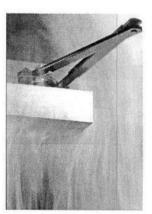
HEAT

ONDUCTOR

Frame/doorleaf combinations: wood/wood; steel/steel; steel/wood!; wood/steel

Door Repair & Upgrading

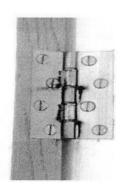
Overhead closers should meet BS EN 1154 Door should close in <30 secs and latch



BS 8214 1990

Door Repair & Upgrading

Hinges should meet BS 7352, show minimal play and be kept lightly oiled quarterly.



Screws (engineering brass or steel) ≥38mm



No type of rising hinge should be fitted to fire doors in commercial use

Seal at door top is too difficult to achieve

Door Repair & Upgrading

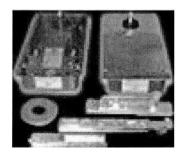


Replace defective hinges with a quality item



25 Year maintenance free units available

Door Repair & Upgrading

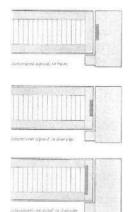


Floor springs can be the most durable system in high usage areas. Fire performance is also very reliable

No door has achieved FD30 without intumescent seals!

Single leaf, latched doors generally need 10mm strip to BS 476:23 centrally located in door or frame on three sides (hinge section can be omitted) FD60 usually 2 x 10mm strips to include hinges

Any other configuration FD30 or 60 and all FD60+ need manufacturer's data



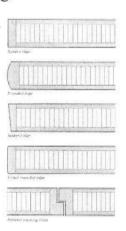
Door Repair & Upgrading

BS 8214 1990

To re-attach hardwood lippings or loose frames up to 30mins use BS 1204 rated glues

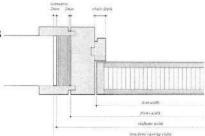
For 60 mins or more use WBP (weather proof & boilproof)

Intumescent pastes to fill small holes & cracks



Door Repair & Upgrading

Frames need to be close fitted into their openings with correctly installed architraves



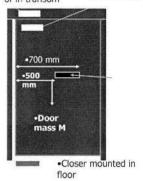
Wood based doors and frames - Table 2- 30 minutes

Table 3- 60 minutes

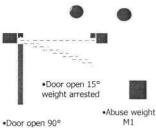
Door Repair & Upgrading		
Glazing		
Cutting apertures on site strongly deprecated - specific settings on each type eg 5mm all round for Georgian	60 minute doors should not be site glazed	
Examples of glazing apertures		
Door Repair & Upgrading		1 lock
Latches Minimum amount o		3 of Dock
	on is smooth re - lubricate ry	THICKNESS
Door Repair & Upgrading		
DD 171: 1987		White the state of
Sets about ten criteria for a door's suitability in service		
 Y Duty categories Y Strength Y Stability Y Robustness Y Opening & closing forces 	,	
Similar requirements will be in CE marked fire doors!		

Test door

•Closer mounted on or in transom •Closer mounted on or in door



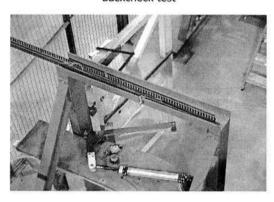
Closing overload test



•Door open 90° closer set to close door in 10 secs

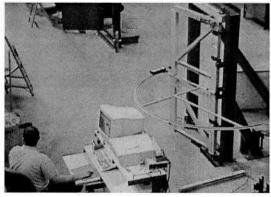
Door Repair & Upgrading

Controlled door closing devices to BSEN 1154: 1997 Backcheck test



Door Repair & Upgrading

Controlled door closing devices BSEN 1154: 1997 Endurance cycle tests - 25 before fire test





Steel Doors & Frames

Custom matched only!

Not insulating by default

High security / hygiene

Door Repair & Upgrading



Steel Doors & Frames

Some systems do not require intumescent seals

Smoke seals will be necessary in most cases

Door Repair & Upgrading

Shadmaster 60 door construction Sinch narrow larminated Spruce core concealed timber lipping

Door Blanks

Can be faced in 2mm veneer to customers choice

Can be cut to size and specified hardware or glazing added



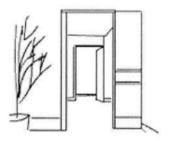
Additions

- •Many approved items are available
- Kick strips & trolley guard plates either only glued on or very short screws used

Door Repair & Upgrading

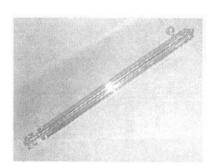
Self-contained release devices SCRD's

See notes in CFOA Policy March 2003





Door Repair & Upgrading



Additions

All bolts should be fitted on faces, never on edges as seal action would be impaired

Panic Bars BS EN 1125

Carry 9 digit classification:

- 1 Category of use
- 2 Durability of use
- 3 Test Door mass
- 4 Fire Resistance
- 5 Safety
- 6 Corrosion
- 8 Projection of Bar
- 9 Type of operation



Door Repair & Upgrading

Heritage Buildings Problems & Solutions





Door Repair & Upgrading



Period & Listed buildings present particular problems:

English Heritage may prevent unsightly alterations

Public access forces owners to make fire safety improvements

(eg Hotels & Guesthouses)



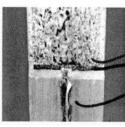
'Reversible' Upgrading

Class 0/1 & Fire Resistance Intumescent varnishes Intumescent papers for deeply fielded doors and panels Clear fire glasses

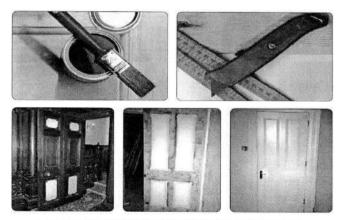
Door Repair & Upgrading



Clear intumescent coating on fielded panel door



JSECTION __ INTIMIMISENT.
BRUSH
ENCLOSED LIP



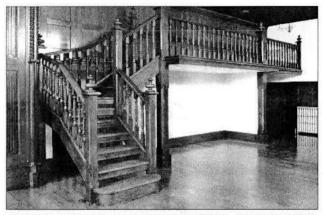
FIRE PROTECTION UPGRADES FOR EXISTING PANELLED DOORS
MAINTAINS THE ORIGINAL CHARACTER OF THE DOOR
MAINTENANCE-FREE FOR YEARS OF TROUBLE-FREE PROTECTION

Adjoining Structures

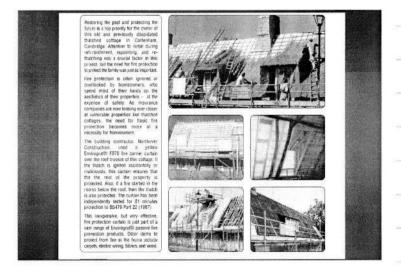


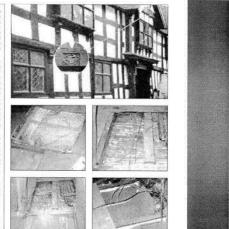


Systems available For lath & plaster ceilings, cornices & architraves to achieve one hour



UPGRADE PANELLING, LEDGED/BRACED DOORS, PANELLED DOORS RAISED/FIELDED DOORS, AND MANY OTHER WOOD SURFACES TO CLASS 0 / CLASS 1 OR 30-60 MINUTES OF FIRE PROTECTION









ABBEY HOUSE NURSING HOME FITTED ENVIROGRAF® SOLUTIONS

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