WORK INSTRUCTION – QMARK FIRE-DOOR PLUGS

WI 0034 Rev 06

ABSTRACT

Qmark Plug Selection and Location – Updated Instruction

Halspan - Global Assessments

For Compliance with the Current Global Assessments on the following, Fire Door Types.

• FD30S (Optima)	(Chilt/A01204)	Revision G
• FD30S (Prima)	(FEA/F97174)	Revision J
• 30 Prima / Optima Panelled – 30 Minute Fire Resistance Doorsets	(FEA/F97097)	Revision I
• FD60S (Optima)	(FEA/F01205)	Revision I
• FD60S (Prima)	(FEA/F96103)	Revision 0
• Prima Panelled Doorsets 60 Minute Fire Resistance Assessment	(Chilt/A01015)	Revision D
• FD90S	(Chilt/A05151)	Revision K
• DF120S	(BMT/CAN/F15082)	Revision F

Plug Definitions

Outer colour: Period of fire integrity resistance

Inner tree colour: Status of manufacture of leaf, frame, doorset

	Yellow Outer	**30 minute** fire integrity period (FD 30). Used for either partial or complete doorsets
	Blue Outer	**60 minute** fire integrity period (FD 60). Used for either partial or complete doorsets
	Brown Outer	**90 minute** fire integrity period (FD 90). Used for complete doorsets only
	Black Outer	**120 minute** fire integrity period (FD 120). Used for complete doorsets only

Plug Requirements

Door Leaf or Door Frame	
(Red)	Fitted within the appropriate outer plug to a door leaf or door frame to identify that it is a Q-Mark approved door leaf or door frame. The leaf and frame could come from different Q-Mark certified fire door manufacturers. The door leaf or door frame will not be in a finished state. It may not be fully prepared for the required intumescent strips or hardware. Therefore further work is needed to be carried out before the door leaf assembly is ready to be hung into a door frame. Clear instructions for further processing and installation of the door assembly must be supplied by the Q-Mark certified fire door manufacturer relating to a specific Initial Type test or Global Assessment within their scope of certification.
(Green)	Fitted within the appropriate outer plug to a door leaf or door frame to identify that it is a Q-Mark approved door leaf or door frame. The leaf and frame could come from different Q-Mark certified fire door manufacturers. **The door leaf or door frame may not be in a finished state. It must be fully prepared for all the required intumescent strips around the perimeter gap, which can be either fitted or supplied loose but must be supplied. If the intumescent strips are supplied loose, they must be clearly identified tothe appropriate door leaf or frame to which they will be fitted.** The door leaf or frame might not be fully prepared for all of the appropriate hardware, in which case it must be clearly specified which hardware and any required associated intumescent protection is to be finally fitted at a later date by others. Clear instructions for the further processing and installation of the door assembly must be supplied by the Q-Mark certified fire door manufacturer relating to a specific Initial Type test or Global Assessment within their scope of certification.
(Orange)	Fitted within the appropriate outer plug to a door leaf only if glazing is in the door leaf, This plug is in addition to all other required plugs, to identify that glazing has been specified and fitted to the door leaf by a Q-Mark certified fire door manufacturer as per the same Initial Type Test or Global Assessment used to manufacture the door leaf. If glazing is included within a sidelight or fanlight (not within the door leaf), then the glazing system may be finally fitted on site, in which case clear installation instructions must be provided by the Q-Mark certified fire door manufacturer relating to a specific initial Type Test or Global Assessment within their scope of certification.

Complete Door Set - Silver Plug

Complete Doorset	
 (Silver)	Fitted within the appropriate outer plug to a door leaf and/or door frame to identify that it is a Q-mark certified (factory hung) doorset. There will be no further preparation work carried out to either the leaf or frame before it can be fitted into the building. It is permissible for hardware such as locks, hinges or door closers etc. to be finally fitted during the installation process, but the preparations to accept the hardware will have been completed by the Q-Mark certified fire door manufacturer. The hardware along with the supply of any required intumescent protection materials must be supplied by the Q-Mark certified fire door manufacturer. Clear instructions for further processing and installation of the doorset must be supplied by the Q-Mark certified fire door manufacturer relating to a specific Initial Type Test or Global Assessment within their scope of certification. The final assembly and installation of the doorset should be able to be completed with simple tools only, such as a screwdriver. No further preparations are allowed to be completed by the installer other than appropriate pilot holes for screws etc.

A Fire Door as supplied may require more than one plug depending:

- Approved Door leaf and Frame (FD30 & FD60 Only) intumescent strips not supplied
- Approved Door leaf and frame (FD30 & FD60 Only) intumescent strips prepared for and supplied
- Approved factory fitted glass
- Completely certified factory hung door set
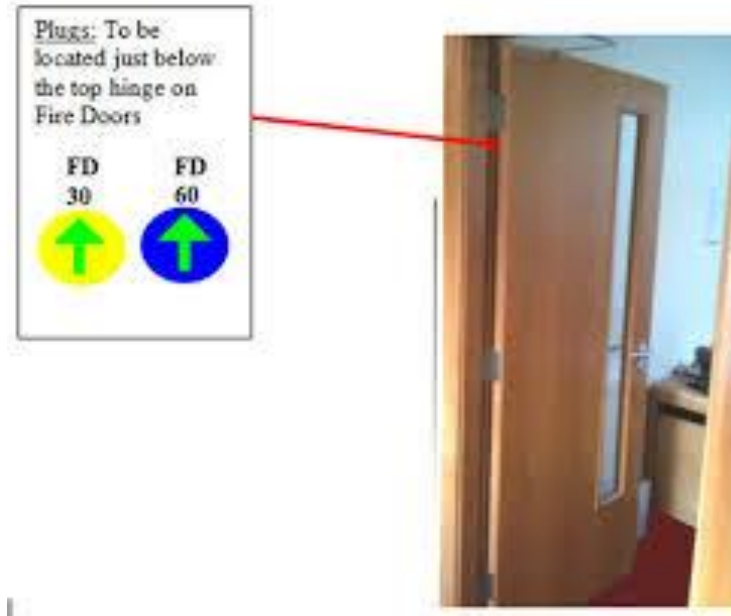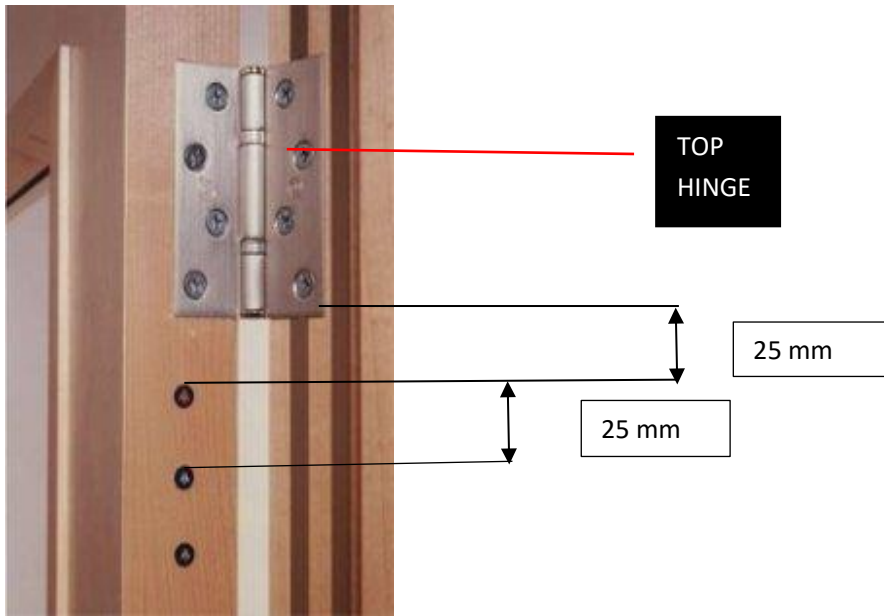- Certified Installation of a complete factory hung door set

Important

A Fire door may contain more than one plug depending on the method of manufacture and the content of the door leaf.

The plugs used must fully represent the combined status of the door given the criteria shown above

Gold Tree / Plug colour to match fire resistance

Colour drilled/ placed by Qmark certified Installer

Location

TOP HINGE

25 mm

25 mm

Plugs: To be located just below the top hinge on Fire Doors

FD 30

FD 60

Updated Qmark fire door – No . Plug/ frame requirements (7/9/2022)

Approved door type (FD30 + FD60 Only)	Tree inserts colour	Rational
Fire Door	Red	Intumescent strips not supplied
Fire Doors	Green	Intumescent grooves machined in frame / door and intumescent supplied (Loose or fitted)
Glazing	Orange	Whenever factory fitted glazing occurs an orange tree must be fitted separately
Complete door sets	Silver	When a complete door set is supplied with Ironmongery and intumescent fitted

No of plugs	Colour of tree	Fire Door Rating	Tree / Plug Colours	Requirement
1	Red	FD30S FD60S		**Fire Door only – no intumescent / no grooves cut for intumescent** **No Glazing**
2	Red / Orange	FD30S FD60S		**Fire Door only – no intumescent / no grooves cut for intumescent** **Plus Glazing**
1	Green	FD30S FD60S		**Fire Door only Intumescent supplied / grooves cut**
2	Green / Orange	FD30S FD60S		**Fire Door only Intumescent supplied / grooves cut** **Plus Glazing**
1	Silver .	FD30S FD60S		**Complete Fire door set / hung with Ironmongery + intumescent fitted** **No Glazing**
2	Silver + Orange	FD30S FD60S		**Complete Fire door set / hung with Ironmongery + intumescent fitted** **Plus Glazing**

No of plugs	Colour of tree	Fire Door Rating	Tree / Plug Colours	
1	Silver	FD90S		**Complete Fire door set / hung with Ironmongery + intumescent fitted** No Glazing
2	Silver + Orange	FD90S		**Complete Fire door set / hung with Ironmongery + intumescent fitted** Plus Glazing
1	Silver	FD120S		**Complete Fire door set / hung with Ironmongery + intumescent fitted** No Glazing
2	Silver + Orange	FD120S		**Complete Fire door set / hung with Ironmongery + intumescent fitted** Plus Glazing

Qmark Plug Identification Guide

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Fire Door Certification Scheme

Outer colour - period of fire integrity.
Inner/tree colour - status of manufacture.
Unique certified company's number.

Outer colour –
Period of fire
integrity (mins)

30	60	90	120
(Yellow)	(Blue)	(Brown)	(Black)

Inner/Tree colour

(Red) Approved door leaf and/or frame* (FD30 & FD60 only). Intumescent strips not supplied.

(Orange) Approved factory fitted glazing.

(Silver) Complete certified factory hung doorset.

(Green) Approved door leaf and/or frame* (FD30 & FD60 only). Intumescent strips prepared for & supplied.

(Gold) Certified installation of a complete factory hung doorset.

*Where the frame and leaf are produced by separate Q-Mark companies, both the frame and leaf must have their own red/green plug.

For details of the scheme and list of certified companies visit www.bmtrada.com or call +44 (0) 1494 569960

DFL Type	Door Type	Plug Type	Insert Colour		

	P1	FD30	Yellow	Red	Approved door leaf and/or frame (FD30 &FD60 only). Intumescent strips not supplied	
	P2	FD30	Yellow	Green	Approved door leaf and/or frame (FD30 &FD60 only). Intumescent strips prepared for (machined out) & supplied	
	P3	FD30	Yellow	Orange	Approved factory fitted glazing	
	P4	FD30	Yellow	Silver	Complete Certified factory hung door set	

Note

Where the frame and leaf are produced by seperate Qmark Certified Companies , both the frame and leaf must have their own red / green plugs with the unique identification no. of the companies that made them , each Tree has a tracability number that is uniuee to the certified manufactuer .

DFL Type	Door Type	Plug Type	Insert Colour		
P6	FD60	Blue	Red	Approved door leaf and/or frame (FD30 &FD60 only). Intumescent strips not supplied	
P7	FD60	Blue	Green	Approved door leaf and/or frame (FD30 &FD60 only). Intumescent strips prepared for (machined out) & supplied	
P8	FD60	Blue	Orange	Approved factory fitted glazing	
P9	FD60	Blue	Silver	Complete Certified factory hung door set	

Note

Where the frame and leaf are produced by sperate Qmark Companies , both the frame and leaf must have their own red / green plugs

DFL Type	Door Type	Plug Type	Insert Colour		
P11	FD90	Brown	Silver	Complete Certified factory hung door set	
P12	FD90	Brown	Orange	Glazing Fitted in fire door	

DFL Type	Door Type	Plug Type	Insert Colour		
P13	FD120	Black	Silver	Complete Certified factory hung door set	
P14	FD120	Black	Orange	Glazing Fitted in fire door	

Door + Frame Labelling

Each Door and Frame will carry the following marking to identify product.

- **DFL Job No. (Example J1234)**
- **Customer Specific Code for Door, Frame or Door + Frame (Example D-02 -001)**

Fire Door Certification Scheme

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Outer colour - period of fire integrity.
Inner/tree colour - status of manufacture.
Unique certified company's number.

Outer colour - Period of fire integrity (mins.)

30 (Yellow) 60 (Blue) 90 (Brown) 120 (Black)

Inner / Tree Colour

(Red) Approved door leaf and/or frame* (FD30 & FD60 only). Intumescent strips not supplied.

(Green) Approved door leaf and/or frame* (FD30 & FD60 only). Intumescent strips prepared for & supplied.

(Orange) Approved factory fitted glazing.

(Silver) Complete certified factory hung doorset.

(Gold) Certified installation of a complete factory hung doorset.

*Where the frame and leaf are produced by seperate Q-Mark companies, both the frame and leaf must have their own red/green plug. Painting or covering over the Qmark plugs will immediately invalidate the fire door certification.

Note

Extract from Qmark update Bulletin

PLUG REQUIREMENTS
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Document Description	Document No.	Rev No	Change Detail	Issue Date
Work Instructions for Qmark fire door plugs	WI-0034	Rev 0	Initial Doc No Changes	23/8/2018
Work Instructions for Qmark fire door plugs	WI-0034	Rev1	Add detail on all Halspan Global Assessments in use Add extract from Qmark Bulletin	29/10/2019
Work Instructions for Qmark fire door plugs	WI-0034	Rev 2	Add updated references for current versions of HALSPAN Global assessments	19/9/2020
Work Instructions for Qmark fire door plugs	WI-0034	Rev 3	BmTrada Qmark identification guide Artwork added to page 4	30/9/2020
Work Instructions for Qmark fire door plugs	WI-0034	Rev 4	Update with latest field of application latest revisions	23/9/2021
Work Instructions for Qmark fire door plugs	WI-0034	Rev 5	Update with latest field of application latest revisions	30/8/2022
Work Instructions for Qmark fire door plugs	WI-0034	Rev 5	Update work instruction following Qmark audit finding – Clarify tree/ plug type depending on door / frame type	8/9/2022