



a Bodycote [Materials Testing Engineering and Technology] Company
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Report Sponsor	Issue Date
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Introduction

The element of construction described below was tested by this laboratory on behalf of the test applicant in accordance with the stated test standard and achieved the results stated below. Refer to the referenced test report(s) for more information.

Referenced Report	Report Date	Test Standard
BWA 2269400a	3/07/2008	BS 476: Parts 20 & 22: 1987 Section 6

Description of Product

Door	Glazing details	Leaf & frame details	Frame & other Intumescent Seals
A	Viewable size - 745 mm high x 545 mm wide. Overall size – 805 mm high x 605 mm wide. Glazing – GWPP 6 mm thick safety glass. Seals – EP102PE-N (aka VP 80319-3) with 2 mm x 54 mm Palusol liner. Glazing beads – Sapele, nominal density minimum 692 kg/m ³ (measured).	2040 mm high x 930 mm wide x 55 mm thick Halspan Door. Solid timber frame 70 mm wide x 32 mm thick with pinned door stop of nominally 15 mm deep x 20 mm wide.	Lorient LP2004DS (Type 617 – 20 mm x 4 mm Intumescent Fire and Smoke Seal interrupted by hinges and latch striker plate) was rebated within the perimeter of the frame central to the rebate (head and jambs). Hinge areas were additionally protected with 1mm thick Lorient Intumescent Hinge Protection Pads. Mortice lockset was additionally protected with 1mm thick Lorient Intumescent Lock liner.
B	Viewable size - 1395 mm high x 145 mm wide. Overall size – 1455 mm high x 205 mm wide. Glazing – GWPP 6 mm thick safety glass. Seals – EP102PE-N (aka VP 80319-3) with 2 mm x 54 mm Palusol liner. Glazing beads – Sapele, nominal density minimum 692 kg/m ³ (measured).		

Description of tested Construction

The tested assembly comprised 2-off doorsets (Doors A & B). The specimen comprised a 140 mm thick hollow core concrete block wall which incorporated openings for the doorsets (as described above). The doorsets were both installed to swing towards the furnace. Refer to Figure 1 for specimen arrangement. Only a brief description is included in this certificate please refer to full test report for full description.

Notes

THIS CERTIFICATE IS PROVIDED FOR GENERAL INFORMATION ONLY.

Reference should be made to the relevant test report to determine the applicability of the test result to a proposed installation.

Because of the nature of fire resistance testing and the consequent difficulty in quantifying the uncertainty of measurement of fire resistance, it is not possible to provide a stated degree of accuracy of the result.

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Summary of Fire Resistance

The specimen achieved the following performance when tested in general accordance with BS 476: Part 22: 1987 Section 6 as appropriate.

DOOR A	
Loadbearing Capacity	Not applicable
Integrity	73 minutes ¹ Failure by sustained flaming by virtue of flames on unexposed side at head of doorset.
Insulation	69 minutes Insulation failure deemed to occur at mid-width of timber frame.
DOOR B	
Loadbearing Capacity	Not applicable
Integrity	69 minutes ¹ Failure by sustained flaming by virtue of flames on unexposed side at lockset.
Insulation	69 minutes Insulation failure deemed to occur at time of integrity failure.

Note: ¹ Integrity failure was not attributed to failure of glazing of doorset.

Description of tested construction



Door B

Door A

Door A

Door B

Figure 1 – Exposed face of Tested Specimens prior to test

Figure 2 – Unexposed face of Tested Specimens prior to test