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**ASSESSMENT ON FIRE RESISTANCE OF TIMBER BASED DOOR**  
**WITH GALLFORD FIRE / SMOKE SEAL SYSTEMS**

**Introduction**

We were requested by Shanghai Gallford Fire Sealing Material Company Limited to provide an assessment for the fire resistance performance of timber based door incorporating with Gallford fire / smoke seal system. This report presents an appraisal of fire resistance performance of a tested timber based or composite timber doors with specific fire / smoke seal systems at the particular supporting structure as tested and recorded in the testing report numbered IT17-195 and IT17-141, which are required to achieve not less than 60 or 120 minutes integrity and insulation in according to BS EN 1634-1.



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<b>Report Issue Record:</b>	Version 1 – 2019-07-05: First Issue
	Version 2 – 2024-08-09: Update the validity of report This report replaces the report with number IA19-110

## 1. Assumptions and Limitations

It is assumed that the proposed assembly will be installed to a suitable fire resisting structure, such as a masonry or reinforced concrete structure, which can provide the required supporting fire resistance period. The materials and constituents of the proposed assembly are in a similar manner and quality as tested or otherwise appraised by Forte Testing and Consultants Company Limited (FORTE). This assessment may only be reproduced in full by the applicant.

## 2. Background

The test reports stated below have been reviewed against current test procedures by the professional and competence organization and user to ensure that the results are still valid. These reports are record of the specific tests conducted according to a standard BS EN 1634-1: 2008 current at the time and, as such, there is no expiry date for the test reports. Changes in test procedures may have a bearing on the result of the test and consequently whether the test report still valid from a) Amendments to particular test method; b) withdrawal of a particular test method; and c) amendment to end-use regulations that disallow a particular test method. The standards of BS EN 1634-1: 2008 still in used as a supporting testing method of the passive fire system stated in Code of Practice for Fire Safety in Buildings issued by Buildings Department, -The Government of the Hong Kong Special Administrative Region. Our recommendation on reviewing the reports can be periodically to ensure the test standard is still updated and continue to satisfy the relevant regulatory requirements. Therefore the validity/status of the mentioned reports are not affected when the sponsor or manufacturer of the specimens is confirmed the methods of construction and material used as same as originally tested.

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**Appendix – Summary table of seals**

**Type: Casing Only** 

Profile Size (mm)	Product Number
20 X 4	YZ2004*
20 X 6	YZ2006*
25 X 4	YZ2504
30 X 4	YZ3004
30 X 6	YZ3006*
38 X 4	YZ3804

**Type: Side Flipper** 


Profile Size	Product Number
20 X 2	RM2002*
20 X 4	RM2004
25 X 2	RM2502*
25 X 4	RM2504
30 X 2	RM3002

**Type: Triple Flipper** 

Profile Size (mm)	Product Number
20 X 4	YZ2024-1*
25 X 4	YZ2524-1
30 X 4	YZ3024-1

**Type: Smoke Seal** 

Profile Size	Product Number
12 x 12	AD006*

**Type: Side Flipper** 

Profile Size	Product Number
10 X 4	YZ1024-2*
15 X 4	YZ1524-2
20 X 4	YZ2024-2
25 X 4	YZ2524-2
30 X 4	YZ3024-2

**Type: Smoke Seal** 

Profile Size	Product Number
14 x 34	GF-B09*

**\*Tested seal stated into report IT17-195 and IT17-141**