1. INTRODUCTION

The test was conducted in accordance with BS EN 1634-1:2014+A1:2018+AC:2018, "Fire resistance and smoke control tests for door and shutter assemblies, openable windows and elements of building hardware - Part 1: Fire resistance test for door and shutter assemblies and openable windows", to determine the 34-minute fire resistance of a Fire Rated Wooden Door specimen, which contained building hardware components.

The test samples were exposed to elevated temperatures as dictated by the time-temperature curve given in BS EN 1363-1:2020, "Fire resistance tests - Part 1: General Requirements" for a period of 34 minutes.

The test was conducted on Jan 27,2026.

2. SUMMARY

The Fire Rated Wooden Door specimen satisfied the performance requirement for the following periods:

PERFORMANCE CRITERIA	RESULTS	
Integrity	Sustained flaming	32 minutes
	Gap gauge test	32 minutes
	Cotton pad test	32 minutes
Insulation	Door leaf	32 minutes
	Door frame	32 minutes

The test was discontinued after a period of 34 minutes at the request of the sponsor.

3. SPECIMEN CONSTRUCTION AND INSTALLATION

Test sample and drawing were provided by the sponsor.

A description of the test assembly was given in the table below. The description of the specimen was based on information provided by the sponsor of the test. All values quoted below were nominal unless tolerances were given.

The drawing of the Fire Rated Wooden Door can be found in Figure 1.

The upper, left and right sides of the sample were fixed with iron plates within the wall frame. The test assembly was built into a concrete masonry unit partition, with fully mortared joints.

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Unexposed face after 34 min of testing



Unexposed face after testing

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