

Test Report

Report No.: AJFTS25000286R01

Date: Apr 28, 2025

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SEDNA (HOLDINGS) LTD

7/F., DAWNING HOUSE, 145 CONNAUGHT ROAD CENTRAL, SHEUNG WAN, HONG KONG

Sample Description : STEEL MATERIAL FIREPROOF DOOR
Color : GREY
Thickness : 100mm
Composition : STEEL
Buyer : SEDNA (HOLDINGS) LTD

The above sample(s) data and information was / were submitted and identified on behalf of the client. SGS is not responsible for the authenticity, integrity and results of the data and information and / or the validity of the conclusion arising therefrom. Results apply to the sample as received.

Sample Receiving Date : Jan 16, 2025

Testing Period : Jan 16, 2025 to Feb 10, 2025

Test Required : EN 1634-1:2014+A1:2018 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.

Test result(s) : See attached sheet

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Anji Branch

Zho

Echo Li
Approved signatory



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1. Introduction

To determine the fire resistance performance of single leaf steel fire door with vision panel when tested in accordance with EN 1634-1:2014+A1:2018.

The fire door specimen was exposed to a time-temperature curve as dictated by the clause 5.1 of EN 1363-1:2020 for a period of 121min.

The test was conducted on FEB.10, 2025.

2. Test Specimen

The fire door specimen was received on JAN.16, 2025, and was stored in the laboratory until FEB.10, 2025.

During the storage of the specimen, the temperature and humidity of the laboratory were measured and recorded as being within a range of from 10°C to 15°C and 41% to 68% respectively. The specimen was installed on FEB.10, 2025.

According to the drawings and information provided by client and the measurement on the scene, the structure of single leaf steel fire door with vision panel specimen was as follows:

Door frame: The overall dimensions were 1140mm wide by 2105mm high by 105mm deep, the clear size was 1040mm wide by 2035mm high, it was made of 1.5mm thick galvanized steel plate.

Door leaf: The overall dimensions were 995mm wide by 2007mm high by 62mm thick. The interior of the door leaf was filled with perlite and Mgo board for heat insulation. The main structure of the door leaf was 0.8mm thick galvanized steel plate + Mgo board + perlite + 0.8mm thick galvanized steel plate from the exposed face, with a total thickness of 62mm. Four hinges were installed at one side of the door leaf, and a #918902 type fire lock was installed at 1000mm from the bottom of the door leaf on the other side. A vision panel with dimensions of 200mm wide by 600mm high was installed next to the fire lock, with a distance of 150mm from the side and 260mm from the top of the door leaf.

For details see Figure 1 of the structural drawing of the specimen provided by the client.

The fire door was mounted within apertures provided within a masonry wall construction such that the door leaf opened away from the heating conditions of the test.

The door gaps were measured before the test as shown in Figure 2



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Unexposed face of the specimen (After test duration of 120min)



Unexposed face of the specimen (After test duration of 150min)



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