

Reference No. FTL-14/40



FACULTY OF ENGINEERING
CHULALONGKORN UNIVERSITY
FIRE TESTING LABORATORY

- TYPE OF TEST** : DETERMINATION OF FIRE RESISTANCE OF NON-LOADBEARING ELEMENTS OF CONSTRUCTION
- TEST SPECIMEN** : **UNINSULATED METAL FIRE DOOR**
DOOR TYPE : FIRE RESISTANT STEEL DOOR
MODEL : SD (ROCKWOOL)
DOOR INFILL : ROCKWOOL
FRAME TYPE : SMC TYPE SINGLE REBATE 50X100, 1.6¹ mm SPCC (WITH SUS304 SILL WITH PRIMER)
FRAME SIZE : 907x 2011 mm.
DOOR SIZE : 900x 2000 mm.
INNER FRAME : 2.3¹ mm **ALL LINER**: 2.3¹ mm
HARDWARE : LOCKSET 'GOAL' UC5Q
HINGE 'SUEHIRO' 6"x3 pieces (FLAG HINGE)

The specimen was mounted in an 15-cm thick reinforced concrete wall, which was cast to the testing frame. The specimen was provided and installed to the testing frame by the client.

- CLIENT** : SUN METAL CO.,LTD.
- DATE OF TEST** : September 13, 1997
- TEST MACHINE** : Large-scale furnace at the Fire Testing Laboratory, Department of Civil Engineering Chulalongkorn University. The furnace is capable of producing a standard temperature-time relationship according to several fire resistance standards including BS 476 Part 20: 1987.
- TEST METHOD** : Testing procedures follow the British Standard **BS 476: Fire tests on building materials and structures**
BS 476 Part 20: 1987 : Method for determination of the fire resistance of elements of construction (general principles)
BS 476 Part 22: 1987 : Methods for determination of the fire resistance of non-loadbearing elements of construction: Section 8: Determination of the fire resistance of uninsulated doorsets and shutter assemblies.
- TEST RESULTS** : The element of construction described above satisfied the following criteria for fire-resistance for the period stated:
(The results are good only for the specimen tested.)

Integrity - no failure at 241 minutes

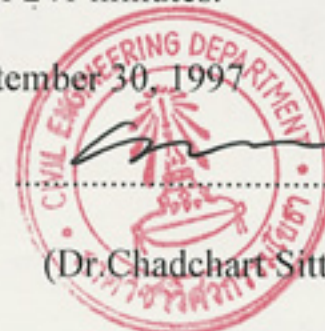
The test was discontinued after a period of 241 minutes.



(Assoc.Prof.Dr.Boonsom Lerdhirunwong)
On behalf of Head of Civil Engineering Department

Date : September 30, 1997

Tested by



(Dr.Chadchart Sittipunt)