

รูปภาพ แสดงการทดสอบประตูลีทเทนไฟ 3 ชั่วโมง แบบบานเรียบทึบ

ทดสอบตามมาตรฐาน BS476 Part 20 : 1987 , BS476 Part 22 : 1987



ผลทดสอบการทนไฟ ของประตูเหล็กทนไฟ 3 ชั่วโมง แบบบานเรียบทึบ

ทดสอบตามมาตรฐาน BS476 Part 20 : 1987 , BS476 Part 22 : 1987

Reference No. FSRC-004/51

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FACULTY OF ENGINEERING
CHULALONGKORN UNIVERSITY
FIRE SAFETY RESEARCH CENTER



- TYPE OF TEST** : DETERMINATION OF THE FIRE RESISTANCE OF NON-LOADBEARING ELEMENTS OF CONSTRUCTION
- TEST SPECIMEN** : SUPA RICH STEEL DOOR (MODEL SD1)
The specimen is a Supa Rich steel door (Model SD1) with a single-sided door leaf of dimension 900 mm x 2000 mm x 40 mm. The specimen was mounted in a 15 cm thick reinforced concrete wall, which was installed to the 3 m x 3 m testing frame. The details of the specimen are shown in Appendix C. The specimen was provided and installed by the client.
- TRADEMARK** : SPR
- CLIENT** : SUPA RICH LIMITED PARTNERSHIP
1205 Prachacean Soi36, Prachacean Road
Bangsae, Bangkok 10800
Thailand
- DATE OF TEST** : May 8, 2008
- TEST MACHINE** : Large-scale vertical furnace (Fire Tester III) at the Fire Safety Research Center (FSRC), Department of Civil Engineering, Chulalongkorn University (Thailand). 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** : The 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 6: Determination of the fully insulated doorsets and shutter assemblies.
- TEST RESULTS** : The non-loadbearing element of construction described above has the fire resistance of each criterion for the period stated:
(The test results are good only for the specimen tested.)

Criteria	Fire Resistance (hr:min)	Remarks
Insulation	0:45	The average temperature of the unexposed face of the specimen exceeded 140°C above its initial value of 49 °C.
Integrity	3:10	Sustained flaming at the top-middle edge of the specimen

Date: May 28, 2008

Tested by:
(Assistant Prof. Dr. Suched Likitlersuang)

(Associate Prof. Dr. Chadchart Sittipunt)

(Associate Prof. Dr. Thanawat Pothisiri)

(Assistant Prof. Dr. Chantan Chintanapakdee)

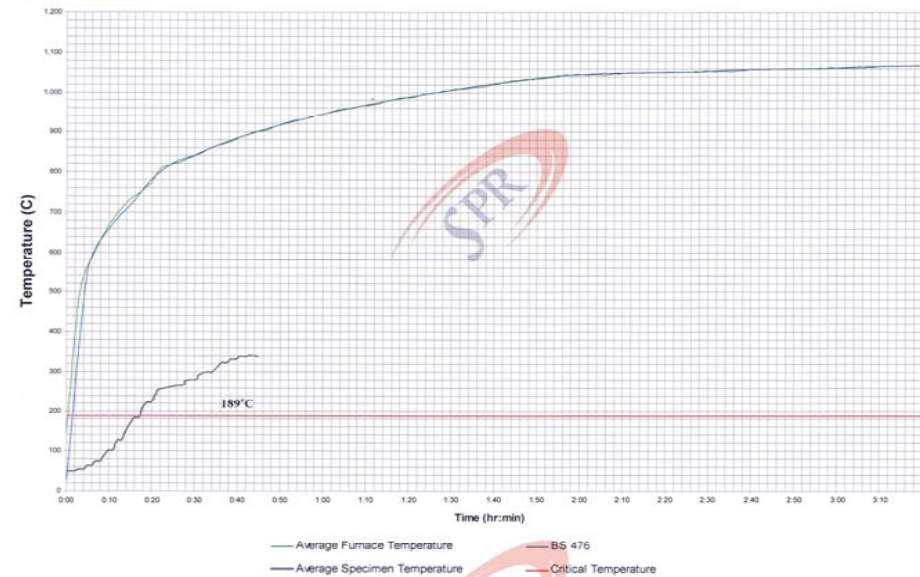
On Behalf of Head of Civil Engineering Department

Fire Safety Research Center, Faculty of Engineering, Chulalongkorn University

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FURNACE TEMPERATURE



(Mr. Sindhong Promprasit)
Authorized Testing Officer