

FAÇADES

Vertical fire spread

France's IT 249 regulations



FIRE TESTING CENTER • Laboratory approved by the French Ministry of the Interior

LEPIR 2 test



The Fire Testing Centre's test bed and erection resources are at your disposal for experimental appraisal and validation of your ranges of façade solutions.

In conjunction with fire-reaction experts* our specialists will help you develop the optimum configurations (worst-case scenarios) to meet your needs.

Fully-tailored services

Definition of tests, provision of products, construction of walls by approved erectors ... we organize everything in complete safety.

Expertise, Performance, Simplicity, a stone's throw from Paris.

* Approved laboratory partners: CSTB, LNE

French technical specification IT 249 states that assessment of construction solutions may require **experimental evaluation**: the LEPiR 2 test (Test setup for real fire on 2 levels).

TEST CONDITIONS

Test setup

- ▶ Two rooms on two levels, each with two windows
- ▶ Spandrel representing level L+2
- ▶ Adjustable opening for controlling air input
- ▶ Fire source: two piles of wood (totalling 600 kg)

Climate conditions

- ▶ Wind speed <3 m/s, no rain or snow

Readings and equipment

- ▶ Regulatory temperature readings (room on fire, façade/floor interface, etc.)
- ▶ Thermal flux reading at level L+1
- ▶ Video recording
- ▶ Any additional readings considered helpful for extending the range

EVALUATION CRITERIA

For the first 30 minutes of the test

- 1 Ignition and vertical spread of fire
- 2 Lateral spread of fire

Systems integrated into façade/floor interface

- ▶ Flame spread to upper floor
- ▶ Transmission of hot gas (>180°C)
- ▶ Temperature rise greater than 180°C on non-exposed side of floor

For ETICS

- ▶ Integrity of external skin above 5.2 m



VALIDATION OF CONSTRUCTION SYSTEM

Your test report will be issued with a **Laboratory Assessment** in the form of a **Conformity Report**.



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Fire testing center
45 min from Paris-Montparnasse and Orly airport
GPS : 48° 36' 11.246" N
1° 41' 5.393" E

See our videos on:
<https://www.youtube.com/user/LaboPromethee>



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