



LABORATÓRIO NACIONAL
DE ENGENHARIA CIVIL

EM TESTING
and METROLOGY

URF

Reaction to Fire Laboratory

BUILDINGS DEPARTMENT

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Scope

The Reaction to Fire Laboratory (URF) of LNEC-EM is integrated in the Buildings Department/ Building Finishes and Thermal Insulation Unit. This Laboratory has been accredited by IPAC with certificate no. L0488. It carries out fire reaction tests for which LNEC has been notified by IPQ, within the framework of the Construction Products Regulation. URF has the appropriate technical and human resources for performing state-of-the-art standard tests. Furthermore, it has the capacity to cooperate in research projects or to provide support to the industry in the development of innovative products.



Highlights

URF performs tests on construction products such as wall and ceiling coverings, ETICS, among others. The tests are carried out in the framework of both the development of new products and the EC marking, or also in support to studies of non-traditional products.



Apart from the tests performed by URF in support to the activities of technical appraisal and approval of construction materials, products and systems, it offers to external clients the possibility of performing several tests, such as: tests aiming at the final awarding of an European classification of fire reaction; indicative tests for the evaluation of the potential European classification of products or families of products; tests in support to the development or improvement of the burning behaviour of products; tests in support to the regular production control; test programmes aimed at supporting the development of indirect or simplified test methods for factory production control.

Field of expertise

URF carries out all the relevant tests for the awarding of the European classification of the Fire Reaction of construction products, namely the following: Ignitability test; non-combustibility test; determination of the calorific value; determination of the burning behaviour using a radiant source of heat (floor coverings); single burning item test (SBI).

