

**Łukasiewicz Research Network -  
Institute of Ceramics and Building Materials**

Cementowa 8, 31-983 Kraków

[www.icimb.lukasiewicz.gov.pl](http://www.icimb.lukasiewicz.gov.pl) [info@icimb.lukasiewicz.gov.pl](mailto:info@icimb.lukasiewicz.gov.pl)

**CONTACT PERSON**

**BUILDING CHEMISTRY RESEARCH GROUP**

**Klaudiusz Borkowicz**

phone: +48 12 683 79 77, +48 608 336 236

[klaudiusz.borkowicz@icimb.lukasiewicz.gov.pl](mailto:klaudiusz.borkowicz@icimb.lukasiewicz.gov.pl)



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FIRE TESTING  
OF BUILDING PRODUCTS

## Reaction to fire in accordance with EN 13501-1 – EUROKLAS system

Full classification of reaction to fire for construction products of classes A1 - F, A1<sub>FL</sub>-F<sub>L</sub> - F<sub>FL</sub>, A1<sub>L</sub> - F<sub>L</sub>.

Tests according to standards:

- non-flammability according to EN ISO 1182,
- heat of combustion of the product and components according to EN ISO 1716,
- SBI - determination of the reaction of the product to a single burning object according to EN ISO 13823,
- small flame ignitability according to EN ISO 11925-2,
- radiant panel method of floor products according to EN ISO 9239-1.

Non-combustibility and heat of combustion tests are applicable for products - classes A1 and A2

SBI test - for classes A2, B, C, D

Small flame ignitability test - for classes B, C, D, E, F

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## Fire resistance of non-loadbearing walls

Fire resistance tests of non-loadbearing walls in accordance with standard EN 1364-1 to determine:

- Integrity(E),
- Insulation(I).

Based on the test result, a fire resistance classification report is issued in accordance with EN 13501-2.

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## Fire testing of lintel beams – calculation method

Classification of lintel beams for fire resistance (R), on the basis of simplified calculations using the 500°C, isotherm method, for fire resistance (REI) of lintels occurring as wall elements, on the basis of tabulated values and on the basis of obtained calculation results, according to PN-EN 1992-1-2:2008/NA:2010P.

## The spread of fire through external walls

Determination of the degree of fire spread of non-load-bearing exterior cladding systems of suspended facades and seamless thermal insulation systems installed on the facades of buildings and exposed to external fire under controlled conditions.

Spread of fire through external walls According to PN-B-02867:2013-06



**Poland's first LARGE SCALE TEST of exterior walls of buildings according to BS 8414-1:2020-04** „Fire performance of external cladding systems. Part 1. Test method for non-loadbearing external cladding systems applied to the masonry face of a building“.



AB 054

**Fire testing of building products allows for continuous improvement of products to, provide the customer with a safe home and peaceful sleep for many years.**

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