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- THERMAL PHYSICS, THERMAL INSULATIONS

THERMAL PHYSICS, THERMAL INSULATIONS

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We perform tests of:

- construction materials and products for thermal insulation
- windows, doors, roof windows, skylights, roof hatches, gates, insulating glass panes
- sandwich panels
- bricks and masonry units, masonry mortars
- metal and glass curtain walls
- air supply devices.

In our laboratory in Katowice:

- systems for pre-insulated pipes
- products for thermal insulation in construction industry and products for thermal insulation of building equipment and industrial systems, including products made of: EPS, XPS, PUR/PIR, MW, FEF, CG, CS, PEF, PF;

we determine among other:

- thermal conductivity and thermal resistance of materials and products for thermal insulation
- thermal resistance and thermal conductivity coefficient (using the heat flow computer simulation method or at a test rig)
- characteristics related to transportation of steam, absorption of steam at long-term diffusion by products to thermal insulation, e.g. roof slabs and terraces with reversed system of thermal insulation and waterproof layers and foundation walls
- humidity, absorption and desorption of humidity, absorptiveness
- freeze-thaw resistance
- dimensional features, dimensional stability under specific constant or laboratory temperature and humidity conditions
- behaviour of thermal insulation products during compression, bending, concentrated load, tensile strength perpendicular to face surfaces
- products' water resistance and air leakage and flow characteristics of air supply devices
- emissivity of coatings on window panels' surfaces.

FIRE TESTS

ACOUSTICS

PROTECTIONS AGAINST WATER

WINDOWS, DOORS, GATES, SKYLIGHTS, CONTINUOUS ROOFLIGHTS

CONCRETE, MORTARS, ADMIXTURES

FIRE ALARM SYSTEMS

CORROSION, PROTECTIONS, REPAIR PREPARATIONS

BUILDING HARDWARE

STRUCTURAL PRODUCTS

DANGEROUS SUBSTANCES

DOMESTIC WASTEWATER TREATMENT PLANTS

FLOORING

SANITARY WARE

FASTENERS

ASBESTOS

SANDWICH PANELS

SPORTS SURFACES

FACADES

GEOTECHNICS

CALIBRATION