



ATELIER  

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**DEK**

ATELIER DEK is a brand operating since 1997 as an umbrella for technical specialists in the DEK a.s. holding. ATELIER DEK is engaged in research and development, designing waterproofing and thermal insulation systems in construction projects and specialised activities in the area of construction pathology diagnostics, waterproofing engineering, building engineering physics and energy.

[www.atelier-dek.cz](http://www.atelier-dek.cz)

# DEKPROJEKT s.r.o.

DEKPROJEKT s.r.o. is part of the ATELIER DEK brand, offering highly specialised services in the area of building insulation, building engineering physics and energy, building certification and development of construction software on the Czech and Slovak markets. Many employees of the company publish articles in professional media, lecture at conferences, teach in specialised schools and participate in the work of technical standardisation commissions. DEKPROJEKT s.r.o. is an expert institute appointed by the Ministry of Justice of the Czech Republic and an accredited international/European testing laboratory. The company also operates NEMOPAS, a service consisting in inspections of properties.



**Ing. Luboš Káně, Ph.D.**  
Technical director of DEK a.s.



**Ing. Ctibor Hůla**  
Director of DEKPROJEKT s.r.o.



**Doc. Ing. Zdeněk Kutnar, CSc.**  
Co-operating court expert



## DEK a.s.

TRADE

SERVICE

PRODUCTION

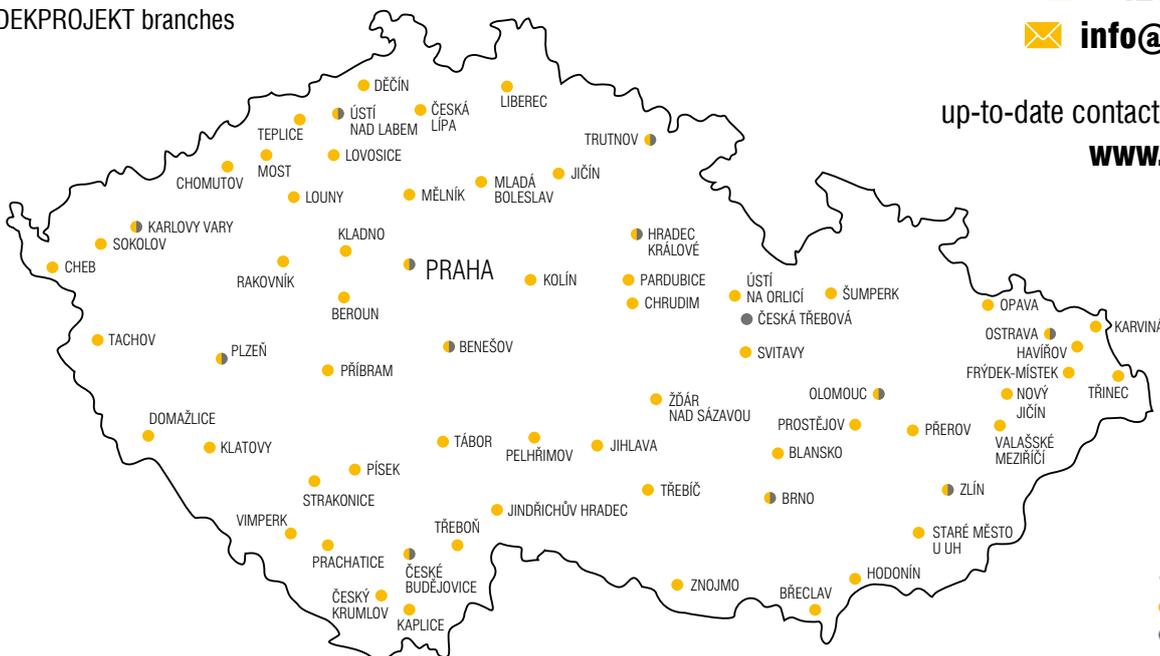


- Atelier DEK branches
- DEKPROJEKT branches

+420 234 054 284

info@atelier-dek.cz

up-to-date contacts can be found at:  
[www.atelier-dek.cz](http://www.atelier-dek.cz)



### Slovakia:

- BRATISLAVA
- BANSKÁ BYSTRICA
- KOŠICE
- ŽILINA

# SPECIALIZED SERVICES



## EASING ACCESS TO SUBSIDIES (NEW GREEN INVESTMENT SCHEME, OPERATIONAL PROGRAMME ENVIRONMENT, IROP)

Preparation of complete sets of documents and administration of applications for subsidies. Free consulting and assessment of applications at energy consulting and information centres.



## DESIGNS, SUPERVISION

Preparation of design documents in the area of insulation engineering (waterproofing, thermal insulation and soundproofing).



## EXPERT REPORTS AND EXPERT ACTIVITIES

Specialised activities in the area of insulation engineering focused on diagnostics and remedying defects and failures of building structures.



## ENERGY

Elaboration of energy documents (energy performance certificates, studies, audits, assessments) according to applicable legislation and elaboration of dynamic simulations.



## ENERGY MANAGEMENT

Consultancy and preparation in introducing, maintaining and improving energy management systems in accordance with ČSN EN ISO 50001.



## BUILDING CERTIFICATION (BREEAM, LEED)

Comprehensive certification of buildings in the relevant systems, measurements and preparation of various documents for certification purposes.



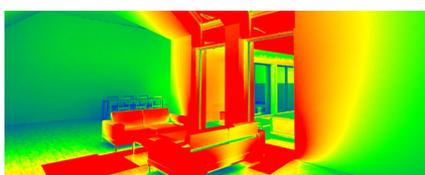
## ACOUSTICS

Accredited measurements of soundproofing, reverberation time and noise. Preparation of noise studies, designing and assessing soundproofing systems.



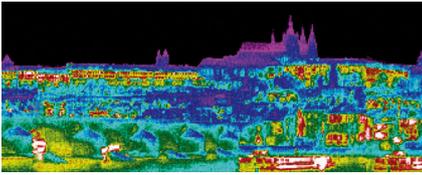
## LIGHTING AND EXPOSURE TO SUNLIGHT

Shading and sunlight exposure studies. Designing and expert reports concerning daylight and artificial lighting in buildings. Accredited measurements of artificial lighting.



## THERMAL ENGINEERING

Designing and assessment of composition and details in terms of heat and humidity spread. Assessment of thermal stability in rooms in summer and winter.



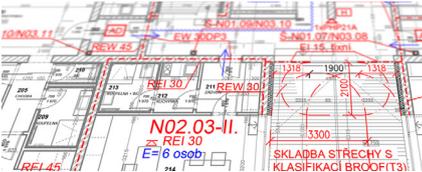
## **THERMAL DIAGNOSTICS AND BLOWER DOOR TEST**

Measuring surface temperatures and detection of thermal bridges using a thermal imaging camera. Accredited measurements of air-tightness using the blower-door method. Long-term measurements of air parameters (T, RV, CO<sub>2</sub>).



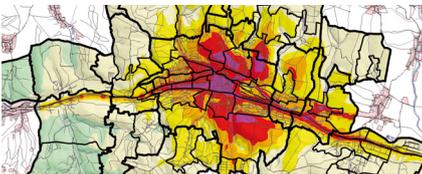
## **PASSIVE HOUSE CONCEPT** (DESIGNING AND DESIGN-RELATED SUPPORT)

Preparation of documents (energy evaluations, shading of windows and thermal bridges calculations) for houses in the passive energy standard.



## **FIRE SAFETY**

Designs and expert reports of fire-safety design of structures, certification of products, compositions and frames for the market and room integrity testing.



## **ECOLOGY** (EIA, DISPERSION STUDIES)

Preparation of EIA studies and individual documents such as dispersion studies, noise studies, life cycle assessments (LCA), environmental product declarations (EPD), etc.



## **BUILDING SERVICES**

Design of heating systems (including control), cooling, solar thermal collectors and ventilation systems for new and existing buildings.



## **STRUCTURAL ANALYSIS OF STRUCTURES AND FRAMES**

Design and structural analyses of load-bearing structures of new and restored buildings.



## **EDUCATION**

Training of the professionals and general public in the scope of our expertise. Teaching at high schools and universities.

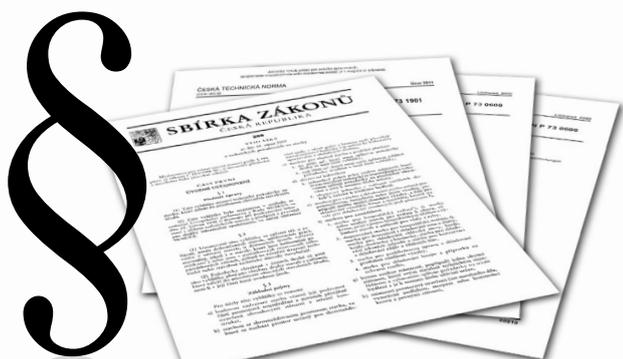


## **TECHNICAL SUPPORT FOR THE DEK SALES OF CONSTRUCTION MATERIALS**

Consultations on design and material solutions.

## DEKPROJEKT EXPERT OFFICE

In the period from 2012 to 2020, we were an expert institute. After the change of the law in 2021, we have been named as the Expert office Dekprojekt, s.r.o. The field of expertise of the expert office are residential, industrial and agricultural buildings, roofs, perimeter cladding, swimming pools and wet operations, building insulation and building physics. There are several expert witnesses in the expert office with different specializations.



## ACCREDITED TESTING LABORATORY

The laboratory has accreditation from the Czech Accreditation Institute and operates in accordance with a defined quality management system meeting the requirements of international standards. The laboratory performs the following activities:

- measurements sound proofing
- measurements reverberation time
- measurements noise levels
- measurements airtightness of buildings using the blower-door test method
- measurements artificial lighting
- measurements of artificial lighting of roads



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## NEMOPAS INSPECTION OF PROPERTIES

Nemopas includes inspection and assessment of the technical condition of properties in terms of failures and defects, as well as the risk of failures, i.e. situations where the premises show no signs of failure but a failure may appear in the future.

[www.nemopas.cz](http://www.nemopas.cz)



INSPEKCE NEMOVITOSTÍ



## DEKSOLAR

Comprehensive services in the field of photovoltaic systems from the initial design through the elaboration of the project, administration, delivery up to the installation of the system itself.

[www.deksolar.cz](http://www.deksolar.cz)



DEKSOFT is a web portal containing, in particular, a set of calculation software for the building industry, in particular energy and building engineering physics.



## BIM SOLUTIONS FOR FREE

### BUILDING LIBRARY

with an extensive database of building materials, products or structures from manufacturers across the construction market.

### PROGRAMS FOR ENERGY SPECIALISTS

(ENERGETICS, PHOTOVOLTAICS, etc.)

### PROGRAMS FOR DESIGNERS

(THERMAL ANALYSIS 1D, 2D, CAVITY, COMFORT)

### PROGRAMS FOR OTHER FIELDS

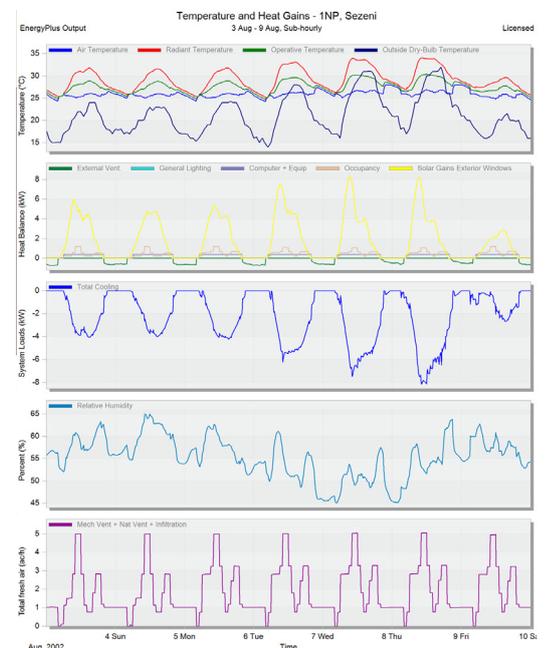
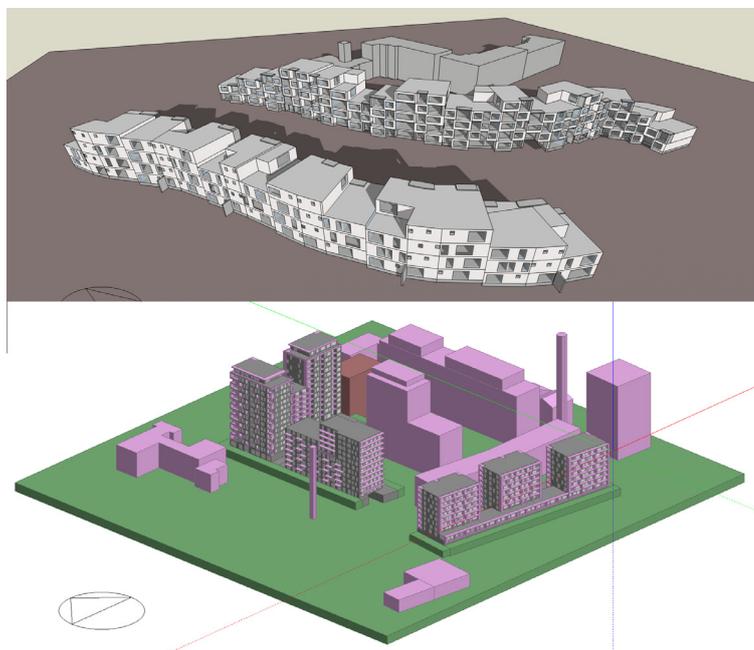
acoustics, radon, waterproofing technology, real estate inspection

### DEKSOFT SCHOOL

contains saved webinars, presentations and documents for users of DEKSOFT programs



We are an official distributor of the DesignBuilder software for the Czech Republic, Slovakia, Poland and Hungary. DesignBuilder is a calculation software for dynamic simulations and generation of 3D models. DesignBuilder contains 11 modules for various fields. The modules can also be used separately.



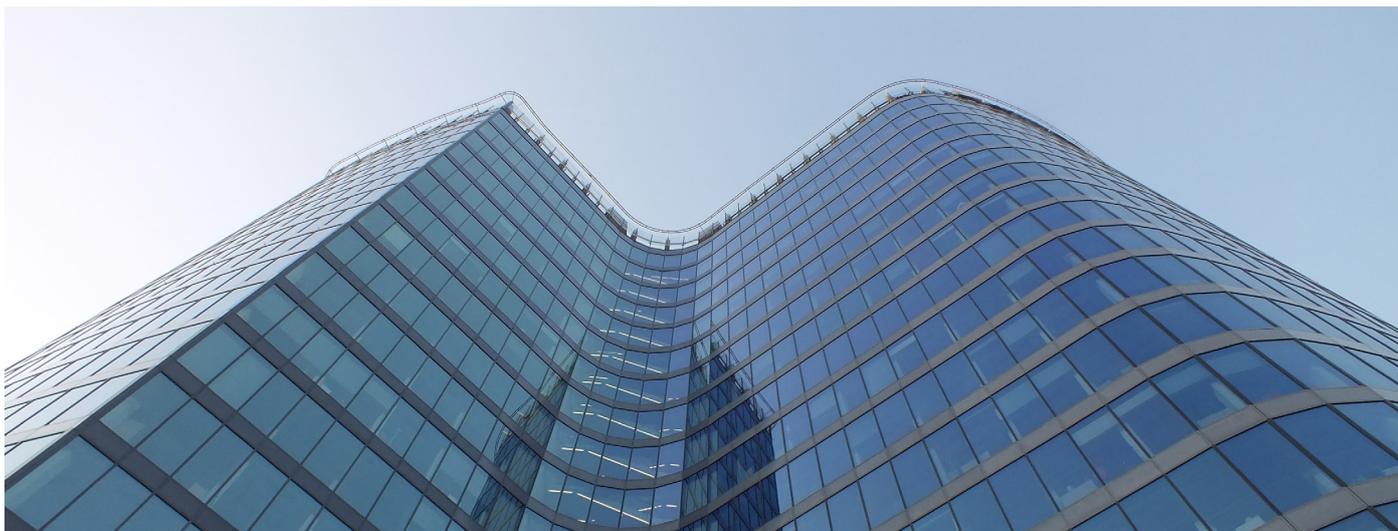
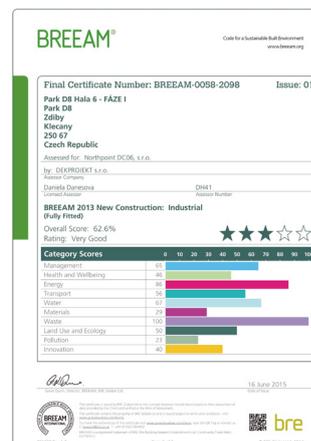
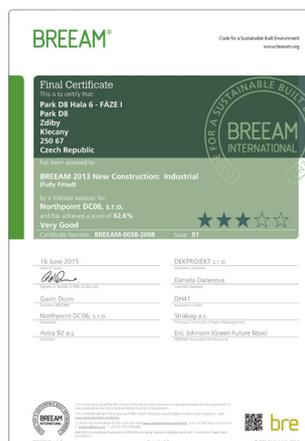
# SEMINARS, CONGRESSES, TRAINING, EDUCATION, PUBLISHING

We regularly publish our experience from commercial contracts and internal research tasks at our company website [www.atelier-dek.cz](http://www.atelier-dek.cz) and in professional media. We give lectures at seminars and conferences. We teach at secondary technical schools and technical universities. We act as supervisors of bachelor's and diploma theses and we review them. We take part in the work of technical standardisation commissions and professional associations.



## BREEAM, LEED, WELL, COMPREHENSIVE BUILDING CERTIFICATION

The BREEAM, LEED and WELL certification involves a comprehensive assessment of structures in terms of environmental impacts and user comfort. We provide comprehensive certification and preparation of individual specialised documents for the purpose of obtaining the required credits.





**Mill Colonnade, Karlovy Vary** – design documents and author's supervision in the restoration of the high-reliability composite insulation of a terrace (double waterproofing system).



**Curling hall, Prague** – thermal diagnostics and measurement of airtightness of a hall with the aim of localising defects in the roof covering.



**Aquapalace Čestlice** – room and building acoustics from design to final measurements.



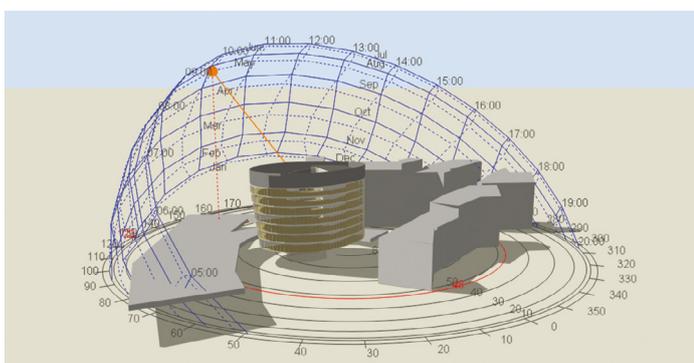
**Aquacentrum Bohumín** – expert report on the thermal and humidity characteristics of the roof covering. Design and author's supervision in repair work.



**Park D8, hall 6, stages I. and II., Zdice** – comprehensive BREEAM certification for a logistic facility with an internal volume of 550 000 m<sup>3</sup>.



**ČEVAK, a.s.** – energy audits for energy management and for 48 buildings all over the Czech Republic.



**GREEN POINT, Prague** – preparation of the CFD analysis, dispersion study and structural physics calculations for a planned administrative building.



**Janáčkovo kulturní centrum (Janáček Culture Centre), Brno** – expert report on the shading of the nearby residential, commercial and administrative buildings.