

# DESAN

## Insulation boards

*Permanent solution to building moisture*

PROBLEM

# Moisture threatens your construction

1. **Degradation of the structure**

   Moisture disrupts load-bearing elements and shortens the lifespan of the building

2. **Health risks**

   Mold and humid environments cause allergies and respiratory problems

3. **Energy losses**

   Damp masonry increases heat loss by up to 50%

4. **Costly repairs**

   Traditional methods are expensive and often only temporary



SOLUTION

# The principle of DESAN Air Insulation

DESAN air insulation wicks moisture from the building structure into the air using natural physical laws. The system does not require electricity, works permanently without failures and its lifespan corresponds to the lifetime of the entire building.

## 01

### Moisture wicking

The air gap under the floor removes moisture from the structure to the outside air

## 02

### Natural principles

It uses the atmospheric influences of nature — no electricity, no disturbances, permanently

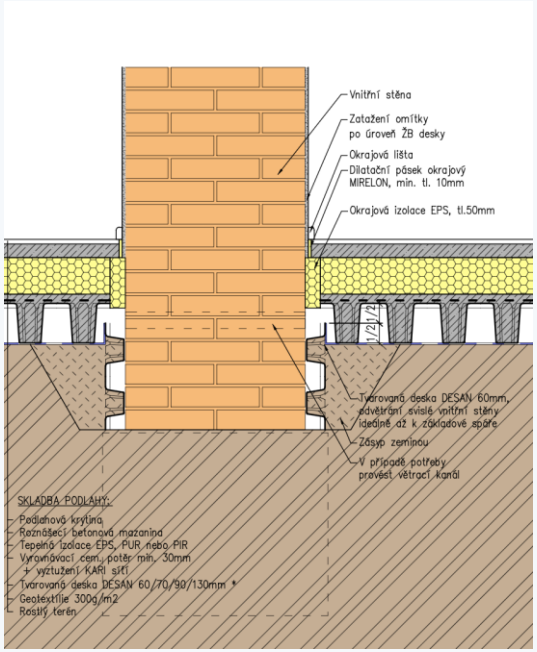
## 03

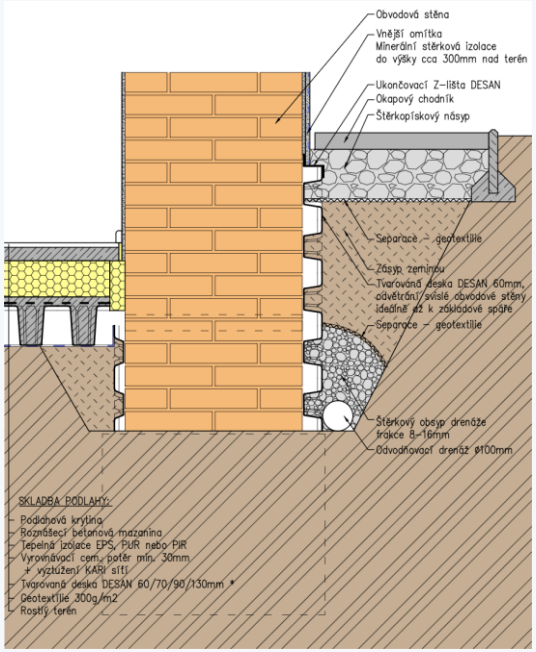
### Versatility

Suitable for new buildings and renovation of historic buildings without interfering with load-bearing structures

SOLUTION

# Installation of DESAN Air Insulation




Assembly procedure

1. Substrate preparation
2. Gravel bed
3. Ventilation
4. Laying DESAN
5. Concrete slab
6. Completing a Song



PRODUCTS

# Complete DESAN range

## DESAN restoration boards

Large-format shaped boards for moisture wicking from foundations, walls and floors. Patented technology.

## DESAN accessories

Fittings and strips for the termination and the visible part of the implementation



MAIN PRODUCTS

# DESAN restoration boards

## Effective moisture wicking

Molded plates create an air gap for permanent moisture ventilation

## Cable distribution in the floor

Easy installation of IT and telecommunications wiring directly in the floor structure

## Lightweight construction

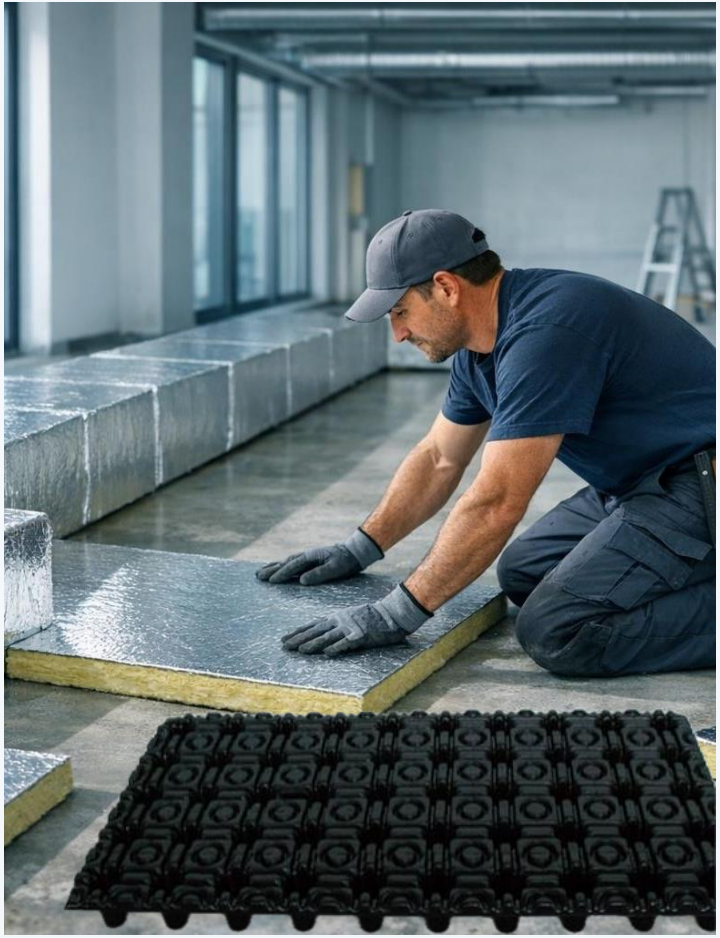
Reduction of the weight of floors and ceilings while maintaining full load-bearing capacity

## Lifetime of the building

Patent-protected boards with the same lifespan as the lifespan of the building

## Protection of historic buildings

Remediation without interference with load-bearing structures — for heritage buildings



BENEFITS

# Why choose DESAN?

**0 CZK**

**Operating costs**

No electricity, no maintenance

**100%**

**Ecological**

It uses the laws of nature

**∞**

**Durability**

Identical to the lifetime of the building

**24/7**

**Continuous operation**

Works in all conditions

**20+**

**years of experience**

Proven technology

**CZ**

**Patent protection**

Czech know-how

APPLICATIONS

# Areas of application

## New buildings

Floor insulation, foundation slabs, cable distribution in the floor

## Industrial buildings

Warehouses, production facilities, logistics centers

## Rehabilitation of buildings

Removing moisture from historic and modern buildings

## Housing construction

Family houses, apartment complexes, civic amenities

## Roof gardens

Vegetation roofs, drainage and protective layers

## Listed buildings

Gentle remediation without interfering with load-bearing structures

SERVICES

# Comprehensive support

1

## Consultation and design

Individual assessment of the building and proposal of the optimal solution according to the type and location of the building

2

## Material delivery

Complete range of plates, fittings and accessories including geotextiles and assembly elements

3

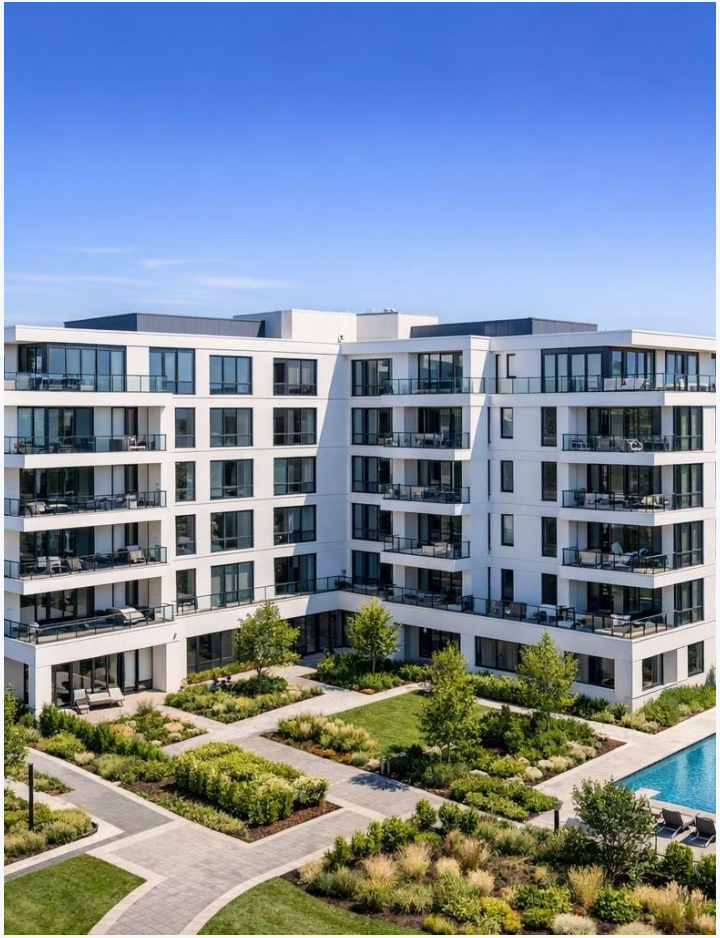
## Technical service

Professional advice and technical support during implementation for individuals and construction companies

4

## Transfer of know-how

Training and transfer of experience to companies that want to apply the DESAN Air insulation technology



TRUST

# References and certifications

## Certification and protection

- Patent protection of DESAN molded boards
- Trademark "Air Insulation"
- More than 20 years of experience in the field
- Technical service and expert advice
- Cooperation with Brno University of Technology — Flow Research
- Proven solution for hundreds of implementations

## Where to find us

- Renovation of historic buildings and objects
- New family houses
- Residential Complexes & Residential Projects
- Industrial and commercial buildings
- Vegetation roofs and terraces
- Radon Protection Projects

PRODUCTS

# DESAN product price list

| Designation of the shaped DESAN board | Ground clearance of the slab under the arch in cm) | Surface dimension of the board in (cm) | Weight in (kg/pc) and in /(kg/m²) | 0bjem concrete to fill the shaped slab | Ventilation cross-section (dm²/bm) | Contact area of studs (m²/m2) | Guaranteed compressive strength of the board at 20 C, (kN/m²) | Selling price without VAT in (CZK/m²) of the board area. | Selling price without VAT (CZK/pc) | Sales incl. VAT, (CZK/piece) |
|---|---|---|---|---|---|---|---|---|---|---|
| Slabs for floors and vertical walls, installation with offset. | | | | 1 pc = 1.5 m² | Folded floor 1 pc = 1.23 m²/pc | | | | | |
| DESAN 60/1.5 U | 4,5 | 187x82 | 2,45/1,7 | 0,01 | 2 | 0,1 | 70 | 324 | 486 | 588 |
| DESAN 70/1.5 U | 5,5 | 187x82 | 2,45/1,7 | 0,01 | 2,7 | 0,1 | 100 | 324 | 486 | 588 |
| DESAN 90/1,5 U | 7,5 | 187x82 | 2,45/1,7 | 0,02 | 4,1 | 0,1 | 105 | 324 | 486 | 588 |
| DESAN 130/1,8 U | 11,5 | 187x82 | 3,1/2,4 | 0,02 | 7,62 | 0,06 | 130 | 371 | 556 | 673 |



| Accessories | CZK/m | CZK/pc | CZK/pc+VAT |
|---|---|---|---|
| Rail Z 65/60+50/1.8 mm L=1.8 m | 80 | 144 | 174,2 |
| Rail Z 65/70+50/1.8 mm L=1.8 m | 80 | 144 | 174,2 |
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| Rail Z 65/130+50/1.8mm L=1.8 m | 80 | 144 | 174,2 |
| Corner strip 150x150/2.0mm L=1.8 m | 102,8 | 185 | 223,9 |
| Lišta L 120/80/1.8 mm L=1.8 m | 72 | 129,6 | 156,8 |
| Corner rail 50x50/1.8 mm L=1.8 m | 20 | 36 | 43,6 |
| End rail h=20 mm/1.8 mm L=1.8 m | 40,6 | 73,1 | 88,4 |



# Contact Us

*We will be happy to suggest the optimal solution for your construction*

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