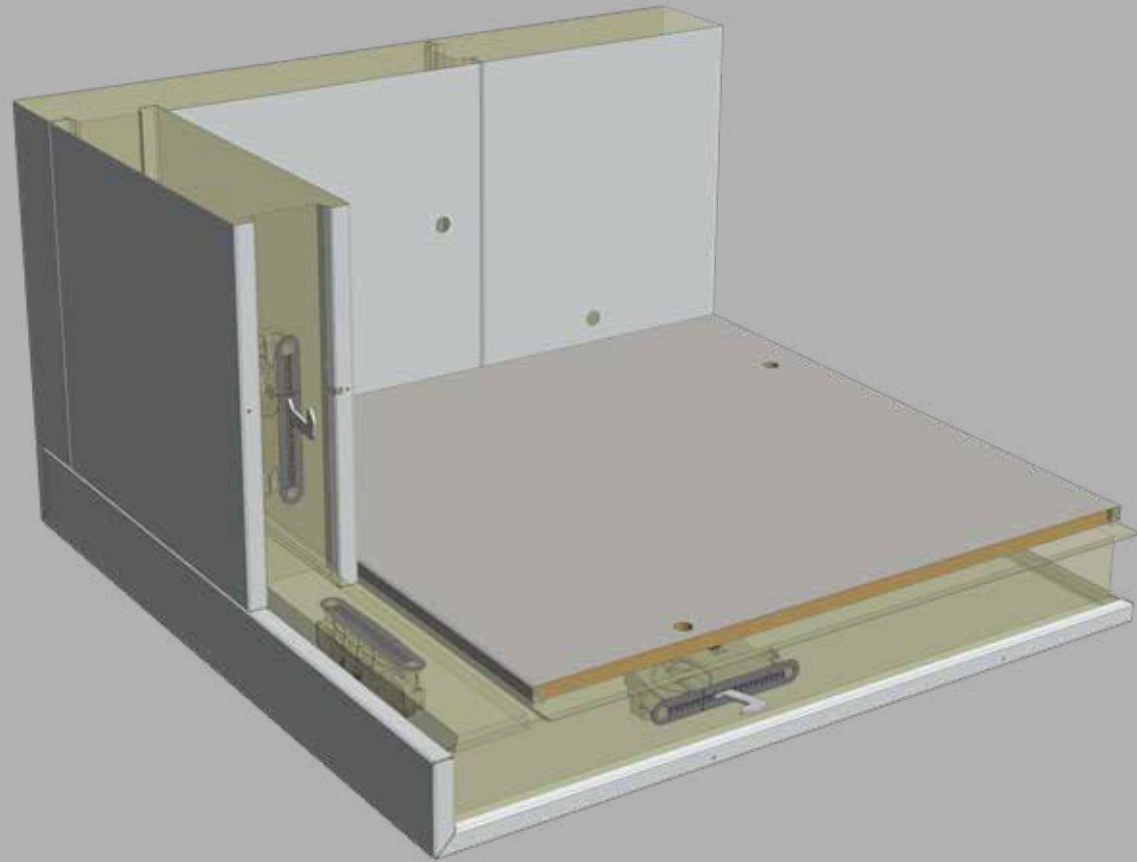
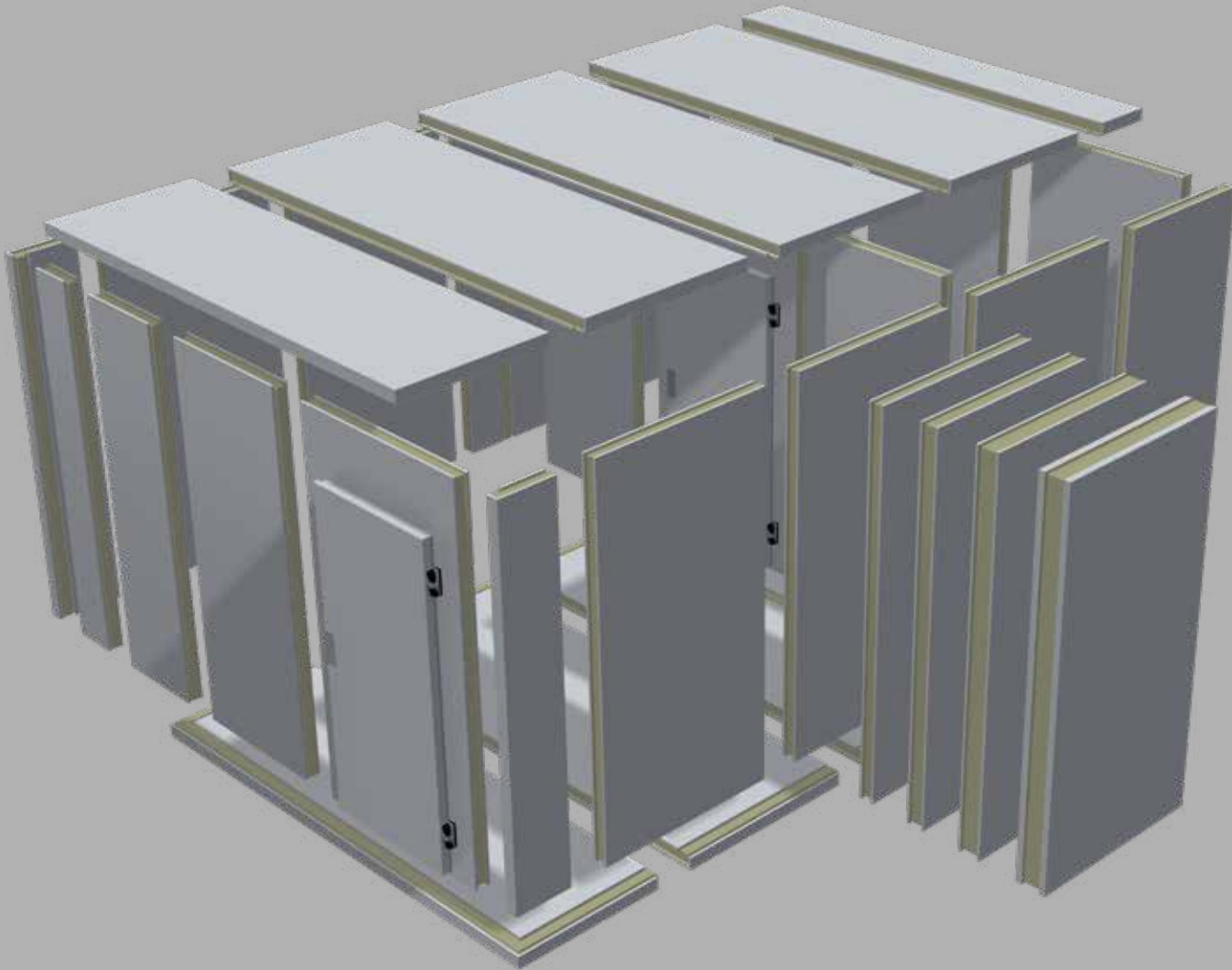


Contact

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ILKASYS  
Coldrooms and  
deep-freeze cells

The **ILKASYS** system offers the right insulation thickness for every cooling application. This allows us to safely guarantee temperature ranges from +80 °C to -110 °C.

Our proven tongue and groove composite system with foamed-in eccentric locking hooks guarantees 100% tightness for the highest hygienic requirements. Thermal bridges are thus eliminated.

For an optimal insulation, we work with CFC-free rigid polyurethane foam, which has the best insulating properties and allows our customers to use less energy.

The **ILKASYS** system makes it possible to produce coldrooms and deep-freeze cells of almost any size in a 300 mm grid. Steps of 100 mm are also possible as an option. This flexibility allows us to adapt our products directly to your local conditions. Upon request, we also manufacture our cells according to your measurements. The floor elements come standard with a surface made of non-slip stainless steel and a foamed-in pressure distribution plate. For higher hygiene requirements, a tub design with upstand to the wall system and flush transition is also possible. The bottom joints can be welded from a sheet thickness of 2 mm.

Heat transfer values

100 mm insulation thickness	U = 0,22 W/m²K
120 mm insulation thickness	U = 0,18 W/m²K
150 mm insulation thickness	U = 0,15 W/m²K
200 mm insulation thickness	U = 0,11 W/m²K

Floor loading values

Sheet thickness	Wheel load *	Slip resistance
0,8 mm	1.500 N/wheel	R11, R12, R13
1,0 mm	2.000 N/wheel	R11, R12, R13
1,5 mm	3.000 N/wheel	R11, R12, R13
2,0 mm	4.000 N/wheel	R11, R12

\* Contact area > 4 cm²/rubber wheel

Other floor designs are available on request.

ILKASYS  
a business division of ILKAZELL Isoliertechnik GmbH Zwickau





## We

ILKAZELL Isoliertechnik GmbH Zwickau stands for innovative products and traditional craftsmanship. Today we employ more than 100 people in Zwickau. From the constructor to the fitter and the engineer, we have the specialists who make our products a hallmark in coldroom and deep-freeze cell construction. And that worldwide.



TÜVRheinland®  
**CERT**  
ISO 9001



## Competencies / Services

ILKAZELL is the optimal partner for cooling technology - from planning to the construction of coldrooms, deep-freeze and ultralow-freeze rooms.

As a modern company, we work in all areas with the latest technology: from design, engineering, manufacturing, installation to after sales service.

Due to the constant further development of our products, we continually improve our range of services in planning, manufacturing and assembly of coldrooms and deep-freeze cells (**ILKASYS**), clean room technology (**ILKACLEAN**), environmental simulations (**ILKASIM**) and temperature-controlled surface systems (**ILKATHERM**).

Our products, capacities and services enable the realisation of projects of all sizes and technicality - as well as structural and functional requirements.



Systems for ideas

## Product lines

**ILKASYS**  
Coldrooms and deep-freeze cells

**ILKACLEAN**  
Clean room systems

**ILKASIM**  
Environmental simulation systems

**ILKATHERM**  
Temperature-controlled surface systems

### Walls and ceilings

In the standard version, the wall and ceiling elements have a surface made of 0.6 mm galvanized sheet steel with pvc-w coating. In addition, we can realise a wide range of surface and colour design options.

### Windows

At the customer's request, safety glass elements are installed in the door and wall system. Depending on the requirements, these can have a heated design.

### Doors

We offer you the right door solution for every application. Magnetic, revolving and sliding doors are part of our standard range. High-speed doors and glass removal doors complement them.

### Lights

As standard, our coldrooms are equipped with LED lights and integrated motion detector. These special damp-proof lights are designed for temperatures of up to -20 °C. Lights without motion detectors can even be used up to -30 °C.



### Standard equipment

Each coldroom is equipped with an LED light incl. motion detector, deep-freeze cells additionally receive a door frame heater as well as a heated pressure equalisation valve.

### Accessories

Upon request, we offer the following accessories for our rooms:

- drive-up ramps
- strip curtains
- underfreeze protection heating
- cooling units

### Shelves

Aluminium or stainless steel shelves are perfect for equipping our coldroom storage and deep-freeze cells. The standardised shelving system is easy and quick to assemble and makes optimal use of the available space.

### Hatches

Our heated revision hatches can be integrated into our wall, floor and ceiling panels individually and, if desired, almost flush with the surface.

## Flexible

With a grid spacing of 300 mm, the **ILKASYS** systems offer flexible options for coldroom and deep-freeze cell design. Insulation thicknesses from 100 to 200 mm, partition walls, hatches and windows - with our experience and expertise we make the best use of your space conditions and deliver and install the coldroom according to your requirements.

## Industry selection

Food processing  
Grocery  
Gastronomy, canteen kitchen  
Pharmaceutical industry  
Laboratories, hospitals and pathology  
Medical technology  
Shipbuilding  
Automotive  
Aerospace engineering  
Biotechnology  
Cosmetics production

## Modular

Our wall, ceiling and floor elements allow easy and quick installation in combination with the best possible physical and optical properties due to the foamed-in, corrosion-protected eccentric locking fasteners. The modular design allows absolutely problem-free disassembly and reassembly or conversion and expansion of the cell, optionally with or without floor elements.

Quality meets flexibility

**ILKASYS**