DC-**IT**Shielding

Protection against espionage,
electro-magnetic attacks and interception

Member of the
DATA CENTER
GROUP
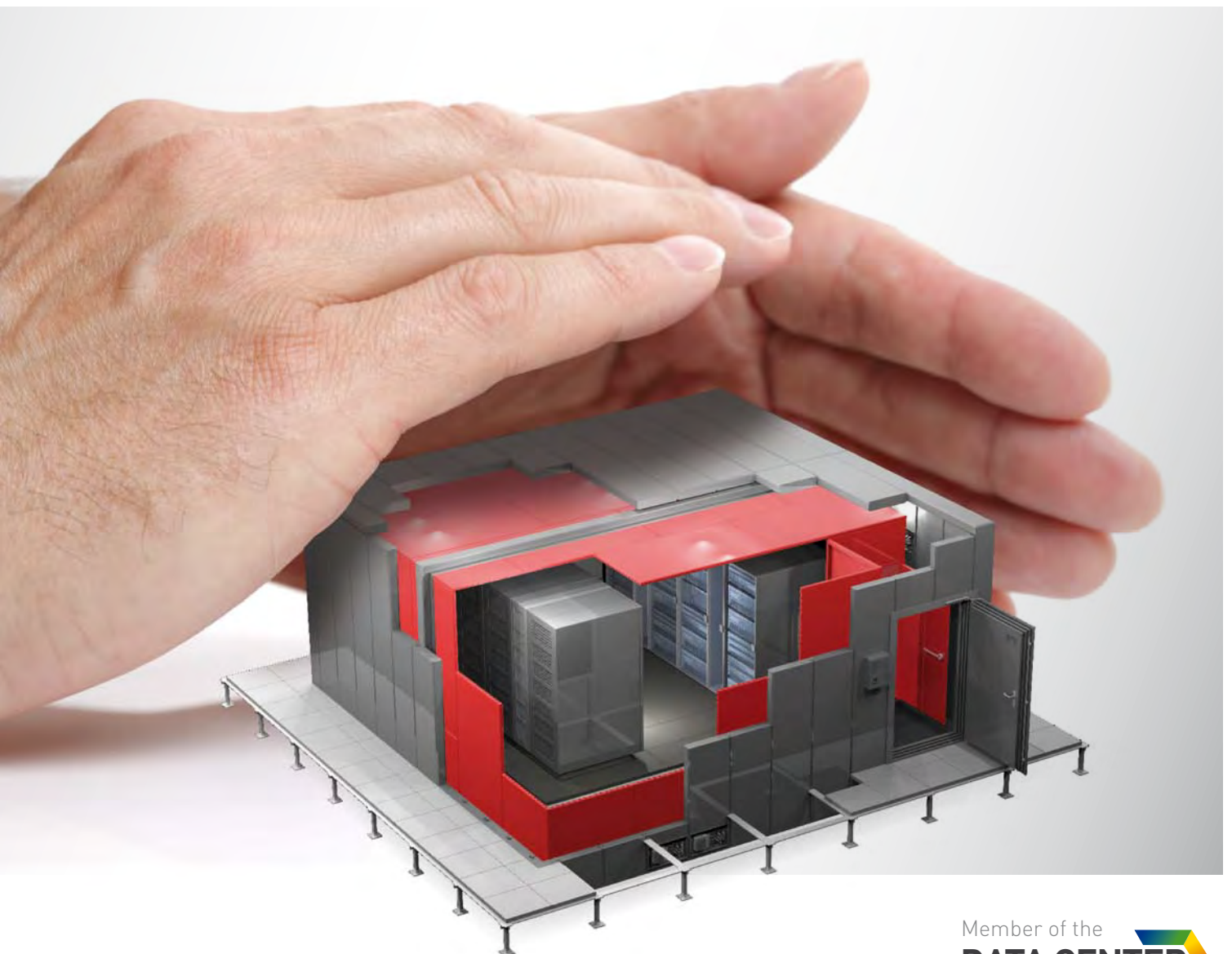
DC-ITShielding
Protect the capital of your company

The protection of data and IT infrastructures is no longer related to corporate groups and military institutions only, but far more increasingly to small and medium-sized companies. The annual losses caused by theft of knowledge and data are estimated by the BDI - Federation of German Industry - to more than 50 billion Euros with an increasing tendency. According to security experts every third company was a victim of industrial from espionage. Not only the competition is acting by using „dirty" practices. But also intelligence services are conducting a level of reconnaissance activities whose extent is difficult to imagine. As a consequence, companies report a serious loss of reputation caused by economic crimes or even experience a notable decrease in their stock share values.

Keywords like Tempest, compromising radiation or Van-Eck-Phreaking show that electronic espionage is a growing worldwide threat for company's IT and data. Institutions like the Federal Office for Information Security (BSI) issue first guidelines and practices to be realised by IT- and security managers.

With DC-ITShielding RZproducts offers tested and customized shielding solutions for rooms. The high-frequency shell protects IT Rooms and equipment against external and/or magnetic interference and radiation of information from the inside.

Tempest is a National Security Agency codename referring to spying on information systems through leaking emanations, including unintentional radio or electrical signals, sounds and vibrations. Tempest covers both, methods to spy upon others and also how to shield EDP equipment against such spying.

Van-Eck-Phreaking is a form of eavesdropping in which special equipment is used to pick up telecommunication signals or data within a computer device by monitoring and picking up the electromagnetic fields (EM fields) that are produced by the signals or movement of the data.
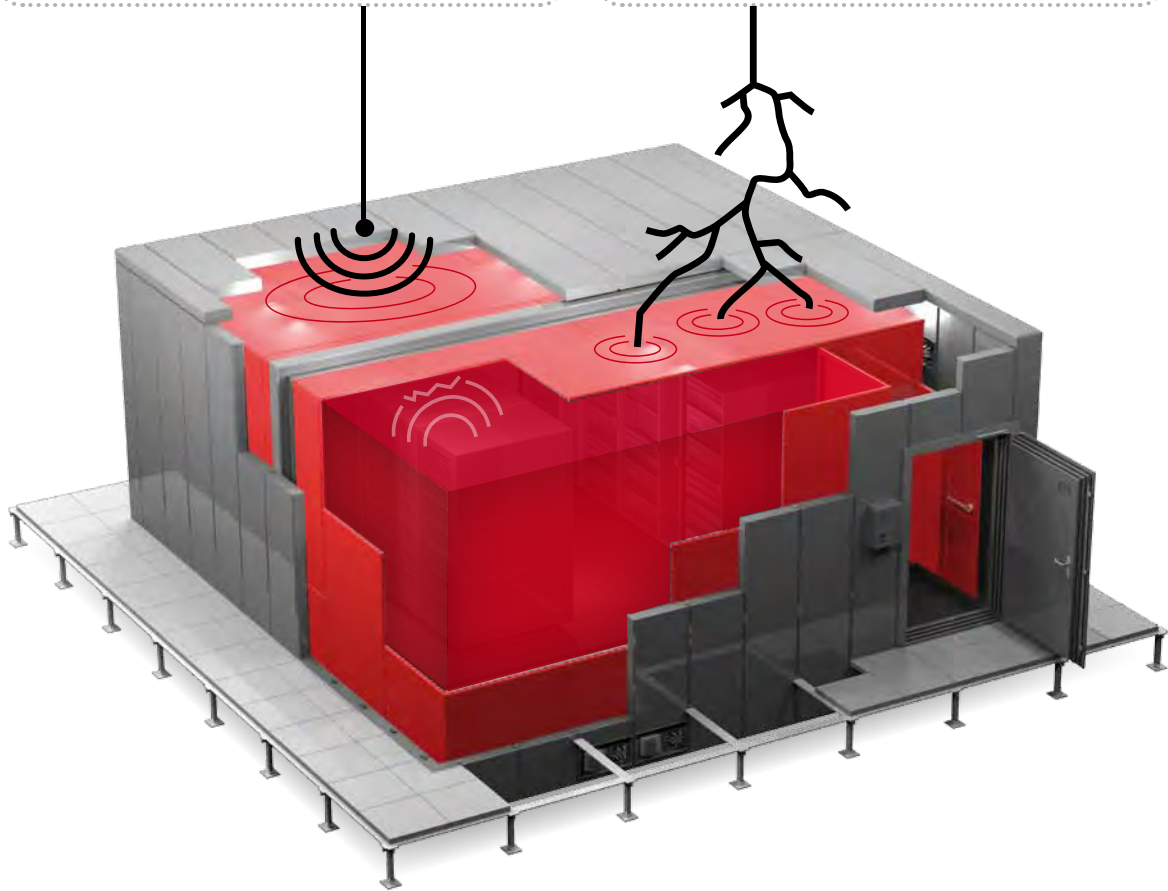
(Source: wikipedia and Search Security)

Interception of sensitive data is impossible because the radiation of computers cannot penetrate to the outside.

EMP
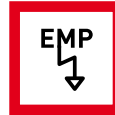
A **high-frequency outer shell** encloses the racks to be protected as protective shield against external electromagnetic interference

Product features:

- Interception and radiation shielding up to 60, 80 or 120 dB
- Compliance with requirements of Tempest, NSA 65-2, IEEE 299, NATO standard
- Guaranteed shielding attenuation levels up to 40 GHz
- Modular design made of steel sheet metal elements
- Panel dimensions: W max. 1.500 mm x D = 50 mm
- System-tested acc. to EN 50147-1, NSA 65-6, IEEE-STD 299 (MIL-STD 285)

Your benefit:

- Fast and easy installation
- Integration in existing IT security rooms, outdoor containers or buildings
- Future proof investments due to dis- and reassembly options (e.g. relocations)
- Increased burglar protection in combination with the security products of the DC-ITRoom solutions

The radiation of IT equipment is reduced by the factor:

|	
DCS 60 Basic protection	**1.000**
DCS 80 High availability protection	**10.000**
DCS 120 Highest availability protection	**1.000.000**

FLEXIBLE

DC-IT Shielding offers proper and customized solutions for all security rooms and outdoor containers!

DCS - Data Center Shielding
for highest security requirements

Modular rooms and outdoor data centers offer a high degree of protection against physical dangers like fire, fire-fighting water, unauthorized access etc. but only to a limited extent for the storage of sensitive and confidential data, e.g. R&D documents, patent information or other existential information.

In combination with indoor- and outdoor solutions of the DC-ITRoom series, DC-ITShielding provides optimum protection for highest security requirements.

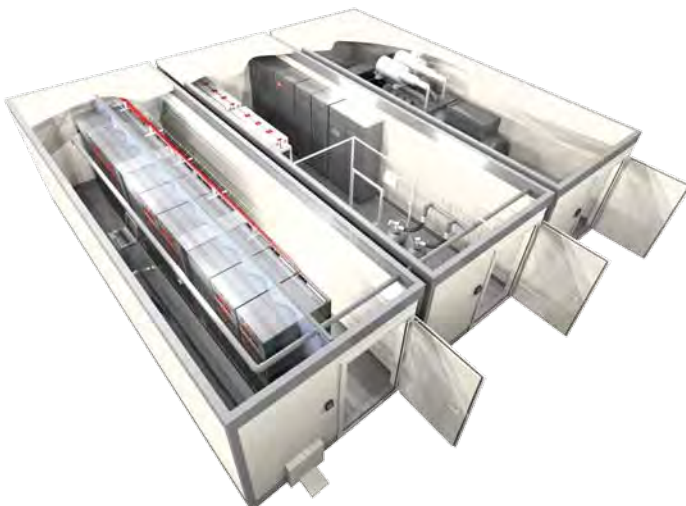## Highest availability security solutions for indoor applications
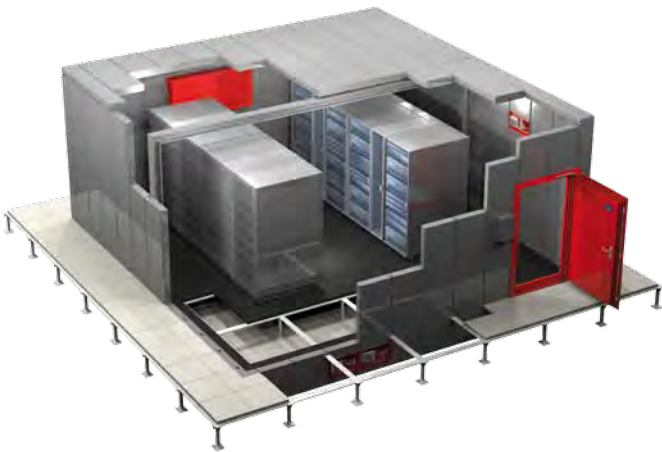
DC-ITShielding

✔ Modular IT security rooms for the protection of IT infrastructures inside existing buildings
✔ ECB•S and type tested
✚ DC-ITShielding

＝ **Highest availability and shielding for your IT!**

TYPE TESTED   ECB•S

High availability security solutions for outdoor applications

DC-ITShielding

✔ Modular IT data centers for installation in outdoor areas or halls
✔ system-tested
✚ DC-ITShielding

＝ **IT security and shielding of sensitive data and complete IT infrastructures**

SYSTEM-TESTED

Optimum security
for all availability requirements

DC-**IT**Room GranITe

- ECB•S certified highest availability protection
- Integrated and highest possible security for IT infrastructures
- Modular and site-independent design
- **Interception and radiation shielded**

TYPE TESTED   ECB•S   DC-ITShielding

DC-**IT**Room QuartzITe

- System-tested availability protection
- Various security levels available
- Protection against physical dangers like fire, water, EMC etc.
- **Interception and radiation shielded**

SYSTEM-TESTED   DC-ITShielding

The company RZproducts

The company RZproducts is focussing on the development, production, sale and marketing of high-quality products for IT infrastructures taking the demands of our customers and market requirements into consideration. Our specialists design and develop innovative solutions for professional Data Centers and IT locations.

Based upon our close cooperation with advisory boards and associations, such as ESSA (European Security Systems Association) e.V., we support the definition and compliance with European standards and regulations of worldwide consideration. Only tested and certified security solutions guarantee the security standard of RZproducts.
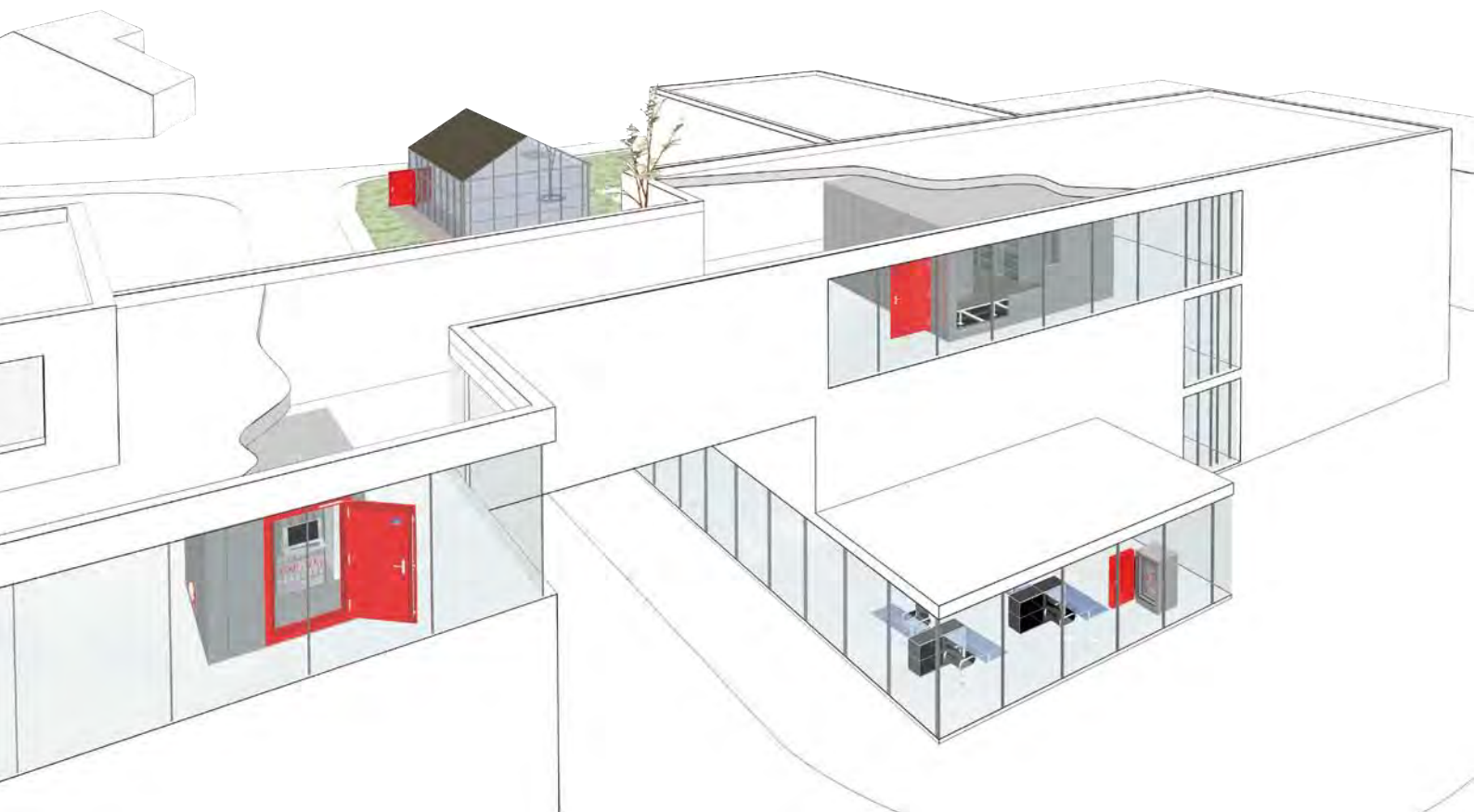
# Intelligent solutions for highly efficient Data Centers
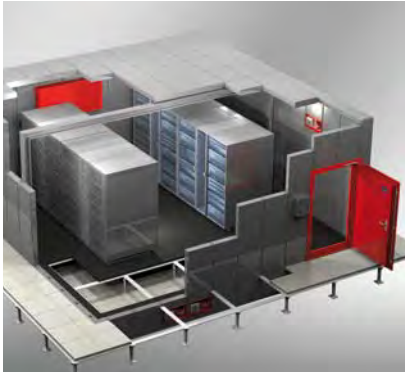
DC-ITRoom

The room solutions GranITe and QuartITe offer best possible protection of IT infrastructures.
The modular and scalable construction offers tested and certified protection against physical risks like fire, explosion, water, unauthorized access etc. The DC-ITRoom products guarantee functional IT reliability at a very high level.

DC-ITSafe

DC-ITSafe is a mini data center offering a high degree of security against all physical risks for single racks being expandable at any time. Due to its size the mini data center can easily be removed and replaced. Its space-saving characteristics allow the use of very small IT locations.
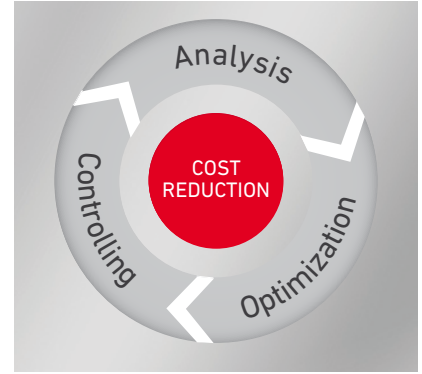
DC-MonIToring

The monitoring system of RZproducts makes a decisive contribution towards professional energy management and uninterrupted monitoring of IT.
They do not only detect and display faults, they can also considerably enhance the efficiency of IT systems through analysis of the energy consumption.

RZproducts

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