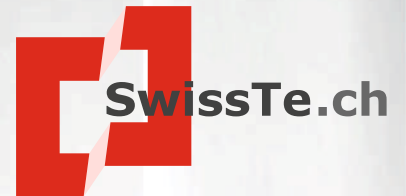


Room systems



THE HIGH SECURE ROOM IN ROOM SYSTEM

HPC
HIGH PROTECTION CAGE

www.swisste.ch



IT systems are a prerequisite for the secure and effective operation in most companies. A systems failure or a damage can bring the company into the insolvency. With the High Protection Cage you can protect your IT effectively against physical hazards such as fire, water, acrid gases, unauthorized access and other potential hazards and threats.

The HPC offers maximum protection and thus security for your company.

With the High Protection Cage (HPC) the company Swisste.ch offers IT security at the highest security standard according to EN 1047-2 certified by ECB-S*. The High Protection Cage meets the highest safety standards in terms of fire hazards and other requirements such as EMC, unauthorised access, debris load, dust, acrid gases and protection against water damage from fire extinguishing. The exact conditions are described in a complicated audit and certification process. We achieved the highest quality level through the continuous quality control during the production and assembly process.

With the High Protection Cage the highest level of physical security is provided to our customers, which is not possible with conventional building materials.

The HPC is used wherever a maximum IT system availability or special precautions for the data center or server room are necessary.

CHARACTERISTICS OF BASIC EVALUATION

Over the entire test period a temperature rise of maxi. 33 Kelvin was measured within the HPC. This is far below the required limits of the permissible 50 Kelvin and even exceeds the required results.

In addition to the requirements that are set by EN 1047-2, the HPC was subjected to further tests and examinations to meet the highest safety requirements.

Applications for the HPC

When the safety requirements and conditions of a server room or data centre are particularly high and highest IT system availability is vital. In addition, when fire hazards in the direct environment cannot be avoided or eliminated by reliable technical solutions and the existing site does not provide the requested security requirements.

Benefits

The installation of an approved and certified room system offers the highest level of guaranteed security. The HPC also fulfills the highest security recommendations according to BSI or BITKOM.

Functions

- Tested security
 - Fire
 - EMC protection
 - Temperature rise
 - Water
 - Humidity
 - Dust
 - Acrid gases
 - Access protection
 - Debris load
- Massive construction with full integration into the buildings structure
- Can be constructed on the ground level as well as on the upper floors – no special requirement to building structure
- Integration of all the technical and infrastructural equipment (air-conditioning, electric power distribution, UPS systems, BMS, etc.)



THE HIGH SECURE ROOM IN ROOM SYSTEM

The use of a HPC security cell is important to any company if there are potential hazards in the data center environment which cannot be eliminated. This could be, for example an increased risk of fire caused by an adjacent warehouse. In addition, the HPC is used in existing structures, which do not have the necessary fire protection (for example by the integration of a server room in an industrial hall).

The test according to EN 1047-2 differs in following points from tests for conventional building material:

- The HPC room is tested and certified as a system for room construction (walls, ceiling, floor) incl. the components (door, cable duct, slides) and is exposed to fire from all sides in a closed furnace.
- During the entire testing time of around 24 hours (including heating phase and soak-out period) the temperature rise does not exceed 50 Kelvin measured from the starting temperature of 20 degrees Celsius. A maximum of 70 degrees Celsius inside the room should not be exceeded at any time.
- The humidity inside the room construction should not exceed 85%.
- A second test is carried out in which the wall elements, heated up for 45 minutes, have to pass a lateral impact test. A lead bag of a weight of 200 kgs drops 3 times against the wall from a height of 1,5 meters. The HPC elements withstand this test. This test simulates that in case of fire outside of the room it can withstand cracking building material falling against the room

*European Certification Body GmbH is a neutral and international Certification Body according to EN 4501
www.ecb-s.com

§ Legislation

"The legislator takes the management of their duty and in case of an IT avoidable damage into full liability." (Source: § 43 art. 2 GmbH law or § 93 Abs. 2 AktG)

- **Basel III** – Guide for the banks. Implemented security standards determine the ranking.
- **SOX** (Sarbanes Oxley Act) regulations for the top management (CTO and CFO) of the companies listed on the stock exchange. In Europe known as EuroSox
- **GRC** (Governance, Risk and Compliance) – internal regulation about sustainability, accountability and documentation are to secure the implemented IT environment
- **Solvency II** – such as Basel III regulates the risks of the Management in the financial companies. The companies are surrounded by a various risks which must be defeated to provide the successful develop of the company



TAILOR-MADE SOLUTION FOR YOUR DATA CENTER

