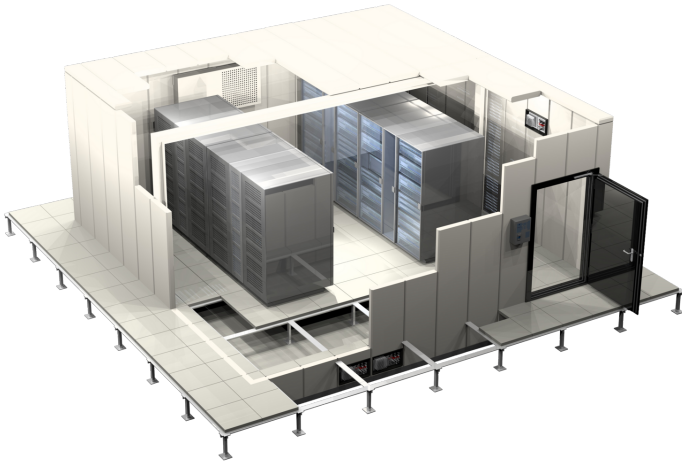




DC IT Room Quartzite 9.3

The basic protection for your data center

-  Modular room-in-room system consisting of wall, ceiling and floor elements
-  Structural IT protection according to BITKOM RZ category A
-  Extended basic protection for IT against the main physical hazards (fire, burglary, water, dust, EMC electromagnetic compatibility...)
-  System-tested fire protection EI 90 in accordance with EN 1363 with at least 30 minutes compliance with the limit values of EN 1047-2 for temperature rise <50K and relative humidity <85%.
-  Service-friendly & innovative cable and pipe bulkhead system

The room-in-room system with extended basic protection against the main physical hazards

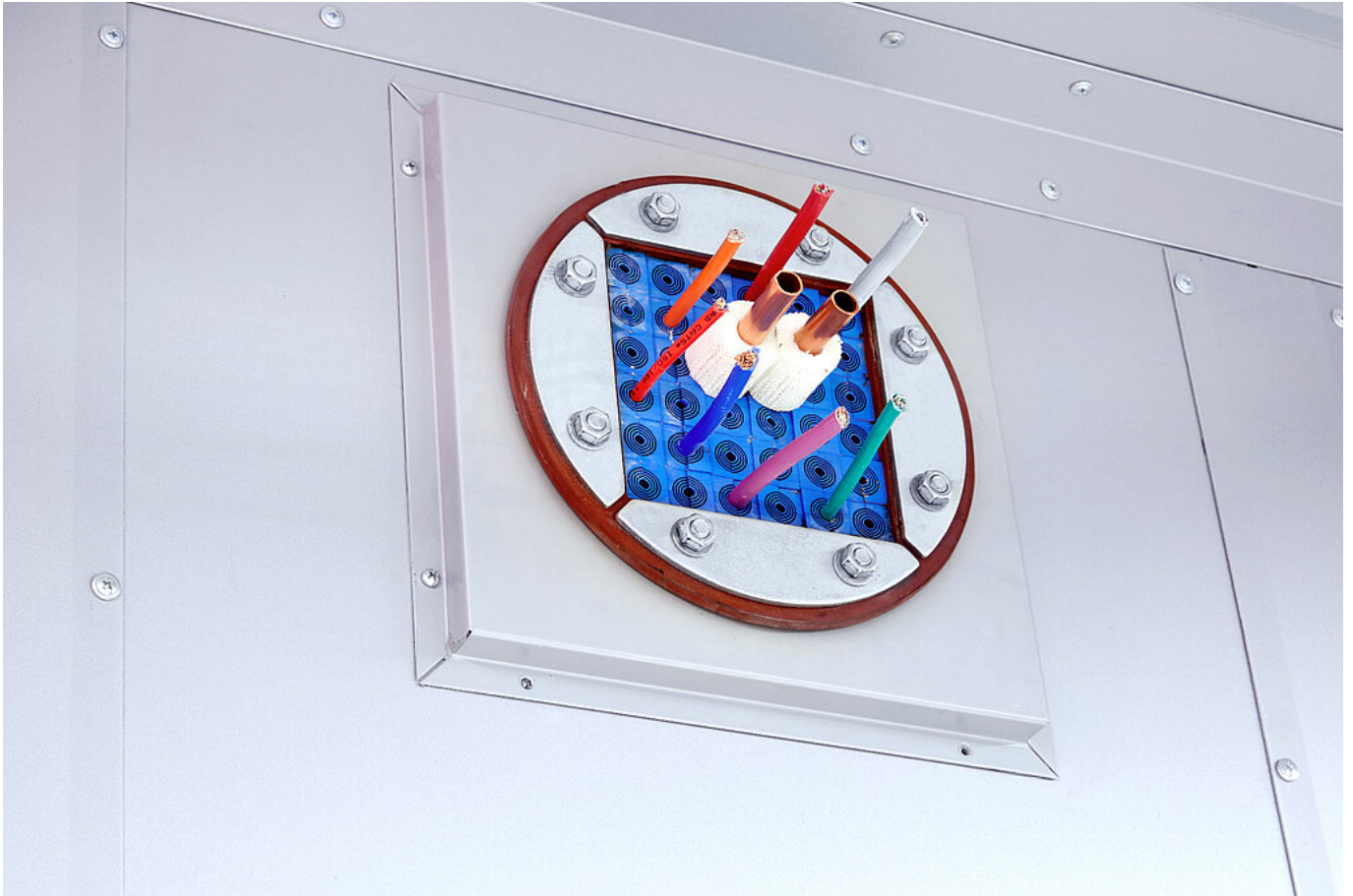
The DC IT Room Quartzite 9.3 is a stronger room-in-room solution with extended basic protection against the main physical hazards. Installation is simple and fully modular and

the solution is customized to dimensions of the room and customer specifications.
Typical end customers are private data centers or public institutions and authorities.

The solution is used for protection of the IT room and optional protection of the technical room or also as separation between IT room and technical room.

Detail photos DC IT Room Quartzite 9.0













Extended basic protection against physical hazards



Fire protection



Burglary protection



Explosion protection



Water and dust protection



Protection from debris load



Protection against vandalism



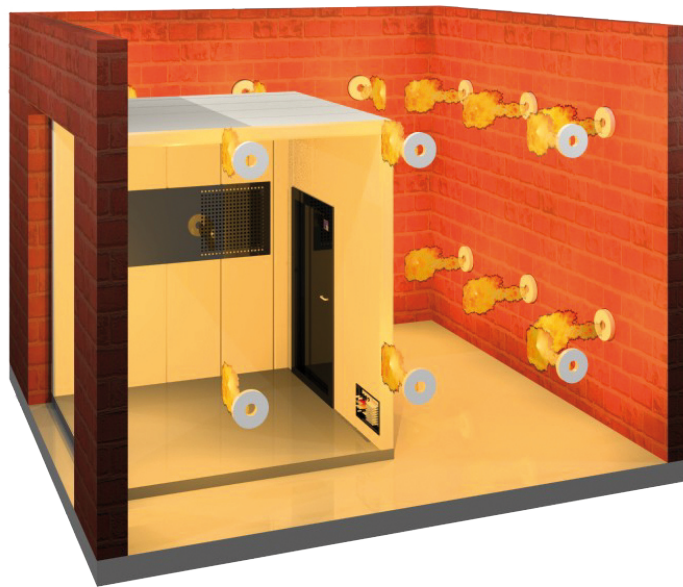
Protection from radiation



Noise protection



Protection against corrosive gases



Fire protection: + 30 minutes higher safety with the DC IT Room Quartzite 9.3

During this test, the internal temperature rise must not exceed the limit value of 50 Kelvin and the relative humidity of 85% during the first 30 minutes. After that, the limit values according to DIN 4102/EN 1363 are permissible. In this test scenario, the construction-relevant components are tested with their critical connections to each other.

The DC IT Room Quartzite 9.3 has the F90 system test according to DIN 4102 and EI 90 according to EN 1363 plus at least 30 minutes compliance with the limit values of EN 1047-2 for temperature rise and relative humidity.

Modular design: can be disassembled, reassembled and extended

The flexible, modular room system is expandable from 2 m² up to a large-scale data center. The system adapts modularly to the respective conditions. Use existing, normal buildings and simply build a secure data center inside. You save on new construction and have high investment security. The rooms can be converted, dismantled or relocated at any time.

The sandwich panels with steel sheet box construction have a heat-insulating and non-combustible core. The panel thickness for walls and ceiling is approx. 100 mm.



Equipment options

- Cable bulkhead system
 - Sliding systems
 - Door system
 - Panic shutter
 - Bulkhead systems
-

- Switch cabinet and installation material
- Safety door system
- Other equipment

Test certificates

-  EI90 system test according to EN 1363 with at least 30 minutes compliance with the limits of EN 1047-2 for temperature rise <50K and relative humidity <85%.
-  Burglary protection WK 2 in accordance with EN 1627-1630, door optionally in WK 3
-  Dust protection IP 5x according to EN 60529
-  Extinguishing water protection IP x6 according to EN 60529
-  Flue gas tightness based on EN 1634-3
-  Protection against standing water (72 hours, 40 cm, maximum 20 drops).
-  EMC protection (electromagnetic compatibility)

Tests, valences and certifications

	Granite	Quartzite 9.3	Quartzite 9.0
CERTIFICATION (fire protection)			
ECB-S certification according to EN 1047-2:2009+A:2013	x	–	–
External quality control in production	x	–	–
External quality control on the construction site	x	–	–

FIRE PROTECTION

Type-tested according to EN 1047-2, 60 minutes flame treatment plus cooling curve up to 24 hours	x	–	–
System test with compliance with limit values (50 K, 85 % humidity) according to EN 1047-2 over 30 minutes	x	x	–
General test certificate of the building authorities F90	x	–	–
System test EI 90 according to EN 13501-2/EN 1363-1 from outside to inside	x	x	x
System test EI 90 according to EN 13501-2/EN 1363-1 from inside to outside	Optional	Optional	Optional
Component testing (wall/ceiling) EI 180 according to EN 13501-2/EN 1363-1 from outside to inside	x	–	–
Component test (wall/ceiling) EI 120 according to EN 13501-2/EN 1363-1 from outside to inside	x	x	x
Component test (wall/ceiling) EI 120 according to EN 13501-2/EN 1363-1 from inside to outside	x	x	x
BURGLARY PROTECTION			
Certified burglar resistance RC 3 according to EN 1627/1628/1629/1630	x	–	–
System test burglar resistance RC 3 according to EN 1627/1630	x	Optional	Optional
System test burglar resistance RC 2 according to EN 1627/1630	x	x	x
EXPLOSION PROTECTION			
System test explosion resistance EXR 3 according to EN 13123-2/EN 13124-2	x	–	–
FLUE GAS TIGHTNESS			
System test flue gas tightness according to EN 1634-3	x	x	–
DUST AND WATERPROOF			
System test Dust and water tightness IP 56 according to EN 60529	x	x	x

500 mm water column over 72 hours	x	–	–
400 mm water column over 72 hours	x	x	x
SHIELD INSULATION (EMC protection)			
Shielding effectiveness test according to 50147-1	x	x	x
RESISTANCE TO DEBRIS LOADS			
Impact test according to EN 1047-2 (impact energy approx. 3,000 Nm)	x	–	–
Three ball impact according to DIN 4102-2	–	x	x

Further proofs on request.

You can find more information here:

<https://datacenter-group.com/en/products/dc-it-room/dc-it-room-quartzite-93/>