SMART SHELTER+

The most secure modular IT Room

Smart Shelter+

SMART SHELTER+ provides unique advantages in terms of security, fast deployment and modularity, ensuring perfect environmental conditions for mission-critical IT Rooms from any external hazards or natural disasters.

SMART SHELTER+ is probably the most secure IT Room developed to date as a result of wide experience and R&D developed throughout the deployment of over 300 sense IT Rooms.

SMART SHELTER+ has been designed according to most demanding standards. Its components, assembly processes and quality control are executed according to the most demanding international processes and standards (IEC, EN, ISO, DIN, etc).

IDEAL FOR

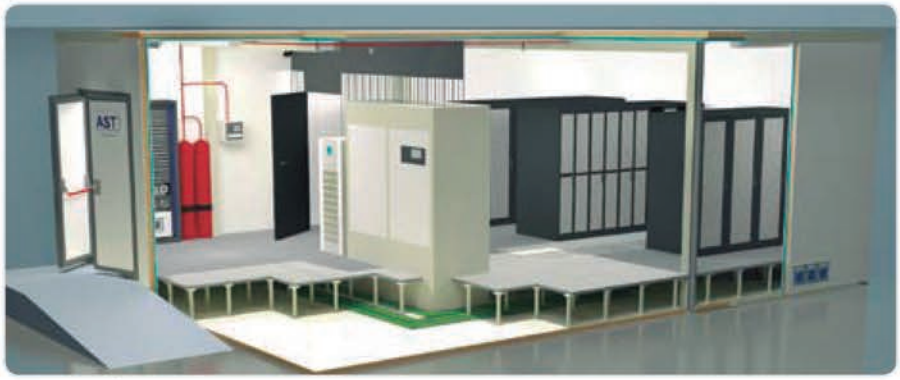
- Modularity
- Fast Deployment
- Security
- Fulfills most demanding Standards

BENEFITS

SMART SHELTER+ structure provides the following general advantages:

- Modularity.
- Security.
- Energy Savings.
- Shortens Delivery Time.
- Allows future expansion.
- Fast and secure assembly.
- Adaptable to building's room dimensions.
- Mechanical assembly, clean and dust-free.
- Fast Deployment being a pre-fabricated solution.
- Structure allows reuse in case of relocation.
- Clean room finishing surface.
- High mechanical resistance.
- No need of intermediate Columns.

SMART SHELTER+



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Traditional construction, made with conventional materials (gypsum or brick walls) does NOT FULFILL the specific requirements for DATA CENTER rooms requested by the specific Data Center standard EN-1047-2 "Fire Protection for Computer Rooms".

A computer room has an average probability of being damaged by fire (caused inside or outside the Data Center) of 4%, and a 2% of being affected by water. 95% of businesses whose Computer Room is being affected by these risks stop its activity in less than 12 months.

There is a need to protect IT environments not only against fire damages but against effects of high temperatures and against relative humidity that would condense water.

Any Data Center not built to EN1047-2 std. requirements has a risk hardware and data destruction which would directly affect any company's operations and P&L, or even cause severe and non reversible damages in its business continuity.

SMART SHELTER+ also provides collateral advantages in energy savings, due to its perfect insulation qualities which can generate important economic savings (up to 7% of power consumption), during its life time on air conditioning.

BENEFITS

SMART SHELTER+ structure provides the following specific technical advantages:

- Temperature and Humidity Certified by SGS according to fire curve as per EN-1047-2 standard with a certified max ΔT of 12ºC inside the room vs. 1000ºC.
- Water and Dust protection certified IP65 / NEMA 4 according EN60529 and up to IP67 under request.
- Stagnant water tight.
- Burglary protection level WK4 according to EN1627.
- Thermal Insulation Efficiency.
- Accoustic Attenuation 30dB.
- EMC Protection (High and Low Frequency) and up to TEMPEST or EMP conditions under request.
- Mechanical Resistance
- Fire protected walls, ceiling, door 120 minutes.
- Earthquake resistant.

SMART SHELTER+

ROI

When evaluating ROI in a SMART SHELTER+ Vs. traditional built solutions, the following Very Important factors have to be considered as actual benefits of Smart Shelter+, or hidden costs of traditional solutions.

- Total Cost of downtime due to fire or flooding (lost working hours, profit loss, hardware and software replacement costs, etc.).
- Energy savings of Smart Shelter + Vs conventional.
- Re-use of Smart Shelter+ in case of relocation (investment remains in time).

APPLICATIONS

SMART SHELTER most common applications:

- Corporate Data Centers.
- Government and Public Institutions Data Centers.
- Business Disaster Recovery centers.
- Outdoors Data Centers.
- Data Storage and Tape rooms.
- Operations and Trading rooms.
- Communications rooms.
- Processes Control rooms.
- Research Centers.
- Banks, insurance companies, transport companies, Oil & Gas, Natural resources, Hospitals, etc.

SMART SHELTER+

TECHNICAL SPECIFICATIONS

	Conventional DC	Smart Shelter+
Fireproof RF 120min test conf EN 13501 -2 with 140° protection	•	•
Flooring Panel Fire Proof RF120	-	•
Max temp inside 70°	-	•
Standard EN1047 (max ΔT of 12,5°C)	-	•
Max humidity inside 85%	-	•
Water and Dust Protection	-	•
Flooding Protection	-	•
Protection IP67 (protection against full flood)	-	•
Thermal Insulation	-	•
Modular and configurable	-	•
Easy to install and extend	-	•
Structure and panels can be used again in case of recolocation	-	•
Simplicity on project's development	-	•
Shortens delivery periods	-	•
Door designed acc to WK4 level of EN 1627	-	•
Mechanical Protection	-	•
EMC Protection as standard	-	•
Vandalism	-	•
Smoke-tightness	-	•
Flexible Cable Ducting	-	•
Falling Debris	-	•
Room Certification	-	•
Speed Deployment	-	•