

i Example: Store organic peroxides safely

DENIOS fits all peroxide stores with wall insulation and climate control equipment in order to ensure that the quality requirements and safety criteria needed for constant temperatures are met for your peroxides. In addition, all electrical equipment is located inside the peroxide store and is explosion proofed. To ensure maximum safety, these hazardous materials stores have either a sturdy, corrosion-resistant and fire resistant steel or reinforced concrete construction. The sump is available as either stainless steel or plastic. The doors are fire resistant. In the roof area of each peroxide store there is a pressure release system for releasing pressure in the event of an explosion. The panel is designed so that when a previously determined pressure is reached, it opens. It will close again automatically when the pressure wave has been dissipated to seal the storage unit. Thanks to its special construction, the pressure release panel retains its fire protection properties after an explosion.



Fire-rated peroxide store in steel for the storage of up to 200 kg, also available for 1000 or 5000 kg of peroxide

i Fire rated Storage Container used as a dosing station.

In this example a dosing / mixing station for paint and dyes was integrated into a mobile fire rated storage container. As dyes and paints create flammable vapours when mixed, the store was fitted with an extraction unit. The accessories were pre-installed by denios before delivery. This ensured the storage container could be commissioned quickly on the customer's site.





Hazardous material store with covered pathways for walking and driving

The increasing number of laws, regulations and guidelines, and their continual modifications together with the increasing globalisation of the legal field are determining the way companies work more and more. The complexity of the requirements grows as the quantity of hazardous materials stored increases.

Benefits

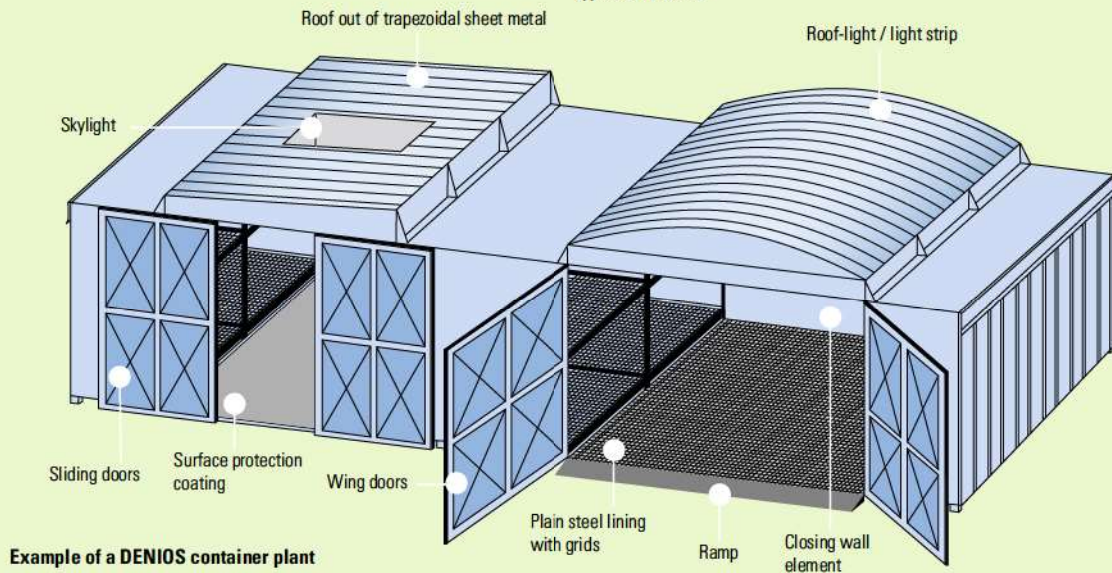
- Reduced investment cost per storage area
- Optimal dimensions for direct drum storage, for pallets and IBC storage
- Wing doors, sliding doors or roller shutters
- Thermal and / or fire protection
- Retention systems for product and fire fighting water
- Covered access and commissioning area
- Flexible containment volumes (even 100% in a water protection area)
- Division into various storage and fire-protection areas available

Competence and expertise

DENIOS has been developing, manufacturing and installing individual solutions for legally-compliant hazardous materials storage for more than 30 years. DENIOS offers a complete solution - everything you need in one place.

There's a system

Based on the products described above, DENIOS is able to provide solutions for the legally-compliant storage of large quantities of hazardous materials with individually designed container systems. The DENIOS System container range is suitable for compact, practical storage of a wide range of container types and sizes.



Example of a DENIOS container plant



Ready to use hazardous materials storage consisting of system containers combined with domed skylights

EN 1090

European standard EN 1090 replaces the previous welding standard DIN 18 800-7 and has been mandatory since 01.07.2014. EN 1090 tests additional safety-relevant points:

- Structural assembly and proof of stability
- Welded and screwed joints
- Optimum corrosion protection

This is documented in a declaration of performance and by CE marking. For you as the customer, this means: only a supplier with certification is permitted to design, manufacture and test buildings - in this case HazMat storage systems with DIBt approval. DENIOS meets all the requirements. This is confirmed by our certification from DVS Zert. With DENIOS products, you'll ensure maximum safety



Service

From determining your requirements at the initial discussion, through to the approval processes to all the way to commissioning your stores - you'll be looked after by a team of dedicated DENIOS experts.

Advice and planning

- Needs analysis
- Technical advice and design proposal
- Construction planning

Approval process

- Experts in current legislation
- Assistance with official discussions
- Completion of approvals process

Designs

With modular construction using individual System containers with their comprehensive range of variants and accessories, any requirement profile for day-to-day operations can be met. Making sure your individual requirements for container storage equipment are met:

- Plastic / stainless steel spill pallet inserts for safe storage of aggressive media
- Spill pallets with 100% containment volume for safety in water protection areas
- Insulation for temperature controlled storage
- Natural ventilation for the storage of flammable liquids

Acceptance and start-up

- Customer Service
- After Sales Service
- Maintenance



Hazardous material store consisting of system containers combined with skylight strips over the access ways



Large scale store for approx 400 tonnes of hazardous materials in drums, IBC / ASF and other special containers, fully covered, with efficient access to each container