

WHS WALK-IN HAZARDOUS MATERIAL STORAGE SYSTEM

SAFE, AIR-CONDITIONABLE, VERSATILE



The WHS walk-in hazardous material storage system has a water law licence and is available in three sizes. Heating and cooling technology can be integrated in the insulated version to ensure a constant temperature inside - even during temperature peaks or frost. Flexible shelving systems allow the interior space to be optimally utilised, enabling efficient and needs-based storage. The door position is variable and can be fitted on the long or short side of the room system as required.

Deutsches
Institut
für
Bautechnik

DIBt

With nationwide standard building approval from the German Institute for Building Technology (DIBt) for the storage of liquids in all water hazard classes.

EN 1090

Compliance with DIN EN 1090 for manufacturers of load-bearing structures in steel.

PRODUCT DESCRIPTION

- Approved for storing water-polluting substances
- Closed design with walls and roof made of corrosion-resistant galvanised sheet metal with exterior paint finish in RAL 9002, Grey white; other colours on request
- On request with thermal insulation for walls and roof in 60 mm or 100 mm mineral wool (ISO A - non-combustible)
- Water-tested, one-piece 5 mm spill pallet with removable, hot-dip galvanised gratings (max. load capacity: 1,000 kg/m²)
- Low entry height of 150 mm.
- With double-leaf door (W x H: approx. 2,200 x 2,300 mm), DIN right, on the short or long side of the room system in the specified grid, painted in room colour or RAL 7043, traffic grey
- Delivered ready assembled
- Crane eyes as standard for safe transport to the installation site
- Heating and air conditioning on request

All information: WWW.DENIOS.IE/WHS

DENIOS

ENVIRONMENTAL PROTECTION
& WORK SAFETY



MODEL	WHS 6S	WHS 7	WHS 11S	WHS 13	WHS 16S	WHS 20
Dimensions W x D x H [mm]*	2,804 x 2,302 x 2,780	2,804 x 2,742 x 2,780	5,304 x 2,302 x 2,780	5,304 x 2,742 x 2,780	7,804 x 2,302 x 2,780	7,804 x 2,742 x 2,780
Internal dimensions W x D x H [mm]	2,500 x 2,060 x 2,510	2,500 x 2,500 x 2,510	5,000 x 2,060 x 2,510	5,000 x 2,500 x 2,510	7,500 x 2,060 x 2,510	7,500 x 2,500 x 2,510
Storage area [m ²]	6	7	11	13	16	19
Containment volume [l]	710	870	1,440	1,750	2,170	2,630
Weight* [kg]	976	1,247	1,591	2,076	2,206	2,908

Note: Dimensions and weights may differ depending on optional equipment. Subject to technical changes * Without insulation and attachments

GUIDELINES FOR STORING FLAMMABLE LIQUIDS

(Flash point ≤ 60 °C, labelled with H226, H225 or H224)

- Observe distance from fire loads (mostly min. 10 m)
- Create equipotential bonding (earthing) (connection point provided); if required provide lightning protection
- Country-specific requirements for air exchange rate
- Specifications in accordance with TRGS 510
- Specifications in accordance with ATEX Directive 2014/34/EU

STRUCTURAL ANALYSIS

The statics calculations for the technical room system are based on Eurocode 3 (DIN EN 1993). The loads on the structure are calculated in accordance with Eurocode 1 (EN 1991-1-3) for a characteristic wind load $q_{k,w} = 0.585 \text{ kN/m}^2$ and a ground snow load $s_k = 2.5 \text{ kN/m}^2$. The structure is also designed for earthquake zone 3 according to DIN 4149, EN 1998-1:2004.

EQUIPMENT OPTIONS



Cantilever racking offers space-saving and secure storage of small containers - small container trays can be integrated as an option for additional flexibility.



In combination with the thermal insulation, the 5 kW heating system ensures an indoor temperature of +5 °C at -15 °C outside.



In the standard version, the air conditioning system achieves indoor temperatures of +15 °C at an outdoor temperature of up to -15 °C and +20 °C at an outdoor temperature of up to +35 °C.

You can find an overview of further equipment options at WWW.DENIOS.IE/EQUIPMENT