

# ***Your Partner for Tank Systems Made of Steel***



***Quality from Dehoust –  
don't settle for less!***

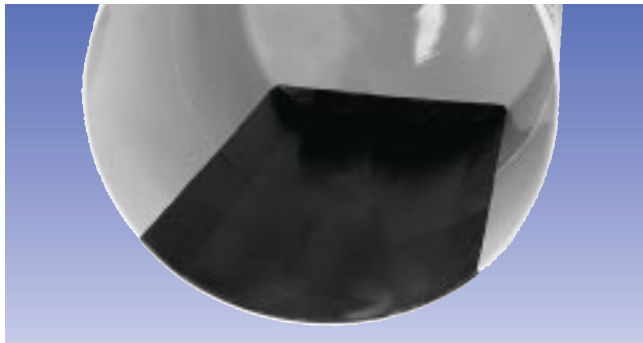
**DEHOUST**  
[www.dehoust.com](http://www.dehoust.com)

# Underground Tanks

## according to DIN 6608 (DIN EN 12285-1)

Single wall tanks according to DIN 6608/1 are used for liquids not hazardous for waters, e.g. for our rain water tanks made of steel for a storage volume of up to 100 m<sup>3</sup>.

Double wall cylindrical steel storage tanks according to DIN 6608/2 for the underground storage of liquids hazardous for waters as for example heating oil or carburettor fuels (see material list DIN 6601) have been proven and tested for decades. The double shell is continuously monitored by means of a vacuum (or with excess pressure) and thus offers long-term safety. The tanks are protected against external corrosion by a bitumen insulation reinforced with a glass fibre mat. A high-voltage test of 14,000 volt in the works guarantees additional security. For aggressive grounds, a reinforced bitumen insulation tested with 20,000 volt and/or a glass fibre reinforced plastic insulation for special requirements are available.



### Dehoust safety tanks (ST design)

The Dehoust safety design (ST) offers good protection against internal corrosion when storing mineral oil products. The tank is provided with an additional internal bottom with a plastic coating on the shot-blasted surface ensuring safety for decades. A special warranty of 10 years is granted.

### Finished steel manhole pits

The collars of the manhole pit as well as the welded-on steel manhole pits internally and externally protected against corrosion (DIN 6626, DIN 6627) are designed for the environmental protection and the conservation of the tank value. The pit cover is available from the accessible to the trafficable design class D 400, even as required.



### Technical data DIN 6608 (DIN EN 12285-1)

Nominal volume Litres	Tank diameter mm	Length mm	Weight kg
3.000	1.250	2.670	870
4.000	1.600	2.400	1.015
5.000	1.600	2.750	1.170
7.000	1.600	3.750	1.490
10.000	1.600	5.350	2.020
13.000	1.600	6.950	2.510
16.000	1.600	8.550	3.000
20.000	2.000	6.870	3.610
25.000	2.000	8.420	4.340
30.000	2.000	9.970	5.170
40.000	2.500	8.710	6.840
50.000	2.500	10.680	8.250
60.000	2.500	12.650	9.810
80.000	2.900	12.750	13.670
100.000	2.900	15.900	16.600

For the domestic technique Dehoust provides full systems consisting of tanks with welded-on finished manhole pits impervious to liquids in passable and trafficable options, mounted tank fitting, mounted limiting value transmitter as well as a preassembled leakage indicator.

Please see our separate brochure for more information on complete heating oil tanks of Dehoust.

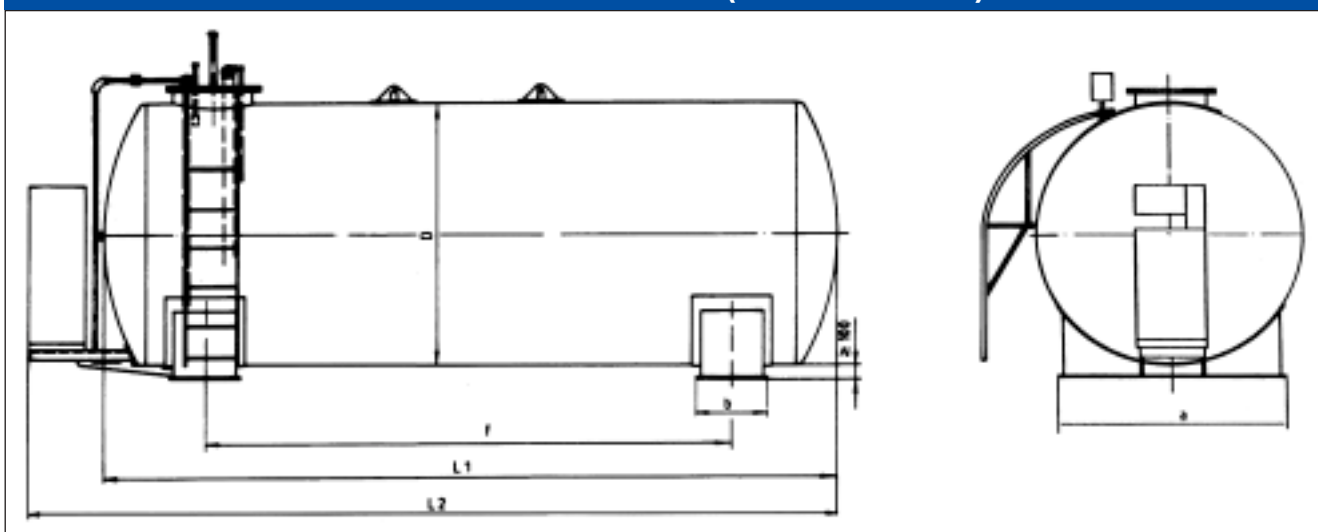
# Horizontal Above-Ground Tanks

## according to DIN 6616 (DIN EN 12285-2)

waters of hazard category A III are manufactured in double wall design; the intermediate space is monitored with a liquid leakage indicator. Single wall tanks have to be installed in collecting areas. As required by customer, the tanks are shot-blasted and primed outside and also provided with a first-class artificial resin painting on request. The internal tank can be refined by different internal coatings with permit according to Vbf (Regulation for Flammable Liquids) and/or WHG (Federal Water Act). Special designs and options within the specified diameters are, of course, possible. Permits of the safety equipment and a factory certification confirming the conformity with the rules of quality assurance according to RAL RG 998 and DIN 6600ff are provided with each tank. The tanks correspond to the requirements of environmental and water protection.



### Technical data DIN 6616 (DIN EN 12285-2)



Nominal volume Litres	Tank diameter D mm	Length		Saddle bases			Weight with Saddle bases without extensions approx. kg
		Heating oil tank L1 mm	Diesel tank plant L2 mm	Distance f mm	Length a mm	Width b mm	
3.000	1.250	2.670	3.340	1.750	900	250	910
5.000	1.600	2.750	3.335	1.770	1.390	300	1.260
7.000	1.600	3.750	4.335	2.770	1.390	300	1.580
10.000	1.600	5.350	5.935	4.290	1.390	300	2.110
13.000	1.600	6.950	7.535	5.625	1.390	475	2.600
16.000	1.600	8.550	9.135	7.135	1.390	475	3.120
20.000	2.000	6.870	7.400	5.395	1.750	550	3.820
25.000	2.000	8.420	8.950	7.005	1.750	550	4.550
30.000	2.000	9.970	10.500	8.615	1.750	550	5.380
40.000	2.500	8.710	9.220	6.760	2.390	900	7.390
50.000	2.500	10.680	11.200	8.820	2.390	900	8.800
60.000	2.500	12.650	13.170	10.880	2.390	900	10.360
80.000	2.900	12.750	13.320	10.295	2.810	1.300	14.880
100.000	2.900	15.900	16.465	13.360	2.810	1.300	17.790

# Vertical Above-Ground Tanks according to DIN 6618

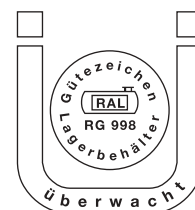
Vertical storage tanks made of steel according to DIN 6618 with tubular bases are designed for the storage above ground of combustible and non-combustible liquids hazardous for waters according to DIN 6601 (material list). They are appropriate for the storage of liquids with a density of max. 1.0 g/cm<sup>3</sup> (with profile bases and internal reinforcement ring up to a density of 1.9 g/cm<sup>3</sup>). They are available as single and double wall systems with liquid leakage indicator or vacuum seepage warning device. DIN specifies different possibilities for the base and base ring

design. We appreciate to forward to you sketches and detail drawings. In standard design, the tanks have an upper access pitch DN 500/ DN 600. Lateral sockets and flange connections are also possible in the lower bottom for single wall tanks. For double wall tanks all connections are led out from the upper bottom. Ascent ladders made of steel and/or aluminium and service platforms and the comprehensive accessory are combined to an optimal tank system as requested by the customer.



Technical data DIN 6618				
Nominal volume Litres	Diameter mm	Height mm	Weight Single wall kg	Weight Double wall kg
5.000	1.600	3.320	1.010	1.340
7.000	1.600	4.310	1.150	1.590
10.000	1.600	5.905	1.460	2.090
13.000	1.600	7.500	1.710	2.590
10.000	2.000	4.340	1.660	2.230
13.000	2.000	5.115	1.890	2.570
16.000	2.000	6.070	2.130	3.180
20.000	2.000	7.440	2.600	3.640
25.000	2.000	8.990	3.030	4.300
20.000	2.500	5.120	2.820	4.140
25.000	2.500	6.150	3.180	4.750
30.000	2.500	7.310	3.680	5.420
40.000	2.500	9.280	4.575	6.810
30.000	2.900	5.600	4.490	6.120
40.000	2.900	7.200	5.410	7.510
50.000	2.900	8.700	6.640	9.190
60.000	2.900	10.185	7.390	10.380
80.000	2.900	13.320	9.680	13.550
100.000	2.900	16.455	11.670	16.470

A factory certification confirming the conformity with the rules of quality assurance according to RAL-RG 998 and DIN 6600 ff is provided with each tank. This certification corresponds to a construction conformity mark, thus a special design homologation is not necessary.



The plants are specified according to the respective technical requirements and realised as optimal overall concept in cooperation with our customers.

# Innovations Made of Steel

Dehoust produces tanks for liquids hazardous for waters of the DIN series 6600ff (e.g. 6608, 6616 and 6618), pressure tanks, devices and special tanks for the process engineering, collecting trays and other welded constructions. We manufacture on the basis of own and customers' drawings up to an overall mass of 20 t with a diameter of up to 3.20 m (in single cases even up to a diameter of 5 m) and a length of up to 16 m.

Dehoust tanks are processed by welders with TÜV (Technical Inspection Authority) examination in nearly

all necessary qualities in the standard and stainless steel area. Our company is an approved welding operation according to HPO with processing audit according to the AD-Merkblatt (bulletin). The manufacture is subject to the supervision by the TÜV. Own approved works auditors as well as experts according to the Federal Water Act guarantee highest quality requirements. Experience of many years, well trained employees, internal project departments and the close cooperation with our customers ensure short delivery times and optimal solutions.



## Dimensions

- Volumes up to 100 m<sup>3</sup>
- Diameters up to 3.20 m (in single cases up to a diameter of 5 m)
- Length up to 16 m
- Weight up to 20 t
- Pressure ranges 900 mbar to 20 bar

## Welding techniques

- Gas-shielded welding WIG, MAG
- Submerged arc welding
- Arc manual welding

## Workshop equipment

- Threefold roller bending machine up to a sheet thickness of 16 mm
- Plate shears
- Profile bending machine
- Plasma arc cutter up to a sheet thickness of 9 mm
- Gas cutter up to a sheet thickness of 70 mm
- Trimmer
- Welding manipulation
- Bituminizing plant for tank insulation
- 300 t press for moulded sheet parts up to 1,500 mm x 800 mm
- Milling and turning machines for parts up to 1,000 mm Ø
- Blasting plants and paint shops



For any further questions beyond the above mentioned information we are immediately at your disposal for a detailed advice.



# Approved Substances for the Storage in Cylindrical Tanks Made of Steel S235JR (EN 10027-1)

Single and double wall tanks made of steel are approved for the storage of combustible and non-combustible liquids hazardous for waters according to DIN 6601 (positive list). Other liquids hazardous for waters can be stored in tanks if linings or coatings are used the appropriateness of which are proven by a conformity mark or a design homologation according to VbF § 12. We are a specialist company according

to § 19 WHG and VbF and appreciate to offer you corresponding coatings for all tank systems.

A small selection of the substances which may be stored in tanks made of steel S235JR (EN 10027-1) observing the substance-specific requirements of DIN 6601 is given in the following list. The DIN includes other substances which also may be stored in stainless steel.

## A

Acetone  
Acetyl acetone  
Acetylene dichloride  
Alcohol  
Alcoholic drinks  
Amyl alcohol  
Antifreezing compound  
Asphalt  
Aviation carburettor fuel  
Aviation jet fuel

## B

Benzene  
Bio-diesel fuel  
Bitumen  
Bromobenzene  
Butanol  
Butyl acetate  
Butyl alcohol  
Butyl benzene  
Butyl bromide

## C

Carbon dioxide dimethyl ester  
Carburettor fuels  
Caustic soda  
Chlorobutane  
Chloromethylpropane  
Chloronitrobenzene

## D

Dichlorobenzene  
Dichloromethane  
Diesel fuel DIN 51601-  
Diethylamine  
Diethylbenzene  
Dimethylbenzene  
Dipropylamine

## E

Ethanol  
Ether  
Ethyl-cellosolve  
Ethyl acetate  
Ethyl acetate, pure  
Ethyl alcohol  
Ethyl benzene  
Ethyl bromide  
Ethyl carbonate  
Ethyl glycol  
Ethyl ester  
Ethyl ether

## F

FAM regular gasoline DIN 51635-A  
Fluorobenzene  
Fluorotoluol  
Formic acid ester  
Fusel oil

## G

## H

Heating oils DIN 51603-EL-01  
Heating oils L DIN 51603  
Heptane  
Hexane  
Hexanoles

## I

Isobutanol  
Isobutylchloride  
Isopropylchloride

## K

Kerosene and solvent kerosene

## L

Lactic acid ethylester  
Light petrol

## M

Methanol  
Methylacetate  
Methylbutanol  
Methylbutyrate  
Methylglycol  
Methylhexane  
Methylpentane  
Monochlorobenzene

## N

Natural gas condensate  
Nitrobenzene  
Nitrophenols, liquid

## O

Oil-to-water mixtures (e.g. drilling and lubricating oils)

## P

Pentanol  
Potassium hydroxide (maximum 20%)  
Potato-spirit oil  
Propanol

## S

Safety lamp petroleum spirit DIN 51634-A  
Solvent naphtha DIN 51632  
Special grades of petroleum spirit

## T

Tars, liquid  
Toluol  
Traethyl amine  
Transformer oils  
Trimethylbenzene  
Trimethylbutane  
Turpentine

## U-X

Unused hydraulic oils  
Used and unused engine oils  
Used and unused gear oil

Vegetables oils

Xylene

Note:

The information given in this brochure corresponds to the present state of knowledge. Changes reserved. Without liability regarding legal regulations on local and national level.