

formoplast

Plastic Tanks and Vessels

The Chemical Storage Experts!



FREE STANDING FLAT-BOTTOM HDPE STORAGE TANKS

With Secondary Containment Shells
Helically Wound with WHG 191
Environmental Certification

ENVIRONMENTALLY SAFE STORAGE TANKS FOR YOUR HAZARDOUS LIQUIDS

Storage, filling and handling of potential water-polluting liquids must comply with strict environmental regulations. The same applies for systems used to manufacture, treat and use such hazardous liquids.

With products from formoplast, you can be assured of compliance with environmental regulations

formoplast offers a wide range of flat-bottom tanks with secondary containment shells in capacities from 1000 to 200,000 L, diameters from 800 to 4000 mm and heights up to 24 m. The flat-bottom tanks include a walk-on working platform with safety railings and a cage ladder for easy access and inspection.

formoplast tanks can be supplied with electric surface heaters or over-the-side immersion heaters to maintain temperature in the tank at desired levels.

The flat-bottom tanks can be supplied with polyurethane foam insulation to effect energy savings .



formoplast helically wound HDPE storage tanks with secondary containment shells, for storage of 50% sodium hydroxide, 50 % nitric acid and 96 % sulfuric acid.
Capacity 30,000 L, diameter 2800 mm, height 5280 mm.



Shipment of large-scale tanks by train



Water Treatment Plant Laichingen, Swabian Jura

HDPE Spiral-Wound Flat-Bottom Tanks, With Secondary Containment Shell

Capacity (L) of flat-bottom tank	I.D. (mm) of flat-bottom tank	Cylinder height (mm) of flat-bottom tank	Overall height (mm) of flat-bottom tank	Roof height (mm) of flat-bottom tank	I.D. (mm) of containment shell	Height (mm) of containment shell
500	800	1,030	1,140	110	1,000	970
1,000	1,000	1,340	1,445	130	1,200	1,275
1,500	1,000	2,010	2,115	130	1,200	1,910
1,500	1,200	1,405	1,540	160	1,500	1,200
2,000	1,200	1,870	2,000	160	1,500	1,770
2,500	1,200	2,325	2,460	160	1,500	2,210
2,500	1,500	1,505	1,675	200	1,900	1,400
3,000	1,500	1,795	1,965	200	1,900	1,700
3,500	1,500	2,085	2,255	200	1,900	1,980
4,000	1,500	2,380	2,555	200	1,900	2,260
4,000	1,900	1,510	1,735	250	2,250	1,400
5,000	1,500	2,950	3,150	200	1,900	2,780
5,000	1,900	1,860	2,085	250	2,250	1,765
5,000	2,000	1,680	1,920	270	2,250	1,595
6,000	1,500	3,575	3,745	200	1,900	3,395
6,000	1,900	2,230	2,455	250	2,250	2,115
6,000	2,000	1,980	2,250	270	2,250	1,850
7,000	1,900	2,600	2,825	250	2,250	2,470
7,000	2,000	2,350	2,585	270	2,250	2,230
8,000	1,900	2,970	3,195	250	2,250	2,825
8,000	2,000	2,650	2,920	270	2,250	2,490
8,000	2,250	2,020	2,320	300	2,500	1,990
9,000	1,900	3,340	3,570	250	2,250	3,175
9,000	2,000	3,020	3,260	270	2,250	2,865
9,000	2,250	2,300	2,600	300	2,500	2,240
9,000	2,500	1,935	2,240	330	2,800	1,835
10,000	2,000	3,320	3,590	270	2,250	3,130
10,000	2,250	2,550	2,850	300	2,500	2,490
10,000	2,500	2,120	2,450	330	2,800	2,010
10,000	2,800	1,715	2,060	380	3,000	1,625
12,000	2,000	3,990	4,260	270	2,250	3,770
12,000	2,250	3,090	3,390	300	2,500	3,000
12,000	2,500	2,550	2,880	330	2,800	2,420
12,000	2,800	2,055	2,400	380	2,800	2,445
15,000	2,250	3,880	4,180	300	2,500	3,760
15,000	2,500	3,190	3,520	330	2,800	3,030
15,000	2,800	2,530	2,910	380	3,070	2,410
15,000	3,000	2,235	2,610	400	3,400	2,120
20,000	2,250	5,200	5,500	300	2,500	5,020
20,000	2,500	4,250	4,580	330	2,800	4,060
20,000	2,800	3,370	3,750	380	3,070	3,230
20,000	3,000	2,950	3,350	400	3,400	2,790
20,000	3,400	2,320	2,745	460	3,600	2,200
20,000	3,600	2,070	2,520	480	4,000	1,965



Water Treatment Plant Günzburg/Danube

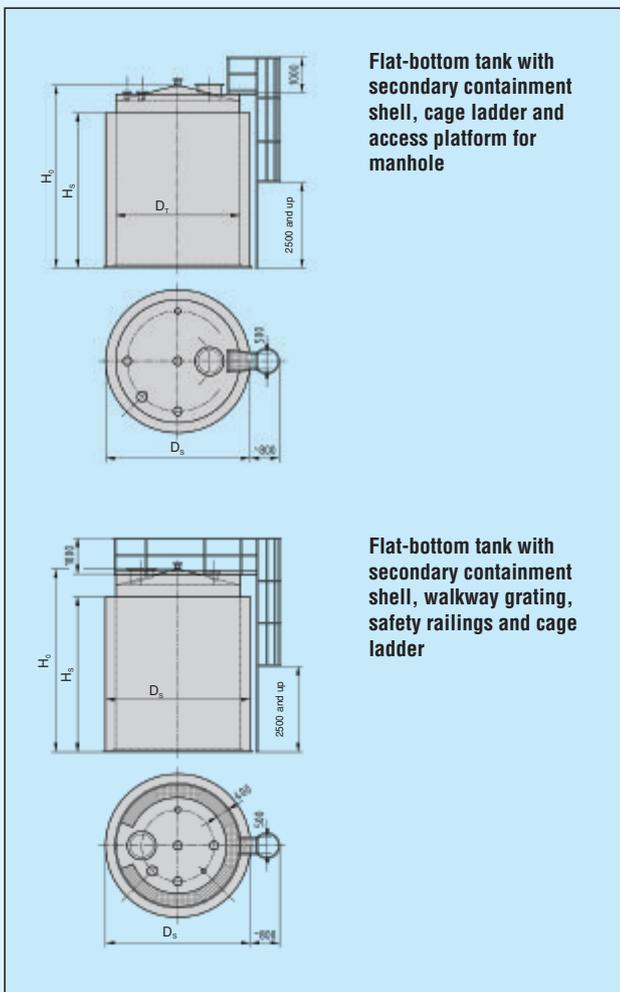


Storage Container fabricated from natural-coloured HDPE (Foods grade)

HDPE Spiral-Wound Flat-Bottom Tanks, With Secondary Containment Shell

Capacity (L) of flat-bottom tank	I.D. (mm) of flat-bottom tank	Cylinder height (mm) of flat-bottom tank	Overall height (mm) of flat-bottom tank	Roof height (mm) of flat-bottom tank	I.D. (mm) of containment shell	Height (mm) of containment shell
25,000	2,250	6,540	6,840	300	2,500	6,280
25,000	2,500	5,340	5,670	330	2,800	5,080
25,000	2,800	4,240	4,620	380	3,070	4,080
25,000	3,000	3,700	4,100	400	3,400	3,500
25,000	3,400	2,900	3,325	460	3,600	2,740
25,000	3,600	2,585	3,040	480	4,000	2,450
30,000	2,250	7,850	8,150	300	2,500	7,530
30,000	2,500	6,410	6,740	330	2,800	6,200
30,000	2,800	5,090	5,470	380	3,070	4,900
30,000	3,000	4,440	4,840	400	3,400	4,220
30,000	3,400	3,340	3,800	460	3,670	3,300
30,000	3,600	3,105	3,555	480	4,000	3,300
35,000	2,800	5,985	6,330	380	3,000	5,745
35,000	3,000	5,215	5,585	400	3,400	4,950
35,000	3,400	4,060	4,485	460	3,600	3,855
35,000	3,600	3,620	4,072	480	4,000	3,440
40,000	2,800	6,840	7,185	380	3,000	6,610
40,000	3,000	5,930	6,330	400	3,400	5,630
40,000	3,400	4,490	4,950	460	3,670	4,400
40,000	3,600	4,110	4,590	480	4,000	3,900
50,000	3,000	7,420	7,820	400	3,400	7,050
50,000	3,400	5,800	6,225	460	3,600	5,565
50,000	3,600	5,140	5,620	480	4,000	4,900

Custom sizes and designs are available on request.



Automatic Extrusion Welding Machine. Bottoms can be welded to the shells

Flat-Bottom Tank with HDPE-Containment Shell

600 mm I.D manhole, airtight, with fastening screws

Vacuum-siphoning device, PVC

Inspection port

PVC vacuum pump with take-off line

Mechanical filling-level indicator

Ventilation elbow

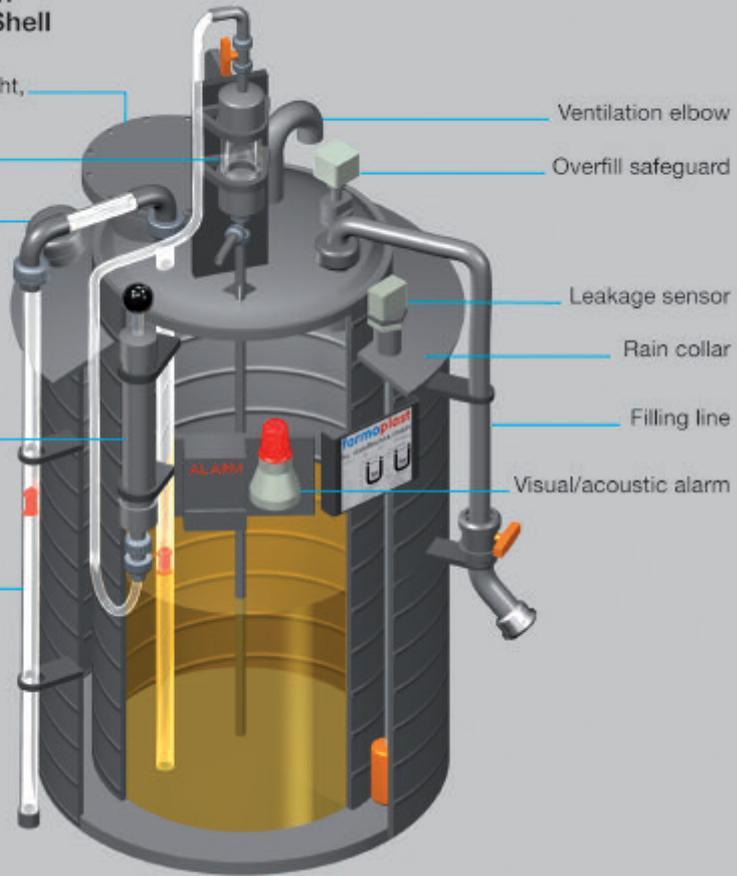
Overfill safeguard

Leakage sensor

Rain collar

Filling line

Visual/acoustic alarm



Chemical storage facility with 5 helically wound HDPE tanks.
 Contents: 45 % potassium hydroxide, 50 % sodium hydroxide,
 75 % phosphoric acid, 37 % hydrochloric acid
 and 96 % sulfuric acid.
 Capacity: 32,000 L, diameter 2800 mm,
 height 5880 mm.

Options included: side manhole, electric surface heating for indirect heating of contents, cylindrical insulation with 60 mm thick PU foam and white helically wound HDPE jacketing, cage ladder and safety bar, access platform for top manhole.





formoplast helically wound HDPE storage tanks, installed in owner's concrete catchment basin. Contents: 75 % phosphoric acid.
Capacity: 50,000 L, diameter: 3000 mm, height: 7500 mm



formoplast storage tank with secondary containment shell.
Contents: coagulant from water treatment plant.
Capacity: 25,000 L, diameter: 3000 mm, overall height: 4700 mm

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formoplast HDPE tanks are certified to demanding standards by the German Institute of Construction Technology of Berlin.

Certification No. Z-40.21-121

With WHG 19I Environmental Certification



formoplast

Kunststofftechnik GmbH

Dieselstraße 19

D-89160 Dornstadt

Tel. +49 (0) 73 48/98 69-0

Fax+49 (0) 73 48/98 69-40

info@formoplast.com

www.formoplast.com