



waterstorage

Tanks, liners, covers and excavated reservoirs

GAURIS 

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Gauris Water Storage Tank

Gauris is right at home in the world of water storage. Water Tanks do not hold any secrets for us. What is more, we can make them in any size, any volume, any material thickness, and we can even make them for any application. Our water tanks are custom-made, even in larger production runs. We do this ourselves in our new production facility in Grou, Friesland, where we are able to work dimensionally stable using the latest equipment. Gauris controls the entire process, from taking the order to delivering the water tank to you in person on site.

We can offer storage solutions for rainwater, drainage water, irrigation water as well as for drinking water, waste water, slow sand filtration, manure and sludge storage.

Features of the Gauris Water Storage Tank:

- Standard minimum steel thickness of 1 mm (ArcelorMittal steel)
- Maximum height of 6.10 metres
- Diameter ranging from 1 to 31 metres
- Maximum capacity of 1922 m³
- Can be delivered in a chromate-free organic coloured coating, in dark green or light grey
- Galvanised with zinc/magnesium/aluminium
- Liners can be supplied in a variety of materials (PVC, FFP and EPDM)
- Easy to transport all over the world as a complete package (long or short panel)
- Tried and tested concept – in-house production – one stop shopping
- 5-year guarantee for PVC and 10-year guarantee for FFP and EDPM
- Unique, strong, patented bolt connection
- Advice throughout the process, from purchase, construction, up to delivery (turnkey)



We are seeing a growing demand across the world for water storage and a need to improve sanitary facilities. That is why we have recently added the development of concepts for purifying and storing drinking water to our product portfolio which will form an important cornerstone for the future.



The Gauris Water Storage Tank is composed of panels with two different dimensions. The short panel measures 2,300 mm and the long panel measures 3,048 mm. The panels have a protective galvanised coating. The newly developed Magnelis® galvanisation offers far higher resistance against red and white rust than any other method of galvanisation. The wave profile is increased from 18 mm to 20 mm which makes the tanks considerably firmer and more rigid. The steel panels are available in sizes which are easy to transport and they fit perfectly in a truck or container.



Unique attachment

The bolts and washers of the Gauris Water Storage Tank have the same shape as the wave in the steel plates. This means that the connection can support a tensile strength that is twice that of standard bolts. The Gauris Water Storage Tank bolt sets enable rapid assembly because they cannot be overturned.

Gauris Liners

Gauris Liners can be supplied for Gauris Water Storage Tanks in various materials and in thicknesses ranging from 0.5 to 1 mm. Water reservoirs have a maximum thickness of 1,5 mm.

Gauris PVC

A well-known material that is also cheap to purchase. Easy to handle. Suitable for storing both clean and slightly chlorinated water.

Characteristics:

- Cheap to purchase
- Easy to handle
- Exceptionally easy to repair

Gauris FPP

Suitable for storing drinking water, rainwater and waste water. Can even be used for storing drinking water. Also suitable for peak water temperatures of up to 80 degrees Celsius. Resistant to UV radiation.

Characteristics

- Resistant to UV radiation
- Suitable for high peak temperatures
- Can be used for storing drinking water

Gauris EPDM

European EPDM that can be supplied in various thicknesses (from 0.75 to 1.5 mm). EPDM foil is made from rubber. It is strong and retains its natural elasticity for an extremely long time. The foil is also highly resistant against UV radiation. This foil can have a lifespan of at least 20 years. EPDM foil is more flexible than PVC foil. That is why EPDM foil is easier to apply during the production of water reservoirs.

Characteristics:

- High elasticity (+/- 400%)
- Flexible material
- Long lifespan (>20 years)
- 10-year guarantee
- UV-resistant



Cover options for the Gauris Water Storage Tank

To prevent the growth of algae and evaporation in a water silo, Gauris offers a wide range of optional covers. The options include an anti-algae cover (such as a floating cover or a tensioned cover) and a steel roof. The range also comprises specially-developed materials that are suitable for storing water in countries with extreme climatological conditions such as heat, cold and high UV radiation. Water silos may have diameters ranging from 1 to 32 metres and heights of between 1 and 6.1 metres. Our water silos are durable and simple to assemble. The steel plates stand out because of their ability to retain their shape and their mechanical tensile strength. We apply an impervious silo cladding to all our water silos.

Excavated water reservoirs, with or without an anti-algae cover

Gauris Liners enable so-called excavated water reservoirs to be constructed. This is an affordable option when a large enough area is available. It does not require steel panels and often a 2D protective cover is sufficient. If required, we can create an excavation plan with installation drawings and calculations for the earthwork.

Gauris Liners are supplied with an open edge. This enables the liners to be simply and safely fitted using a tensioning strap.



Bottom outlet flange



Tank wall connector



Conical bottom outlet



We can also provide a tensioned cover in addition to a floating cover. Both covers prevent the growth of algae and other contaminations. The tensioned cover is made from FPP and is provided with an open edge for fitting a pipe into the edge. The cover is tensioned by means of a tensioning strap.

Excavated water reservoirs are used for collecting among other things: Leachate from compost heaps, or for instance, for scouring water in the processing industry. They are also used for fish and shrimp farming, and have various applications in the horticultural sector.

Manure storage

We also supply manure silos which come with KIWA certification. These silos are suitable for manure, but naturally can also be used for sludge and all other sorts of fluids. The inner side of the manure silo is fitted with a high-quality, 1 mm FPP manure sack. A floating cover can be fitted to the reservoir, but it is also possible to attach a tensioned cover to reservoirs with diameters of up to 25 metres. The manure silo is emptied and filled through a removal/fill pipe under the length of the reservoir, or through a pipe over the edge if necessary.

We will be pleased to advise you on the solution that best suits your requirements.

SHORT PANEL

Ref	A	B	C	D	E	F	G	H	
Height	0.85	1.55	2.35	3.1	3.85	4.6	5.35	6.1	
∅									
	(m)	(m³)	(m³)	(m³)	(m³)	(m³)	(m³)	(m³)	(m³)
SP 1	1.35	1	2	3	4	6	7	8	9
SP 2	2.02	3	5	7	10	12	15	17	20
SP 3	2.69	5	9	13	18	22	26	30	35
SP 4	3.36	7	14	21	27	34	41	48	54
SP 5	4.04	11	20	30	39	49	59	68	78
SP 6	4.71	14	27	40	53	67	80	93	106
SP 7	5.38	19	35	53	70	87	104	122	139
SP 8	6.05	24	45	66	88	110	132	154	176
SP 9	6.73	29	55	82	109	136	163	190	217
SP 10	7.40	35	67	99	132	165	197	230	263
SP 11	8.07	42	79	118	157	196	235	274	312
SP 12	8.74	49	93	139	184	230	275	321	367
SP 13	9.42	57	108	161	214	267	319	372	425
SP 14	10.09	66	124	185	245	306	367	427	488
SP 15	10.76	75	141	210	279	348	417	486	555
SP 16	11.43	84	159	237	315	393	471	549	627
SP 17	12.11	94	178	266	353	441	528	615	703
SP 18	12.78	105	199	296	393	491	588	686	783
SP 19	13.45	117	220	328	436	544	652	760	868
SP 20	14.12	129	243	362	481	600	719	838	957
SP 21	14.80	141	266	397	527	658	789	919	
SP 22	15.47	154	291	434	577	719	862	1005	
SP 23	16.14	168	317	472	628	783	939	1094	
SP 24	16.82	182	344	512	681	850	1019		
SP 25	17.49	197	372	554	737	919	1102		
SP 26	18.16	212	401	598	794	991	1188		
SP 27	18.83	228	431	643	854	1066	1278		
SP 28	19.51	245	463	689	916	1143			
SP 29	20.18	262	495	738	981	1224			
SP 30	20.85	280	528	788	1047	1307			
SP 31	21.52	298	563	840	1116	1392			
SP 32	22.20	317	599	893	1187	1481			
SP 33	22.87	337	636	948	1260				
SP 34	23.54	357	674	1004	1335				
SP 35	24.21	378	713	1062	1412				
SP 36	24.89	399	753	1122	1492				
SP 37	25.56	421	794	1184	1574				
SP 38	26.23	443	836	1247	1657				
SP 39	26.90	466	880	1312	1744				
SP 40	27.58	490	924	1378	1832				
SP 41	28.25	514	970	1446	1922				
SP 42	28.92	539	1017	1516					
SP 43	29.59	564	1065	1587					
SP 44	30.27	590	1113	1660					
SP 45	30.94	616	1164	1735					

LONG PANEL

Ref	A	B	C	D	E	F	G	H	
Height	0.85	1.55	2.35	3.1	3.85	4.6	5.35	6.1	
∅									
	(m)	(m³)	(m³)	(m³)	(m³)	(m³)	(m³)	(m³)	(m³)
LP 1	1.82	2	4	6	8	10	12	14	16
LP 2	2.73	5	9	14	18	23	27	31	36
LP 3	3.64	9	16	24	32	40	48	56	64
LP 4	4.55	13	25	38	50	62	75	87	100
LP 5	5.46	19	36	54	72	90	108	125	143
LP 6	6.38	26	50	74	98	122	147	171	195
LP 7	7.29	34	65	96	128	160	191	223	255
LP 8	8.20	43	82	122	162	202	242	282	322
LP 9	9.11	54	101	150	200	249	299	348	398
LP 10	10.02	65	122	182	242	302	362	422	481
LP 11	10.93	77	145	217	288	359	430	502	573
LP 12	11.84	90	170	254	338	421	505	589	672
LP 13	12.75	105	198	295	392	489	586	683	780
LP 14	13.66	120	227	338	450	561	672	784	895
LP 15	14.57	137	258	385	512	638	765	892	
LP 16	15.48	154	291	435	578	721	864	1007	
LP 17	16.39	173	327	487	647	808	968		
LP 18	17.31	193	364	543	721	900	1079		
LP 19	18.22	214	403	601	799	997	1195		
LP 20	19.13	236	445	663	881	1100	1318		
LP 21	20.04	259	488	728	967	1207			
LP 22	20.95	283	533	795	1057	1319			
LP 23	21.86	308	581	866	1151	1436			
LP 24	22.77	334	630	940	1249	1558			
LP 25	23.68	361	682	1016	1351				
LP 26	24.59	389	735	1096	1457				
LP 27	25.50	419	791	1179	1567				
LP 28	26.41	449	848	1264	1681				
LP 29	27.32	481	908	1353	1798				
LP 30	28.24	513	969	1445	1920				
LP 31	29.15	547	1033	1539					
LP 32	30.06	582	1098	1637					
LP 33	30.97	617	1166	1738					

TABLE OF STANDARD MEASUREMENTS

EXAMPLE

Short Panel

1481 = SP32E

Long Panel

1558 = LP24E