

Water storage tanks (Netafim)



Netafim supplies water storage tanks as Netafim brand. Water storage tanks are a solution where space is limited and can be used to store various types of water. Tanks may be installed both indoors and outdoors.

Water storage tanks are made from corrugated and galvanised steel plate. Various plate thicknesses are used for the construction. The plates of the lowest rings are thicker than the uppermost layers, depending on diameter and height. The diameter is determined by the number of plates in a layer. The height is determined by the number of layers.

The water storage tank is galvanised as standard, but a coating can be applied as an option. The Netafim tanks have the benefit that the cut edges of coated steel plates are also coated, and that with plates above 1.0 mm wall thickness a higher steel grade is used as standard.

APPLICATION

Storage of various types of water

CHARACTERISTICS

- ✓ Available as a (self-)assembly kit
- ✓ Assembly using nuts and bolts
- ✓ Simple dismantling for re-use
- ✓ Long-lasting protection against corrosion thanks to galvanised corrugated steel plates
- ✓ Also available with completely or partly coated plating

TECHNICAL DATA

Bolts	: M10*
Coating	: zinc alloy (Sendzimir) 450 g/m ²
Weight	: approx. 1 kg zinc per m ² plate
Material	: steel (S280) up to 0.8 mm and S350 above 1.0 mm
Colour	: galvanised
Plate length	: 3.018 meters**
Plate thickness	: 0.8 - 2.0 mm (standard)
Options	: two-sided coated plates as standard in RAL colour 6007 (green), but other RAL colours are also possible
	: export-friendly SP tanks with modified dimensions for sea containers (package length 2.3 metres)
	: different sizes of silos on request a different specific gravity (e.g. slurry), on request

* M10 except for tank 20.12x4.62 (see table)

** The length of the plates can be slightly larger with very large tanks in combination with an additional row of bolt holes



INSTALLATION & MAINTENANCE

- ✓ The tanks can be installed on a sufficient and sturdy floor with a foundation of e.g. 30x30 cm concrete slabs, thickness 5 cm. This floor should be strong enough to support the weight of the tank with contents; a soil investigation may be necessary.
- ✓ Other dimensions and thicknesses of slab are also OK as long as they satisfy at least the dimensions indicated above. A complete concrete foundation is not always absolutely necessary.
- ✓ In order to protect the tanks against movement and damage in strong winds, we recommend that the tanks are anchored into the ground by digging min. 40 cm and max. 80 cm (= 1 ring); the underside of the tank should remain at least 15 cm above groundwater level.
- ✓ If a tank is installed on a hard floor (concrete or rock), it should be fixed to the floor using steel anchors (after the tank has been assembled and filled with water so that the tank has "settled"). Prices for anchors can be provided on request.
- ✓ In order to protect the bottom ring against the effects of e.g. salts, it can be provided with an extra protective coating. If desired, an epoxy coating can be applied at the factory.
- ✓ In order to prevent damage, a water tank should remain filled with at least half a meter of water. If the water in a tank has frozen, no water may be admitted to or drained from the tank due to the risk of damage to the foil and steel plate.
- ✓ The tank should be installed above the groundwater level on a substrate free from sharp material.
- ✓ The plates should be installed like roof tiles.

TANK SPECIFICATION

Dimensions, weight and capacity, plate thickness and number of nuts & bolts of Netafim water silo plating

Height Diameter (m)	1,52 meters 2 rings	2,31 meters 3 rings	3,08 meters 4 rings	3,85 meters 5 rings	4,62 meters 6 rings	Plates per ring
1,86	4,1 m ³ - 77 kg aa 128x M10	6,3 m ³ - 116 kg aaa 192x M10	8,4 m ³ - 155 kg aaaa 256x M10	10 m ³ - 193 kg aaaaa 320x M10	12,4 m ³ - 286 kg aaaaab 364x M10	2
2,74	9 m ³ - 108 kg aa 192x M10	14 m ³ - 162 kg aaa 288x M10	18 m ³ - 216 kg aaaa 384x M10	23 m ³ - 270 kg aaaaa 480x M10	27 m ³ - 336 kg aaaaab 576x M10	3
3,66	16 m ³ - 144 kg aa 256x M10	24 m ³ - 216 kg aaa 384x M10	32 m ³ - 288 kg aaaa 512x M10	41 m ³ - 360 kg aaaaa 640x M10	48 m ³ - 448 kg aaaaab 768x M10	4
4,57	25 m ³ - 180 kg aa 320x M10	38 m ³ - 270 kg aaa 480x M10	51 m ³ - 360 kg aaaa 640x M10	63 m ³ - 450 kg aaaaa 800x M10	75 m ³ - 560 kg aaaaab 960x M10	5
5,49	36 m ³ - 216 kg aa 384x M10	55 m ³ - 324 kg aaa 576x M10	73 m ³ - 432 kg aaaa 768x M10	91 m ³ - 564 kg aaaaab 960x M10	108 m ³ - 696 kg aaaabb 1152x M10	6
6,40	49 m ³ - 252 kg aa 448x M10	74 m ³ - 378 kg aaa 672x M10	99 m ³ - 504 kg aaaa 896x M10	124 m ³ - 658 kg aaaab 1120x M10	148 m ³ - 812 kg aaaabb 1344x M10	7
7,32	64 m ³ - 288 kg aa 512x M10	97 m ³ - 432 kg aaa 768x M10	130 m ³ - 608 kg aaab 1324x M10	162 m ³ - 784 kg aaabb 1280x M10	194 m ³ - 968 kg aaabbc 1608x M10	8
8,24	81 m ³ - 324 kg aa 576x M10	123 m ³ - 486 kg aaa 864x M10	164 m ³ - 684 kg aaab 1152x M10	205 m ³ - 882 kg aaabb 1440x M10	246 m ³ - 1098kg aaabbc 1809x M10	9
9,15	100 m ³ - 360 kg aa 640x M10	152 m ³ - 580 kg aab 960x M10	203 m ³ - 800 kg aabb 1280x M10	253 m ³ - 1030 kg aabbc 1690x M10	302 m ³ - 1310 kg aabbcd 2100x M10	10
10,06	121 m ³ - 396 kg aa 704x M10	184 m ³ - 638 kg aab 1056x M10	245 m ³ - 880 kg aabb 1408x M10	306 m ³ - 1133 kg aabbc 1859x M10	367 m ³ - 1441 kg aabbcd 2310x M10	11
10,98	144 m ³ - 432 kg aa 768x M10	219 m ³ - 696 kg aab 1152x M10	292 m ³ - 972 kg aabc 1644x M10	365 m ³ - 1308 kg aabcd 2136x M10	437 m ³ - 1644 kg aabccd 2628x M10	12
11,90	169 m ³ - 468 kg aa 832x M10	257 m ³ - 754 kg aab 1248x M10	343 m ³ - 1053 kg aabc 1781x M10	428 m ³ - 1417 kg aabcd 2314x M10	513 m ³ - 1781 kg aabccd 2847x M10	13
12,81	196 m ³ - 504 kg aa 896x M10	298 m ³ - 812 kg aab 1314x M10	397 m ³ - 1134 kg aabc 1918x M10	496 m ³ - 1526 kg aabcd 2492x M10	596 m ³ - 2016 kg aabcede 3066x M10	14
13,72	225 m ³ - 540 kg aa 960x M10	342 m ³ - 870 kg aab 1440x M10	455 m ³ - 1215 kg aabc 2055x M10	569 m ³ - 1635 kg aabcd 2670x M10	682 m ³ - 2160 kg aabcede 3285x M10	15
14,64	256 m ³ - 640 kg ab 1024x M10	389 m ³ - 1008 kg abc 1680x M10	518 m ³ - 1456 kg abcd 2336x M10	648 m ³ - 1904 kg abcdd 2996x M10	777 m ³ - 2464 kg abcdde 3648x M10	16
15,56	289 m ³ - 680 kg ab 1088x M10	439 m ³ - 1071 kg abc 1785x M10	586 m ³ - 1547 kg abcd 2482x M10	732 m ³ - 2023 kg abcdd 3179x M10	877 m ³ - 2618 kg abcdde 3876x M10	17
16,47	324 m ³ - 720 kg ab 1152x M10	492 m ³ - 1134 kg abc 1890x M10	656 m ³ - 1638 kg abcd 2628x M10	820 m ³ - 2268 kg abcde 3366x M10	985 m ³ - 3051 kg abcdef 4104x M10	18
17,39	361 m ³ - 760 kg ab 1216x M10	549 m ³ - 1197 kg abc 1995x M10	732 m ³ - 1729 kg abcd 2774x M10	914 m ³ - 2394 kg abcde 3553x M10	1096 m ³ - 3221 kg abcdef 4332x M10	19
18,30	400 m ³ - 800 kg ab 1280x M10	608 m ³ - 1260 kg abc 2100x M10	810 m ³ - 1820 kg abcd 2920x M10	1013 m ³ - 2520 kg abcde 3740x M10	1214 m ³ - 3390 kg abcdef 4560x M10	20
19,22	440 m ³ - 840 kg ab 1344x M10	669 m ³ - 1323 kg abc 2205x M10	893 m ³ - 1911 kg abcd 3066x M10	1116 m ³ - 2646 kg abcde 3927x M10	1339 m ³ - 2560 kg abcdef 4788x M10	21
20,12	482 m ³ - 880 kg ab 1408x M10	734 m ³ - 1496 kg abd 2310x M10	978 m ³ - 2266 kg abde 3212x M10	1223 m ³ - 3223 kg abdef 4114x M10	1470 m ³ - 4191 kg abdeff 4114x M10 902x M12	22
21,05	528 m ³ - 920 kg ab 1472x M10	802 m ³ - 1564 kg abd 2415x M10	1070 m ³ - 2369 kg abde 3358x M10	1337 m ³ - 3369 kg abdef 4301x M10	-	23
21,96	575 m ³ - 984 kg ac 1752x M10	874 m ³ - 1656 kg acd 2736x M10	1165 m ³ - 2496 kg acde 3720x M10	1457 m ³ - 3540 kg acdef 4704x M10	-	24

a = 0.8 mm (2 rows of bolts)

b = 1 mm (2 rows of bolts)

c = 1 mm (3 rows of bolts)

d = 1.25 mm (3 rows of bolts)

e = 1.6 mm (3 rows of bolts)

f = 2 mm (3 rows of bolts)

Deviate tank sizes on request.