Overview: IS 12701:1996 concerns rotational moulded polyethylene water storage tanks, including material properties, construction, performance criteria and marking. The supplied description refers to tanks up to 10,000 litres; the supplied Table 1 also lists 15,000 and 20,000 litres.

Table 1 | Dimensions of Cylindrical Vertical Tank

Clause 5.1 | Minimum net capacity measured up to effective height.

Minimum net capacity (L)	Overall diameter range (mm)	Overall height range (mm)	Min internal manhole / hand-hole dia (mm)	Min wall and bottom thickness (mm)	Min weight without lid (kg)
200	650 - 850	490 - 690	265	3.0	7.8
300	650 - 850	700 - 900	265	3.0	9.0
400	700 - 980	700 - 950	265	3.5	15.0
500	800 - 1,140	625 - 1,025	370	4.0	18.0
700	900 - 1,140	800 - 1,100	370	4.4	23.0
1,000	1,000 - 1,200	1,050 - 1,350	370	4.5	33.0
1,500	1,080 - 1,450	1,150 - 1,590	370	4.5	47.0
1,700	1,300 - 1,500	1,260 - 1,650	370	4.5	54.0
2,000	1,365 - 1,500	1,400 - 1,700	450	5.4	64.0
2,500	1,380 - 1,610	1,400 - 1,810	450	7.7	81.0
3,000	1,410 - 1,800	1,640 - 2,150	450	8.1	96.0
4,000	1,450 - 1,920	1,750 - 2,400	450	10.4	147.0
5,000	1,800 - 2,110	1,800 - 2,100	450	10.7	180.0
6,000	1,800 - 2,200	2,065 - 2,800	450	10.7	205.0
7,500	1,890 - 2,250	2,100 - 2,930	450	10.7	239.0
10,000	1,900 - 2,680	2,400 - 3,740	450	11.5	319.0
15,000	2,100 - 2,680	3,100 - 4,000	450	11.5	408.0
20,000	2,100 - 3,150	3,190 - 5,000	450	13.2	566.0

Note: Gross capacity must be at least 5 percent greater than the minimum net capacity.

Table 2 | Dimensions of Rectangular Loft Tanks

Clause 5.2 | Units inferred from the corresponding quantities in Table 1; the source Table 2 does not print unit labels.

Net capacity (L)	Overall length (mm)	Overall width (mm)	Overall height (mm)	Min internal hand hole dia (mm)	Min wall and bottom thickness (mm)	Min weight without lid (kg)
150	620 - 820	620 - 820	285 - 485	300	2.75	6.6
200	930 - 1,130	620 - 820	285 - 485	300	2.75	7.7
300	995 - 1,200	620 - 820	285 - 485	300	2.75	11.0
400	1,150 - 1,350	855 - 1,150	335 - 535	300	2.75	13.0
500	1,150 - 1,500	900 - 1,250	335 - 535	300	2.75	17.5

Note: Gross capacity must be at least 5 percent greater than the minimum net capacity. Wall thickness is measured on the rectangular vertical portion and bottom.