

## Dome Capacity – Sand/Salt

Dome Size (Diameter)	CAPACITY					
	Volume (m <sup>3</sup> )		Weight (tonnes)			
			SAND		SALT	
17 metre	415	(0.226)	733	(0.399)	500	(0.272)
21 metre	735	(0.331)	1,298	(0.585)	855	(0.399)
24 metre	1,151	(0.446)	2,033	(0.788)	1,386	(0.537)
27 metre	1,663	(0.570)	2,937	(1.007)	2,002	(0.686)
30 metre	2,231	(0.694)	3,940	(1.226)	2,686	(0.836)
33 metre	2,872	(0.821)	5,072	(1.450)	3,458	(0.988)
50'	278	(0.173)	491	(0.306)	335	(0.208)
61'	519	(0.262)	917	(0.463)	625	(0.315)
72'	846	(0.363)	1,494	(0.641)	1,019	(0.437)
82'	1,257	(0.473)	2,220	(0.835)	1,513	(0.569)
91'	1,746	(0.589)	3,083	(1.040)	2,102	(0.709)
100'	2,297	(0.707)	4,057	(1.249)	2,766	(0.851)
116'	3,632	(0.960)	6,414	(1.695)	4,373	(1.156)
124'	4,628	(1.128)	8,173	(1.992)	5,573	(1.358)
136'	5,663	(1.291)	10,001	(2.280)	6,818	(1.554)
142'	6,779	(1.455)	11,972	(2.570)	8,162	(1.752)
150'	7,916	(1.614)	13,980	(2.850)	9,531	(1.943)

**Notes:**

- The dome size is nominal. The actual diameter varies due to segmented design.
- Building capacity is based on full charging with material at 33° angle of repose.
- First number given with regard to capacity is the capacity above foundation wall. The number in brackets is the additional capacity per millimeter of wall height.
- SAND: density = 1.766 tonne/m<sup>3</sup> (110 P.C.F.). Angle of repose = 33°
- SALT: density = 1.204 tonne/m<sup>3</sup> (75 P.C.F.). Angle of repose = 33°