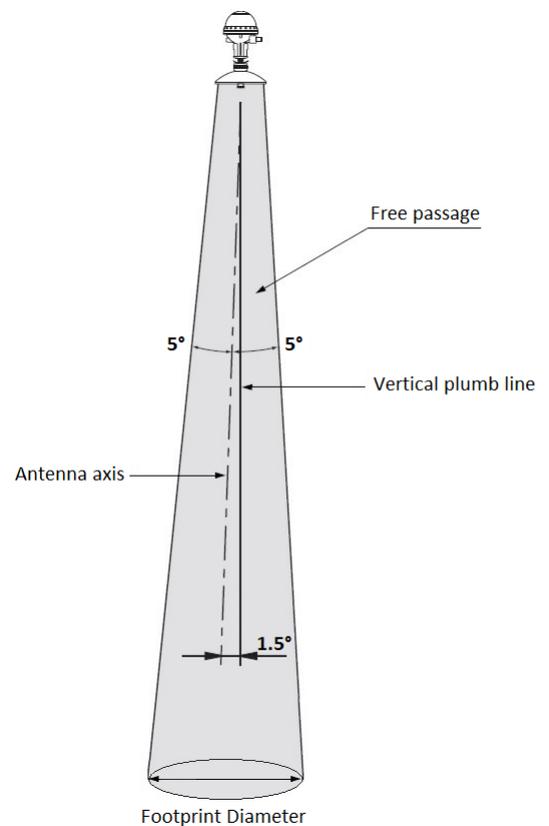
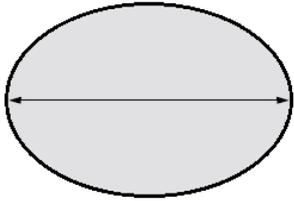


Installation Advice

- The WaveRadar REX is attitude sensitive and needs to be installed on a steady platform no more than $\pm 1.5^\circ$ from the vertical. If the WaveRadar REX is beyond these limits you may experience flat topping of data, gaps in data, static data or incorrect level measurements.
- The WaveRadar is normally installed by extending the sensor over the side of the platform using a mounting frame. An alternative method of mounting the WaveRadar REX is to install it through the decking of the host platform, aligned vertically to the water. The technique used is to remove a section of the decking/grating, cut an opening to suit the mounting flange plate and assemble the WaveRadar REX around the section. *It is strongly recommended that a grill or grating is used with this method and not a solid metal plate. Use of a solid metal plate may result in the introduction of spurious echoes.*
- The radar beam of the Parabolic Antenna Gauge is a 10° wide cone. Obstacles (construction bars, pipes larger than $\varnothing 2''$, etc.) within the radar beam are generally not accepted, as these can result in disturbing echoes.
- The size of the microwave footprint is a function of height. For example if you were to install the sensor 30m above the sea surface you would need an unobstructed footprint of at least 5.25m in diameter. *The footprint is slightly elliptical and during assembly of the WaveRadar REX the guide pin alignment ensures that the smallest axis is presented to the side of the platform.*
- With regard to the height of the sensor you need to consider the maximum peak to trough wave height (plus tidal excursion) expected under extreme conditions. This must lie within the sensor's operating range of 3 to 65m (from the upper surface of the TRL/2 adapter, the measurement datum).



Height Above Sea Level (m)	Diameter of Footprint (m)*
10	1.75
20	3.50
30	5.25
40	7.00
50	8.75
60	10.50



* Diameter = Height x 2 Tan(5°)