



BURDICK & SHORT BASE FORMULA

$$H = 3 + 0.2(x) + 0.2(y)$$

WHERE:

- H = Height above marine bottom in meters
- x = Number of 10° increments in dock orientation from North/South
- y = Number of 0.5 meter increments in dock width above 1 meter width

FOR A STANDARD 4' WIDE FIXED PIER:

$$y = \frac{4(12) - 1(39.37)}{(39.37 / 2)} = \frac{8.63}{19.685} = 0.438$$

use y = 0.4

$$H = 3 + 0.2(x) + 0.2(y)$$

$$= 3 + 0.2(x) + 0.2(0.4)$$

$$H = 3.08 + 0.2x \text{ in meters}$$

FOR A STANDARD 4' WIDE DOCK:

Az	x	H (meters)	H (feet)
0°, 180°	0	3.08 m	10.1 ft
10°, 170°, 190°, 350°	0	3.08 m	10.1 ft
20°, 160°, 200°, 340°	1	3.28 m	10.8 ft
30°, 150°, 210°, 330°	2	3.48 m	11.4 ft
40°, 140°, 220°, 320°	3	3.68 m	12.1 ft
50°, 130°, 230°, 310°	4	3.88 m	12.7 ft
60°, 120°, 240°, 300°	5	4.08 m	13.4 ft
70°, 110°, 250°, 290°	6	4.28 m	14.0 ft
80°, 100°, 260°, 280°	7	4.48 m	14.7 ft
90°, 270°	8	4.68 m	15.4 ft

