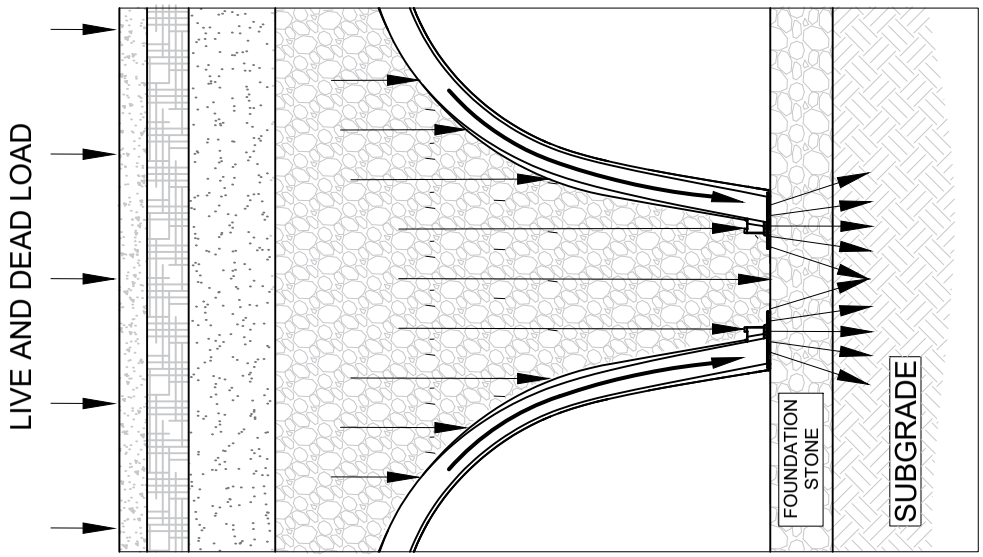

HS290 Minimum Required Stone Foundation Depth, in (mm)

Cover Height ft (m)	Minimum Required Bearing Capacity of Native Soil Subgrade, kpf (kPa)																								
	4.4 (211)	4.3 (206)	4.2 (201)	4.1 (196)	4.0 (192)	3.9 (187)	3.8 (182)	3.7 (177)	3.6 (172)	3.5 (168)	3.4 (163)	3.3 (158)	3.2 (153)	3.1 (148)	3.0 (144)	2.9 (139)	2.8 (134)	2.7 (129)	2.6 (124)	2.5 (120)	2.4 (115)	2.3 (110)	2.2 (105)	2.1 (101)	2.0 (96)
2.0 (0.61)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	12.0 (305)	12.0 (305)	12.0 (305)	15.0 (381)	15.0 (381)	15.0 (381)
2.5 (0.76)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	12.0 (305)	12.0 (305)	12.0 (305)	12.0 (305)	15.0 (381)	15.0 (381)	15.0 (381)	18.0 (457)
3.0 (0.91)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	12.0 (305)	12.0 (305)	12.0 (305)	15.0 (381)	15.0 (381)	15.0 (381)	18.0 (457)	18.0 (457)	18.0 (457)
3.5 (1.07)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	12.0 (305)	12.0 (305)	12.0 (305)	12.0 (305)	15.0 (381)	15.0 (381)	15.0 (381)	18.0 (457)	18.0 (457)	24.0 (610)	24.0 (610)
4.0 (1.22)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	12.0 (305)	12.0 (305)	12.0 (305)	12.0 (305)	15.0 (381)	15.0 (381)	15.0 (381)	15.0 (381)	18.0 (457)	18.0 (457)	24.0 (610)	24.0 (610)	24.0 (610)
4.5 (1.37)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	12.0 (305)	12.0 (305)	12.0 (305)	12.0 (305)	15.0 (381)	15.0 (381)	15.0 (381)	18.0 (457)	18.0 (457)	18.0 (457)	24.0 (610)	24.0 (610)	24.0 (610)	30.0 (762)
5.0 (1.52)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	12.0 (305)	12.0 (305)	12.0 (305)	12.0 (305)	15.0 (381)	15.0 (381)	15.0 (381)	15.0 (381)	18.0 (457)	18.0 (457)	18.0 (457)	24.0 (610)	24.0 (610)	24.0 (610)	24.0 (610)	30.0 (762)
5.5 (1.68)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	12.0 (305)	12.0 (305)	12.0 (305)	12.0 (305)	12.0 (305)	15.0 (381)	15.0 (381)	15.0 (381)	18.0 (457)	18.0 (457)	18.0 (457)	24.0 (610)	24.0 (610)	24.0 (610)	24.0 (610)	24.0 (610)	30.0 (762)	30.0 (762)
6.0 (1.83)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	12.0 (305)	12.0 (305)	12.0 (305)	12.0 (305)	12.0 (305)	15.0 (381)	15.0 (381)	15.0 (381)	15.0 (381)	18.0 (457)	18.0 (457)	18.0 (457)	24.0 (610)	24.0 (610)	24.0 (610)	24.0 (610)	30.0 (762)	30.0 (762)	30.0 (762)
6.5 (1.98)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	12.0 (305)	12.0 (305)	12.0 (305)	12.0 (305)	12.0 (305)	15.0 (381)	15.0 (381)	15.0 (381)	15.0 (381)	18.0 (457)	18.0 (457)	18.0 (457)	24.0 (610)	24.0 (610)	24.0 (610)	24.0 (610)	30.0 (762)	30.0 (762)	30.0 (762)	30.0 (762)
7.0 (2.13)	9.0 (229)	9.0 (229)	9.0 (229)	9.0 (229)	12.0 (305)	12.0 (305)	12.0 (305)	12.0 (305)	12.0 (305)	12.0 (305)	15.0 (381)	15.0 (381)	15.0 (381)	18.0 (457)	18.0 (457)	18.0 (457)	24.0 (610)	24.0 (610)	24.0 (610)	24.0 (610)	30.0 (762)	30.0 (762)	30.0 (762)	30.0 (762)	36.0 (914)
7.5 (2.29)	9.0 (229)	9.0 (229)	12.0 (305)	12.0 (305)	12.0 (305)	12.0 (305)	12.0 (305)	15.0 (381)	15.0 (381)	15.0 (381)	15.0 (381)	18.0 (457)	18.0 (457)	18.0 (457)	18.0 (457)	24.0 (610)	24.0 (610)	24.0 (610)	24.0 (610)	24.0 (610)	30.0 (762)	30.0 (762)	30.0 (762)	36.0 (914)	36.0 (914)
8.0 (2.44)	9.0 (229)	12.0 (305)	12.0 (305)	12.0 (305)	12.0 (305)	12.0 (305)	15.0 (381)	15.0 (381)	15.0 (381)	15.0 (381)	18.0 (457)	18.0 (457)	18.0 (457)	18.0 (457)	24.0 (610)	24.0 (610)	24.0 (610)	24.0 (610)	24.0 (610)	30.0 (762)	30.0 (762)	30.0 (762)	36.0 (914)	36.0 (914)	36.0 (914)

REFERENCE HYDROSTOR DESIGN GUIDE SECTION 4.1 FOR
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SCALE: NTS | SHEET: 1 OF 1

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