

Table 1: Undrained Bearing Resistance (BS EN 1997 Eq D1

Parameter	Value	Description
length (m)	6	Length of foundation
breadth (m)	3	Breadth of foundation
area (m ²)	18	Effective bearing area
cohesion (kPa)	75	Undrained shear strength
N _c	5.14159	Bearing capacity factor
s _c	1.1	Shape factor
i _c	1	Load inclination factor
b _c	1	Base inclination factor
q _{inc} (kPa)	424.181175	Total undrained bearing resistance
surcharge (kPa)	10	Surcharge adjacent to foundation
qult (kPa)	434.181175	Total ultimate bearing resistance