

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

<b>Parameter</b>	<b>Value</b>	<b>Description</b>
length (m)	6	Length of foundation
breadth (m)	3	Breadth of foundation
area (m <sup>2</sup> )	18	Effective bearing area
cohesion (kPa)	75	Undrained shear strength
N <sub>c</sub>	5.14159	Bearing capacity factor
s <sub>c</sub>		Shape factor
i <sub>c</sub>	1	Load inclination factor
b <sub>c</sub>	1	Base inclination factor
q <sub>inc</sub> (kPa)	424.181175	Total undrained bearing resistance
surcharge (kPa)	10	Surcharge adjacent to foundation
q <sub>ult</sub> (kPa)	434.181175	Total ultimate bearing resistance