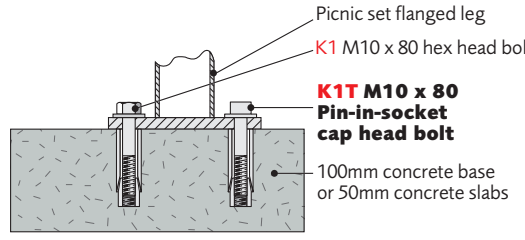
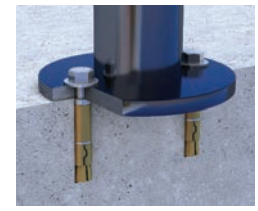
Installation Recommendations

1. Rawl bolts (K1, K1T, K3 or K3T)

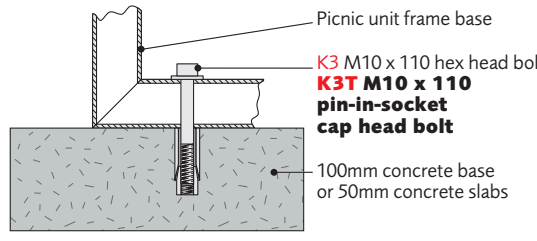
Picnic furniture can be rawl bolted to an existing surface of sound concrete, or well laid traditional size concrete or stone slabs, using these M10 rawl bolts. This method is not normally suitable for installing picnic furniture onto small block paviours. All the bolts in these options are stainless steel.

- K1, K3 have hex head bolts
- K1T, K3T have tamper resistant pin-in-socket cap head bolts to reduce the risk of unauthorised removal





K1 Ground fixing



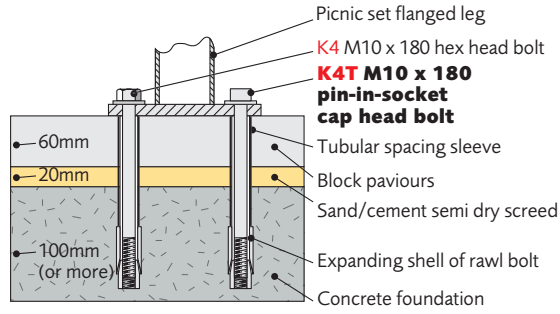


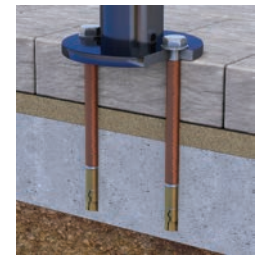
K3 Ground fixing

2. Extended rawl bolts and spacers (K4, K4T, K10 or K10T)

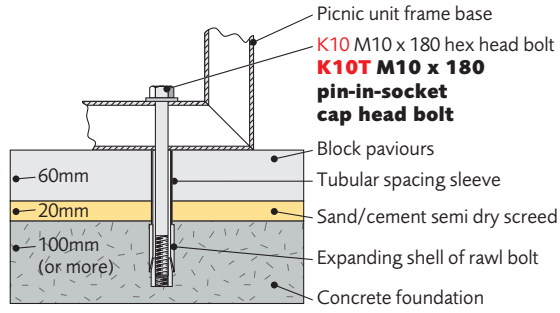
For the installation of picnic units onto small block paviours, typically 60mm thick, we recommend either the K4, K4T, K10 or K10T M10 x 180, extended rawl bolts, with semi collapsible spacing tubes. The spacing tubes hold the rawl bolt shell in the concrete (which must be laid beneath the paviours) whilst the bolt is being tightened. It is recommended that the paviours in the area of the units are bedded on top of the concrete using a semi dry sand cement screed about 20mm thick. These kits are also suitable for fixing units onto surfaces of bituminous macadam, laid on top of concrete. All the bolts in these options are stainless steel.

- K4, K10 have hex head bolts
- K4, K10T have tamper resistant pin-in-socket cap head bolts to reduce the risk of unauthorised removal





K4 Ground fixing

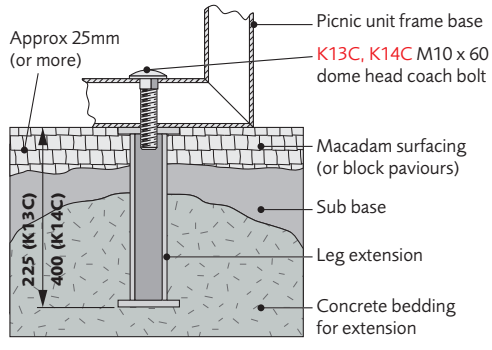




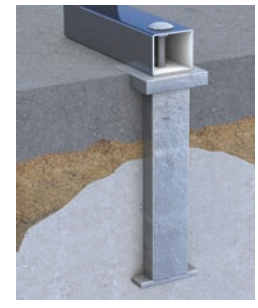
K10 Ground fixing

3. Galvanised ground fixing extensions (K13C or K14C)

These extensions have the advantage of offering a very strong and permanent installation, though they are more work than the other fixing kits. This means of fixing is suitable for grassed areas, small block paviours and macadam surfaces. The extensions are bolted to the underside of the picnic units, which are then positioned in four previously dug holes. The holes are then back filled with concrete and the ground surface made good around the units. The coach bolts in these options are stainless steel. The K13C options are 225mm long, and the K14C options are 400mm long.



- K13C and K14C have coach bolts (which are very tamper resistant, but the head needs to be removed with a grinder if ever the unit needs to be moved).



K13C Ground fixing extension