

Mindel House Manchester

Scaffold Tie detail and configuration

There will be 402 drilled scaffold ties installed to secure the scaffold structure to the building. This is the minimum number of ties required due to the loadings in part created by the temporary roof structure.

Initially 10 preliminary pull tests will be carried out on ties at ground level to ensure that the building can withstand the loads of the scaffold ties. (3.5 Kn) Preliminary pull tests will be carried out to 2 x the required tie load. These tests will be recorded and forwarded on to Manchester Design and Build. Depending on the result of the preliminary tests, the ties will be tied into the mortar Joints, or directly into the brickwork/stonework. Option 1 is preferred as they will be less intrusive to the building structure.

A 14mm hole will be drilled into the structure with an embedment depth of 120mm, this is to ensure that the nylon anchor is sufficiently embedded and that no visible trace of the anchor will be evident upon completion of works.

A 23mm hook tie will be inserted into the nylon plug and fastened to a structural transom attached to the external scaffold through both legs beneath ledgers. This butting tube is to have a protective plastic cap fitted to ensure that no damage is caused to the external brickwork.

Please see tie detail below.

Upon completion of the scaffold, and as the scaffold is dismantled tie holes are to be made good using restoration mortar, ensuring that the colour, texture, and finish are of are of matching existing quality.

