

STONELEIGH ABBEY



Stoneleigh Abbey This orangery had broken its back both on the short and long sides of the building, which measured some 22 metres by 9 metres, the settlement being caused primarily through inadequate rainwater disposal. The cost of rebuilding the defective parts of the structure would have been enormous. It was therefore decided to keep the deformation in the structure but to stabilise it. The engineer, Don Ascough of Hancock Wheeldon & Ascough, determined to use pre-tensioned Cintec anchors at foundation level and cornice level to hold the curtain walling together. One row of anchors were installed around three sides of the building at foundation level and two rows around all four sides at cornice level. The wall consisted of two skins of ashlar back to back with an irregular void running down the length of the wall. The anchors consisted of 16mm stainless deformed bar in a 76mm dia hole, the 22 metre long ones being in 2 No 11 metre lengths connected on site and pumped from both ends. Once in place the anchors had temporary end plates attached and were tensioned to 10kN prior to grouting. When cured the end plates were removed and the cores replaced and made good.

