

Industrial



Camgrain, Linton, Cambridge

Peter Dann were commissioned to initially inspect and report on a partially failed grain bin entablature and the design of remedial measures. Once this work was completed, we were asked to design and detail an additional entablature and associated foundations.

The initial entablature had shown signs of premature failure when it was initially loaded. We analysed the structure to provide details of remedial measures to ensure the bin could achieve its full capacity. A considerable amount of strengthening and welding was needed to achieve this. The steelwork affected by the remedial measures needed to be painted with a zinc rich paint system to provide corrosion protection.

The additional entablature was designed using a finite element analysis software package and detailed using a solid modelling package which ensured an economic and accurate solution. The steelwork for the new entablature was galvanized to create a low maintenance structure.