



CASE STUDY MATERIAL SAMPLING & REINSTATEMENT



Project: Chain Bridge, Kemeys Commander, Monmouthshire
Recovery of samples and measurements of hanger rods

Up and Under were commissioned to recover 8 test samples for testing from existing components of the structure which comprise each leg of 4 No. horizontal cross-bracing elements to the top chord of the main arches. Reinstatement was achieved using Tension Control Bolts (TCBs) in order to match the existing rivets as closely as possible. The (TCBs) were tightened to a suitable bedding torque using a shear wrench securing the new cross-braces into position.

Measurements of the residual cross section at the bottom of hanger rods. These were cleaned using hand tools prior to repainting.

Holes in the parapet plinth cover plates were temporarily sealed with clear Vallance Building Silicone, a professional grade, highly flexible sealant, which remains elastic with 50% movement capability; is waterproof with strong, primerless adhesion to metal, fast curing with low dirt pick-up and low modulus. This preventing water running down the exposed holes and causing corrosion problems.



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