

# CASE STUDY

**Project:** Precast Segment Tunnel,  
London,  
W11 4AN

**Date:** 2022

**Client:** Ed City

**Eng:** Mason Navarro Pledge

**MC:** Bowmer & Kirkland

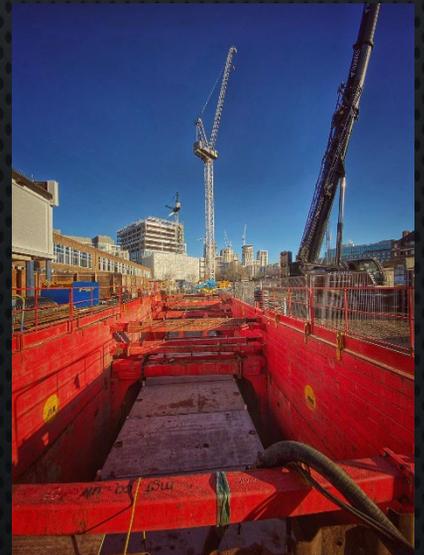


## Scope

Service tunnel to be constructed linking the energy centre to other buildings within the development. The construction strategy utilised precast tunnel sections with insitu-concrete elements cast where tunnel adjoins building basements and at changes of direction.

ASF Waterproofing Specialists developed the structural waterproofing design strategy with Newton Waterproofing Systems specialist products.

The boulevard over the tunnel is exposed to pedestrian and emergency vehicle access and the design allowed for movement between the joints from settlement and future loading.



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## Solution

ASF Waterproofing Specialists worked closely with Newton Waterproofing Systems to develop a design whereby the joint could be sealed integrally using a hydrophilic acrylic rubber component (type B to BS8102:2022) and internally using a bandage system (type A to BS8102:2022) with the characteristic properties of the system components enabling movement between the pre-cast units.

The technique and installation sequence for base, sides and roof were all slightly different and needed to allow for continuity of product along, around and through the whole joint.



## Products

ASF Waterproofing Specialists installed Newton 203RM and backing rods to facilitate the containment of Newton/Tradecc PC509 injection resin. Internally the Newton Monoflex FPO bandage was adhered using Newton Epoxy resin adhesive. As with all bonded systems, the preparation of substrate was a key element of the installation of all products.

