

4 Project Profile

Designer:
Hyder Consulting Engineers

Construction/Installation:
Transfield Obajashi Joint Venture

Stainless Steel Socket Anchors

Melbourne City Link Project

In December 1997, Powers Fasteners were awarded the contract to supply over 7000 High Performance stainless steel Socket Anchors to Transfield Obayashi Joint Venture.

The Anchors were used for the fastening of Pre Cast Concrete Smoke Exhaust Ducts to the underside of the tunnel roof, these ducts weighing 5 tons each.

Part of the design specification called for the M20 anchors to withstand a working load of 36kN for a non-standard 2 hours at 700°C fire rating. Local testing was carried out successfully by Warrington Fire Research and witnessed by both TOJV and Hyder Consulting Engineers.

The tender package also called for the complete fastening system to be installed quickly and safely. Seven, Australian made, purpose designed overhead drilling rigs, were made to fit this criteria.

Installed on the first smoke duct gantry, the complete drilling and anchoring system was commissioned in the first week of March 1998.

Powers Fasteners are very proud to have delivered the drilling and anchoring package on time and to the required specification outlined in the tender.

The following series of pictures highlight some of the installation process of smoke exhaust ducts.



Powers Fasteners offers extensive literature on product details, design and technical data.

Please visit our web site at www.powers.com.au to request your copy.

