

BLAST WALL INSTALLATION

Oil Fuel Terminal

SECTOR:

Industrial (Petroleum Refinery)

PROJECT COMPLETION:

March 2023

ADDRESS:

Banksmeadow, Sydney

VALUE:

\$74,800

PROJECT OVERVIEW:

As a leading blast wall solutions provider, Bowers was engaged to engineer, and install a temporary blast wall to protect an existing Electrical transformer during the construction of a neighbouring Substation. Electrical transformers are susceptible to overheating resulting in transformer failure and a temporary blast wall protection solution meeting a Blast Rating of 0.5 Bar was critical.

SERVICES OFFERED:

Bowers created a blast wall spanning 10.2metres long x 2.7metres high and incorporating 11 insulated Durasteel® partitions adhered to a steel frame. Durasteel® is noncombustible and extremely effective against blasts and explosions due to its energy absorption, impact and heat resistant qualities.

PROJECT CHALLENGES:

The Bowers team worked within a very tight timeframe which included a 5-person team to install the blast wall in just 1 week. Strict procedures and rules to prevent dangerous discharge of static electricity had to be adhered too. All hot works including welding were performed offsite.

SOLUTIONS OFFERED:

The level of pre-planning and extensive communication and coordination was critical to overall project success. Bowers worked closely with a local steel fabricator to prefabricate 9 partitions of framing. This enabled finished frames to be safely positioned in place with a 6-tonne crane. This prefabricated construction approach significantly reduced the onsite installation.

OVERALL OUTCOME:

In business, they say referrals are the highest form of professional compliment, with the new client being referred to Bowers by the Durasteel® manufacturers. Bowers have over 12 years' experience, engineering, and installing blast walls. The new client was incredibly impressed by the quality of finish of the blast wall and the professionalism shown by the entire Bowers team.





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