

SIGA

STRUCTURAL ENGINEERING

Siga News

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How to attach a chimney to the ground - safely



The intended chimney on the ground

Project:

Industrial - Sydney West

Key Objectives

- Erecting a 40m chimney and ensuring that there are stable footings for support (particularly under wind loads).
- The design for these loads, and the existing site foundations, were critical.
- Ensuring footings were installed in accordance with the design to resist the loads properly.

Challenges

- Understanding the site foundation conditions. Whilst 3 piers drilled on site were fine, the 4th one didn't go so easily.
- Issuing proper instructions such that the specifications on the drawing would be complied with, despite the unplanned headaches.



A similar chimney can be seen on the right of this picture



Pouring of the piers to the footing

Siga Solutions

- Providing documentation for the footing design.
- The footing design had to resist overturning due to the height of the chimney.
- Ensuring that proper geotechnical substantiation of the foundation was obtained as the loads on the piers will be high and very dependent on the strata that was struck.

Chloe's Joke:

Q - What animals can jump higher than the Sydney Harbour Bridge?

A – All animals – the bridge can't jump!

Chloe Simone – 8 years old – hopes you enjoy this joke.

Need help on an upcoming project? - then please call me today.

Frank Simone