

**The Project in Brief:**

- \$7.5M Sports Centre
- 200 piles approx
- SWL up to 900KN for piles
- Perimeter Piles Raked

**Screw Piling Case Study**

2005

**Steel Screw Piling for New Sports Building**



On the grounds of the Trinity College School, a new sports centre is being built. Russell Heale Screw Piling won the contract to manufacture and install the piles and work began on site in May 2005.



The site is just across the road from St Carthage's Catholic Cathedral.

**On site with Russell Heale Screwpiling and Spantech.**

The new sports hall is a 7.5 million dollar project, and will be a major addition to the school, which has about 1,400 students.



Two excavators were used, one to stand the pile up and one to drive the pile into the ground. This was to speed up progress.

**Lifting the pile into position with the small excavator.**

As this was such a large job with large piles, test piles were used prior to manufacture to determine the depth of this

founding layer. Most jobs however, this is estimated using the geotechnical report.

**Installing the pile with the larger excavator.**

Extensions were welded on and then driven in, until the founding layer was reached.



**Welding Extensions**

We're on the web!  
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As specified by the design engineer, the perimeter of the building was founded using raked piles, driven in at a 1:5 angle.

With the Base hospital in the background, the near half will be the pool, the far half the sports hall. The concrete pillars shown will support a steel roof curving across the building. Under each concrete pillar are two raked piles.



The piles were filled with concrete.

The pile caps have to line up and be the same height to within a very tight tolerance. Getting the positioning right takes a little time, before welding the square plate pile cap on.



Easy attachment to  
steel, timber or  
concrete structures

### Benefits of Steel Screw Piling - Saves you time and money

- ① Eliminates building settlement and costly repairs
- ① Speedy installation
- ① Unlimited pile lengths
- ① No mess or waste – minimal disturbance
- ① Continuous pile achieved every time- stops problems associated with soft or wet collapsing soils
- ① Vibration free
- ① Segmented piles possible for sites with limited head height
- ① Simple attachment to timber, concrete or steel structures

Steel Screw Piles can offer significant advantages over concrete or timber piles. If your job specifies concrete or timber piles, we can quote the steel screw pile equivalent..

For more information or a price at very competitive rates, send your plans with the geotechnical report for an obligation free quote.

We can service from Cairns down to Melbourne from our base in South East Queensland, providing you with quality screw piles for your project.