

# Stressfloor Post Tensioning System

## The Olympics in Dargaville? Maybe not but they have a new olympic-sized swimming pool!

The Kaipara and Dargaville District Council's new Olympic-sized swimming pool opened on 20th December 2009. This project is the result of a huge effort by the Councils, Contractors and residents of the area. The fund raising enthusiasm has been enormous and the end result has exceeded community expectations.

### COST-EFFECTIVE NO HASSLE INSTALLATION

Cost and a great swimming pool were the two criteria for this project and were the reasons why a Reid™ StressFloor™ unbonded post-tensioning system was chosen for the pool floor. The 50 metre long floor was always going to be a significant component to the project's cost. The Reid system was selected because it reduced the required slab thickness and could minimize construction joints and shrinkage cracks that often cause leaks in pools.

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A very economical system creating huge savings  
in concrete and jointing compounds

Peter Geddes, Engineers, Hawthorn Geddes

Reid's approved installer, Grouting Services Ltd, were able to provide valuable input at the planning stage which resulted in the floor being poured in two sections that matched the floor gradient. Peter Geddes from Engineers, Hawthorn Geddes, was very enthusiastic. "We are very pleased with the significant savings to Contractor and the Council."

Bill Sharplin from Barfoote Construction was also a fan. "Great system and great back-up from the Reid team. Easy to fast-track and push along. Extremely economical and very viable."

Dave Sharp from Grouting Services said that "the whole team was amazing to work with; all having a 'best for project' attitude. The greased and sheathed strand was easy to set up."

This was the first time Reid's unbonded stressing system has been used in New Zealand in a project of this type and it produced a great result.



The finished result! A 50m length swimming pool that the whole community can be proud of.



Layout of the strand at 800mm centres supported by concrete slab bar chairs, with a layer of polythene covering the underneath grade.

<b>Engineer Specifier:</b>	Hawthorn Geddes
<b>Contractor:</b>	Barfoote Construction
<b>Sub Contractor:</b>	Grouting Services Ltd