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Larssen L755

PROJECT SUMMARY

Project Sugarloaf Pipeline
Client Sugarloaf Pipeline Alliance*
Contractor Wagstaff & Vibropile
Location Yea, Victoria

* The Alliance is a joint venture between John Holland and Melbourne Water. The design team comprised of GHD and SKM.

Larssen L755 Steel Sheet Piles.

U shaped sheet pile sections are well proven in both permanent and temporary works throughout the world.

SPECIFICATIONS AT A GLANCE

Section Modulus	2000 cm ³ /m wall 580 cm ³ /single pile
Weight	127.5 kg/m ² wall 95.6 kg/m single pile
Second moment of inertia	45000 ly
Back thickness	11.7 mm
Web thickness	10.0 mm
Wall height	450 mm
Section width	750 mm



ThyssenKrupp Steelcom has supplied 828m² of the Larssen L755 sheet pile in 2000 cm³/m section modulus to Sugarloaf Pipeline Alliance for their Sugarloaf Pipeline project in Yea, Victoria.

The Sugarloaf Pipeline project involves constructing a 70 km pipeline, a major drought proofing measure linking the Goulburn River near Yea to the Sugarloaf Reservoir in Melbourne's north-east. The project worth \$625m to which John Holland had a share of \$430m will be an important new addition to this grid and will transfer 75 billion litres of water to Melbourne's water supply system.

For this project ThyssenKrupp Steelcom supplied 69 sheets of the L755 in 16m of 828 m². Sheet pile was used for a circular sheet pile wall or cofferdam with a diameter of 16.4 meters. The deviation angle of each pile was approx 5.2 degree. The cofferdam is situated at the point where the pipeline meets the Goulburn River.

At 750 mm in width the Larssen L755 advantages include fewer interlocks per running metre of wall providing superior water-tightness. For contractors

the Larssen L 755 sheets proved to be very efficient offering faster installation per LM, while offering a convenient handling size on site. The contractors were happily installing 12 steel sheet piles per day.

The entire Sugarloaf Pipeline project commenced pipeline construction in September 2008 and is due to be completed Feb 2010. The cofferdam, however to which we supplied the steel sheet pile was made complete within 2 weeks.

ThyssenKrupp Steelcom offers total piling solutions including hire and sell of steel sheet piles, impact and vibratory piling hammers ranging from excavator mounted to large crane suspended units, as well as, foundation equipment and trench shoring.

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