

**RE: CONCRETE PIPELINE THICKNESS TESTING - ESSER**  
**TWIN WALL PIPES – Jun Jin 33#6 1DJF 106**

To Whom it May Concern:

Rowland Contractors currently use a specific concrete pipeline on all machinery. The Pipeline is manufactured from a specialized high density, high pressure twin wall material known as Esser-Werke Twinpipe.

This type of pipeline construction has two layers of pipe within its pipeline giving the product as extensive lifetime expectancy of 100,000 cubic metres capacity. There is a letter attached from the manufacturer explaining in detail the properties of the product and the testing recommendations associated. For reference, Rowland Contractors use the product Esser Twincast 900 on all machinery.

As per manufacturer literature, ultra sonic testing can not be performed for the first 50% of the pipeline lifetime as the test will not penetrate both layers of materials to give an accurate reading. As a result Rowland Contractors keep an accurate record of all concrete cubic metres that pass through the pipeline of every machine. Along with an accurate record, Rowland Contractors rotate each pipeline clockwise at 90 Degree intervals between each 15,000m<sup>3</sup> - 20,000m<sup>3</sup> during the life of the pipeline to visually inspect each pipe and ensure the wearing of the pipeline is even around the entire circumference of each pipeline. Once a total of 75,000m<sup>3</sup> has passed through the pipeline, Rowland Contractors discard the pipeline deeming it complete of its life expectancy and replace it with a complete new one.

The **Jun Jin 33#6 1DJF 106** has had a total **952 cubic metres** passed through it as of 8th February 2023 . If you have any queries regarding any of the above information or would like to discuss anything inparticular, please do not hesitate to call.

Yours Sincerely



Joe Benfatta

Rowland Contractors

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