

# XROSSWATER

Industrial Marine floating walkways

**500m on Heavy metal mine Kwazulu Natal South Africa**

**Shipped Semi Assembled in 5 containers**

This project was located a significant distance from mine site and thus required a fast and efficient solution and included FRP Penstock frames to protect the penstock intake shaft. Xrosswater provide the best turnkey solutions, offering value for money and hands-on service. The company has always embraced challenging and custom projects which all require a product that is designed purposefully for the industrial marine market.





# XROSSWATER

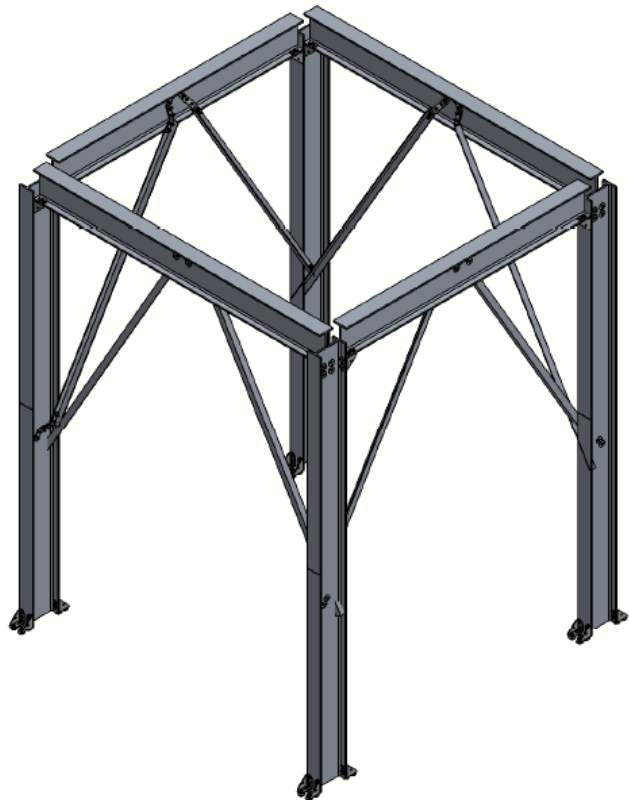
Industrial Marine floating walkways



Helical anchor inserted in 2 minutes.



FRP Penstock tower





# XROSSWATER

## Industrial Marine floating walkways

Helical angle pull = zero



### XROSSWATER WALKWAY

#### DESIGN ASSESSMENT – HEAVY METAL MINE, KZN, RSA

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##### INTRODUCTION

This report has been prepared at the request of Mr. Malcolm Harrison of Xrosswater Ltd., in response to a requirement from a client for a strength and stability assessment of the Xrosswater walkway system to be carried out by a qualified naval architect and registered professional engineer.

It has been proposed to install a 480 m long Xrosswater walkway, consisting of approximately 123 standard double-float walkway units, 41 single-float cross members, and 80 gratings. The walkways are based on Xrosswater's proprietary and patented design, the key elements of which are described in detail in the Xrosswater Assembly & Installation Instructions. An illustration of the walkway can be found in Fig. 1.

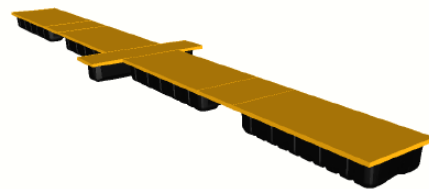


Fig 1 – The Xrosswater Walkway

In this assessment, the following items were evaluated:

- Weights and centers.
- Strength, including longitudinal strength, transverse strength, and a review of previous FEA calculations.
- Anchor loads.
- Handrail check.
- Stability.