

RETRACTABLE FLOOD BARRIERS

While many communities are looking to establish flood levees, one council is looking for ways to eradicate them. Clarence Valley Council in Northern NSW is investigating ways to provide scenic river access while maintaining the town's essential flood protection.

The council has been working with AWMA on the inclusion of Retractable Flood Barriers in the town's flood mitigation strategy. The flood barriers essentially 'hide' behind sections of the existing levee, to be easily activated for flood protection when required.

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GENERALLY SPEAKING

Best wishes to everyone for a safe, healthy and prosperous 2017.

It should be an interesting year, with significant change occurring globally.

The world is continually evolving, with changes required to enhance viability and improve outcomes.

In business we also evolve, 2017 will see a number of positive changes for AWMA as we modify and add value to the way we service and support the water industry.

We anticipate an exciting year ahead, with innovation and change delivering improved options and benefits for our clients.

From all at AWMA, we wish you success with your projects in 2017 and look forward to partnering you.



Brett Kelly
Managing Director

RETRACTABLE FLOOD BARRIERS

Located in public areas the flood barriers were required to be aesthetically pleasing, vandal resistant, easy to operate and provide valuable flood protection for the township.

The largest of the gates installed is 6700W x 1350H, manufactured from marine grade aluminium with a stainless steel frame.

Due to the high-profile location of the flood barriers all materials were well protected during the procurement, manufacture, transport and install phases to ensure the flood barriers were presented on-site in excellent condition.

AWMA provides a wide range of operation and management solutions for gate products.

The Clarence Valley Flood Barrier will be manually operated by two people (although a single operator would suffice if required).

Bespoke engineering capabilities allow AWMA to work with project partners to provide many additional benefits, including barriers that can provide extensive flood protection with a minimal environmental footprint.

AWMA offer full engineering, design, manufacture and installation of Retractable Flood Barriers, also known as Sliding Flood Barriers. Benefits of AWMA's Retractable Flood Barriers include:

- Each product is custom built to meet site specific requirements
- No excavation is required for installation
- No restrictions on wall height or width
- Barriers occupy little space and can be 'hidden' amongst existing infrastructure
- Are easily operated by a single operator or can be locally and/or remotely automated
- Can be finished in a material and design to interface with the existing building so the structure is unobtrusive and inconspicuous.

PENSTOCKS FOR WWTP BYPASS

AWMA were engaged by Koppens Developments to supply a stainless steel top sealing penstock (TLF Penstock) to manage the Innisfail WWTP Bypass.

The penstock will provide isolation for a 450mm diameter aperture to a maximum 2m on-seating head pressure.

A non-rising spindle and manual hand wheel allow for safe operation above the wet weather outfall channel.

During the post project interview "brilliant" was the word Kevin Limpus used to describe AWMA's products and the service he received.

The care taken to pack and deliver all goods onto site, in excellent condition, was also commended.

AWMA supply and deliver water control equipment across the globe. Transportation is a key design consideration in the early contractor involvement stage. Equipment may be flat packed or constructed to fit securely in shipping containers and designed to be easily reassembled on site. Complete installation, operation and maintenance manuals are provided with all AWMA products.

Pictured below is an example of a modular gate assembly ready for international shipment.



FLOOD GATES PROTECT ISLAND COMMUNITIES

Saibai Island is located in the Torres Strait, north of Australia's state of Queensland. It is regularly hit by king tides that flood local communities.

AWMA were engaged by Koppens Developments to supply tidal control gates. The TLF topsealing penstocks were manufactured from marine grade aluminium, with non-rising spindles and manual hand wheels.

Koppens' Project Manager and Senior Engineer was impressed with AWMA's products and services and looks to utilise them across multiple sites.



Pictured above: WATER SPORTS: Raima Wosomo, 6, paddles, through the streets of Saibai which has been flooded by king tides. (The Courier Mail with Picture by Jamie Hanson)

Below: Water laps at the walls of a building during a king tide on Saibai Island. (ABC News)



MULTI-FUNCTION GATE EXPORTS

Two AWMA Combination Gates (double leaf gates) were recently exported to Indonesia to assist a Pulp and Paper Mill with their water management solutions.

Benefits of dual leaf gates include versatility of gate operation with the ability to:

- Lower the top gate leaf to control flow through the culvert (overshot regulation)
- Once the top gate leaf is fully lowered, the two gate leaves can be joined and raised (combination of overshot and undershot regulation)
- Both gates may be raised clear of the water (unimpeded flow)
- Both gate leaves are lowered to restrict and regulate flow



Pictured is a dual leaf water control gate in numerous positions; closed, open for flow regulation and raised completely to allow unrestricted flow. Further information can be found under 'Combination Gates' on the AWMA website.

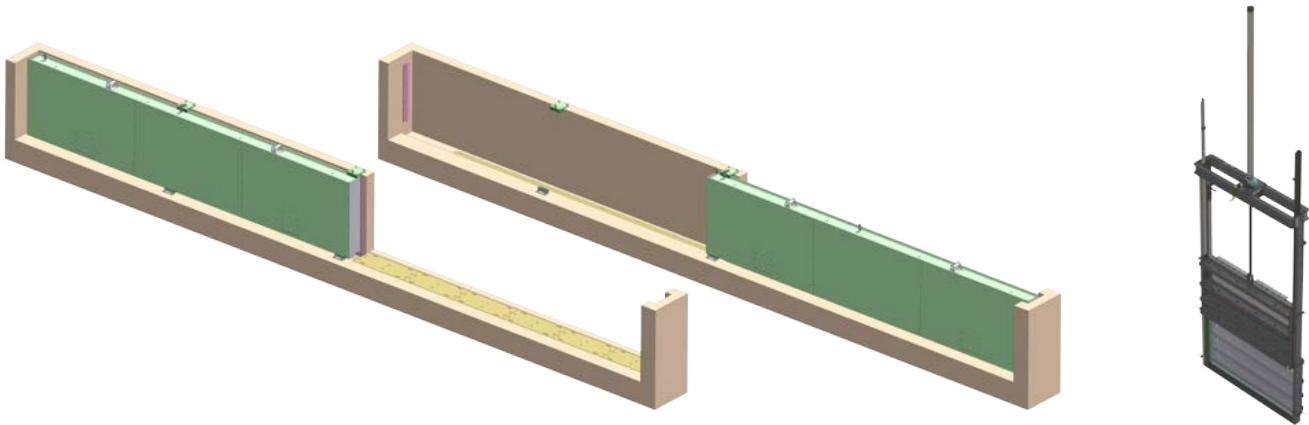
The gates were manufactured from marine grade aluminium with stainless steel rising spindles, bevel gearboxes and manual handwheels. The gates were 3m x 3m in size, retrofitted to existing structures by AWMA's installation team.

AWMA offer a wide range of multi-leaf water control gates for numerous applications. The benefits of AWMA's multi-leaf gates is the versatility in operating the gates, allowing for both undershot and overshot regulation as well as completely removing the gates for an unrestricted water way in peak flow conditions.



RECENT PROJECT GALLERY

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