

30M² OF SCREENING SURFACE

AWMA were engaged by Monadelphous Engineering to supply an Intake Screen within the Waitaki Valley, for Kurow Duntroon Irrigation Company (KDIC) in New Zealand.

The Self-Cleaning Cylindrical Intake Screen was supplied with a Retrieval System and Isolation Gate.

With an overall width of 7m and weighing over three tonnes, the AWMA T-Screen has nearly 30 square meters of effective screen surface area.

An innovative self-cleaning mechanism rotates the two external cylinders, using internal and external brushes to ensure the wedge wire screen surface remains clear of debris, algae and weed.

AWMA's Intake Screens are designed for even, low velocity flow distribution across the entire screen surface which is crucial to meeting fish exclusion criteria (per 'Fish Screening: good practice guidelines for Canterbury').

At KDIC, raw water is screened through a 3mm aperture wedge wire medium with an approach velocity less than 0.12m/s (for fish protection) and is then piped into the irrigation scheme.

The Retrieval System is 13.2m high with an integrated track system, isolation gate and headstock that houses an electric gearbox and drive motor. The Retrieval System provides an effective method of raising the intake screens should inspection or maintenance be required. Raising the screens to the surface greatly reduces the risks and costs associated with maintenance, when compared to traditional methods using divers.

Integrated within the retrieval frame is a vertical, manually operated isolation gate with a non-rising spindle, manufactured from grade 316 stainless steel. The purpose of the gate is to eliminate debris entering the pipeline when the screen is raised.

Photo courtesy of Jourdan Cambridge

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GENERALLY SPEAKING

It has been a horrific start to 2020, worldwide.

Extreme drought conditions, followed by severe fires, then came the flooding, with ash and debris contaminating water resources and now COVID-19!

COVID-19 has, and will continue to affect everyone across the globe, for many months.

As an Australian manufacturing company with approximately 50 staff AWMA are committed to serving our clients, assisting the industry, supporting our partners and keeping our staff safe during this time.

AWMA are adhering to all government and health recommendations and have taken many necessary precautions.

Thank you to our suppliers and the transport industry for maintaining a dedicated service. Unexpected circumstances may arise but should any delays occur, we trust that with our dedication and resourcefulness we will manage the projects across the line. Thank you all for your support and patience should this occur.

We wish you and your families' good health and trust we will all be on the road to recovery sooner rather than later.

Wherever you are in the world and across the country, and whatever you are going through, we are here to help where we can. AWMA have a partnership approach to all projects, working with clients to achieve the required outcomes. We offer experience, innovative solutions and comprehensive services to maintain efficient water management. We look forward to being of service, even in testing times.



Brett Kelly
Managing Director

FLOOD FREE DOORWAYS

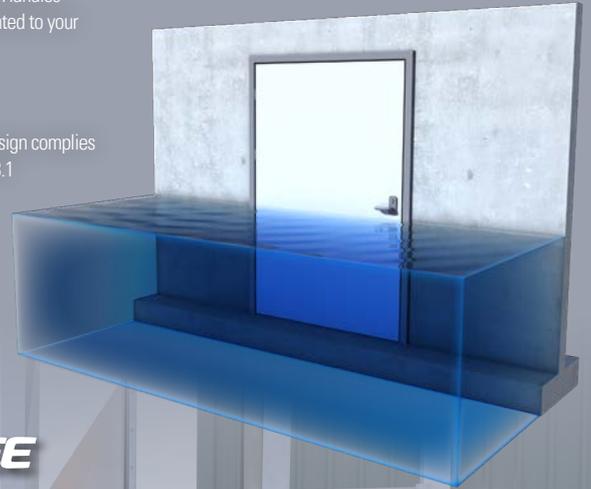
AWMA's range of FloodFree Barriers have been extended to include Personal Access Flood Doors (PAFD's); flood protection for any standard, outward, opening doorway.

Design options for the PAFD's include:

- A range of Mortice Locks and Handles
- Doors supplied pre-hung; painted to your choice of colour
- Custom sizes
- Window option

The PAFD is unique in that the design complies with Australian Standard AS1428.1 (Design Access and Mobility Standards) with all FloodFree products with manufactured in Australia.

Most of all, the FloodFree Door looks, feels and operates like a standard door!



FLOOD FREE



DID YOU KNOW?

AWMA's in-house design team offer support as part of a project's Early Contractor Involvement (ECI).

Formal engagement within the ECI process allows AWMA to equip project partners with all the information necessary to make informed decisions regarding installation, operation, maintenance and whole of life costs of proposed water control assets.

PASSIVE & POWERED FLOOD BARRIERS

Flood Barriers are proving a valuable addition to existing properties and becoming a standard inclusion for many new developments.

AWMA's range of FloodFree Barriers are currently being installed not just in flood prone areas, but at any entrance point prone to water inundation, from any source.

Installations to date include residential homes, apartment blocks, shopping complexes, commercial buildings and parking lots.

PASSIVE Tilting Barriers are 'buoyant', activated by flood waters they automatically deploy. The hinged barriers 'float' to protect an asset from flooding. Passive barriers operate autonomously without intervention, providing peace of mind that flood barriers will rise and lower when needed without manual assistance.

FloodFree also offer POWERED Tilting Flood Barriers which may be automated or manual systems. Powered options allow the property owner to choose to deploy their barrier whenever they like - PRE or POST inundation.

Pre-inundation deployment allows the asset owner to deploy the barriers well in advance of flood waters.

Post-inundation deployment allows asset owners to choose to absorb some of the flood waters, capturing it within a retention area (e.g., basement carpark), to a predetermined height before deploying the flood barriers. The captured water can then be stored or directed into the storm water system once the threat has subsided. This is a proactive option that minimises the damage to the surrounding environment.

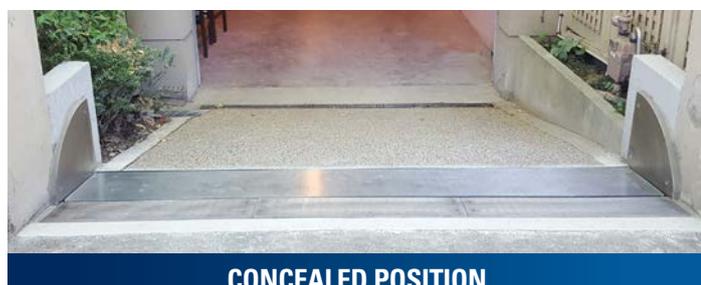
Contact our FloodFree team for a flood protection solution specifically tailored to your property and operational requirements.



DESCENDING DRIVEWAY



DEPLOYED POSITION



CONCEALED POSITION

WATER CONTROL SYSTEMS FOR SYDNEY

Sydney Water is investing \$450 million to support an additional third of a million people in Sydney's North West by 2040 – that's the equivalent to the population of Newcastle, NSW's seventh largest city.

This investment will see upgrades at three Sydney Water treatment facilities in Riverstone, St Marys and Quakers Hill, including the adoption of new technologies resulting in more sustainable, cost efficient and effective water treatment processes.

AWMA have been engaged directly by Sydney Water for the detailed design, supply, manufacture, testing and delivery of new water control gates at the three facilities; St Marys, Quakers Hill and Riverstone.

Design considerations included:

- Detailed on-seating and off-seating load combinations for each gate and stop board.
- A flat sill and rebated side frames were applied to the gates and stop boards to ensure the walls and floor of the frames were flush with the concrete structure, to avoid build-up of solids.
- Products were fabricated from corrosion resistant materials.

AWMA's in-house capabilities include Factory Acceptance Testing (FAT) with invitation for third party observation.

All control gates were required to operate efficiently under full flow conditions. They were fabricated from stainless steel materials, in accordance with the specification. The stop boards (bulkheads gates) were manufactured from marine grade aluminium, compliant with internationally recognised standards.

To date, AWMA have supplied 170 water control gates plus storage racks, odour covers and actuation systems.

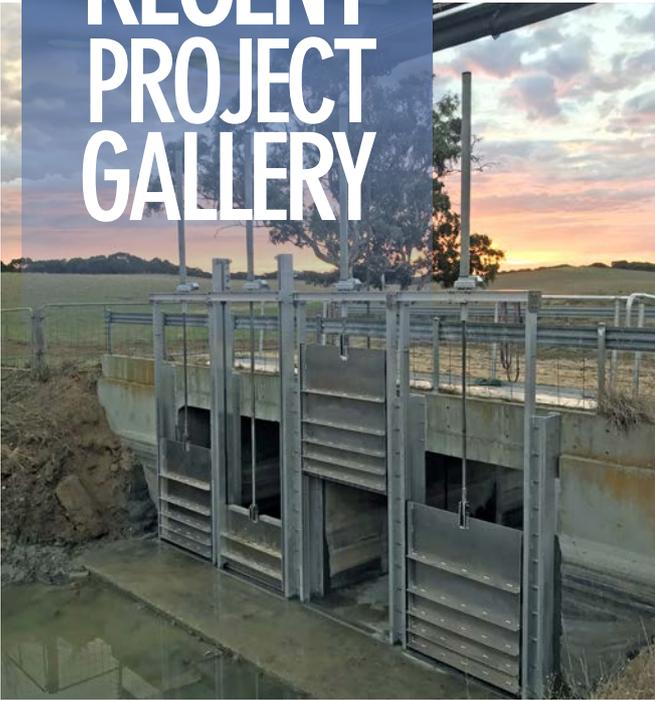
This is a staged program, with works continuing. View our project page for updates.



Photos courtesy of Golder O'Connor Pty Ltd

RECENT PROJECT GALLERY

INNOVATIVE - CUSTOMISED - SUSTAINABLE



FLOOD | ENVIRONMENTAL | IRRIGATION | WATER TREATMENT | DAMS | ENERGY & RESOURCES



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