



## SELF-REGULATING TIDAL GATE

AWMA's Self-Regulating Tidal Gate operates via floatation to autonomously manage storm, flood and/or tidal water intrusion.

### FEATURES

- Typically used to prevent upstream saline intrusion in storm water retention basins.
- Self-regulating, according to a pre-determined head differential.
- A 25 year design life in demanding conditions.
- The gate is centrally hinged and operates via floatation for automatic positioning, enabling optimal stormwater retention or flow requirements.
- Instantaneous response time.
- Guaranteed failsafe opening.
- Functions autonomously without operator intervention.

### APPLICATIONS

Residential, commercial, environmental protection barrier, eliminating salt water and flood water intrusion, as well as enhancing storm water harvesting opportunities:

- Wetland entry/exit points
- Storm Water Harvesting
- Tidal Water Intrusion zones
- Flood water diversions



# awma

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### DESIGN

#### DESIGN SUPPORT

- AWMA's design team will provide full support to ensure the most appropriate solution is developed and specified during the preliminary design.

#### SIZES

- All AWMA Flood Free Systems are custom sized to ensure they meet specific site requirements.

#### MATERIALS

- AWMA select materials to meet a minimum design life of 25 years. Where required, AWMA can offer higher grade materials, coatings and protection systems to extend the design life to 100+ years.
- Materials used for barriers and frames include marine grade aluminium and grades 304, 316, 2205 and 2507 stainless steel.
- AWMA use ultra high molecular weight polyethylene (UHMWPE) for barrier guides to provide maintenance free bearing surfaces.
- Plasticised PVC or EPDM are used for the manufacture of seals.
- Materials used in the construction of the Flood Barrier range have a high corrosion resistance and can be operated for many years with minimal maintenance.

#### SEALING

- The seal performance of AWMA Flood Gates exceeds that required by the 'Australian Technical Specification for Fabricated Water Control Infrastructure'.

#### MAINTENANCE

- The AWMA Flood Gate range has a minimum 25 year design life.
- Minimal maintenance is required ensuring low 'whole of life costs'.

### MANUFACTURE

#### QUALITY

- All fabrication is in accordance with the 'Australian Technical Specification for Fabricated Water Control Infrastructure'.
- All procedures are in accordance with AWMA's accredited ISO 9001 Quality Management System to ensure each gate is manufactured to a high standard, tested and ready for trouble free operation post approved installation.

### INSTALLATION

#### MOUNTING OPTIONS

- Tidal Gates are designed to retrofit existing infrastructure or 'green field sites'.
- AWMA offer install supervision for all turn-key installations.

#### ACTUATION SYSTEMS

- Not applicable. The AWMA Self-regulating Tidal Gate is designed to operate automatically.

#### OPERATION SYSTEMS

- Not required. The AWMA Self-regulating Tidal Gate is designed to operate autonomously, without operator intervention, for instantaneous protection.

### COMMISSIONING

#### DOCUMENTATION AND TRAINING

- Detailed documentation on operation, testing procedures and maintenance will be provided with all AWMA flood defence systems.
- Comprehensive on and/or off site training available.