

## ROUND BOTTOM BULKHEADS

AWMA's Round Bottom Bulkheads are custom engineered for isolating benched profiles, incorporating integral equalisation valves, specialising in high head applications.

### FEATURES

- AWMA design options include equalisation valves and roller guides to allow Bulkhead Gates to be operated under flow conditions.
- Top seals are available for submerged apertures.
- Designed to withstand up to 30m head pressure.
- Uni-directional sealing as standard with bi-directional models available on request.
- Customised to withstand high head pressures.
- Variety of lifting mechanisms optional.
- Storage solutions available.

### APPLICATIONS

- The Bulkhead Gate range is utilised for applications across all industry sectors.
- Isolation of open channel flow for maintenance purposes.
- Emergency isolation points.



# 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 water control gates are custom sized to ensure they meet specific site and operational requirements.
- Customisation reduces installation costs.

#### 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.
- AWMA use ultra high molecular weight polyethylene (UHMWPE) for penstock door guides and/or wedges to provide maintenance free bearing surfaces.
- Plasticised PVC or EPDM are used for the manufacture of seals. These materials offer superior endurance in wastewater and freshwater applications.
- Materials used for penstock door and frames include marine grade aluminium and grades 304, 316, 2205 and 2507 stainless steel.
- Alternative material options are available to suit the application and/or environment specific requirements.
- Materials used in the construction of the Bulkhead range have a high corrosion resistance and can be operated for many years with minimal maintenance.

#### SEALING

- The sealing ability of this gate exceeds that required by the 'Australian Technical Specification for Fabricated Water Control Infrastructure'.

#### MAINTENANCE

- The Bulkhead range has a minimum 25 year design life.
- Minimal maintenance is required offering low 'whole of life costs'.
- If required, all the wearing components can be changed, with ease, on site.

### MANUFACTURE

#### QUALITY

- All fabrication is in accordance with the 'Australian Technical Specification for Fabricated Water Control Infrastructure'.
- All stainless steel welding is continuous to avoid crevice corrosion.
- 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

- The Bulkhead frames are designed for wall, channel or embedded side frame mounting.
- The sill is available in a raised or flat sill configuration.

#### ACTUATION SYSTEMS

- Mechanical lifting devices available.

#### OPERATION SYSTEMS

- Variety of lifting mechanisms available, including AWMA's self-engaging lifting frame.

### COMMISSIONING

#### DOCUMENTATION AND TRAINING

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