

awma

FLOOD/FREE

CONCEALED FLOOD BARRIER

AWMA's Concealed Flood Barrier is a self-actuating flood defence system that harnesses rising waters to automatically deploy a flood barrier via floatation.

FEATURES

- The gate is permanently installed below ground level at the isolation point, ready for deployment when required.
- Rising water levels cause an automatic response, elevating the isolation barrier via floatation.
- Gate system retracts below pavement as water levels decrease.
- Suitable for large openings up to 30m wide and 1.6m high.
- Low maintenance design.
- Low aesthetic impact.

APPLICATIONS

- Basement and carpark access points
- Pedestrian access and pathways
- Flood levees
- Residential and commercial property protection



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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

- Customisable to suit specific site requirements up to 30m wide, 1.6m high.

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 barrier and frames include marine grade aluminium and grades 304, 316, 2205 and 2507 stainless steel.
- AWMA use ultra high molecular weight polyethylene (UHMWPE) for 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

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

ACTUATION SYSTEMS

- AWMA offer numerous options for operation including manual, mechanical, automated, hydraulic, pneumatic, powered or electrically actuated systems.

OPERATION SYSTEMS

- The AWMA Concealed Flood Barrier is designed to automatically close ahead of rising flood waters.
- No operator intervention is required.
- Variety of audio and visual warning systems available.

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.