

Bespoke to Any Size

Space-Saving Slide Action

Hydraulic-Assisted Lift

ISO 12944 C4/C5 Paint

50-Year Design Life

## PRODUCT SPECIFICATION

# Sliding Flood Gate

Bespoke Steel Flood Protection — Single-Leaf Sliding · Manual or Automated · Model MME-SLG01



## Key Features

- **Space-Saving Slide Action**  
 Slides horizontally between the flood walls where there is no room to swing a gate — ideal for tight or constrained access points.
- **Concealed When Open**  
 Stored open between the defence walls, minimising visual impact — well suited to heritage and conservation areas.
- **Manual or Automated**  
 Manually operated up to 6m wide and 1m high; larger spans configured for automated operation.
- **Hydraulic-Assisted Lift**  
 Twin 130-bar hand pumps (one duty, one backup) extend double-acting cylinders to raise the leaf onto its castors.
- **Twin-Winch Operation**  
 Separate opening and closing winches drive the leaf along its threshold rail and pull it firmly against the stop post.
- **Structural Steel Matrix**  
 Twin mild steel skins fully welded over a 100mm SHS S355 box-section matrix for strength and water-tightness.
- **EPDM Compression Seals**  
 Vertical jamb and base seals with 6mm 304 stainless sealing blades, compressing onto a stainless steel threshold.
- **Marine-Grade Coating**  
 Blast cleaned to SA 2.5 and finished to an ISO 12944 C4 or C5 paint system; 50-year gate design life.

**CONSTRUCTION**

 100mm SHS  
 S355 Matrix

**MATERIALS**

 Mild / Stainless  
 to 316L

**SEAL**

 EPDM  
 + 304 SS Blade

**PAINT**

 ISO 12944  
 C4 / C5

**OPERATION**

 Hydraulic Lift  
 + Twin Winch

**DESIGN**

 Eurocodes  
 50-yr Life

**MM Engineering**

Unit 4B Sirius Drive, Baglan Energy Park, Port Talbot SA12 7BR

# Technical Specification

The MM Engineering Sliding Flood Gate (MME-SLG01) is a bespoke single-leaf gate that slides horizontally where there is no room to swing a gate, concealing between the adjoining flood walls when open. Like all MME flood gates it is designed in-house and verified by chartered engineers to Eurocode standards, finished in a marine-grade paint system and leak tested before handover. The details below are typical — exact construction varies with each gate's size and design loadings.

ITEM	SPECIFICATION (TYPICAL)
<b>Gate type</b>	Single-leaf horizontally sliding flood gate (MME-SLG01); manual or automated
<b>Materials</b>	Mild steel or stainless steel up to grade 316L
<b>Leaf matrix</b>	Twin welded skins over 100x10 & 100x8 SHS, EN 10219 grade S355
<b>Posts</b>	150x150x8 SHS support posts (S355); 80x80 / 60x40 mounting & 90x90 winch posts (S235)
<b>Lift &amp; hydraulics</b>	Leaf raised onto castors by double-acting cylinders; twin 130-bar hand pumps (duty + backup), 316 stainless
<b>Drive</b>	Separate opening & closing winches (Yale HW-CS80)
<b>Seals</b>	EPDM compression (vertical jamb & base), 6mm 304 stainless blades; min 3mm onto stainless threshold; joints sealed with Puraflex 40
<b>Design life</b>	Gate 50 years; seals 25 years (EPDM)
<b>Paint system</b>	ISO 12944 C4 or C5; blast cleaned to SA 2.5
<b>Colour</b>	Bespoke RAL / BS to client specification; hi-vis yellow threshold rail
<b>Design standards</b>	BS EN 1990, 1991-2/-4, 1993-1-1, 1993-1-8; SLS & ULS
<b>Fabrication</b>	BS EN 1090 — Execution Class EXC2 or EXC3
<b>Fixings</b>	A4 stainless; cast-in 304 stainless socket assemblies
<b>Max manual size</b>	Up to 6m wide x 1m high; larger spans automated



Closing-winch and gearbox mechanism mounted on the gate support posts. A duty and backup hand-pump hydraulic system raises the leaf onto its castors before the winch drives it closed.

## Certification & Quality

Every MME sliding flood gate is designed by chartered structural engineers to Eurocode standards, with full SLS and ULS analysis, and manufactured under our quality management system to Execution Class EXC2 or EXC3.

Gates are leak tested in situ with independent witness by Lloyd's Register. A full documentation pack is provided: structural calculations, material certificates, test reports, paint inspection records and O&M manual.

## Built Bespoke to Your Requirements

Every gate is engineered and made to order in the UK — we design, fabricate, paint, test and install. Typical lead times are 6–8 weeks from design approval.

[Contact us for a same-day quote](#)