

Bespoke to Any Site

Aluminium or Steel

Retrofit Perimeter Defence

ISO 12944 C4 / C5

Sump &amp; Pump Option

## PRODUCT SPECIFICATION

# Flood Cabinet

Bespoke Perimeter Flood Barrier — Model MME-FC02



## Key Features

- **Perimeter Defence**  
 Low-level barrier bund built around existing transformers, kiosks and equipment — keeping assets protected in place
- **Aluminium or Steel**  
 Lightweight 2"x2"x¼" aluminium SHS frame with 5mm sheet, or mild steel S275 construction
- **Swing Access Barrier**  
 Single or double swinging access barrier with removable centre post for full clear opening
- **Watertight Seals**  
 Compression D-seals to the barrier and threshold step; all joints sealed
- **Sealed to Base**  
 Bolted and sealed to the RC base with Everbuild PuraFlex 40 polyurethane and M10 Thunderbolt anchors
- **Earthing Ready**  
 M8 earthing tabs on leaf, frame and panels — suitable for live electrical environments
- **Integrated Drainage**  
 Optional sump & pump (typ. 600–750mm deep) installed within the enclosure
- **Protective Coating**  
 Protective coating system to ISO 12944 C4 / C5, blast cleaned to SA 2½, finished in any RAL colour

**CONSTRUCTION**

 Aluminium  
 or S275 Steel

**SEAL**

 Compression  
 D-Seal

**COATING**

 ISO 12944  
 C4 / C5

**FIXING**

 M10 Thunderbolt  
 PU40 Sealant

**ACCESS**

 Swing Barrier  
 Removable Post

**DRAINAGE**

 Sump & Pump  
 Optional

**MM Engineering**

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

# Technical Specification

The MM Engineering Flood Cabinet (MME-FC02) is a bespoke perimeter flood barrier — a low-level bund of fabricated panels and swinging access barriers built around existing substations, transformers, kiosks and equipment. Each cabinet is designed, fabricated, painted and installed by MME to suit the asset footprint, flood protection height and operational access, including installation in live electrical environments.

ITEM	SPECIFICATION
<b>Construction</b>	2"x2"x¼" aluminium SHS frame with 5mm aluminium front sheets; mild steel S275 alternative
<b>Configuration</b>	Low-level perimeter barrier ("bund") wrapped around the existing asset
<b>Panel Fixing</b>	M8 A2 / XA2 security button-head bolts, 3M VHB tape & PU40 sealant
<b>Access Barrier</b>	Single or double swinging barrier; removable centre post on double leaves
<b>Barrier Seal</b>	Compression D-seal to barrier and threshold step
<b>Corner Bracing</b>	Bolted corner bracing c/w M8 button heads
<b>Base Fixing</b>	Fixing angles c/w M8 button heads & M10 x 100 Thunderbolts
<b>Sealant</b>	Everbuild PuraFlex 40 polyurethane (grey) — cabinet to concrete base
<b>Hinges</b>	Precision-machined hinges with brass bearings; grease nipples on larger gates
<b>Locking</b>	Locking handle mechanism with metric spindle; padlockable
<b>Earthing</b>	M8 earthing tabs to leaf, frame & panels
<b>Drainage</b>	Optional sump & pump (typ. 600–750mm deep) within the enclosure
<b>Base</b>	New / extended RC base — C35 concrete, A393 mesh, H14 starter bars, GEN1 binding layer
<b>Flood Protection Height</b>	Project-specific (e.g. up to ~1280mm)
<b>Protective Coating</b>	Coating system to ISO 12944 C4 / C5; blast cleaned to SA 2½
<b>Colour</b>	Any RAL colour (e.g. RAL 8007 Fawn Brown, RAL 8014 Sepia Brown, Hollybush Green)
<b>Installation</b>	Designed, fabricated & installed by MME — suitable for live electrical environments

## Engineering & Quality

Every flood cabinet is designed and detailed by MME's in-house engineering team and manufactured under our quality management system at Port Talbot. Designs are developed to suit client and utility technical specifications, including water company, DNO and National Grid standards where applicable.

A full documentation pack is provided: general arrangement and concrete-base drawings, material specifications, paint inspection records, and an operation & maintenance manual.

### Built Bespoke to Your Site

Every cabinet is made to order. We survey, design, fabricate, paint and install around your existing assets — including live electrical equipment — as a complete single-source solution.

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