

Bespoke to Any Size

Laminated Structural Glass

316L Stainless or Aluminium

Eurocode Engineered

Unobstructed Views

## PRODUCT SPECIFICATION

# Flood Glass Wall

Bespoke Structural Glazed Flood Defence — Stainless Steel or Aluminium



## Key Features

- **Bespoke Design**  
 Custom-engineered to any run, height and curvature — every panel sized to suit the site and construction tolerances
- **Laminated Structural Glass**  
 Multi-ply toughened laminate to BS EN ISO 12543, bonded with a high-strength structural interlayer — multiple interlayer options available to suit the design loads
- **Unobstructed Views**  
 Transparent flood protection preserves the waterside outlook where a solid wall would block it
- **Material Options**  
 Stainless steel up to grade 316L for marine durability, or lightweight aluminium framing
- **Watertight Sealing**  
 Closed-cell EPDM seals to base, posts and retaining angles form a continuous barrier
- **Floating Glass Tolerance**  
 Engineered clearance lets each pane float within the frame, absorbing movement, expansion and build tolerance
- **Eurocode Engineered**  
 Designed to BS EN 1990/1991/1993 for hydrostatic, wind, pedestrian and impact loads
- **Integrated Demountables**  
 Stop-log openings and bi-fold railings can be built into the run for access where required

**FRAMING**

 316L S/S  
 or Aluminium

**GLASS**

 Laminated  
 Multi-Ply

**SEAL**

 EPDM  
 Closed Cell

**HEIGHT**

 1100mm  
 Typical

**STANDARD**

 BS EN ISO  
 12543

**DESIGN**

 Eurocode  
 Chartered Eng.

**MM Engineering**

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

# Technical Specification

The MM Engineering Flood Glass Wall is a bespoke structural glazed flood defence, individually designed, fabricated and installed by our engineering team in Port Talbot. Each scheme is engineered to the Eurocodes by a chartered structural engineer, with laminated glass panels held within a stainless steel or aluminium post-and-rail system to deliver a robust, watertight barrier that preserves the waterside view.

ITEM	SPECIFICATION
<b>System Type</b>	Static glazed flood defence wall — bespoke to scheme requirements
<b>Framing Material</b>	Stainless steel up to grade 316L, or aluminium — to suit environment and budget
<b>Glass Panel</b>	Multi-layer laminated structural glass (typically 3-ply, e.g. 12 / 1.5 / 12 / 1.5 / 12), sized to load
<b>Glass Standard</b>	BS EN ISO 12543 — laminated glass
<b>Interlayer</b>	High-strength structural interlayer bonding each panel — multiple interlayer options available to suit design loads and durability requirements
<b>Posts &amp; Rails</b>	Mid, end, corner / angled posts, top rail and top cap; posts ideally equally spaced for consistent panel length
<b>Retaining Angles</b>	Wet-side and dry-side stainless retaining angles to all four glass edges
<b>Seals</b>	Scrim-backed closed-cell EPDM — base, post channel and retaining angle
<b>Protection Height</b>	1100mm typical / up to 1300mm worst-case scenario (bespoke)
<b>Post Centres</b>	Typically 2500–3000mm, subject to edge-distance and load calculations
<b>Design Codes</b>	BS EN 1990, BS EN 1991, BS EN 1993-1-4 (stainless steel); BS 7818 pedestrian loading
<b>Design Loads</b>	Hydrostatic head, peak velocity wind pressure, Class 3 pedestrian and debris impact (e.g. 10kN)
<b>Fixings</b>	Hilti HAS-U anchors (e.g. M20 / M24) with HIT-HY 200-A resin; embedment to fixing assessment
<b>Integrated Options</b>	Stop-log openings and bi-fold access railings with shoot bolts, locking tabs and jockey wheel
<b>Installation</b>	Designed, manufactured and installed by MM Engineering — seals fitted on site

## Certification & Quality

Every flood glass wall is designed by a chartered structural engineer and manufactured under our quality management system. Project-specific calculations confirm the system against static, wind, pedestrian and impact loading, with fixing embedment verified for the substrate — existing concrete, new concrete, granite or dual-substrate conditions.

A full documentation pack is provided: structural calculations, material certificates, installation drawings, fixing assessment and an operation & maintenance manual with a maintenance log.

## Built Bespoke to Your Requirements

There are no standard sizes. We survey, design, engineer, fabricate and install a complete single-source flood defence tailored to your site.

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