SPECIAL SOLUTIONS FLOOD PROTECTION

FLOOD READY. NZ WIDE

FloodShield Aluminium Barrier

Demountable aluminium flood protection

We supply a panel-and-post barrier for openings that need temporary flood closure. Panels and removable middle posts are taken out afterwards; permanent end connections and anchors remain.



Installed riverbank barrier example

Built around the opening

Stacked aluminium panels fit into gasketed post channels. Removable middle posts divide wider openings into bays, while permanent interfaces connect the barrier to the supporting structure.

Selected for the site

Panel profiles, post sections and bay spacing depend on the required water level and site conditions. A 3 m solution needs appropriate components, adequate foundations and end tie-ins, and engineer verification.

Photographs show example configurations, not a confirmed project design.

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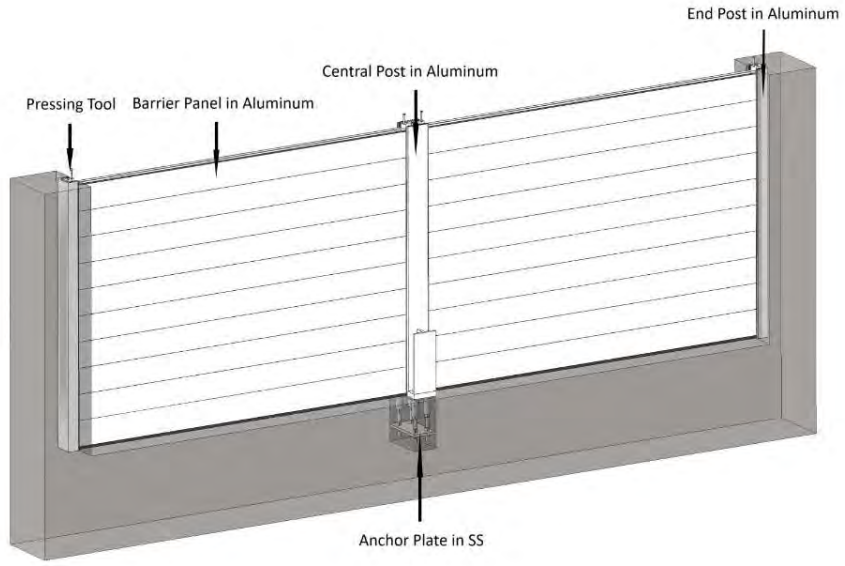
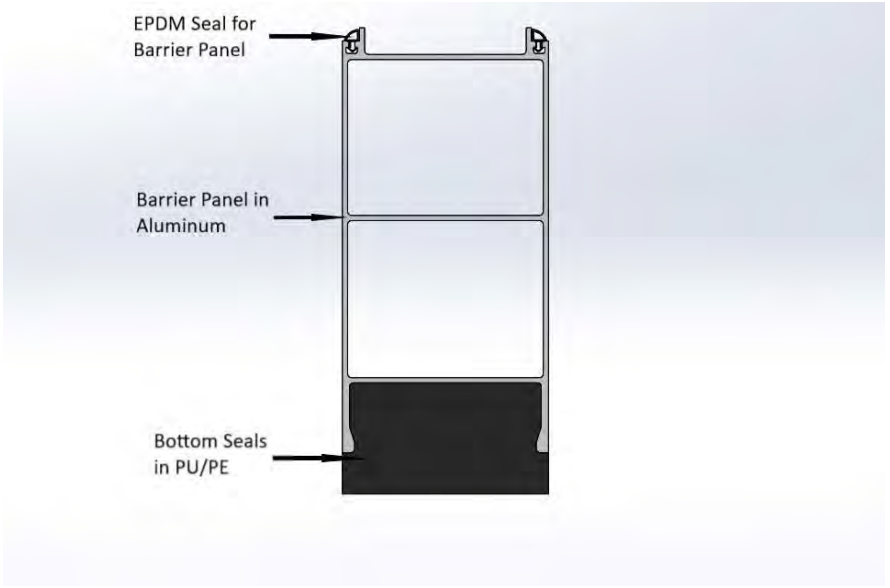
The panel and post system

How the components fit together



System arrangement reference



Illustrative panel, EPDM seals and PE/PU-type ground seal.



Panel profile example

Illustrative panel and seal photo; the pictured variant is not specified. The reference family uses 6063-T6 aluminium, 200 mm high × 100 mm deep. Final profile, gauge and lengths require confirmation.

Generic family illustrations do not establish the dimensions or fixing layout of a selected 100 mm-deep system.

Posts and anchors

Gasketed end and middle posts retain the panels. Post sections and bay spacing suit the design loads. Embedded anchors and end tie-ins transfer those loads to engineer-designed supporting structures.

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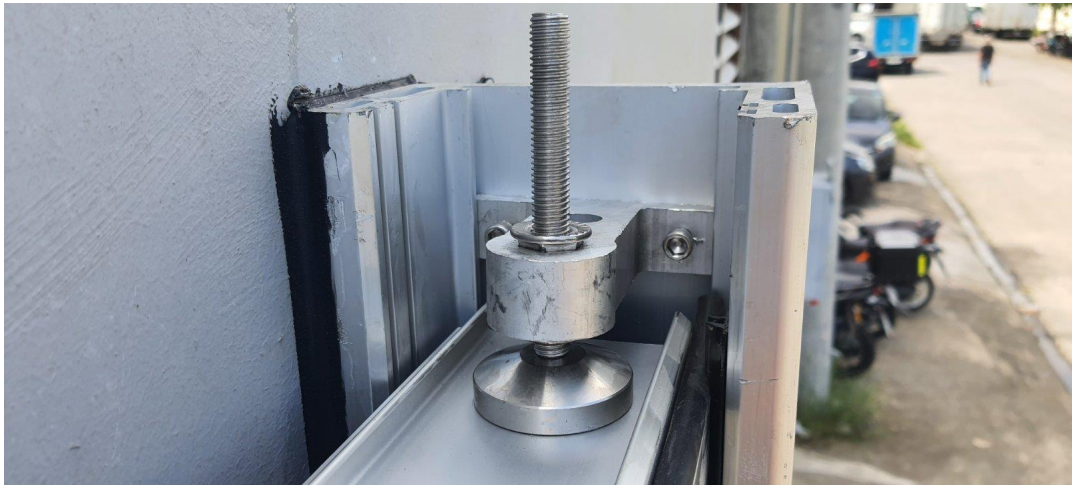
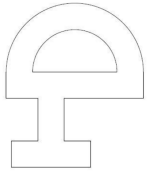
Seals and anchored connections

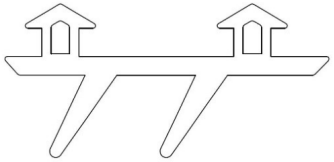
Component views and reference details



Top pressing tool in a post channel



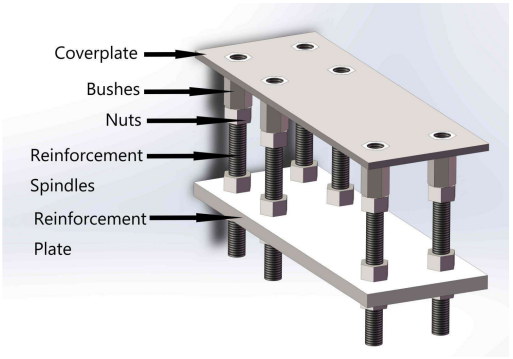
Panel gasket



Post gasket



Post and base connection example



Reference anchor assembly



Embedded anchor sockets at the surface

Top clamping

Pressing tools bear down on the panel stack. They work with the seals as part of the selected assembly.

Panel and ground seals

EPDM seals are used at panels and posts, with a PE/PU-type ground seal. Final seal selection and base preparation are site-specific.

Foundation connections

The illustrated anchors show the connection principle. Fixings, reinforcement and foundation geometry require engineering for the site.

Deployment and project planning

An approved site procedure supports safe deployment and recovery



Partly assembled barrier example

Heavy posts may need mechanical lifting. Upper-panel access, staffing and handling equipment require a project-specific assessment.



Doorway barrier example



Installed wall example

Prepare

Confirm the site procedure, access, component set and condition of the fixtures and seals before deployment.

Deploy

Position posts and insert panels using the approved method. Fit the specified top clamps and complete the required checks.

Recover

After safe clearance to remove the barrier, clean, inspect and store panels, posts, seals and tools ready for reuse.

Before a project is specified

Survey the opening, base and any crossing services. Resolve site-specific sealing details before fabrication.

Verify water loads, foundations, end tie-ins and the selected components, including any 3 m requirement.

Agree operating limits, acceptance criteria, storage and maintenance.