

FLOOD CONTROL ASIA *THE FLOOD EXPERTS*

COMPANY PORTFOLIO



Flood Control Asia RS Corp.



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Company Profile

Company Profile of Flood Control Asia RS Corporation



Our Vision

Flood Control Asia RS Corporation envisions to become Asia's leading flood control system technology provider.

The company aspires to replicate here in Asia, its success in Germany and in other countries in Europe, and also in the US, and in Canada.



Our Mission

Our mission is to protect properties and save lives by providing the best flood control solution for the people of Asia.

Flood Control Asia RS Corporation is committed to impart to the Asian people its globally-proven flood control systems technology to ensure protection of lives and property against destruction from flood.

The company aims to provide flood control solution to the people of the Philippines and the rest of

- **Southeast Asia:** Brunei | Cambodia | Indonesia | Laos | Malaysia | Myanmar | Singapore | Thailand | Vietnam
- **East Asia:** Hong Kong | Japan | South Korea | Taiwan
- **South Asia:** Bangladesh | India | Sri Lanka



Background

Flood Control Asia RS was established through the initiative of RS Stepanek KG - Germany's premier flood control systems company.

Over 65,000 units are installed for 11,000 satisfied customers. Our flood control products are used in residences, industrial buildings, commercial establishments, and government offices worldwide in 34 countries in 4 continents.

Regional headquarters for Europe: (Main)
RS Stepanek KG, Limburg an der Lahn, Hesse, Germany

Regional headquarters for North America:
Flood Control International Ltd., Tavistock, Devon, United Kingdom

Regional headquarters for Asia:

Flood Control Asia RS Corp., Clark Freeport Zone, Pampanga, Philippines

The RS technology was invented by Rainer Stepanek in 1990 – therefore, the RS Group is celebrating its 30-years jubilee this 2020.



Our Ways of Working

President and CEO: Dr. Andreas Klippe, Doctorate in Process Engineering (Summa Cum Laude) and expert in Flood Control Systems Technology.

Dr. Klippe also has an extensive experience in the Asian market. His leadership is backed by team of professionals not only in the field of engineering, but also in communications and information technology as well.

Flood Control Asia RS Corp. has its own professional installation team for Asia under the supervision and direction of a German lead engineer.

The company also has its own maintenance team that guarantees competent and immediate service support year after year.

Product line and Services

A wide array of state-of-the-art flood control system products, each one bearing the “**Quality - MADE in GERMANY**” seal, coupled with its 30 years of field experience ensure accurate solutions to specific flooding situation for different clients wherever in the Asian region.

Flood Control Asia RS Corporation, in partnership with the German government, also supports disaster preparedness trainings conducted by its affiliate, the Asian Center for Flood Control (www.ACFC.asia). Here, members of the community and representatives from the local government rescue units participate in scheduled training seminars, where they are taught basic flood prevention safety measures and also introduce them to modern flood protection system.

The company’s commitment and passion to serve and protect people against the disasters brought by flood is succinctly expressed with its mission statement: “To protect properties and save lives by providing the best flood control solution for the people of Asia.”

RS Product Technical Information Sheets



USES

- Single building apertures
- Openings in flood walls
- Stainless / aluminium system for marine environments
- Fully removable perimeter defence to buildings
- A 'usually stored' system for erection when flood warnings received

BENEFITS

- Low cost system
- Lightweight - sections allow safe lifting of 3m beams by one person for rapid deployment
- Flexibility – can be configured to any geometry
- High strength – single beams can span up to 3m unsupported. Spans up to 6.5m possible with optional back-braces
- Choice of bottom seals - allow barriers to sit on existing non-porous surfaces
- Completely removable - leaving a totally flat ground surface
- Vandal resistant - covers and padlockable clamps available
- Able to be powder coated to any RAL colour
- Long life - using galvanized and aluminium components

DEMOUNTABLE BARRIERS are engineered to provide similar levels of protection to permanent flood defences, but with the distinct advantage of being fully removable when not required. They comprise aluminium panels that are inserted into steel channels. Bespoke clamps compress specialist seals to create a reliable barrier against flood water.

These barriers can be supplied for virtually any configuration including arcs, closed rectangles or circles and straight runs of any length. The system can be used on slopes up to 20° and can be stepped for steeper gradients. Each system is load calculated based on application and the prevailing flood conditions and can be configured for flood depths up to 4m. A four-sided detail is available for openings that may become fully submerged.

To facilitate installation in new builds, we can supply preformed ground plates with integral anchors for the demountable supports. The systems can be also retrospectively fitted to suitable existing foundations in which case load certified, chemically fixed sleeve anchors are used to attach the demountable supports.

This leaves only stainless steel bolt blanks at each post location. Due to the strength of our beams, this can be at 3m spacing.

Purpose designed seals that resist silt clogging and reform even after prolonged compression, together with vandal resistant covers and lockable clamps, make these systems ideal for locations where semi-permanent installation is a requirement.

The modular design facilitates storage and transportation and the ergonomically positioned carrying handles enable all but the higher systems to be erected without the need for mechanical lifting equipment.

Fully removable flush-finish perimeter defences - flood depths up to 4m, ideal for wide area defences.



SIZES

- Unsupported spans possible up to 3m.
- Maximum spans of up to 6.5m possible with back bracing.
- Standard maximum flood control height of 4m, using 300mm standard beams.
- Beam weights of 8kg/m allow safe single person lifting of 2.5m beams.

CONFIGURATIONS

- Any length or layout is achievable.
- Posts and beams can be tailored for any gradient.
- Posts can accommodate steps and changes in direction.

INSTALLATION

- End posts can be surface mounted or recess mounted. Architectural coverplates can be applied to match building finishes.
- Intermediate posts require RC beam foundation. This can be under final surfacing finish with drilled in stainless steel sockets, or with cast in baseplates.
- Systems can be retrospectively fitted to any suitable foundation.
- Every system is bespoke designed using CAD and drawings provided.



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RS Inero Mobile Flood Barriers provide immediate protection to lives and establishments



RS Inero Mobile Flood Barriers can protect river side from flooding

USES

- They can be set up on any corner, sharp turn, or slope, as these mobile flood barriers are very flexible.
- The removable flood panels can also provide protection for major roads and thoroughfares.
- These portable flood barriers are suitable for large perimeters.

BENEFITS

- The RS Mobile Flood Barriers does not require permanent installation or alteration of structures.
- These flood panels are lightweight and perfect for emergency response.
- Made from marine-grade aluminum alloy, these flood water barricade are extremely durable.
- These temporary flood protection barriers can be set up in any structural design.

Inero's patented flood barriers offer a flood protection solution that is lightweight, simple to use and quickly deployed. Primarily designed to provide flood defences for wide areas, the barrier can withstand water levels up to 1.8m. The sections interlock using a patented quick connector to form a continuous, flexible barrier that adapts to all common substrates, such as concrete, grass, gravel and asphalt.

They can also be curved 90° through the use of corner sections. The barriers stop and withstand both standing and rushing water and can be assembled directly in the water. Six people can install 100m of complete barrier in about one hour.

Lightweight materials and innovative design contribute to a low weight and good stackability, simplifying storage and transport.

Two cargo pallets are enough for 100m of barriers. A cargo container can hold 500m of the H80 barrier. After use the barriers can simply be cleaned and reloaded onto their pallets.

DIMENSIONS

The standard configuration of one pallet INERO™ flood barriers, such as the H 100, is as follows: 50 meters of barrier sections, include support legs and foot beams, a plastic box of 100 plastic clips and user manual, screws with pre-mounted nuts and one spanner. Polyethylene membrane for 50 metres.

Total weight for one steel pallet with 50 meters of barrier: 1.3 tons. The steel pallet is designed to allow ergonomic and user-friendly installation of the barrier with the barrier plates standing on end and the material accessible from both sides.



ASSEMBLY

INERO™ flood barriers are easy to assembling, even with no previous knowledge.

1. Affix the foot beam to the support leg.
2. Connect the barrier sections with the quick connector. It is easiest to do so from left to right.
3. Affix the support legs and the foot beam to the barrier section. The two galvanised screws and pre-mounted nuts fit into keyhole slots on the long side of the barrier. Adjust by hand or using a tool.
4. Roll the specially designed polyethylene membrane over the barrier framework, attach with clips on the top edge, anchor the membrane at the bottom with sand / gravel, sandbags or heavy chains.

Six people can install 100 meters of complete barrier in about an hour.

SPECIFICATIONS

INERO™ flood barriers are made of seawater-resistant marine-grade aluminium EN-AW-5754 H22 which does not corrode, even in salt water environments.

INERO™ flood barriers are manufactured by ISO-certified companies in Sweden and meet all safety requirements and are tested for durability. Together with strength calculations and simulations independent third party institutes in Germany (TUHH University of Technology Hamburg Harburg) and the UK (HR Wallingford) have tested the INERO™ flood barrier. The tests investigated the barrier's stability, performance, leakage rate and impact resistance with good results. The end results showed that the barrier stands stable at full water pressure of one meter and while overtopping, stands stable after the impact of heavy logs, is easy to install and has a leakage rate below 40 l/h/m both after 1 hour and after 18 / 22 hours.

ENVIRONMENT

INERO™ low barriers are designed with minimal materials. Their low weight also means reduced CO₂ emissions from transport. The barriers have an extremely long service life and are 100% recyclable. The polyethylene membrane is single-use only and is suitable for environmentally friendly disposal.



Simple in structure, yet extremely durable and dependable



It can be installed in curves, turns, slopes and even sharp corners



Sees to protect construction sites, to avoid delays caused by flooding



RS Inero Mobile Flood Barriers are reliable to contain water for long period



USES

- River flood defenses.
- Sea walls or sea defence extensions.
- Building perimeters where visual amenity is desired.
- Raising flood protection heights of existing walls.

BENEFITS

- Full time permanent defence with no operation costs.
- Minimal visual impact.
- Can be retrospectively onto existing walls of foundations.
- Unique ability to raise flood protection at a later date with 'add-on' demountable barriers.
- Minimal associated construction and maintenance costs.
- No storage requirements.
- 50+ year design life.



The **RS Group** has developed the ultimate glass flood defence system that is capable of withstanding virtually any flood condition. These glass flood walls can be used as a permanent first line defence with minimal visual intrusion.

The barriers are also “future-proofed” against rising flood levels by a unique design that allows the flood protection height to be raised at any later stage by simple addition of a demountable barrier directly to the top of the glass system.

Our glass flood walls utilise a combination of high strength structural glass and stainless frames and are designed to withstand the static and impact loads of the specific location.

Self-cleaning coatings can be applied to the glass to prevent the build-up of any surface contaminants and the marine grade stainless steel frames and EPDM seals make this system perfectly suited to aggressive marine environments.

The glass barrier can be mounted on top of half-height structural walls, or entirely freestanding and used as a pedestrian barrier if required. The constant profile of the top beam gives good sight lines as opposed to the “post and plank” type glass barriers found elsewhere.

The result is a continuous barrier that is ideal as a flood defence where permanent protection is advantageous and visual amenity is important. No moving parts mean reduced maintenance requirements over other barrier types and the protection is self-evident at all times.

Additionally, we are able to supply flood proof windows within building openings.

Engineered glass flood walls are the ultimate unobtrusive permanent flood defences.



SIZES

- Standard sizes use panes up to 3m wide and m high.
- Maximum spans of up to 4m available as special order.
- Standard frame width is 120mm - for structural glass thickness of up to 70 mm.

CONFIGURATIONS

- Any length and geometry is available.
- Low height glass flood walls up to 350mm can be simply based supported with no posts or top frame member.
- Frames can be fully recessed along the bottom and ends to maximise visual area.

INSTALLATION

- System can be designed into new installation or retrospectively fitted to suitable walls or foundations.
- Every system is bespoke designed using CAD and drawings provided.
- A range of finishes is available from polished stainless steel to powder coated any colour.
- System is quick to install and uses a dry-seal system with no curing time.



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USES

- Pedestrian flood gates.
- Gateways in flood defence walls.
- Building openings where steps are allowed.

BENEFITS

- Single person operation.
- Lightweight - requires less massive supporting structure.
- Easy installation.
- Virtually maintenance free due to aluminium and stainless steel construction.
- Single point locking.
- Can open inwards or outwards up to 180°.

Designed and built to the same high standards as our Lift-Hinged Gates, our Swing-Hinged Gates are ideal for opening where there is a step or ramp.

The aluminium construction results in a light and easy to use door that provides full protection. With precision engineered hinges the gates can open the full 180° and this can be further extended to 270° with modification.

Our Hinged Gates are designed for extreme weather durability to give a lifetime of service, custom seals designed to reform after prolonged compression, fully lockable and complete with anti-theft and vandal resistant features.

Designed to provide either flood protection or chemical containment in bunded areas, the gates are securely sealed with 2 or 3 lever type locking handles. With the use of a removable centre support the gates can be paired to provide protection for wider openings.

The components are manufactured from construction grade steel and aluminium with stainless steel options for salt water environments. The systems are suitable for constant daily use and can be left semi-permanently installed.

Our flood gates are virtually maintenance free due to:

- T6 grade stainless components
- Lifetime lubricated phosphor bronze hinges
- Powder coated marine grade aluminium beams

Our Swing-Hinged Gates are designed for extreme weather durability to give a lifetime of service.



SIZES

- Single aluminium Swing-Hinged Gates are available up to 1.5m wide and 1.6m high.
- Double gates are available with demountable central posts for flood situations.
- Steel floodgates can be made to any size – our largest to-date is 6.4m wide by 4.4m high.

CONFIGURATIONS

- Swing-Hinged Gates require a step to close against.
- Gates can be integrated into glass barrier systems.
- Gates can be integrated with lift-hinged vehicle gates or demountable barriers for increased flexibility.

INSTALLATION

- Gates require adequate walls either side and a step to seal against.



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USES

- Openings in floodwalls for continuous flood defence
- Building openings
- Vehicle entrances
- Disabled access or public areas where steps or ramps not allowed

BENEFITS

- Can be used on dead level thresholds for vehicle / disabled access
- Single person operation
- Lightweight - requires less massive supporting structure
- Virtually maintenance free due to aluminium and stainless steel construction
- Single point locking
- Can open inwards or outwards up to 180°

Our LIFT-HINGED FLOOD GATES utilise a unique 'raise-swing-lower' mechanism and do not require recessed ground channels, raised ground beams or ramps. This makes them ideal for vehicle entrances and especially suitable for forklift or wheelchair access.

Even the widest flood gates can be operated by one person using the smooth winding lift action and the single point locking mechanism. The lightweight aluminium construction also provides a far higher level of operator safety than heavy steel gates.

Due to their unique design, the gates are able to open a full 180°, either with or against the direction of flooding.

These flood gates are available as single or double leaf, or integrated with a stop-log system for wide entrances. Our gates are suitable for use in unmanned locations, are fully lockable and come complete with anti-theft and vandal resistant features.

The components are manufactured from construction grade steel and aluminium with stainless steel and are virtually maintenance free. They are designed for extreme weather durability to give a lifetime of service and with EPDM seals that reform even after prolonged periods of compression, the gates can, if required be left closed indefinitely.

For locations where gate leafs greater than 4.5m wide are required, we can also manufacture these gates from steel to any size.

Easy to use lift-hinge floodgate suitable for roads, vehicle and disabled access, flood depths up to 1.85m as standard.



SIZES

- Single aluminium Lift-Hinged Gates are available up to 4.5m wide and 1.85m high.
- Double gates are available with demountable central posts for flood situations up to 9m wide.
- Steel flood gates can be made to any size – our largest to-date is 6.4m wide by 4.4m high.

CONFIGURATIONS

- Lift-Hinged Gates operate over a level threshold and are able to seal against any level flat surface.
- Gates can be integrated into glass barrier systems.
- Gates can be integrated with demountable barriers for large openings over 4.5m.

INSTALLATION

- Gates require adequate walls either side and a flat surface to seal against. High compression seals enable Lift-Hinged Gates to operate on a variety of surface finishes.



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Gas-lift pivot barrier for vehicle access



Hinged Gate Containment Barrier

USES

- Access points at chemical sites/ warehouse facilities
- Openings in bunds where level access required
- Safely retain spillages and fire-fighting water on site
- Suitable for constant daily use or can be left semi-permanently installed

BENEFITS

- No modification to floor surface
- Unobstructed access around sites - no ramps
- Single person operation
- Manual, gas lifted, semi-automatic and fully automatic systems available
- All components designed to resist chemicals and pollutants.
- Built to the highest quality standards and TUV tested and approved

FLOOD CONTROL Asia RS Corp. produces bespoke engineered Chemical Containment Barriers that can isolate a whole site or just part of a site to retain spillages or fire-fighting run-off on the premises.

Depending on a particular site's risk assessment they may be operated manually or triggered by means of automatic sensors. Such sensors may be triggered on sumps being filled or the fire alarm being activated to ensure rapid response even on sites where an event may not be immediately noticed.

Our Containment Barriers allow vehicle and pedestrian access through bunds when required and save space that would otherwise be taken up with ramps to maintain a bund level.

Containment gates can also be specified that swing across an opening with a dead level threshold. We can also provide steel flood/fire doors that can retain full height liquid pressures for deep bunds that require occasional maintenance access.

A choice of seal materials means that the right seal can be matched to the requirements of chemical resistance, fire resistance and compressibility. Automatic barriers and gates can be fitted with acoustic and visual warnings, obstruction sensors and anti-crush systems.

Our standard barriers are tested to the rigorous TUV Certificate of Approval for openings up to 6.5m wide and 600mm high. Special barriers can be provided to any size or height and individually tested for strength and water tightness on site when required. Multi-span sectional barriers can create any size and height bund.

With a 50 year design life our containment barriers, gates and doors give dependable protection against spillages and fire-fighting run off.

A full range vent options to protect against spillages or fire-fighting run-off.



Manual containment barrier for vehicular access



Automatic drop-down barrier

SIZES

- Minimum containment barriers are available up to 6.5m wide and 600mm high as standard and multi-span containment barriers are available to any length, height and configuration.
- Gas-lift pivot barriers are available for widths up to 4.25m wide and 600mm high as standard.
- Lift-hinged gates are available up to 4.5m wide and 1.86m high.
- Automatic drop-down barriers can be specified to any width and height.
- Watertight doors can be specified to 2.7m high and 1.2m wide for single doors or 2.4m wide for double doors with removable centre mullion.

CONFIGURATIONS

- All barriers can be mounted internally or externally.
- Manual, pivot and drop-down barriers have a minimal footprint and do not require 'swing area' or ramp space.
- Containment gates can be specified inward or outward opening and work on level thresholds.
- Barriers can be manually operated, push button operated or fully automatic linked to sensors.
- UPS back up and manual override is available on all automatic systems.

INSTALLATION

- Barriers and gates require a flat level threshold on which to close.
- A detailed survey will identify optimum mounting options and useability.



Gas-lift pivot barrier for vehicle access



Automatic drop-down barrier



Manual containment barrier for pedestrian access



Multi-span 900mm high removable containment barrier



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USES

- Public area flood protection schemes
- Underground garage or car park entrances
- Anywhere where unrestricted level access is required
- Integrated into new developments for full time unobtrusive defence

BENEFITS

- Fully recessed when not in use.
- No restrictions to openings or access
- Fully automatic operation available
- Push-button operation available to put you in control
- Quick erection of large flood barrier
- No deep excavations required as barrier lays flat when not in use
- Flood barrier can be linked to alarm systems
- Safety systems include visual / audible alarms when operating, dead stops activated by movement sensors
- Totally vandal resistant as no exposed seals or components

Designed to provide totally unrestricted access to pedestrian and vehicle entrances, this self-raising flood barrier is fully recessed in to the ground when not in use. A range of surface finishes is available; from skid resistant epoxy coatings to timber cladding or paving to fit in with the external hard landscaping.

These flood barriers can rise automatically with the rising flood waters or by push button in advance keeping you in control for complete peace of mind. Uninterruptible Power Supply (UPS) and manual backups mean these barriers will not let you down.

A single system can protect openings up to 12m wide and multiple systems can be linked with intermediate posts to create a flood defence run of almost any length. Depending on span, flood defence heights of up to 2m are available.

Movement and weight sensors prevent the barriers opening if the entrance is obstructed whilst optional audio/visual alarms sound prior to and during operation.

Optional 24 volt back-up systems are available for use in the event of mains failure and permanently installed security grates cover the housing pit - serving as both a safety platform for traffic and pedestrians and as protection for the hydraulic system while the barrier remains raised.

These barriers are designed for pedestrian and vehicle entrances, or anywhere where unrestricted level access is required.

Fully automatic flood barriers that fully recess into the ground - flood depths up to 2m as standard, up to 12m length per unit.



SIZES

- Single systems are able to span up to 12m.
- Maximum flood control heights of 2m are achievable.

CONFIGURATIONS

- Any length or layout is achievable using multiple span systems.
- Intermediate posts can be fixed or raised with previous spans.
- Surface finish to barrier can be non-slip epoxy coated, timber decked or clad to architect's specification.
- Various levels of automation available with remote connection or sensor control and/or push button operation.
- Barriers able to be raised manually in the event of a power failure.

INSTALLATION

- Barriers are mounted within a reinforced concrete pit. Barrier includes for a galvanised steel grating 200mm below external surface level.



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USES

- Flood protection to roller shutter door entrances
- Underground car park / garage flood barrier
- Chemical containment barrier for factories / storage locations
- Internal or external mounting available

BENEFITS

- Always in position above the opening ready for use
- No restrictions to openings or access
- Fully automatic operation available
- Push-button operation available to put you in control or for daily operation
- Quick erection of large flood barrier
- No excavation required to install
- Flood barrier can be linked to alarm systems
- Safety systems include visual / audible alarms when operating, dead stops activated by movement sensors
- Totally vandal resistant as lifted above head height when not in use
- UPS option to work when mains power is unavailable

When not in use, the drop-down flood barrier is unobtrusively located above the head of the opening, ready to be activated at a moment's notice. Direct drive electric motors smoothly and precisely lower the barrier in to position and firmly lock it in to place to form an efficient, dependable flood defence.

Barriers can be push button operated or fully automatic to operate with rising flood waters. Spans of up to 7m are possible for depths of up to 2.5m, and multiple units can be linked together.

The barriers work on dead level thresholds and require no excavation or civil works to install.

Safety is a key factor in this design and all motors have a 'free-fall' dead-stop braking system built-in as standard. In addition, all systems are installed with a pulley system that overrides the motorised drive and allows the barriers to be manually lowered and raised in safety.

As optional features, the systems can be activated remotely, triggered by water or smoke detection or by security alarm systems. Touch and motion sensors can also be added to the braking system whilst further security is available in the form of audio/visual alarms, warning as the barrier moves.

A 24 volt back-up system ensures that the unit will operate in the event of a mains supply failure.

These flood barriers can be supplied in any RAL colour. Barriers can be mounted behind building façades making them as desirable in prestigious locations (such as hotel lobbies, plazas, shopping centres and head offices) as they are essential in factory entrances and loading bays.

Automatic or push button triggered overhead barriers - flood depths up to 2.5m and widths up to 7m.



SIZES

- Manufactured to exact size of opening up to a maximum of 7m wide.
- 100mm height increments up a maximum of 2.5m.
- Multiple systems can be linked for wide entrances.

CONFIGURATIONS

- Single barrier system can be recess or surface mounted.
- Can be fitted with stand-offs to clear roller shutters.
- Can be internally or externally mounted.

INSTALLATION

- Can be mounted directly onto any level watertight surface such as smooth concrete.
- Powder coat finished in any single colour in RAL Classic range.
- Optional hinged covers for side sections and overhead motor.
- Motor drive fitted with an independent 'free fall' stop dead braking system.



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USES

- Commercial flood defences
- Architectural areas at flood risk
- Ideal for where deep flood depths are possible
- Openings in flood walls
- Large openings

BENEFITS

- Designed to fit any building or opening
- Any height or width combination possible
- Full PI design insurance to give total peace of mind
- All doors can be automated and linked to building management systems
- Can integrate with building finishes for unobtrusive defences
- Ability to power / automate closing and opening
- No excavations required for installation
- Always on-site ready to be deployed

Flood Control Asia offers a full design, manufacture and installation service for all types and sizes of Heavy Duty Flood Doors.

All of our doors are individually designed for the specific customer's requirements. Whether it is a hinged or sliding, it will provide the protection against flood water or chemical spills. Our largest single heavy duty door to date is 6.4m wide and 4.4m high, yet is still operable by a single person.

All our Heavy Duty Doors and Sliding Doors are designed to incorporate automation of closure, locking and monitoring status where needed.

Hinged or sliding doors can be designed to seal with flood water assisting sealing or against the water pressure as required.

Sliding doors incorporate spring wheels to allow an easy sliding operation with the ability to compress seals when in position. Alternatively, inflating seals can be used.

Our Design Team welcomes the opportunity to work alongside architects or directly with clients to identify the preferred solution. Doors can be clad with a variety of finishes to suit existing finishes so that the flood protection becomes part of the building aesthetic, rather than as a post-construction add-on.

Hinged or sliding, our heavy duty flood doors are individually designed for each requirement.



SIZES

- Gates and doors can be fabricated to suit any opening.
- Our largest installed gate to-date is 6.4m wide with a 4.4m flood control height.

CONFIGURATIONS

- We are able to design to suit any requirement, depending on building characteristics.
- Large gates can be side hinged, sliding or raising, straight or bi-fold.

INSTALLATION

- We are able to provide loading calculations to ensure that supporting walls are suitable for each application.
- Installation can be undertaken during main construction of the building, or post-construction by assembly of pre-fabricated components in-situ if required.



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Registration and Certificates



DPWH Standard Specification for
ITEM 1730



AYALA Group Accreditation



DPWH Standard Specification for
ITEM 1058



ISO Certificate



SM Vendor Accreditation



FM GLOBAL Certificate



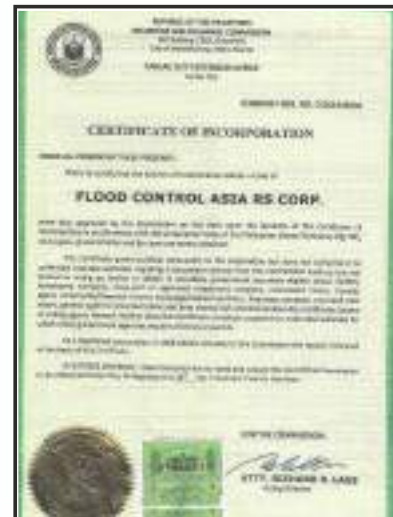
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Registration



Certificate of Registration 2303



Security & Exchange Commission



Tax Clearance Certificate



AMO Certificate

RS Reference Lists

RS Group Worldwide Reference List





RS Group Worldwide Reference List

1. Heineken Cambodia

Phnom Penh, Cambodia

Brewery

35 m RS Demountable Barriers

Water level: 1,200 mm

2. Shanghai ITW Plastic & Metal Co. Ltd.

Shanghai, China

Industrial Products

39 m RS Demountable Barriers

Water level: 600 mm

3. Qatar Foundation

Doha | Qatar

Doha Education City

1.200 m Inero Mobile RS Barrier

Water level: 1 meter

160m RS Demountable Barriers

Water level: 900 mm

4. SM Supermalls

SM City Bacoar, Cavite | Philippines

Commercial Establishment

82.86 m RS Demountable Barriers

Water level: 1,500 mm

5. SM Supermalls

SM City | Molino, Cavite

Mall

12.167 m

Water level: 600 mm

6. Burgos Property Development Corporation

Makati, Philippines

12.179 m

Water level: 1,200 mm

7. Nissan Motors

Nueva Ecija | Philippines

Car Shop

31 m RS Demountable Barriers

Water level: 1,500 mm

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Address: Bldg. 11C Berthaphil 1 Industrial Park, Jose Abad Santos Avenue, Clark Freeport Zone 2023, Pampanga, Philippines
Telephone : +6345 499 0273 | Mobile : +63 998 963 6950, +63 917 631 4188 | website : <http://floodcontrol.asia>

8. 1A Express Hotel

Cagayan de Oro City | Philippines

Hotel

1.20 m RS Demountable Barriers

Water level: 900 mm

9. LTA/MRT

Singapore | Singapore

25 different Subway stations

180.0 m

Water level: 1,200/1,500 mm

50 single, Double and Foldable Swing-Hinged Flood Gates

10. Atlantis, The Palm

The Palm Island | Dubai

5-Star Hotel

90.0 m

Water level: 300 mm

11. Changi Airport Singapore

Singapore | Singapore

Airport

Water level: 1,200/1,500 mm

12. Wall Street Plaza

New York | USA

63.25m

Water level: 1,800/2,100mm

13. McDonald's Store

Muscat | Sultanate of Oman

Fast-food Restaurant

1.25m

Water level: 2,100mm

14. Letterkenny General Hospital

Letterkenny, County Donegal | Ireland

Hospital

82.3m

Water level: 600/1,200mm

15. Maritim Hotelgesellschaft mbH (Kongreßzentrum Dresden)

Dresden | Germany

Congress center garage

a) 8.7m RS Demountable Barriers

Water level: 3,600mm

b) 12.8m RS Demountable Barriers

Water level: 2,600mm

16. Condominio Arcadia / Treff Hotel Verwaltungs AG

Locarno 1 | Italy

Hotel

56.0m

Waterlevel: 1,500/3,000mm

17. Hotel Mercure

Dresden | Germany

Hotel garage

5.3m RS Demountable Barriers

Water level: 2,400mm

18. Rác Bad

Budapest | Hungary

Industry

3.5m

Water level: 1,800/2,400mm

19. B&B Hotels GmbH

01067 Dresden | Germany

Hotel

10.0m

Water level: 900mm

20. China International Water & Electric Corp.

Hong Kong | China

Tai O, raising a quay wall

139.0m

Water level: 600/900/1,800mm

3 Lift-Hinged Gates, Multiple Flood Barriers

21. Hinkler Shopping Center

Bundaberg | Australia

Shopping center

134.0m

Water level: 2,100mm

22. Kurentwicklungsgesellschaft Pirna

“Toskana Therme“ Bad Schandau

Bad Schandau | Germany

Wellness spa

300m RS Demountable Barriers

Water level: 1,800 to 3,900mm

- 23. Kirnitzschtalklinik Bad Schandau**
Bad Schandau | Germany
Hospital
160m RS Demountable Barriers
Water level: 600 to 2,100mm
- 24. Jokey Plastik Sohland GmbH**
02689 Sohland / Spree | Germany
Industry
155m RS Demountable Barriers
Water level: 900 to 1,200mm
- 25. DREWAG - Stadtwerke Dresden GmbH**
01067 Dresden | Germany
Municipal installation
73.5m RS Demountable Barriers
Water level: 600 to 1,800mm
- 26. Nestlé Slovensko, s.r.o.**
Prievidza | Slovenia
Fire station
5.0m
Water level: 1,200mm
- 27. Universitäts-Studentenwerk Dresden**
01069 Dresden | Germany
University
99m RS Demountable Barriers
Water level: 1,200mm
- 28. Gondwanaland Leipzig**
Leipzig | Germany
Zoological garden
25m RS Demountable Barriers
Water level: 900mm to 1,200mm
- 29. Kalterei Sachsenobst GmbH**
Ebersbach | Germany
Bad Schandau | Germany
Factory and warehouse
64m RS Demountable Barriers
Water level: 300mm to 1,200mm

- 30. DREWAG Umspannwerk**
Dresden - Mitte | Germany
Transformer station
35m RS Demountable Barriers
Water level: 1,200mm
- 31. FEWES Feinmechanische Werkstätten Schlottwitz GmbH**
01768 Glashütte | Germany
Industry
12.0m RS doors and RS gates
Water level: 600mm to 1,200mm
- 32. ESAG / Energieversorgung Sachsen Ost AG**
Niederwartha and Freital | Germany
Energy distribution substation
25.0m
Water level: 900mm to 1,200mm
- 33. Auto Förster GmbH**
01809 Dohna | Germany
Car Shop
18.0m
Water level: 900mm
- 34. OHSA**
Singapore | Singapore
Hospital
41:0m
Water level: 900/1,200mm
- 35. Stadtverwaltung Rosswein**
04741 Rosswein | Germany
Kindergarten
15:0m
Water level: 900mm
- 36. Löwen - Apotheke e.K.**
04741 Rosswein | Germany
Bad Schandau | Germany
Drugstore
up to 2.0m
Water level: 1,200 - 1,500mm

37. Diakonissenkrankenhaus Dresden

01099 Dresden | Germany

Hospital

160m RS Demountable Barriers

Water level: 600 to 2,100mm

38. Feuerwehr Stralsund

Stralsund | Germany

Fire station

10.0m: 5 RS gates

Water level: 900mm

39. Ontex Hygieneartikel Deutschland GmbH

02692 Großpostwitz | Germany

Industry

50.0m

Water level: 300 - 1,500mm

40. MDW Mähdrescherwerke GmbH

02692 Singwitz bei Bautzen | Germany

Industry

8m

Water level: 1,200mm

41. Family Mitchell

SW Calgary Alberta | Canada

Private House

122.0m

Water level: 2,400mm

42. Oceanside Fire District

USA

50.25m

Water level: 1,500mm

42. Kinsley Construction

USA

Mount Vernon Mills

24.0m

Water level: 300/600/1,500/1,800/2,100mm

43. Computer Generated Solutions Inc. (CGS)

New York | USA
Commercial company
12.0m
Water level: 1,200mm

44. UWI Credit Union

Trinidad and Tobago
University
9.75m
Water level: 600mm

45. AIB South Mall

Cork | Ireland
Private Bank
45.8m
Water level: 600/900mm

46. Nenagh Leisure Center

Nenagh, County Tipperary | Ireland
Leisure Center
41.3m
Water level: 900mm

47. EDF Power Stations

Different towns | Great Britain & Scotland
Power Stations
1,624.8m
Water level: 200/300/600/900/1,200/1,500/1,800mm
Systems: RS Flood-Protection-Systems, RS Containment & RS Pivot Barriers,
RS Automatic Systems

48. EDF Nucléaire de Production d'électricité

Different towns | France
Power stations
454.7m
Water level: 200/300/400/500/600mm
Systems: RS Containment Barriers, RS Pivot Barriers, RS Double Pivot Barriers,
RS Flood Protection Systems, RS Lift-Hinge Gates

49. Johnson & Johnson

Sezanne | France
Health care
52.0m
Water level: 200mm

50. Maestro Grande Cuisine

La Motte de Galaure | France

Restaurant / campground

25.4m

Water level: 980mm

Systems: double RS Lift-Hinged Flood Gates

51. Chalberweidli, Mitlödi

Mitlödi | Switzerland

Flood-Protection along a riverside

52.5m

Water level: 900/1,200/1,500mm

52. Vereinigte Mulde, Stadt Grimma

Grimma / Germany

Protecting the city-wall-openings

25.0m

3,600mm

53. Sparkassen

Different towns | Germany

Savings banks in different towns

280.4m

Water level: 600/900/1,200/1,500/1,800/2,100mm

54. Kelterei Sachsenobst

Ebersbach | Germany

Industry

106.8m

Water level: 1,200/1,500/1,800/2,100mm

55. Carpe Diem GBS mbH

Meissen | Germany

Commercial

120.0m

Water level: 600/1,200/1,800mm

56. Verbandsgemeinde Diez

Diez | Germany

Underground parking

8.5m

Water level: 2,400mm

System: ESH/KN

57. TM Gruppe

Munich | Germany

Underground parking

6.2m

Water level: 1,240mm

System: drop down barrier

58. Novoferm Balkan EAD

Sofia | Bulgaria

Industry

33.3m

Water level: 600/1,200mm

59. HHLA (Hamburger Hafen & Logistics AG)

Hamburg | Germany

Warehouse

118.0m

Water level: 600/1,500mm

60. KBT Beveiligingstechniek

Rockanje | The Netherlands

Industry (Several projects in different towns)

82.0m

Water level: 200/300/400mm

Systems: manual containment barrier, pivot barrier, drop down barrier

61. E. R. T. Environmental & Recycling Technologies Sàrl

Luxembourg

Industry

110.3m

Water level: 200/300/500/600/900mm

Systems: RS Flood Protection Systems, RS Containment Barriers,
RS Pivot Barriers

62. Vanas Engineering N. V.

Melsele | Belgium

Several projects in different towns

81.75 m

Water level: 300/500/600/900mm

Systems: Flood-Protection-System, manual containment barrier, pivot barrier

63. BASF Sistemas de Impresión S.A.

Vilanova del Vallés | Spain

Fire-Fighting-Water-Retention-Systems

5.0m

Water level: 300 mm

System: manual containment barrier

64. **Schering - Plough / Laboratorios Intervet S.A.**
Salamanca | Spain
Fire-Fighting-Water-Retention-Systems
9.3m
Water level: 300mm
System: manual containment barrier
65. **Hotel Mercure**
Dresden | Germany
Hotel garage
5.3m RS Demountable Barriers
Water level: 2,400mm
66. **Nestlé Slovensko, s.r.o.**
Prievdza | Slovenia
Industry
46.0m
Water level: 1,200mm
67. **5 Star Hotel Elbresidenz Bad Schandau**
Bad Schandau | Germany
Hotel
300m RS Demountable Barriers
Water level: 1,200 to 2,700mm
25 doors and windows bulkhead

Everyday more and more homeowners, entrepreneurs, business owners and government officials are making the right decision to protect themselves and their properties from flood.

Take action now!

Talk to A Flood Expert.

SCAN AND BOOK A MEETING



thefloodexperts.de/book-a-meeting

RS Products are Present in these Countries

1. Germany
2. France
3. Italy
4. England
5. Ireland
6. Scotland
7. Luxembourg
8. The Netherlands
9. Belgium
10. Spain
11. Switzerland
12. Austria
13. Hungary
14. Bulgaria
15. Slovenia
16. Czech Republic
17. Poland
18. Canada
19. USA
20. Hong Kong
21. Singapore
22. United Arab Emirates (UAE)
23. Sultanate of Oman
24. Australia
25. India
26. Trinidad & Tobago
27. Philippines
28. Qatar
29. Cambodia
30. China
31. Sweden
32. Thailand
33. Vietnam
34. Malaysia



more than
65,000 Applications

more than
11,000 Clients

34 Countries



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Keeping everything
safe from flood

is keeping your love ones safe
and your assets secured



www.floodcontrol.asia