R & R FIRE & SOUND PROOF BUILDING MATERIALS LTD.

R & R FIRE MATERIAL CO., LTD

FLOOD GATE & BARRIER

2019-2020 CATALOGUE

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**Type of flood barrier & gate**

- Auto Stacking Flood Barrier
- Auto Flip Up Flood Barrier
- Auto / Manual Sliding Flood Barrier
- Manual Slot Flood Barrier
- Manual Swing Flood Barrier
- Manual Swing Flood Door/Gate
Auto Stacking Flood Barrier (ASFB)

The ASFB with its durable structure is tested to PAS 1188 ensuring maximum water tightness. It also functions as a roller shutter for security. Stainless steel guide and modular aluminum panels which are resistant to corrosion. The automatic system can set the flood barrier into 2 modes: security or flood mode. The panel automatically stacks against one another during operation.

- **1. Shutter hood**
  The frame shall be fabricated from steel sections. Barrier panels, motor, shaft are concealed in the shutter hood frame.
  The finishing of the shutter hood shall be cladded with 1.2mm stainless steel finishing.

- **2. Barrier Panel**
  It is formed by stacking 3mm thick aluminum panels height of 350mm each. The rubber gasket will be provided at every panel.
  The finishing of the barrier is naturally anodized.

- **3. Stainless Steel Side Guides**
  They consist of ‘U’ shaped profile with overall nominal dimensions 230 x 380 mm with a lipped opening for the barrier panel. The board-side sealing system is concealed within the guide.

- **4. Motor**
  Shutter operator is equipped with the built-in limit switch, built-in thermal protector, built-in brake release system, manual hand chain. The power source is 230VAC, 50Hz.

- **5. UPS**
  In the event of power failure, the flood barrier is connected to a UPS backup battery.

- **6. Top & Side sealing mechanism**
  Electrical pistons are used for the top and side sealing mechanism.

- **7. Rubber Seal**
  Rubber seal are made of Vulcanized EPDM.
  They are located on the top and bottom of the barrier panels and inside the side guide.

- **Single span up to 8 m (L) x 5 m (H) with the aid of sealing mechanism**
*Less Than 3.5m - No Center Post Required*
*Center Post: Over 3.5m (W) – One Post*

Remarks:
Width: +3000mm (Incl. of centre post)
Width: +6000mm (Rhs. of centre post)
*Center Post: Over 6.0m (W) – Two Posts*

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Auto Flip Up Flood Barrier (AFFB)

The AFFB with its durable structure is tested to PAS 1188 ensuring maximum water tightness. It’s made up of stainless steel which is resistant to corrosion. AFFB is stored beneath the ground surface and during operation; it automatically lifts up and further tighten the rubber against the track by the hydraulic sealing mechanism to ensure maximum water tightness.

- Single span up to 8 m (L) x 2.5 m (H)
  *Design for 2.5m water level*

*Design for over 2.6m water level*
Auto / Manual Sliding Flood Barrier (SLFB)

The SLFB is made up of stainless steel body which is resistant to corrosion. During operation, the SLFB will move along the track to close and further tighten the rubber against the track by a sealing mechanism.
Manual Slot Flood Barrier (MFB)

The MFB with its durable structure is tested to PAS 1188 ensuring maximum water tightness. It is made of stainless steel guide and modular aluminum panel which are resistant against corrosion. The modular system simplifies the setting up process.

- **1. Barrier Panel**
  - Formed by slotting 3mm thick aluminum panels height of 250mm each.
  - The rubber gasket will be provided at every panel.
  - The finishing of the barrier is naturally anodized.
  - Light weight making it portable

- **2. Stainless Steel Side Guides**
  - Sealing locking nuts are fixed together with side guides to ensure the rubber gasket on guides and barrier panel.

- **3. Stainless Steel Handles**
  - Located at every panel for the handling of the barrier.
Manual Swing Floodgate (MFG)

The MFG is fully stainless steel designed to withstand any outdoor weather conditions and flood levels up to 3 meters. With the rubber packaging seal, the water tightness is kept at 99%. All barriers are custom designed to cater to a wide variety of needs.

- **1. Barrier Door**
  - The thickness of the door shall be sufficient to withstand the hydro-static pressure when in the event of a flood. It shall be cladded in stainless steel finishing.

- **2. Door Frame**
  - They consist of 'L' shaped profile with customized hinges and rubber seals around the edge of opening for the barrier door to close against it.

- **3. Sealing Pin**
  - Sealing Pin shall be activated by sealing handle to lock the door in place to ensure water tightness.

- **4. Vulcanized EPDM rubber seal**
  - Rubber seal shall be able to seal against flood during activation. It shall be able to withstand elements such as ultra-violet rays, rain, heat, and rapid expansion/contraction.

- **5. Sealing Handles**
  - Sealing Handles shall be made from stainless steel and located near the center of the barrier door.

- **6. Manually operated by hand chain Or Automatically operated by control box**