纽锋科技 NEWFLAG

Flood
フロード・ガード
Guard

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江阴市纽锋科技有限公司

NEWFLAG TECHNOLOGY CO., LTD.

2nd Gen. L-Shape Free Standing Flood Board

Patented invovation in both China and Japan with 5 major upgrading on the 1st Gen. free standing flood board

Waterproof Greatly Improved

The addition of the front P-shape EPDM seal increases the waterproof performance by 50% and significantly reduces the water leakage which reaches the standard of Japan's Class 1 waterproof equipment.

Structure Significantly Strengthened

The 1st generation of board joints were at 90° angles and were easily damaged due to stress concentration. We have changed the shape of the joint surface of the board to a folded angle, thus dispersing the stress and significantly improving the structural strength.

New Stainless Steel Locking Clamp Design

A stainless steel locking clamp is new provided on the board, to lock each connecting board. The 1st generation was buckled together directly by the slotted channel in the board, due to the low strength of the plastic material offering un-sufficient locking strength, in extreme cases these buckles may slip out leads to a risk of failure.

The new stainless steel locking design makes the connection more stable, and doubled the overall rigidity of the full system.

Contacting Interface Reinforced

Reinforcing bracket with the seals is designed at the contacting interface to prevent damage and extend the life.

Storage Space Reduced

The boards can be stored in two or three pieces connected and placed on its side, to reduce the storage area. And the assembled form can reduce the transporting and deploy time for emergency.

DEPLOYMENT

1、Confirm the site for deployment

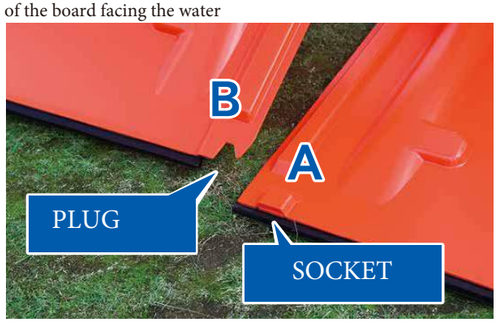
2、Clean the gound of the site

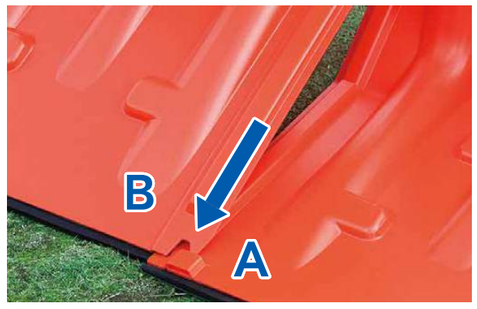
3、Stand behind the flood board to place the front of the board facing the water

4、Set the first left board(FG、FGL) as initial at the wet side.

5、Connect the following to the right end.

6、Apply the right board(FG、FGR) to tightly connect the wall at right side.

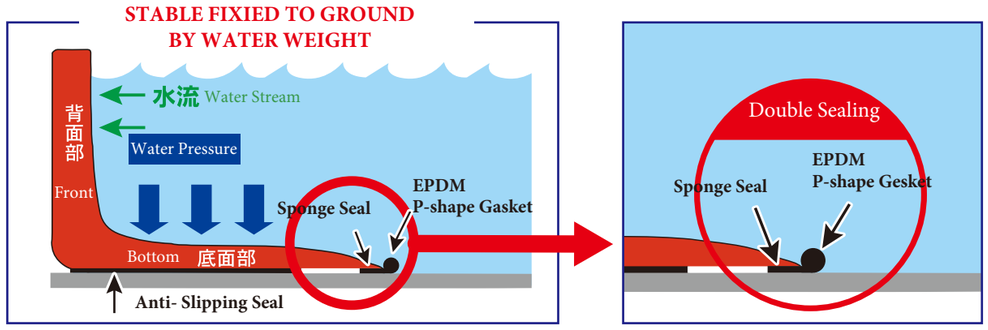




- Align the pin at B to the socket at A.
- Connect A and B, then lock with the stainless steel locking clamp.
- FS board may be brought in for some cases.







Double Sealing

- Sponge gasket for great sealing performnance after compression.
- Working together with the P-shape EPDM gasket, double sealing are achieved to significantly reduce the leakage at the early stage of flood.

Company Info

Newflag Technology Co., Ltd. is a young but professional expert in flood defence industry committing to reliable flood protection solutions to fight against the global flood risk for both commercial and water conservancy purpose.

Our products include Aluminum Demountable Flood Barrier, Landscape Glass Wall, L-Shape Free Standing Flood Board FLOODGUARD, Hydrodynamic Automatic Flip Up Flood Barrier,ect. Adhering to the production concept of "safe, reliable and professional" and the commitment of "high quality and efficient" in all related services, the company strives to become a pioneer in the field of flood protection systems.

Our L-Shape Free Standing Flood Board FLOODGUARD is including F50 series for a flood protection height H50CM and F80 series for a flood protection height H80CM, and F100 series for H100CM protectionis under development coming soon.



PURPOSE

In recent years, world-wide climate changes bring morfe and more heavy rains and typhoons lead to severe flood to our cities especially in low-lying areas near ocean, which has resulted in large amounts of property damage.

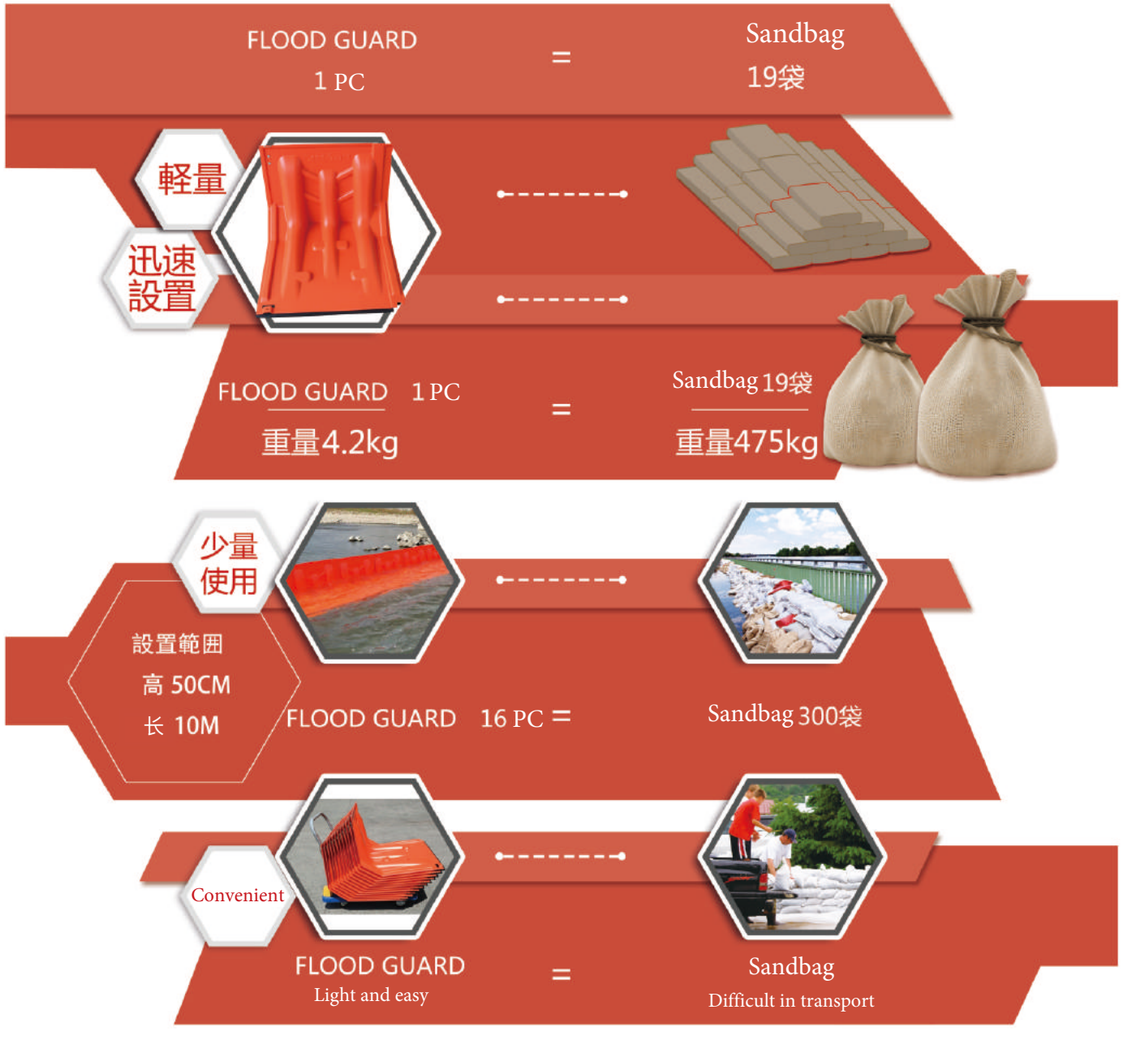
At this stage, the traditional sandbags solution has many shortcomings, such as long preparation time, inconvenient transportation, and carrying difficulties.

Our company's newly developed simple type flood control water barrier, has a small storage footprint, easy and quick installation, good water blocking effect and many other advantages, is the first choice for future urban flood control.

Free Standing Flood Board Flood Guard

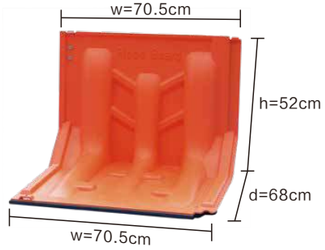
浸水対策　ゲリラ豪雨　防災用品

防汛砂袋 の比較

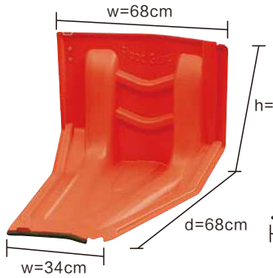


F50 SERIES

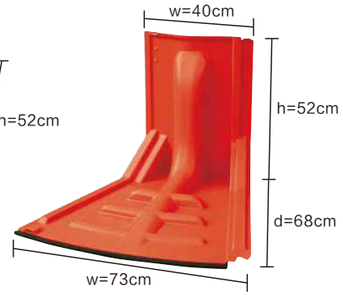
FZ50



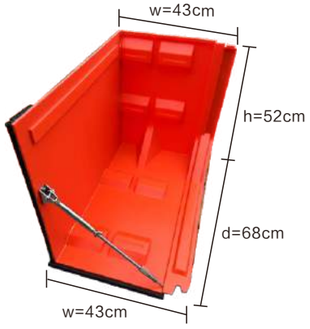
FN50



FW50



FGL50（R）



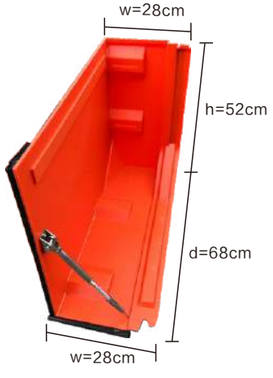
FJ50



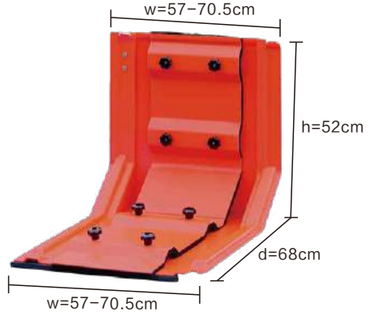
FGL50（L）



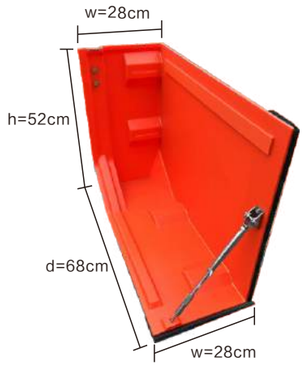
FG50（R）



FT50

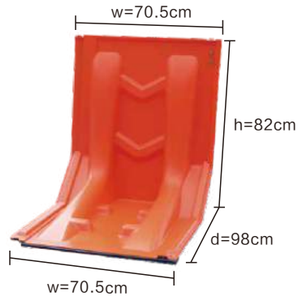


FG50（L）

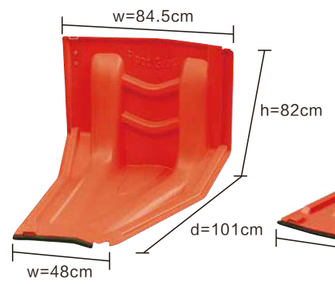


F80 SERIES

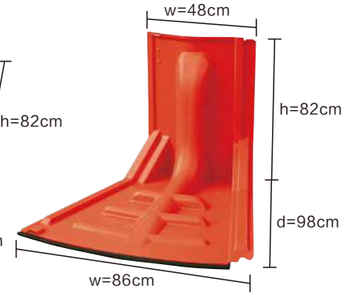
FZ80



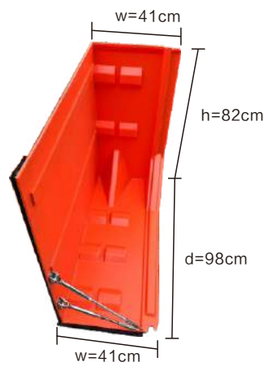
FN80



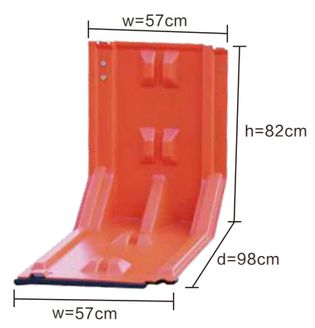
FW80



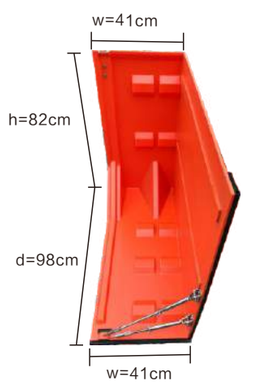
FGL80（R）



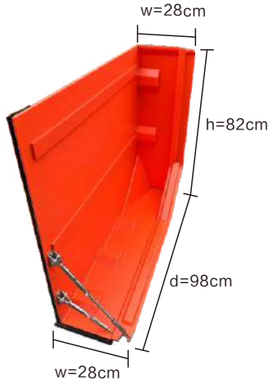
FJ80



FGL80（L）



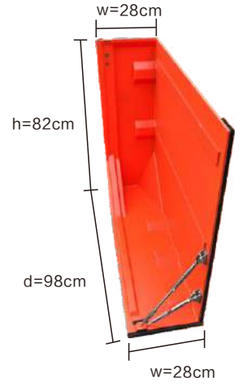
FG80（R）



FT80



FG80（L）















EXTENDING SERVICE SENARIO

Flood Guard Serving Fire Extinguish for Hybrid Vehicle



Our Korean customer successfuly applied the Flood Guard for extinguishing electric vehicle fires in June,2022.

The problem of fighting fires in electric vehicles has always been a headache. Because the battery of an electric vehicle is a closed whole, once a fire occurs, the water can't reach the fire source, and can only control the fire in the periphery to prevent it from spreading. The Flood Guard can form a closed water tank around the vehicle, the fire hose injects massive water into the tank at the same time when it is in control of the fire, so that the electric car battery is completely submerged in the water, and the air is completely cut off so as to achieve the purpose of completely extinguish the fire!

Why it can considered for electric car fire extinguishing?

With the continuous progress of science and technology and the increasing awareness of environmental protection, the popularization of electric vehicles is gradually accelerating. In the case of the gradual increase in electric vehicles, the corresponding number of electric vehicle accidents is also increasing rapidly. For this reason, and in the rapid growth. We believe that the disaster accidents of new energy vehicles, especially electric vehicles, will become one of the common disaster situations faced by the fire brigade in the future and should be studied.



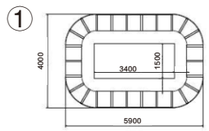




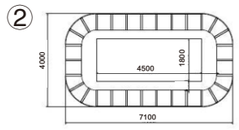


In April 2022, an electric vehicle spontaneously combusted on the auxiliary road of the Third Ring Road in Chengdu, with smoke rolling from the scene. After receiving the alarm, fire rescue personnel immediately rushed to the scene to fight. After 20 minutes of rescue, the fire was successfully extinguished, but the car has been "completely disfigured", but fortunately did not cause casualties!

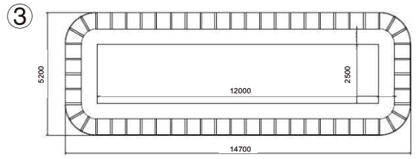
How it works for electric car fire extinguishing



① **Mini Vehicle**
L3.4m, W1.5m
FZ50: 14PCS
FN50: 12PCS



② **Regular Vehicle**
L4.5m, W1.8m
FZ50: 18 PCS
FN50:12PCS



③ **Large Vehicle**
L12m, W2.5m
FZ50: 46PCS
FN50:12PCS





How did it work?

Working Principle

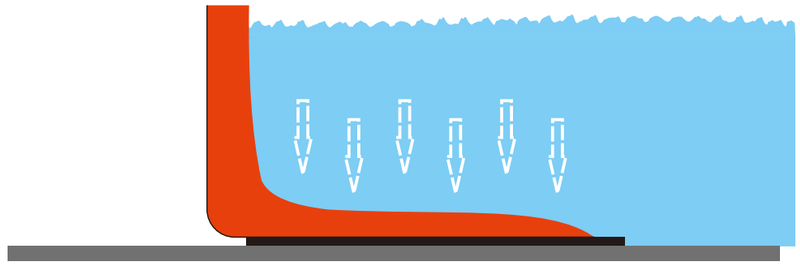
The boards are fixed tightly by the water weight above, and with the seals at the interface between board and ground, the higher the flood is, the more stable the full system would be（Inspired by the L-shape booking shelf）

Performance

The protrusion design on both front and bottom of the board, can slow down the velacity and distress the water pressure and change the water stream direction.

Key Seals

Well designed bottom seals can maximum prevent water speepage.



Fixing

The special design of the flood board maintains the balance of the system in flood, and expels the invading flood water and change its course. It can lower the impact to the flood board preventing being knocked down by water.