

# STOP THE FLOOD RIGHT HERE!



**JIANGYIN NEWFLAG TECHNOLOGY CO., LTD.**

**Flood Defence Solution Expert**

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# About Us

- Jiangyin Newflag Technology Co., Ltd., a sub-company of Huaneng Group, is a young star but professional expert in flood defence solution, located in Wuxi, Jiangsu Province where is the biggest hub of the most advanced and innovated technology in China, committing to reliable flood protection system to fight against the global flood risk for both commercial and water conservancy purpose. Our products include Demountable Aluminum Flood Barrier, Landscape Glass Wall Flood Barrier, Landscape Aluminum Flood Barrier and so on. 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.
- With the help of our own in-house structural engineering department, a professional sales team for international sales, as well as certified welders and fitters, we determines to offer high quality but affordable products to fighting against the flood risk. We offer satisfying service worldwide including pre-sales consultation, designing, engineering, supervising and constructing as well as after-sale Expertise accumulated in the passed years allows us to react accurately, quickly and flexibly to any of customers' specific needs to protect the home, business and properties from the flood risk.
- Customer relations are characterized by our straightforward and transparent approach to communications. Our main objective is always the satisfaction of our customers, who regard us as a trustworthy partner dedicated to meeting their needs, as well as a trustworthy partner who will always fulfill this trust with new product innovations.



# Advantage Of Demountable Flood Barrier

Posts and barrier panels in lightweight anodized aluminum with great corrosion resistance for long lifespan

Well designed and engineered structure with extremely high strength against flood

Height of flood defense adjustable at will, by partial installation of barrier panels.

Demountable and removable, landscape retained when no flood risk

EPDM seals on the posts and barrier panels to stop the water efficiently

Ground seal design in PE/PU, no ground frame required which makes the installation quick and easy

Quick, simple and safe installation and un-installation with a simple everyday tool

Maximum single spans can reach 6000mm

Unlimited length can be achieved with the installation of lightweight aluminum central posts





# Commercial Aluminum Demountable Flood Barrier

Commercial Aluminum Flood Barrier is applied for the front door, garage door, warehouse door, basement., ect of any residential or commercial properties to protect from the damage by the flood risk.

Comparing the flood protection systems for water conservancy projects, the Commercial flood protection systems finds the perfect balance among the safety, practicality and convenience. Our Aluminum Commercial Flood Barrier weights only 2.4kg/meter which could be lifted by single hand by an adult while safety performance guaranteed. And, in order to convenient the storage during the non-flood season, the aluminum barrier panels were designed as thin as 30-35mm to be place anywhere at your convenience.



# Main Structure

- ▶ Subassemblies of the system : End Posts, Barrier Panels, Pressing Tools, Seals as shown.





# Aluminum Demountable Flood Barrier for Water Conservancy Project

Aluminum Demountable Flood Barrier for Water Conservancy Project is applied for protection against the flood risk near mountains, rivers, lakes, even in the towns and cities which always concerns public safety.

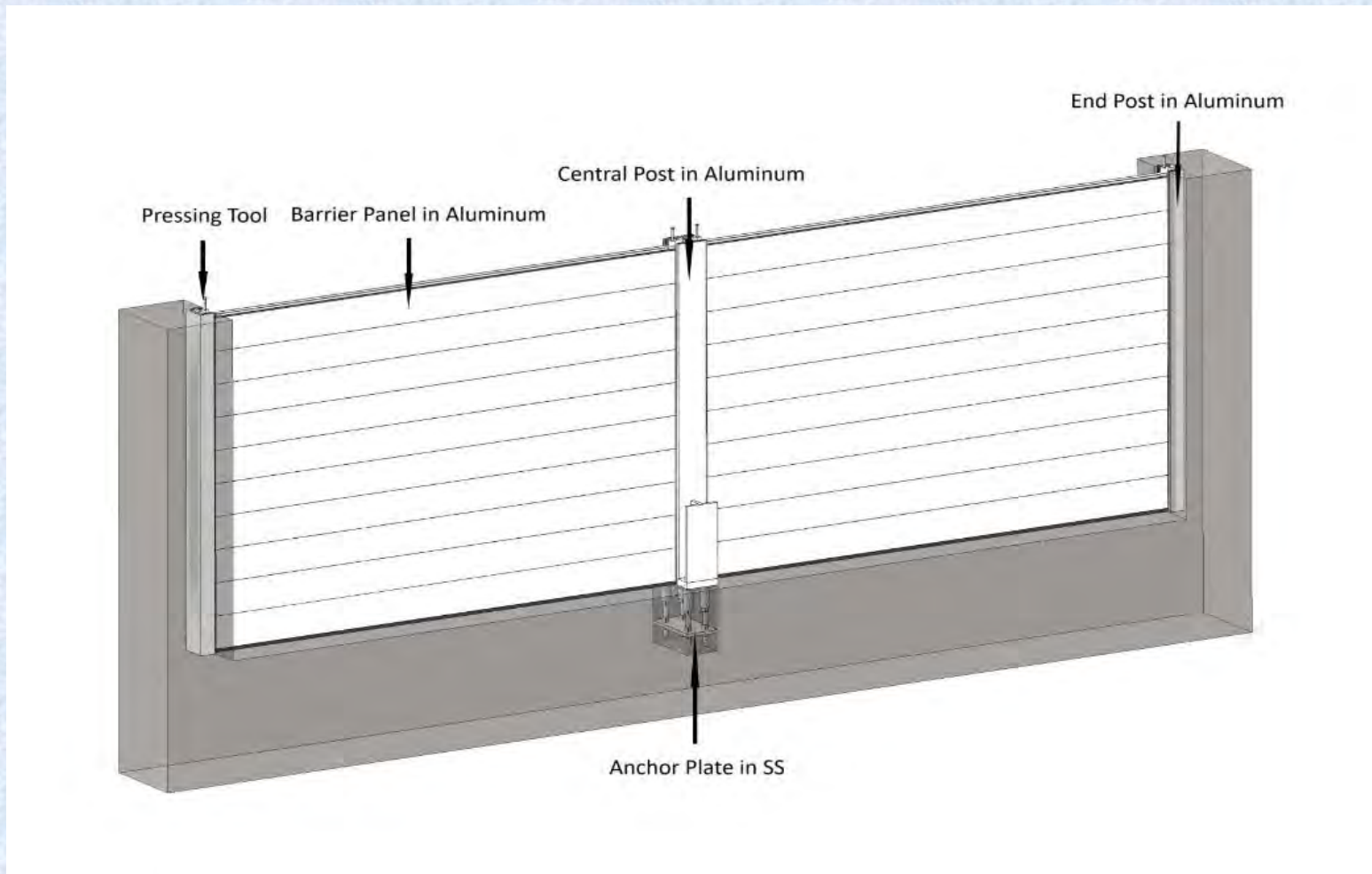
With the advantage of the reinforced lightweight but strength of the aluminum, together with the pre-embedded anchor plate in concrete foundation, it builds up an effective protection wall against the water. It overcomes the disadvantages of the traditional concrete protection wall which is fixed and immovable, with little artistic.

We adopted the 6063 and 6005 alloy and stainless steel 304 for the main structure, with a careful calculated and engineered thickness to achieve the best balance between super strength and lightweight.



# Main Structure

Subassemblies of the system : End Posts, Barrier Panels, Central Posts, Pressing Tools, Seals and Anchor Plates as shown.





# Glass Wall Flood Barrier

Parks, public utility, communities built alongside the mountain, river, lake, ocean with pleasant environment and beautiful view, are always facing the risk of flood during the annual flood season.

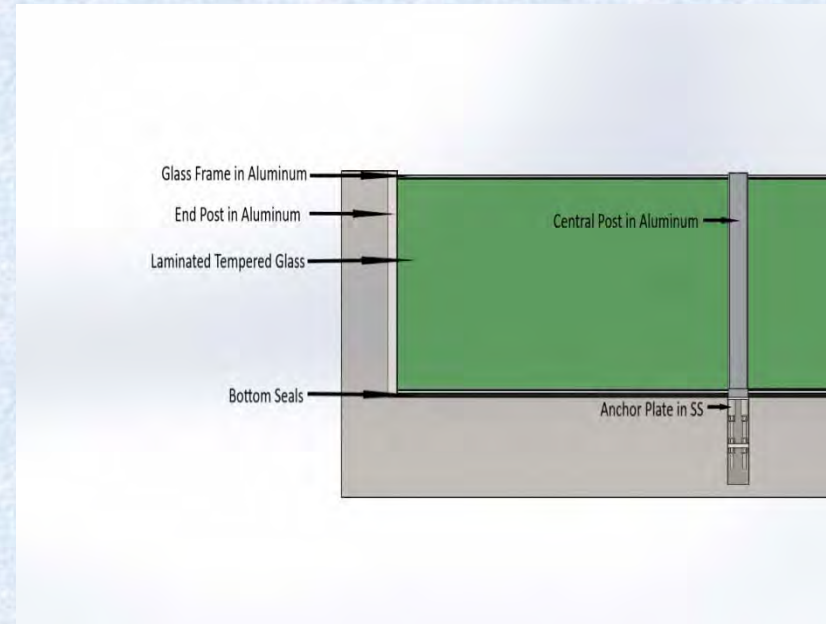
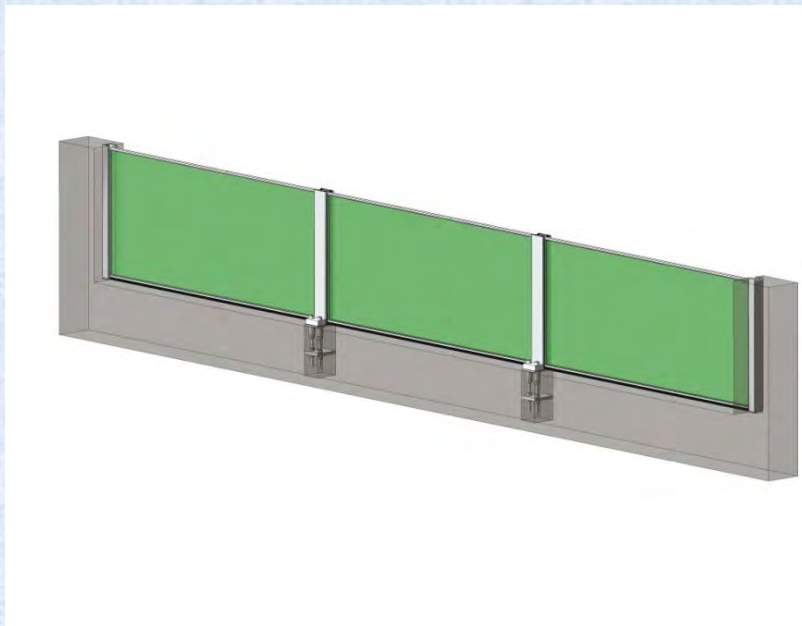
In order to reduce this loss of catastrophe and disaster, while retaining the pleasant landscape, or for application where permanent flood protection while lowest visual impact is required, Glass Wall Flood Barrier with a span in 3m and heights in 2m. is innovated. Compared with demountable aluminum flood barrier system which is easy to un-install and removable for storage, Glass Wall is a permanent fixed flood control system. After construction, there is no more extra maintenance work in later stage, only simple cleaning of the surface is required, which saves extra maintenance costs.





# Main Structure

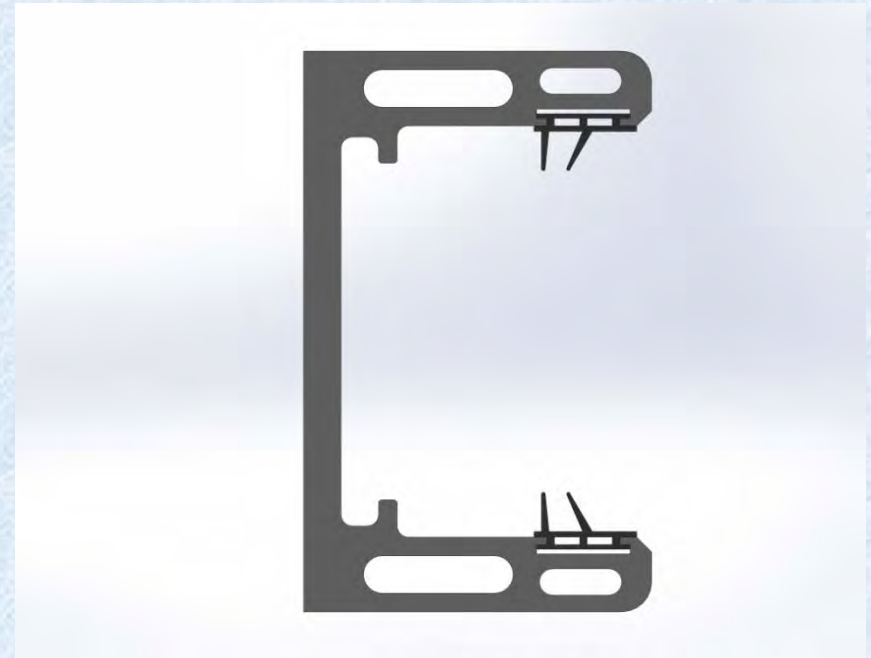
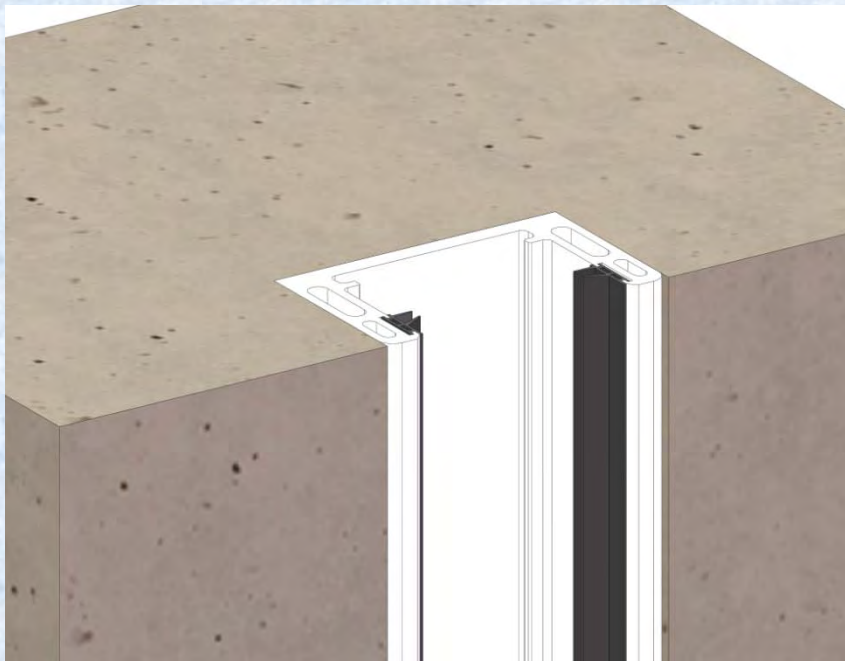
Subassemblies of the system : End Posts、 Laminated Tempered Glass 、 Glass Frames in Aluminum、 Central Posts、 Seals and Anchor Plates as shown.



# Details

## ▶ Aluminum End Posts

Material in aluminum alloy 6063, fabricated by customized extruded, aging, anodized and seal inserted.

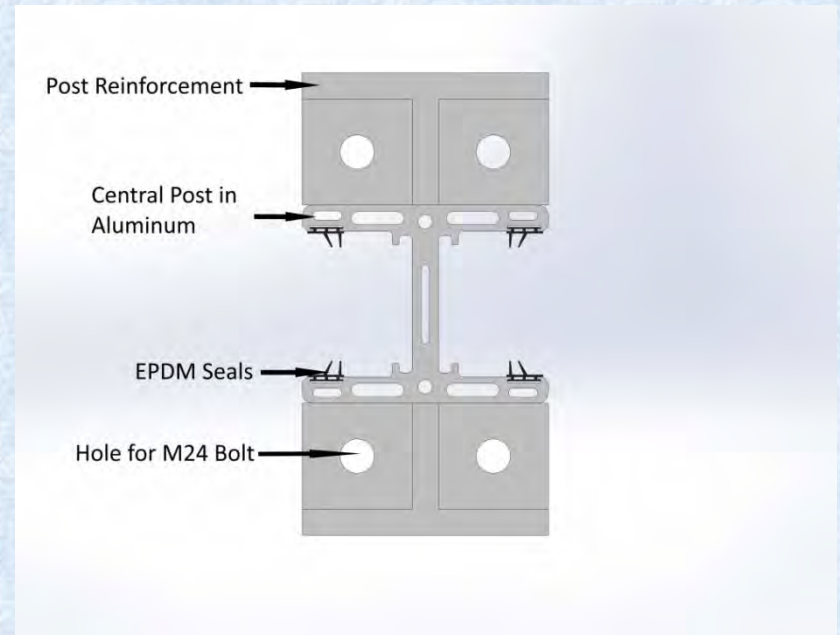
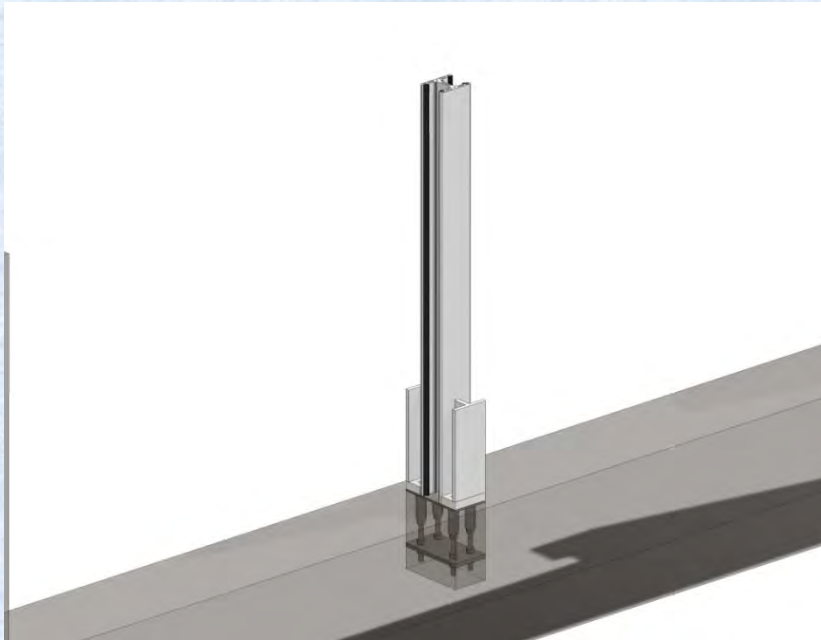




# Details

## ▶ Aluminum Central Posts

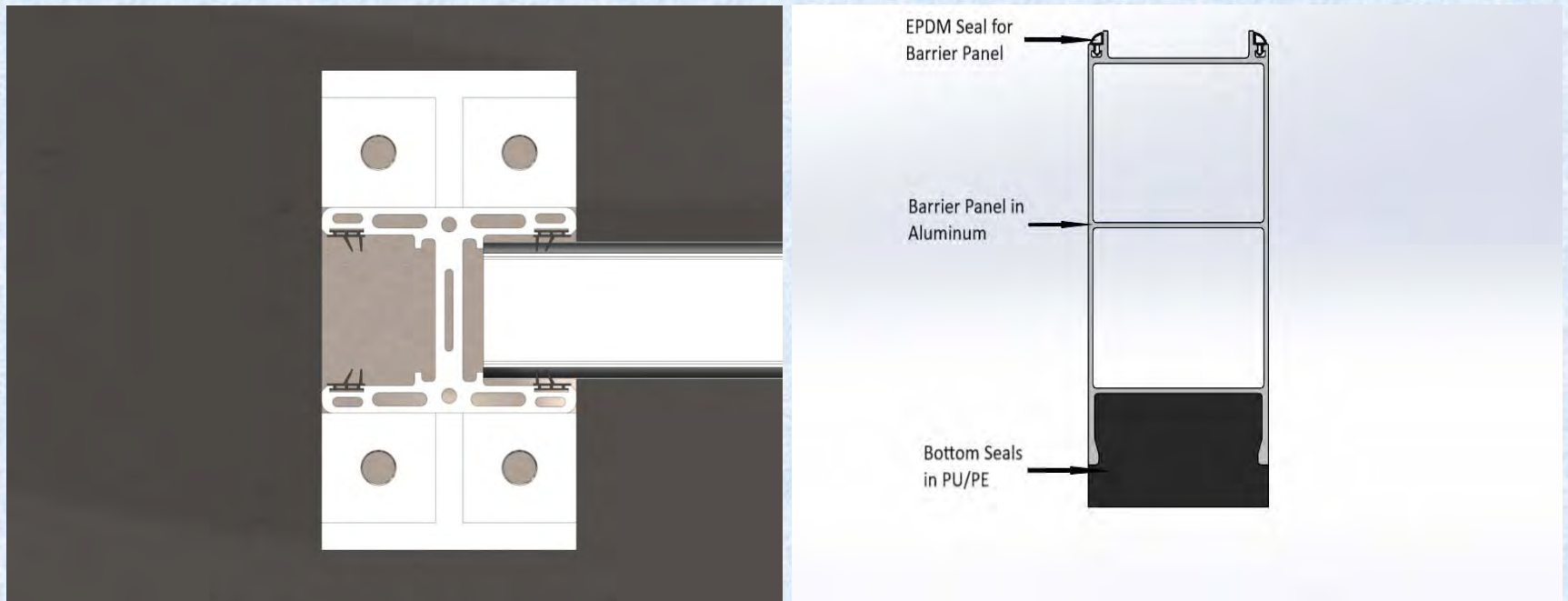
Material in aluminum alloy 6063 T5/T6(Commercial) and 6005 T5/T6(Project) selected after careful calculation on strength, fabricated by customized extruded, aging, anodized, cut and EPDM seal inserted. It consists of 3 parts as post, base and reinforcement, each part connected firmly by welding and mechanical process. The key welding process is done in argon arc welding, carried out by certified welders with years' experience in welding scope, 3 layer of welding guarantees the strength and safety against the flood.



## Details

### ▶ Aluminum Barrier Panels

Material in aluminum alloy 6063 T5/T6 selected after careful calculation on strength, done by customized extruded, aging, anodized, cut and EPDM seal inserted. With each panel of a height in 200mm, whole thickness from 30-100mm and wall thickness from 1.6-2.5mm to fit the central posts, the hollow structure in the middle gives the best lightweight -strength ratio. The maximum length of the each barrier panel can reach 6000mm, together with the central post offering connection and support, the total length for project can be unlimited. We offer standard 6000mm for delivery unless specific length requested by customer, the constructor can cut at will in the field according to the scene requirement.

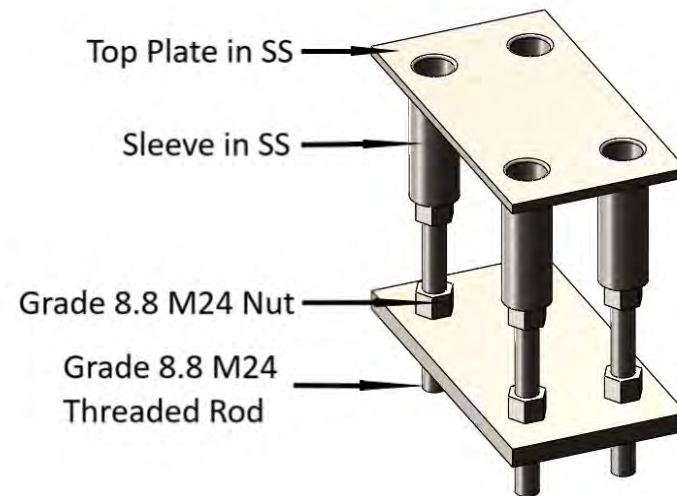
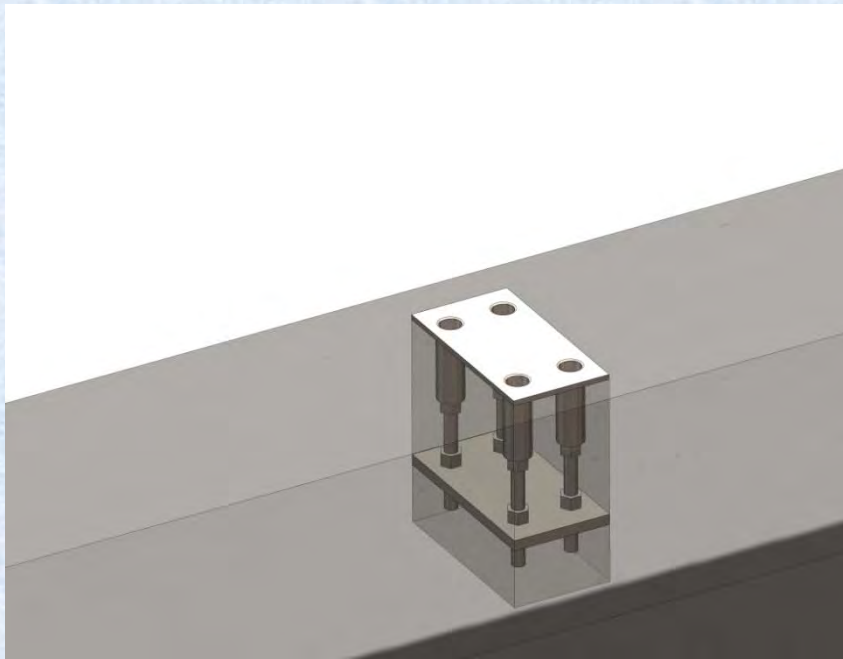




## Details

### ▶ Stainless Steel Anchor Plate

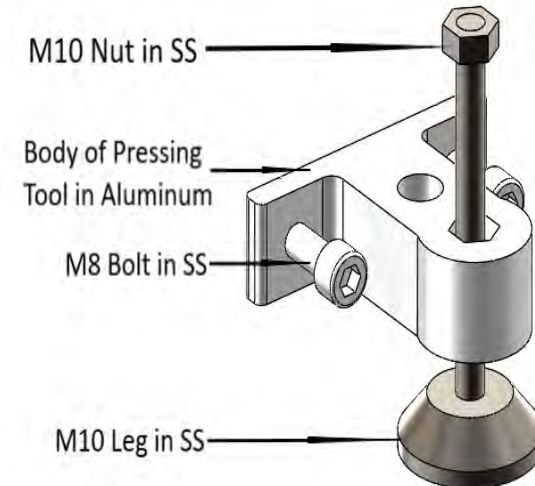
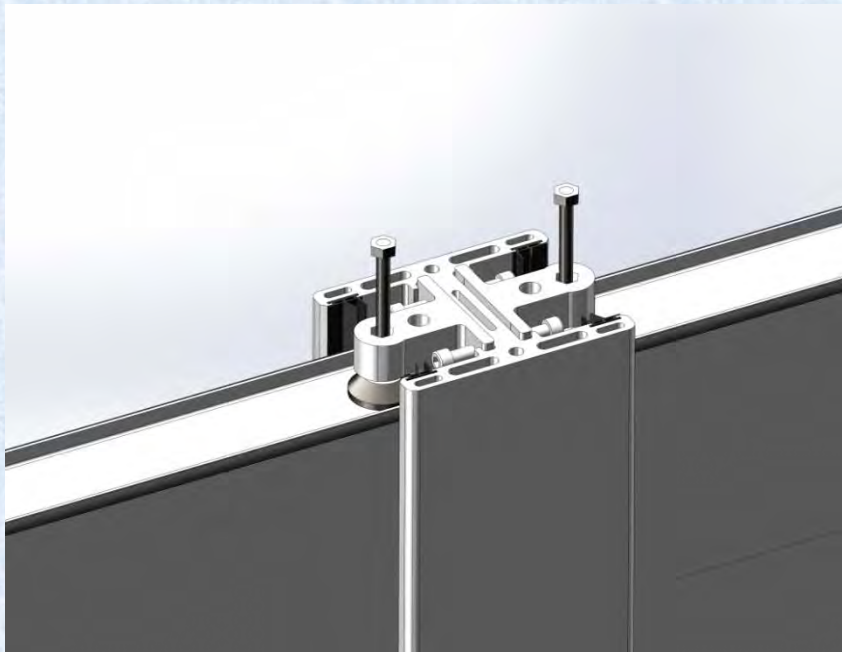
The stainless steel anchor plate consists of top plate, sleeve, threaded rod in SS304 and bottom plate in carbon steel, the top plate will be placed as horizontal as the surface of the concrete foundation, with the bolt and bottom plate welded with the steel reinforced bar in the foundation, the full anchor plate becomes integrated with the concrete reinforced foundation. During non-flood season, the M24 stainless steel protection bolt could be screwed into the sleeve to project from sand, mud and rubbish.



## Details

### ▶ Pressing Tools

Pressing tools are also called bracing tool or clamps, it generates the downward strength to the barrier panels, to keep water tight for the structure. It is optional in aluminum alloy extrusion or stainless steel SS304L. After the barrier panels sliding installed into the end and central posts, slide the pressing tools in and pressing lock the panels together with the posts, to ensure the water prevention for the finished project.

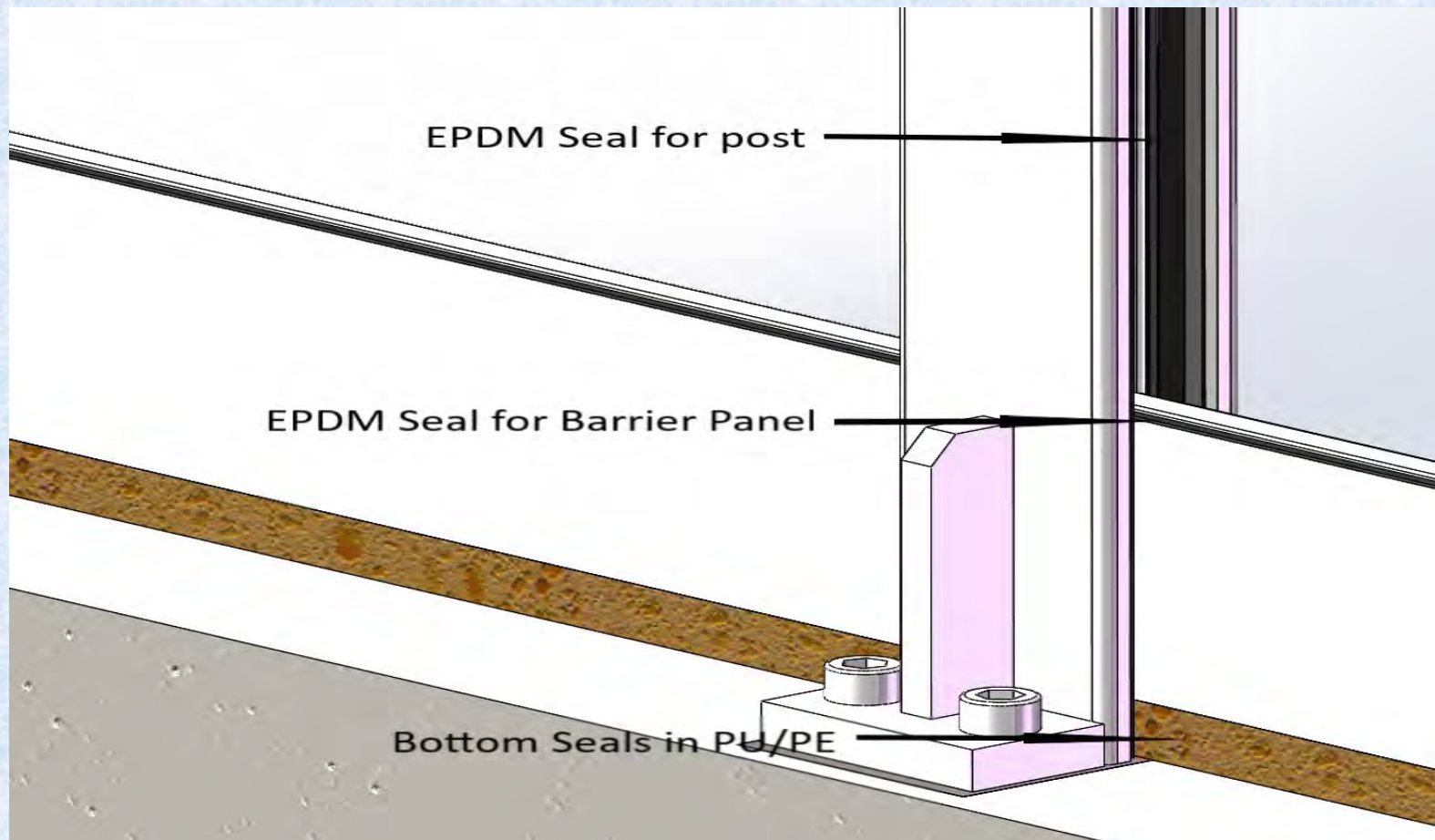




# Details

## ▶ Seals

Seals are the main parts to prevent the water, including post seals, barrier panel seals, ground seals. The material for post and barrier panel seals is EPDM (Ethylene Propylene Diene Monomer), and PE(Polyethylene) and PU(Polyurethane) composite combination for the ground seals.

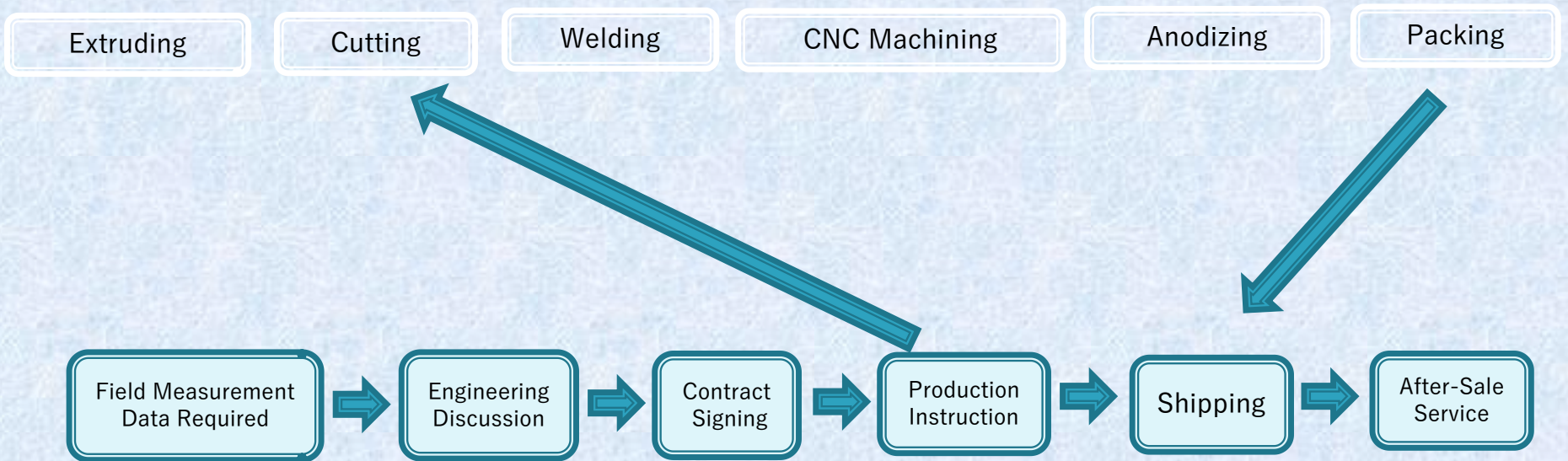


# Comparison between Solutions

| Product                 | Sandbags  | Aluminum Flood Barrier   | Glass Wall Flood Barrier  |
|-------------------------|---|--|---|
| Material Cost           | Low   | Middle   | Middle  |
| Installing Time         | Long  | Short  | Very short  |
| Labor                   | More  | Less   | Less  |
| Installing Cost         | More  | Less   | Less  |
| Environment             | A mess to clean up after flood                    | Remove easily for storage after flood,                         | Once for All  |
| Landscape               | Low   | Good   | Very Good   |
| Integrated Value        | Single Use  | Repeat Use   | Once for All  |
| Safety                  | Temporarily built                                 | Reliable after pre-calculated and engineered                   | Merged into the foundations, reliable after pre-calculated and engineered |
| Risk for Administration | Complex (sand resource, more labors, longer time) | Simple (one investment for storage, less labors, shorter time) | Very Simple, Zero risks after installation.                               |



# Work Flow



# Projects

- ▶ The exit and entrance of underground parking lot in Luoyang China



# Projects

- ▶ Flood defence project on public park square on Huai River in Shangdong Province, China





# Projects

- ▶ Dan River Flood Protection Project ( Area 3, Shouguang Section ) with flood defence height 4000mm.



# Projects

- ▶ Dan River Flood Protection Project (Area 4, Shouguang Section) with flood defence height 4000mm with back bracing supports.





# Projects

- ▶ Xinhua River Flood Protection Project in Zibo, China with flood defence height 3400mm with flood defence height 4000mm.





# Projects

- ▶ Riverside Park Entrance in Riverside North Road, Quanzhou, China.



# Projects

- ▶ Key entrance for Namlik 1-2 water station project in Laos





# Projects

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- ▶ The glass wall flood defence project on S325 road along Huai River.





# Quality

## ISO9001:2015 Quality Control in Production

ISO9001



### 质量管理体系认证证书


证书号: 37820Q11373R05

**兹证明**  
**江苏永景水利工程有限公司**  
统一社会信用代码: 91320211MA20PB86W  
注册地址: 江苏省无锡市湖滨街15号嘉湖科研大厦第十四层1402-242室  
邮编: 214071  
办公/经营地址: 江苏省无锡市惠山区玉祁镇祁北路和麒二路交叉口 邮编: 214123

管理体系符合标准  
**GB/T19001-2016 / ISO9001:2015**

认证范围  
**五金产品, 金属材料, 专用设备, 通用设备的销售**

在国家规定的各行政、资质许可有效期内使用有效。  
本证书持有者的质量管理体系持续符合上述标准的运行条件下, 认证有效期为三年。  
认证有效期: 2020年07月23日至2023年07月22日  
证书签发日期: 2020年07月23日  
(证书的有效性需经认证通过定期的监督审核确认保持; 证书有效信息请登陆国家认证认可监督管理委员会官方网站<http://www.cnca.gov.cn>和<http://www.cnesc.com.cn>进行查询; 本证书使用期限至2021年07月)





**欧瑞认证有限公司**  
中国·杭州·萧山钱江世纪城立丰商务中心2号楼2单元201室

ISO9001



### Quality Management System Certificate

Certificate No.: 37820Q11373R05

*Certify that*  
**Jiangsu Yongjing Water Conservancy Engineering Co. LTD**  
Unified social credit Code: 91320211MA20PB86W  
Registration Add.: Room 1402-242, the 14th Floor, Libu Scientific Research Building, 15 Hubin Street, Wuxi City, Jiangsu Province / Zip Code: 214071  
Office/Business Add.: The intersection of Qibei Road and Zenger Road, Yuqi Town, Huishan District, Wuxi City, Jiangsu Province / Zip Code: 214183

The management system is in conformity with standard  
**GB/T19001-2016 / ISO9001:2015**

SCOPE OF CERTIFICATION  
**Hardware products, metal materials, special equipment, general equipment sales**

*In the provisions of the state's administrative qualification with a valid license validity Subject to operation in consistent conformity with the above criteria this certificate valid for three years on effective date*  
Validity Of Certification: July.23,2020 To: July.22,2023  
Date of Issue/Reissue: July.23,2020  
*(The validity of the certificate shall be maintained by EuroSwiss certification through regular supervision and audit. Conditions on effectiveness of certificate see official website of Certification and Accreditation Administration of People's of Republic of China <http://www.cnca.gov.cn> and <http://www.cnesc.com.cn>. This certificate is valid until July 2021.)*





**EuroSwiss Certification Co., Ltd.**  
Room 2201, Unit 2, Building 1, Aconand Business Center, Ningwei, Xiaoshan, Hangzhou, P.R.C.

# Quality

## ▶ Test report on End Posts for Commercial

Issued by lab with China Inspection Body and Laboratory Mandatory Approval

江苏省建筑工程质量检测中心有限公司  
JIANGSU TESTING CENTER FOR QUALITY OF CONSTRUCTION ENGINEERING (Co., Ltd.)

MA  
171001060639

### 检测报告

TESTING REPORT

No: A01733602001484

产品名称  
PRODUCT NAME 装配式铝合金防洪墙中型边柱构件

工程名称  
PROJECT NAME /

委托单位  
CLIENT 江阴市纽锋科技有限公司

生产单位  
PRODUCING UNIT 江阴市纽锋科技有限公司

江苏省建筑工程质量检测中心有限公司  
JIANGSU TESTING CENTER FOR QUALITY OF CONSTRUCTION ENGINEERING (Co., Ltd.)

委托编号: 2043507 报告编号: A01733602001484

江苏省建筑工程质量检测中心有限公司

### 检测报告

报告编号: A01733602001484

|      |                   |      |                 |
|------|-------------------|------|-----------------|
| 产品名称 | 装配式铝合金防洪墙中型边柱构件   | 联系电话 | 13338785718 (朱) |
| 生产单位 | 江阴市纽锋科技有限公司       | 检测日期 | 2020年09月25日     |
| 检测依据 | GB/T 50344-2019 等 |      |                 |
| 检测内容 | 中型边柱构件强度检测        |      |                 |

**检测结论 (详细内容见报告正文)**

根据委托方的要求及其提供的技术文件,我中心对委托方提供的2组装配式铝合金防洪墙中型边柱构件分别进行静载和动载疲劳试验。经检测,所检构件满足设计工况下的正常使用要求,具体检测结果见下表所示。

| 检测项目     | 承载力 (kN) | 剪力 (kN) | 设计值 (kN) | 强度安全系数 |
|----------|----------|---------|----------|--------|
| 中型边柱强度检测 | 246      | 246     | 93.75    | 2.62   |
| 动载疲劳试验   | 245.4    | 245.4   | 93.75    | 2.62   |

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|      |             |                           |
|------|-------------|---------------------------|
| 检测   | 江晟、朱俊杰等     | 江苏省建筑工程质量检测中心有限公司<br>(盖章) |
| 编制   | 江斌          |                           |
| 审核   | 魏映秋         |                           |
| 批准   | 孙正华         |                           |
| 签发日期 | 2020年10月16日 |                           |

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本报告未贴中心防伪标识视为无效

委托编号: 2043507 报告编号: A01733602001484

### 一、概况

江苏省建筑工程质量检测中心有限公司受江阴市纽锋科技有限公司委托,于2020年9月25日对委托方提供的装配式铝合金防洪墙中型边柱构件强度进行检测。

### 二、主要检测依据

- 《建筑结构检测技术标准》GB/T 50344-2019;
- 委托方提供的技术文件。

### 三、主要检测仪器

| 仪器设备名称   | 型号        | 编号     | 检定有效期       |
|----------|-----------|--------|-------------|
| 管片加载试验系统 | JAW-1000D | FM4202 | 2021年09月14日 |
| 钢卷尺      | 5m        | LS0868 | 2021年03月10日 |

### 四、检测内容

#### 4.1 中型边柱强度检测

##### 4.1.1 中型边柱强度静载试验

1. 试验步骤

- 将中型边柱侧立于试验机上;
- 垫上压头垫块,调整中型边柱及垫块位置使其正对压头;
- 施加0.1kN的预荷载;
- 试验过程采用位移控制,加载速度为1mm/min,加载至构件发生明显的塑性变形;
- 记录力-位移曲线。

2. 试验现象

对中型边柱进行侧向加载,随着试验的进行,荷载不断上升,当荷载超过246kN左右,结构开始出现塑性变形。随着位移不断增加,荷载上升到峰值283.3kN左右,插槽板出现明显撕裂现象,随后荷载开始下降,撕裂部位扩大。试验现场照片及边柱破坏照片分别如图1、图2所示。

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# Quality

## ▶ Test report on End Posts for Commercial

Issued by lab with China Inspection Body and Laboratory Mandatory Approval

委托编号: 2043507 报告编号: A01733602001484



图1 中型边柱强度静载试验现场照片 图2 中型边柱强度静载试验边柱破坏照片  
根据试验结果, 绘制力-位移曲线如下图3所示。

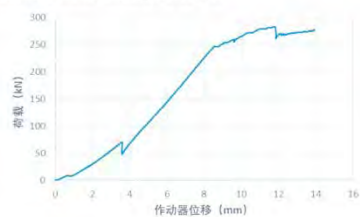


图3 中型边柱强度静载试验力-位移曲线

#### 4.1.2 中型边柱强度动载疲劳试验

##### 1、试验步骤

- (1) 将中型边柱侧立于试验机上;
- (2) 将作动器对准中型边柱中心位置, 施加 0.1kN 的预荷载;
- (3) 用位移计记录初始边柱中心点位置;
- (4) 采用位移控制, 以 0.5Hz 的频率进行 250 次施加荷载, 每次行程 1mm, 每个周期之间要将压力减小到 0。

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(5) 将压头行程继续增加 1mm, 进行下一周期的疲劳强度测试, 直至边柱产生明显的塑性变形或破坏。

(6) 记录每一个周期后中型边柱的变形量。

##### 2、试验现象

中型边柱在进行疲劳荷载测试时, 直至行程 8mm 前, 该试件处于线性阶段, 此时的最大荷载为 245.4kN。当行程到达 9mm 时, 荷载迅速下降, 观察边柱出现了明显的塑性变形, 插槽板出现撕裂。由此可知, 所检边柱可承受 245.4kN 的疲劳荷载, 且不会出现明显的塑性变形或破坏。

试验现场照片及边柱破坏照片分别如图4、图5所示。



图4 边柱强度动载疲劳试验现场照片 图5 边柱强度动载疲劳试验边柱破坏照片  
根据试验结果, 绘制力-位移曲线如下图6所示。

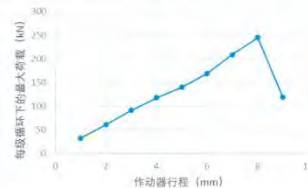


图6 边柱强度动载疲劳试验力-位移曲线

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委托编号: 2043507 报告编号: A01733602001484

### 五、检测结论

根据委托方的要求及其提供的技术文件, 我中心对委托方提供的 2 组装配式铝合金防冲墙中型边柱构件分别进行静载和动载疲劳试验。经检测, 所检构件满足设计工况下的正常使用要求, 具体检测结果见下表所示。

| 检测项目     |        | 承载力 (kN) | 剪力 (kN) | 设计值 (kN) | 强度安全系数 |
|----------|--------|----------|---------|----------|--------|
| 中型边柱强度检测 | 静载试验   | 246      | 246     | 93.75    | 2.62   |
|          | 动载疲劳试验 | 245.4    | 245.4   | 93.75    | 2.62   |

以下无正文

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# Quality

## ▶ Test report on End Posts for Water Conservancy Project

Issued by lab with China Inspection Body and Laboratory Mandatory Approval



江苏省建筑工程质量检测中心有限公司  
JIANGSU TESTING CENTER FOR QUALITY INSPECTION ENGINEERING (Co., Ltd.)

171001060639

# 检测报告

TESTING REPORT

No: A01733602001485

产品名称  
PRODUCT NAME 装配式铝合金防洪墙重型挡板构件

工程名称  
PROJECT NAME /

委托单位  
CLIENT 江阴市纽锋科技有限公司

生产单位  
PRODUCING UNIT 江阴市纽锋科技有限公司

江苏省建筑工程质量检测中心有限公司  
JIANGSU TESTING CENTER FOR QUALITY INSPECTION ENGINEERING (Co., Ltd.)

委托编号: 2043510 报告编号: A01733602001485

江苏省建筑工程质量检测中心有限公司

# 检测报告

报告编号: A01733602001485

|      |                   |      |                 |
|------|-------------------|------|-----------------|
| 产品名称 | 装配式铝合金防洪墙重型挡板构件   | 联系电话 | 13338785718 (朱) |
| 生产单位 | 江阴市纽锋科技有限公司       | 检测日期 | 2020年09月23日     |
| 检测依据 | GB/T 50344-2019 等 |      |                 |
| 检测内容 | 重型挡板构件强度检测        |      |                 |

**检测结论 (详细内容见报告正文)**

根据委托方的要求及其提供的技术文件,我中心对委托方提供的2组装配式铝合金防洪墙重型挡板构件强度分别进行静载和动载疲劳试验。经检测,所检构件满足设计工况下的正常使用要求。具体检测结果见下表所示。

| 检测项目     | 承载力 (kN) | 弯矩 (kN·m) | 设计值 (kN·m) | 强度安全系数 |
|----------|----------|-----------|------------|--------|
| 重型挡板强度检测 | 42.1     | 18.95     | 6.25       | 3.03   |
|          | 38.55    | 17.35     | 6.25       | 2.78   |

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|      |             |   |
|------|-------------|---|
| 检测   | 汪晨、朱俊杰等     | 江苏省建筑工程质量检测中心有限公司<br>(盖章)<br>检验检测专用章<br>(3) |
| 编制   | 汪晨          |   |
| 审核   | 魏晓斌         |   |
| 批准   | 孙正华         |   |
| 签发日期 | 2020年10月16日 |   |

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**一、概况**

江苏省建筑工程质量检测中心有限公司受江阴市纽锋科技有限公司委托,于2020年9月23日对委托方提供的装配式铝合金防洪墙重型挡板构件强度分别进行静载和动载疲劳试验检测。

**二、主要检测依据**

- 《建筑结构检测技术标准》GB/T 50344-2019;
- 委托方提供的技术文件。

**三、主要检测仪器**

| 仪器设备名称   | 型号        | 编号      | 检定有效期       |
|----------|-----------|---------|-------------|
| 管片加载试验系统 | JAW-1000D | FM4202  | 2021年09月14日 |
| 钢卷尺      | 5m        | LS0868  | 2021年03月10日 |
| 直线位移传感器  | 5G105     | LA10108 | 2021年06月16日 |

**四、检测内容**

**4.1 重型挡板强度检测**

**4.1.1 重型挡板强度静载试验**

- 试验步骤
  - 将重型挡板置于试验机上并测量净跨长度为1.8m。
  - 垫上压头垫块,调整挡板及垫块位置使其正对压头。
  - 施加0.1kN的预荷载。
  - 试验过程采用位移控制,加载速度为1mm/min;加载至构件发生明显的朔形变形。
  - 记录一位移曲线。
- 试验现象

挡板的荷载曲线随着位移的增大而增大,此时构件基本处于线性阶段。当荷载上到42.1kN左右时,挡板开始屈服,随后荷载开始持续下降。

试验现场照片及挡板破坏照片分别如图1、图2所示。

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图1 挡板强度静载试验现场照片      图2 挡板强度静载试验挡板破坏照片

根据试验结果, 绘制力-位移曲线如下图3所示。

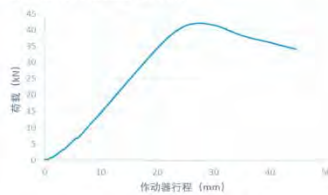


图3 挡板强度静载试验力-位移曲线

**4.1.2 重型挡板强度动载疲劳试验**

1、试验步骤

- (1) 将重型挡板置于试验机上并测量净跨长度为 1.8m;
- (2) 将作动器对准挡板中心位置, 施加 0.1kN 的预荷载;
- (3) 采用位移控制, 以 0.5Hz 的频率进行 250 次施加荷载, 每次行程 4mm, 每个周期之间要将压力减小到 0。
- (4) 将压头行程继续增加 4mm, 进行下一周期的疲劳强度测试, 直至挡板产生明显的塑性变形或破坏。
- (5) 记录每一个周期后挡板的变形量。

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2、试验现象

挡板在进行疲劳荷载测试时, 直至行程 32mm 时开始出现微小的塑性变形, 但不影响结构的正常使用, 此时的最大荷载为 38.55kN。当行程到达 44mm 时, 挡板出现了明显的塑性变形。由此可知, 重型挡板可承受 38.55kN 的疲劳荷载, 且不会出现明显的塑性变形。试验现场照片及挡板破坏照片分别如图 4、图 5 所示。






图4 挡板强度动载试验现场照片      图5 挡板强度动载试验挡板破坏照片

根据试验结果, 绘制力-位移曲线如下图 6 所示。

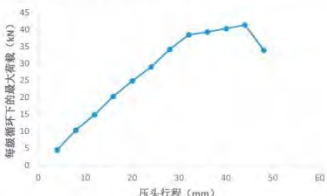


图6 挡板强度动载试验力-位移曲线

**五、检测结论**

根据委托方的要求及其提供的技术文件, 我中心对委托方提供的 2 组装配式铝合金防洪重型挡板构件强度分别进行静载和动载疲劳试验。经检测, 所检构件满足设计工况下

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的正常使用要求, 具体检测结果见下表所示。

| 检测项目     |        | 承载力 (kN) | 弯矩 (kN·m) | 设计值 (kN·m) | 强度安全系数 |
|----------|--------|----------|-----------|------------|--------|
| 重型挡板强度检测 | 静载试验   | 42.1     | 18.95     | 6.25       | 3.03   |
|          | 动载疲劳试验 | 38.55    | 17.35     | 6.25       | 2.78   |

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江苏省建筑工程质量检测中心有限公司

### 检 测 报 告

|           |            |      |                                     |      |                       |
|-----------|------------|------|-------------------------------------|------|-----------------------|
| 样品名称      | 铝合金挡板      | 委托单位 | 江阴市纽锋科技有限公司                         | 委托编号 | 2020-JT-080090        |
| 规格型号      | DB30       | 工程名称 | /                                   | 报告编号 | 20JT-08012(特)         |
| 生产厂家      | 无锡         | 建设单位 | /                                   | 委托日期 | 2020-08-07            |
| 生产日期/出厂批号 | //20200520 | 施工单位 | /                                   | 检测日期 | 2020-08-12~2020-08-18 |
| 样品数量/代表数量 | 1支//       | 监理单位 | /                                   | 报告日期 | 2020-08-18            |
| 样品状态      | 可检         | 检测设备 | FM4528 微机控制电液伺服万能试验机; LS0416 数显游标卡尺 | 检测依据 | GB/T 3880.2-2012      |
| 见证人/见证号   | /          | 检测环境 | 23℃                                 | 检测地点 | 红山路 107 号             |

### 检 测 结 果

| 序号 | 检测项目               | 单位  | 检测结果 |
|----|--------------------|-----|------|
| 1  | 规定非比例延伸强度 $R_{eL}$ | MPa | 237  |
|    |                    |     | 243  |
|    | 抗拉强度               | MPa | 255  |
|    |                    |     | 261  |
|    | 断后伸长率              | %   | 9.5  |
|    |                    |     | 10.0 |

**备注** 工程部位/用途: 挡水。

**报告说明**

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### 检测报告

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|           |            |      |                   |      |                |
|-----------|------------|------|-------------------|------|----------------|
| 样品名称      | 铝合金挡板      | 委托单位 | 江阴市纽锋科技有限公司       | 委托编号 | 2020-JT-080090 |
| 规格型号      | DB30       | 工程名称 | /                 | 报告编号 | 20JT-08015(特)  |
| 生产厂家      | 无锡         | 建设单位 | /                 | 委托日期 | 2020-08-07     |
| 生产日期/出厂批号 | //20200520 | 施工单位 | /                 | 检测日期 | 2020-08-14     |
| 样品数量/代表数量 | 1支//       | 监理单位 | /                 | 报告日期 | 2020-08-14     |
| 样品状态      | 可检         | 检测设备 | CO0201 固定式金属分析光谱仪 | 检测依据 | GB/T 7999-2015 |
| 见证人/见证号   | /          | 检测环境 | 23℃               | 检测地点 | 红山路 107 号      |

### 检测结果

| 序号 | 检测项目 | 单位 | 检测结果 |
|----|------|----|------|
| 1  | Si   | %  | 0.49 |
| 2  | Fe   | %  | 0.25 |
| 3  | Cu   | %  | 0.03 |
| 4  | Mn   | %  | 0.01 |
| 5  | Mg   | %  | 0.52 |
| 6  | Cr   | %  | 0.02 |
| 7  | Ni   | %  | 0.01 |

**备注** 工程部位/用途：挡水。

**报告说明**

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江苏省建筑工程质量检测中心有限公司

### 检测报告

|           |            |      |                             |      |                       |
|-----------|------------|------|-----------------------------|------|-----------------------|
| 样品名称      | 铝合金挡板      | 委托单位 | 江阴市纽锋科技有限公司                 | 委托编号 | 2020-JT-080090        |
| 规格型号      | DB30       | 工程名称 | /                           | 报告编号 | 20JT-08014(特)         |
| 生产厂家      | 无锡         | 建设单位 | /                           | 委托日期 | 2020-08-07            |
| 生产日期/出厂批号 | //20200520 | 施工单位 | /                           | 检测日期 | 2020-08-10~2020-08-12 |
| 样品数量/代表数量 | 1支//       | 监理单位 | /                           | 报告日期 | 2020-08-12            |
| 样品状态      | 可检         | 检测设备 | TC0103 盐雾腐蚀试验箱; FM0747 电子天平 | 检测依据 | GB/T 7999-2015        |
| 见证人/见证号   | /          | 检测环境 | 24℃                         | 检测地点 | 红山路 107 号             |

### 检测结果

| 序号   | 检测项目   | 实测值  |             |
|------|--|--|-------------|
| 1    | 中性盐雾试验(NSS)<br>(48h)   | 试验前质量:2082g  | 试验后质量:2082g |
|      |  | 48h 后, 样品表面未出现红色锈蚀现象   |             |
| 备注   | 1、试验温度:35℃。盐雾收集器 1#—80cm <sup>2</sup> 的水平面积的平均沉降率 1.3mL/h; pH 值(收集溶液) 6.9; 氯化钠溶液的浓度(收集溶液) 50g/L; 盐雾收集器 2#—80cm <sup>2</sup> 的水平面积的平均沉降率 1.3mL/h; pH 值(收集溶液) 6.9; 氯化钠溶液的浓度(收集溶液) 51g/L。<br>2、工程部位/用途: 挡水。 |  |             |
| 说明   | 样品进行盐雾试验前后外观对比见附图 1、图 2  |  |             |
|      |  <p>图 1 盐雾试验前</p>  |  <p>图 2 盐雾试验后</p> |             |
| 报告说明 | 1. 若对本报告有异议, 请于收到报告之日起十五日内, 以书面形式向本中心提出, 逾期视为对报告无异议。<br>2. 报告未加盖本中心检验检测专用章或公章, 以及未加贴本中心防伪标记均为无效。<br>3. 经本中心同意复印的检验检测报告, 应重新加盖本中心检验检测专用章或公章后方为有效。   |  |             |

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### 检测报告


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|           |            |      |                                 |      |                       |
|-----------|------------|------|---------------------------------|------|-----------------------|
| 样品名称      | 铝合金立柱      | 委托单位 | 江阴市纽锋科技有限公司                     | 委托编号 | 2020-JT-080090        |
| 规格型号      | LZ40       | 工程名称 | /                               | 报告编号 | 20JT-08018(特)         |
| 生产厂家      | 无锡         | 建设单位 | /                               | 委托日期 | 2020-08-07            |
| 生产日期/出厂批号 | //20200520 | 施工单位 | /                               | 检测日期 | 2020-08-11~2020-08-14 |
| 样品数量/代表数量 | 1支//       | 监理单位 | /                               | 报告日期 | 2020-08-14            |
| 样品状态      | 可检         | 检测设备 | FM2006 摆锤式冲击试验机、LG1104 冲击试验投影仪等 | 检测依据 | GB/T 229-2007         |
| 见证人/见证号   | /          | 检测环境 | 24℃                             | 检测地点 | 红山路 107 号             |


### 检测结果

| 序号   | 检测项目  | 单位          | 检测结果     |
|------|---|-------------|----------|
| 1    | 夏比 V 型冲击吸收能量<br>KV <sub>2</sub> (+20℃)  | 平均值         | 15       |
|      |   | 单 值         | 16、13、16 |
| 备注   |   | 工程部位/用途：挡水。 |          |
| 报告说明 | 1.若对本报告有异议，请于收到报告之日起十五日内，以书面形式向本中心提出，逾期视为对报告无异议。<br>2.报告未加盖本中心检验检测专用章或公章，以及未加贴本中心防伪标记均视为无效。<br>3.经本中心同意复印的检验检测报告，应重新加盖本中心检验检测专用章或公章后方为有效。 |             |          |

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 江苏省建筑工程质量检测中心有限公司  
**检测报告**

|           |            |      |                   |      |                |
|-----------|------------|------|-------------------|------|----------------|
| 样品名称      | 铝合金立柱      | 委托单位 | 江阴市纽锋科技有限公司       | 委托编号 | 2020-JT-080090 |
| 规格型号      | LZ40       | 工程名称 | /                 | 报告编号 | 20JT-08016(特)  |
| 生产厂家      | 无锡         | 建设单位 | /                 | 委托日期 | 2020-08-07     |
| 生产日期/出厂批号 | //20200520 | 施工单位 | /                 | 检测日期 | 2020-08-14     |
| 样品数量/代表数量 | 1支//       | 监理单位 | /                 | 报告日期 | 2020-08-14     |
| 样品状态      | 可检         | 检测设备 | C00201 固定式金属分析光谱仪 | 检测依据 | GB/T 7999-2015 |
| 见证人/见证号   | /          | 检测环境 | 23℃               | 检测地点 | 红山路 107 号      |

**检测结果**

| 序号 | 检测项目 | 单位 | 检测结果 |
|----|------|----|------|
| 1  | Si   | %  | 0.57 |
| 2  | Fe   | %  | 0.17 |
| 3  | Cu   | %  | 0.08 |
| 4  | Mn   | %  | 0.01 |
| 5  | Mg   | %  | 0.61 |
| 6  | Cr   | %  | 0.02 |
| 7  | Ni   | %  | 0.01 |

|    |              |
|----|--------------|
| 备注 | 工程部位/用途: 挡水。 |
|----|--------------|



|      |  |
|------|--|
| 报告说明 | 1. 若对本报告有异议, 请于收到报告之日起十五日内, 以书面形式向本中心提出, 逾期视为对报告无异议。<br>2. 报告未加盖本中心检验检测专用章或公章, 以及未加贴本中心防伪标记均为无效。<br>3. 经本中心同意复印的检验检测报告, 应重新加盖本中心检验检测专用章或公章后方为有效。 |
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# Quality

## ▶ Test report on Central Posts for Water Conservancy Project

Issued by lab with China Inspection Body and Laboratory Mandatory Approval



江苏省建筑工程质量检测中心有限公司

### 检测报告

|           |            |      |                             |      |                       |
|-----------|------------|------|-----------------------------|------|-----------------------|
| 样品名称      | 铝合金立柱      | 委托单位 | 江阴市纽锋科技有限公司                 | 委托编号 | 2020-JT-080090        |
| 规格型号      | LZ40       | 工程名称 | /                           | 报告编号 | 20JT-08013(特)         |
| 生产厂家      | 无锡         | 建设单位 | /                           | 委托日期 | 2020-08-07            |
| 生产日期/出厂批号 | //20200520 | 施工单位 | /                           | 检测日期 | 2020-08-10~2020-08-12 |
| 样品数量/代表数量 | 1支//       | 监理单位 | /                           | 报告日期 | 2020-08-12            |
| 样品状态      | 可检         | 检测设备 | TC0103 盐雾腐蚀试验箱; FM0747 电子天平 | 检测依据 | GB/T 7999-2015        |
| 见证人/见证号   | /          | 检测环境 | 24℃                         | 检测地点 | 红山路 107 号             |

### 检测结果

| 序号   | 检测项目  | 实测值  |             |
|------|---|--|-------------|
| 1    | 中性盐雾试验 (NSS)<br>(48h)   | 试验前质量:6837g  | 试验后质量:6837g |
|      |   | 48h 后, 样品表面未出现红色锈蚀现象   |             |
| 备注   | 1、试验温度:35℃; 盐雾收集器 1#—80cm <sup>2</sup> 的水平面积的平均沉降率 1.3mL/h; pH 值 (收集溶液) 6.9; 氯化钠溶液的浓度 (收集溶液) 50g/L; 盐雾收集器 2#—80cm <sup>2</sup> 的水平面积的平均沉降率 1.3mL/h; pH 值 (收集溶液) 6.9; 氯化钠溶液的浓度 (收集溶液) 51g/L;<br>2、工程部位/用途: 挡水。 |  |             |
| 说明   | 样品进行盐雾试验前后外观对比见附图 1、图 2   |  |             |
|      |  <p>图 1 盐雾试验前</p>   |  <p>图 2 盐雾试验后</p> |             |
| 报告说明 | 1. 若对本报告有异议, 请于收到报告之日起十五日内, 以书面形式向本中心提出, 逾期视为对报告无异议。<br>2. 报告未加盖本中心检验检测专用章或公章, 以及未加贴本中心防伪标记均为无效。<br>3. 经本中心同意重印的检验检测报告, 应重新加盖本中心检验检测专用章或公章后方为有效。  |  |             |

批准



校核



检测



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# Vision Of Future

- ▶ Flood catastrophe is one of the major natural disasters that have been threatening human-beings since ancient times. Flood is normally caused by the water level rising up dramatically in the river, lake or water reservoir during the continuous and heavy rain season, the overflow or the destruction on the dam leads the failure of the expected water prevention function. Flood disaster causes major damage not only to agriculture, but also brings great loss to industry property and even people life. Flood disaster is always in high frequency, wide damage and makes the most serious impact on national economy. In recent years, along with the step of the global urbanization, the urban water-logging has become another serious problem, which causes traffic disruption, power outages, and even brought huge property losses and casualties in heavy rain.
- ▶ Included in the after-sales service, we are providing very comprehensive and people-orientated service according to the requirement of customers:
  1. Provide installation guidance and instructions, free online consultation throughout the construction process;
  2. Suggestion on storage warehouse location selection;
  3. Guidance on plan for flood season alert;
  4. Installation and adjusting training.





## Vision Of Future

- ▶ With the supported of our in-house engineering team which is young but enthusiastic in the flood control and defence scope, we have never stopped in upgrade and improvement on current projects as well as development and innovation for new products in future.

Note: The pictures in this section are for demonstration and reference for our plan in future.



Auto Flip Flood Barrier



Sliding Flood Barrier

# Vision Of Future



Flood-defence Lock Gate



# Vision Of Future



Swing Flood Protection Door

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