

FLOODPROOFING CERTIFICATE FOR NON-RESIDENTIAL STRUCTURES

The floodproofing of non-residential buildings may be permitted as an alternative to elevating to or above the Base Flood Elevation; however, a floodproofing design certification is required. This form is to be used for that certification. Floodproofing of a residential building does not alter a community's floodplain management elevation requirements or affect the insurance rating unless the community has been issued an exception by FEMA to allow floodproofed residential basements. The permitting of a floodproofed residential basement requires a separate certification specifying that the design complies with the local floodplain management ordinance.

| | | |
|--|--------------------|---|
| BUILDING OWNER'S NAME <i>OCEAN LAKES FAMILY CAMPGROUND</i> | | FOR INSURANCE COMPANY USE POLICY NUMBER COMPANY NAIC NUMBER |
| STREET ADDRESS (Including Apt., Unit, Suite, and/or Bldg. Number) OR P.O. ROUTE AND BOX NUMBER <i>6001 S. KINGS HWY</i> | | |
| OTHER DESCRIPTION (Lot and Block Numbers, etc.) <i>BATHHOUSE H</i> | | |
| CITY <i>MURTLE BEACH</i> | STATE <i>SC</i> | Zip Code <i>29575</i> |

SECTION I – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

Provide the following from the proper FIRM:

| COMMUNITY NUMBER | PANEL NUMBER | SUFFIX | DATE OF FIRM INDEX | FIRM ZONE | BASE FLOOD ELEVATION (in AO Zones, Use Depth) |
|----------------------|-------------------|----------|--------------------|-----------|--|
| <i>HOCKEY COUNTY</i> | <i>45051C0802</i> | <i>K</i> | <i>12-16-21</i> | <i>AE</i> | <i>12</i> |

Indicate elevation datum used for Base Flood Elevation shown above: NGVD 1929 NAVD 1988 Other/Source: _____

SECTION II – FLOODPROOFED ELEVATION CERTIFICATION (By a Registered Professional Land Surveyor, Engineer, or Architect)

All elevations must be based on finished construction.

Floodproofing Elevation Information:

Building is floodproofed to an elevation of *15.0* feet (In Puerto Rico only: _____ meters).

NGVD 1929 NAVD 1988 Other/Source: _____

(Elevation datum used must be the same as that used for the Base Flood Elevation.)

Height of floodproofing on the building above the lowest adjacent grade is *4.0* feet (In Puerto Rico only: _____ meters).

For Unnumbered A Zones Only:

Highest adjacent (finished) grade next to the building (HAG) _____ feet (In Puerto Rico only: _____ meters).

NGVD 1929 NAVD 1988 Other/Source: _____

(NOTE: For insurance rating purposes, the building's floodproofed design elevation must be at least 1 foot above the Base Flood Elevation to receive rating credit. If the building is floodproofed only to the Base Flood Elevation, then the building's insurance rating will result in a higher premium. See the Instructions section for information on documentation that must accompany this certificate if being submitted for flood insurance rating purposes.)

FLOODPROOFING CERTIFICATE FOR NON-RESIDENTIAL STRUCTURES

Non-Residential Floodproofed Elevation Information Certification:

Section II certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information

I certify that the information in Section II on this Certificate represents a true and accurate interpretation and determination by the undersigned using the available information and data. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.

| | | | | |
|---------------------------------------|-----------------------------|--|--------------------------|--|
| CERTIFIER'S NAME TOM MILLER | | LICENSE NUMBER (or Affix Seal) 04135 | | |
| TITLE PRESIDENT | | COMPANY NAME MILLER DESIGN SERVICES | | |
| ADDRESS P.O. BOX 31717 | CITY MYRTLE BEACH | STATE SC | ZIP CODE 29588 | |
| SIGNATURE | DATE 2/20/22 | PHONE 843 650-6798 | | |

SECTION III – FLOODPROOFED CERTIFICATION (By a Registered Professional Engineer or Architect)

Non-Residential Floodproofed Construction Certification:

I certify the structure, based upon development and/or review of the design, specifications, as-built drawings for construction and physical inspection, has been designed and constructed in accordance with the accepted standards of practice (ASCE 24-05, ASCE 24-14 or their equivalent) and any alterations also meet those standards and the following provisions.

The structure, together with attendant utilities and sanitary facilities is watertight to the floodproofed design elevation indicated above, is substantially impermeable to the passage of water, and shall perform in accordance with the 44 Code of Federal Regulations (44 CFR 60.3(c)(3)).

All structural components are capable of resisting hydrostatic and hydrodynamic flood forces, including the effects of buoyancy, and anticipated debris impact forces.

I certify that the information in Section III on this certificate represents a true and accurate determination by the undersigned using the available information and data. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.

| | | | | |
|---------------------------------------|-----------------------------|--|--------------------------|--|
| CERTIFIER'S NAME TOM MILLER | | LICENSE NUMBER (or Affix Seal) 04135 | | |
| TITLE PRESIDENT | | COMPANY NAME MILLER DESIGN SERVICES | | |
| ADDRESS P.O. BOX 31717 | CITY MYRTLE BEACH | STATE SC | ZIP CODE 29588 | |
| SIGNATURE | DATE 2/27/23 | PHONE 843-650-6798 | | |

Copy all pages of this Floodproofing Certificate and all attachments for 1) community official, 2) insurance agent/company, and 3) building owner.

OLFC BATHHOUSE H FLOOD PREPARATION PLAN

Facility Description

Ocean Lakes Family Campground (OLFC) is a 310 acre ocean front resort featuring 893 campsites and 2,554 annual lease sites with nearly a mile of beachfront located in Myrtle Beach, South Carolina. On an average summer day, OLFC has approximately 25,000 guests on the resort property. Among the many amenities provided to the guests are several public access bathhouses. Bathhouse H is currently being upgraded including the addition of two handicap accessible family restroom. This building currently exists within the boundaries of the AE 12 Flood Zone. As a consequence, the new Family Room components must meet FEMA regulations. Primary among them is that the occupied space which has a finished floor elevation of +11.0' MSL has to be floodproofed to an elevation of +15 MSL to comply with the freeboard elevation as mandated by Horry County. Among the measures provided to meet the floodproofing requirements are a continuous CMU exterior walls with all cells filled with concrete and applied waterproofing and certified metal flood shields to span across all door openings that lie in the freeboard area. A cut sheet from the manufacturer is attached herewith

Flood Plan

1. Within 48 hours of projected landfall of a named tropical storm or hurricane, the property owner and operator shall alert maintenance staff to begin storm preparation.
2. Maintenance staff shall inspect the following:
 - a. That all exterior doors are operable and that obstructions around all frames are removed and ready for installation of the door shields.
 - b. That the building CMU perimeter has not been breached or compromised with any wall penetrations.
3. Within 24 hours of projected landfall, maintenance staff shall install NGP Shields on pre-installed anchors at storefront and door openings. Deluge test with hose to ensure water tightness.
4. Prior to evacuation, inspect property to store and secure all loose items found on site.



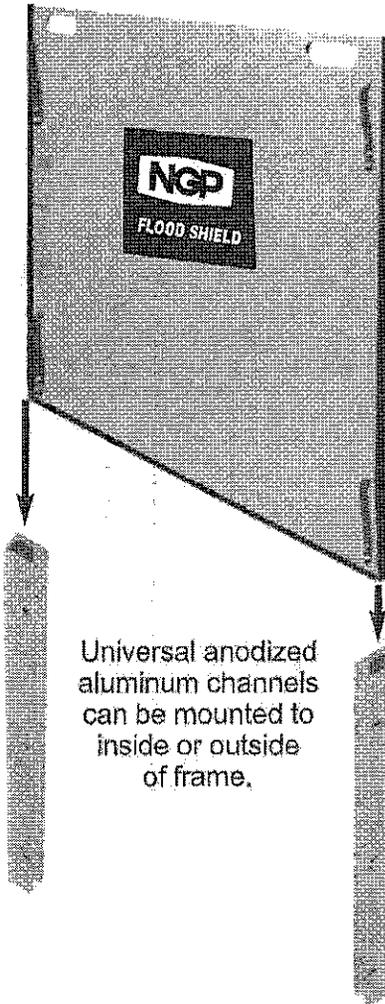
MADE IN USA

DOOR FLOOD SHIELD

Protect door openings & building contents
from flood water

Drop in and Go!

- Stainless steel springs provide constant seal compression.
- 1/4" Marine grade aluminum shield with handle cutouts.
- Closed cell neoprene rubber gaskets installed on bottom and sides of shield.



Universal anodized aluminum channels can be mounted to inside or outside of frame.

Available Now

FS10 . . . 10" high

FS22 . . . 22" high

FS34 . . . 34" high

* Up to 96" wide

* Over 50" support post recommended.

* Complies with guidelines of the
Federal Emergency Management Agency (FEMA) and
Federal Insurance and Mitigation Administration (FIMA)
for use on doors in flood prone areas.

**National
Guard
Products**

4985 East Raines Road

Memphis, TN 38118

Phone: (800) 647-7874

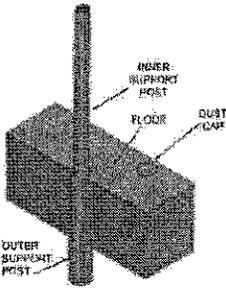
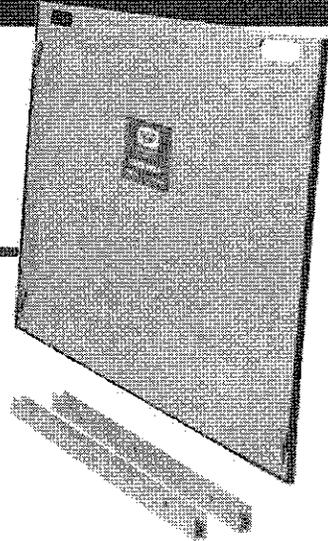
Fax: (800) 255-7874

www.ngp.com

Flood Shield

Installation Instructions

1. Position mounting channels with radius corners up, in desired location with larger holes facing exterior.
2. With channels vertically aligned, mark screw holes.
3. Drill pilot holes for screws using 9/64" drill bit.
4. Apply continuous bead of waterproof caulk to center of mounting side of channels.
5. Install channels with screws provided.
6. Caulk bottom outer edges of channels to floor surface.



Optional Support Post: Bore 8" deep hole in floor surface for 1-1/2" O.D., outer support post, tangent to the center of the interior side of the plate. Install outer post in hole with top flush with floor surface. Cover with dust cap.

When inserting shield, remove dust cap and insert inner support post.

Operating Instructions

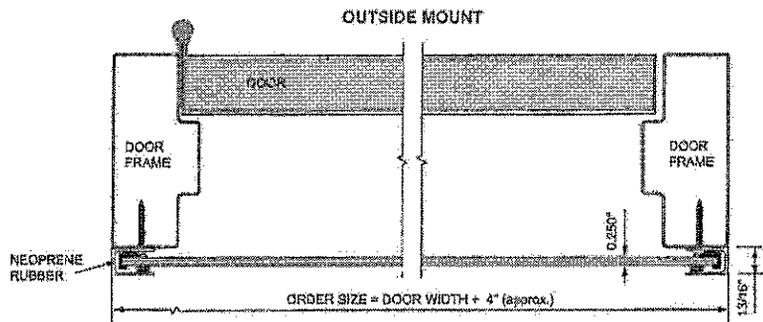
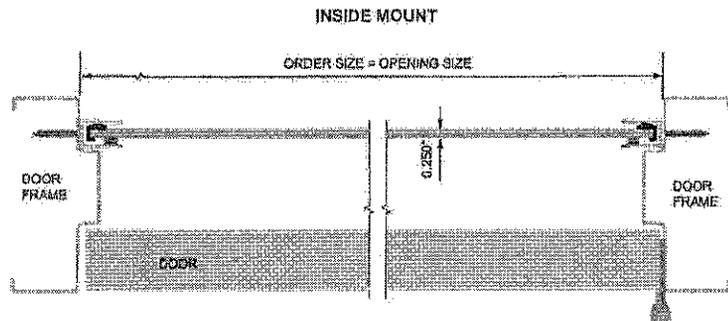
Inspect channels and floor surface to insure proper working condition.

Inserting Shield: With springs and label facing out, insert bottom of plate into channels.

Push outward to compress springs while lowering plate.

Removing Shield: While compressing springs to remove tension off the gasketing, pull straight up on plate to remove from channel.

Storing Shield: Store the shield plate indoors with no weight against the gasket.



Flood Shield

Flood Shield is designed to help protect door openings and building contents from flood water. This unique product features a spring mechanism that maintains constant tension against the gasketing to create a solid flood barrier.

- 1/4" Marine grade aluminum shield with handle cutouts.
- Closed cell neoprene rubber gaskets installed on bottom and sides of shield.
- Anodized aluminum mounting channels.
- Universal channels can install inside or outside mount.
- Dark bronze mounting channels available (specify).
- Stainless steel springs provide seal compression.
- #10 x 1-1/2" stainless steel sheet metal screws.

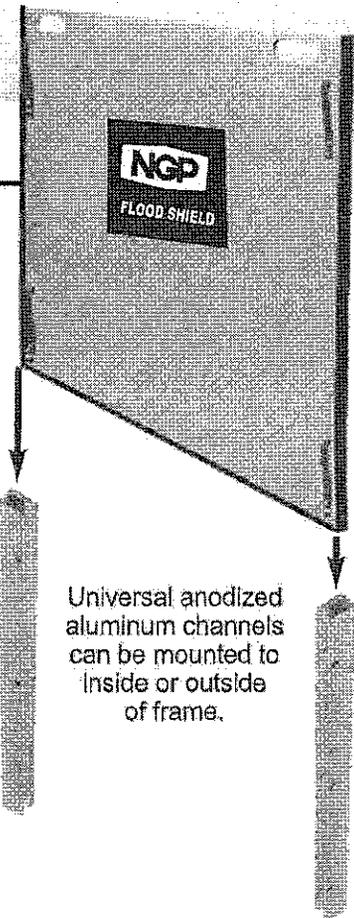
Complies with guidelines of the Federal Emergency Management Agency (FEMA) and Federal Insurance and Mitigation Administration (FIMA) for use on doors in flood prone areas.

Lengths up to 96" available.

Over 50" a center support post is recommended.

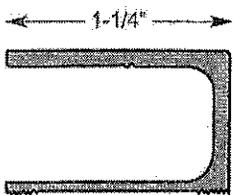
A threshold is recommended if sill is not smooth and clean.

Orders for this product are non-changeable and non-cancellable.

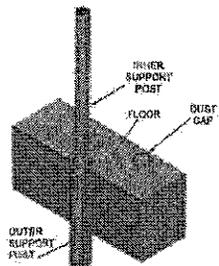


Universal anodized aluminum channels can be mounted to inside or outside of frame.

FS10 10" High
FS22 22" High
FS34 34" High

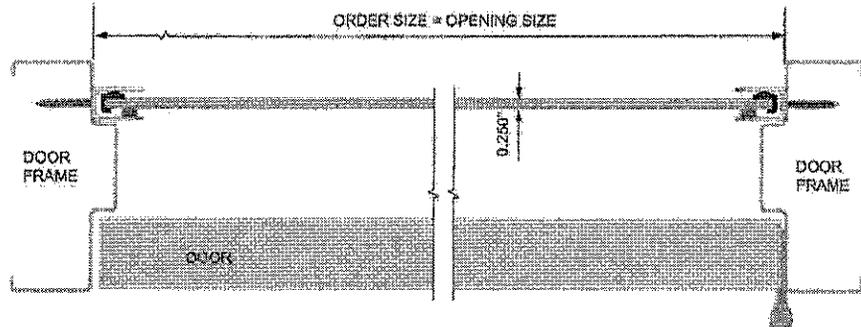


ANODIZED ALUMINUM MOUNTING CHANNEL

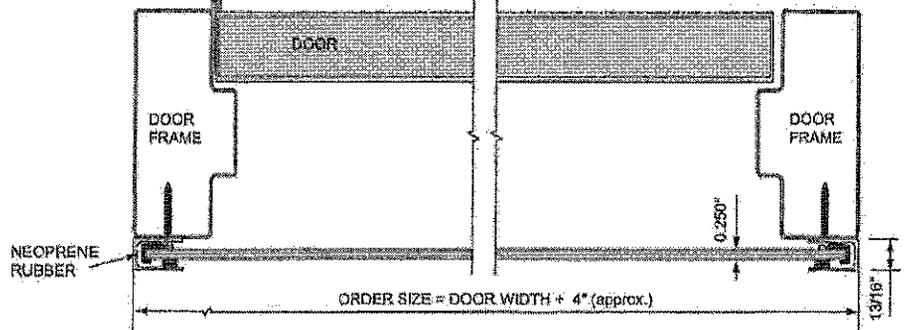


FSSP Optional Center Support & Cap

INSIDE MOUNT



OUTSIDE MOUNT



NATIONAL GUARD PRODUCTS, INC.

Phone 800-647-7874
Fax 800-255-7874

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quotes@ngpinc.com

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FLY