



FLOOD COVER SYSTEM

ENCAPSULATE. SEAL. PROTECT.

The **Flood Cover System** encapsulates critical equipment inside a custom-fabricated PVC-coated cover and seals it to the concrete slab beneath. A reinforced fiberglass base frame is drawn down onto a neoprene gasket by hand-tightened stainless steel fasteners, compressing the gasket against the concrete to form a watertight ground seal. Each cover is fabricated to the measured dimensions of the asset it protects and installs in minutes without power tools.

CUSTOM FABRICATED

to each asset

INSTALLS IN MINUTES

no power tools required

WATERTIGHT GROUND SEAL

INSTALLS IN MINUTES

CUSTOM FABRICATED

DURABLE & REUSABLE

HOW IT WORKS



1 COVER

Place the custom cover over the equipment and seat the skirt on the slab.



2 INSTALL FRAME & TIGHTEN

Set the frame over the anchors and hand-tighten the knobs to compress the seal (once the gasket contacts the concrete, an additional 15 ft-lbs is required).



3 SEAL

The neoprene gasket is compressed to the concrete, creating a watertight ground seal.

KEY SPECIFICATIONS

Rated flood depth	Up to 5 ft of standing water	Fasteners	Stainless steel threaded rod, oversized SS washers, hand knob
Seal type	Neoprene compression gasket — watertight ground seal	Anchors	Stainless steel concrete anchors
Sizing	Custom fabricated to each item of equipment	Mounting surface	Concrete — 4 in minimum edge distance
Cover fabric	30 oz PVC-coated 1500-denier polyester scrim	Sealing area	4 in minimum continuous width — gasket footprint to mount and seal properly
Base frame	HDPE reinforced with fiberglass	Installation	Hand-tightened (+15 ft-lbs after gasket contact)
		Quality control	Every cover tested before it ships

ELECTRICAL SAFETY — DE-ENERGIZE BEFORE INSTALLATION

Covered equipment must be **de-energized before the cover is installed**, and must **not be re-energized until the cover has been removed and the equipment has been inspected**.

COVER FABRIC

30 oz high-adhesion full Panama — PVC-coated woven polyester scrim

Property	Value	Test Method
Base fabric fiber	Woven polyester scrim	—
Denier	1500 denier	—
Fabric count	26 warp / 27 weft	—
Overall weight	30 oz per square yard	—
Total thickness	0.9 mm	—
Construction	PVC outer / polyester scrim / PVC inner	—
Tensile strength (strip)	650 / 600 lbs/in	FS 191-5102
Elongation	30% / 38%	FS 191-5102
Adhesion	14 / 11 lbs/in	FS 191-5970
Tear strength	280 / 320 lbs/in	FS 191-5134
Sealing properties	Dielectric & thermal	—
Resistance	Mildew, rot and ultraviolet light	—
Fire performance	Fire retardant	—
Standard color	White (custom on request)	—

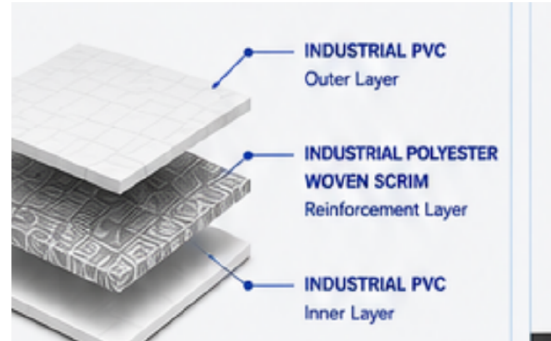
FIT & INTERNAL SUPPORT

The cover is fabricated so the fabric sits relatively close to the covered equipment. Where additional support is needed to carry the water load and hold the cover's shape, an **internal support frame can be supplied** to maintain structure and support beneath the cover.

MAINTENANCE & INSPECTION

- **Replace the gasket after every use.** Recommended — testing shows gaskets can be reused if stored and handled with care. Keep spares on site.
- **Inspect the cover before every deployment** for tears, holes, abrasion, seam separation and coating damage. Do not deploy a damaged cover.
- **Check the guards.** Confirm all supplied guards are present, undamaged and correctly fitted before the cover goes on.
- **Run an annual inspection and drill.** The owner should run an annual cover inspection and installation drill so personnel stay familiar with the product and procedure.
- **Store to protect the gasket and hardware.** Do not stack or store covers, frames or hardware in a way that compresses or damages the gasket, frame or fittings.
- **Inspect the hardware.** Check rod, knobs, washers and anchors for damage, corrosion or thread damage.
- **Clean and dry after every event** before folding and storing; store dry, out of direct sunlight.
- **Check the seal with a gauge** at every installation to confirm the gasket is fully and evenly seated.
- **Store dry, ventilated and off the ground.** Protect components from impact; store hardware in a controlled, dry environment.
- **Use only manufacturer-supplied fasteners.** Do not drill or penetrate any surface of the cover, frame or anchoring system without consulting Flood Risk America.

FABRIC CONSTRUCTION



BASE FRAME & HARDWARE

Base frame	HDPE reinforced with fiberglass
Gasket	Neoprene compression seal (single use)
Threaded rod	Stainless steel, hex end for tool engagement
Knob	Large plastic hand knob
Washers	Oversized stainless steel
Concrete anchors	Stainless steel, embedded in concrete
Edge guards	Supplied — fitted before the cover

SEALING SURFACE REQUIREMENTS

The bag and base frame are installed here — these requirements apply to the concrete surface the gasket seals against, around the full perimeter of the equipment.

- **Minimum 4 in edge distance.** The anchor and gasket line must sit at least 4 in from the nearest edge of the concrete slab, around the full perimeter.
- **Minimum 4 in sealing area.** The gasket footprint requires a continuous 4 in width of sound concrete to mount and seal properly.
- **Flatness tolerance: 1/8 in maximum.** The surface must not dip more than 1/8 in across the span of the seal — from one side of the frame to the other must be flat and level.
- **Sound surface.** No holes, gouging, spalling, open cracks or excessively rough finish under the gasket line.
- **Clean and free of debris.** Remove dirt, sand, silt, vegetation, coatings and loose material before the gasket is set.
- **No sharp edges.** The supplied guards must be installed over any sharp surface before the cover is fitted, to prevent cutting the bag.

SYSTEM ANATOMY



FASTENER SYSTEM

Rod, washer and knob draw the frame onto the gasket.



SYSTEM CROSS-SECTION

The cover encapsulates the equipment; the base system clamps the cover skirt and gasket to the slab around the full perimeter.

SUBSTRATE & ANCHORING NOTES

- **Flood loads transfer to the equipment and foundation.** All hydrostatic and hydrodynamic loads on the cover are carried through the anchors into the equipment and its supporting slab. The cover system does not add structural capacity — confirming that the equipment and foundation can withstand these loads is outside Flood Risk America's scope and is the responsibility of others.
- **Cementitious substrate only.** Anchor into concrete or 8 in grout-filled CMU (ASTM C90). Any other substrate must be evaluated by Flood Risk America engineers before use.
- **Warranty condition.** Anchoring into a substrate other than concrete or grout-filled CMU without prior engineering review voids the warranty of the cover and anchoring system.
- **Sealed by others.** The slab area surrounding the equipment shall receive a waterproof sealer treatment prior to installation, by the building contractor.

IDEAL FOR



**ELECTRICAL
EQUIPMENT**



**FUEL &
GAS PUMPS**



GENERATORS



**COMMUNICATIONS
EQUIPMENT**



**INDUSTRIAL
EQUIPMENT**



**COMMERCIAL
FACILITIES**

Electrical panels and disconnects • Switchgear and transformers • Standby generators • Gas and fuel pumps • Parking meters and meter arms • Payment and ticket kiosks • Communications cabinets • Pumps, compressors and controls • Valve and pipe assemblies

INSTALLATIONS



**PAD-MOUNTED ELECTRICAL
EQUIPMENT**



**GAUGE-CHECKED SEAL AT EVERY
INSTALL**



CUSTOM BRANDING AVAILABLE



FITTING THE COVER



**VALVE ASSEMBLIES, INDIVIDUALLY
COVERED**



MULTIPLE ASSETS ON ONE RUN

Every cover is custom fabricated. Send us your equipment.

We need height, width, depth, slab dimensions and photos of the sealing surface.

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www.floodriskamerica.com