FLOOD CONTROL AMERICA FACT SHEET

Flood Control America (FCA) is the industry leader and a pioneer of removable flood barrier systems in the United States.

FCA's flagship product is the Invisible Flood Control Wall™ (IFCW), a removable flood wall that is erected only in the event of a flood.

- Established in 1997
- Hundreds of installations from coast-to-coast
- Completely manufactured in America
- The IFCW™ meets all U.S. Army Corps of Engineers design criteria for flood walls and has been utilized on several Corps of Engineers projects.

General Benefits:

- Preserves riverfront views, unlike permanent concrete walls and earth levees
- Environmentally friendly
  - Doesn't pollute waterways, unlike sandbagging.
- The IFCW can be erected by as few as two people, and is much less labor-intensive than sandbagging.
- Needs less maintenance than traditional flood control systems
  - Earth levees are constantly in danger from burrowing rodents and tunneling snakes as well as considerable erosion during flood times, both of which require vigilant observation and upkeep.
  - Concrete walls are vulnerable to the destructive forces of freeze and thaw, settling, and the expensive and annoying hassle of vandalism and graffiti.
- After the flood, the IFCW is easily demounted and stored.
- Since the IFCW™ is stored with its aluminum planks stacked neatly on top of each other, the required storage space is minimal.
- Customized to every project.

American-made Benefits:

- No delivery delays from parts coming from overseas or held up in customs, by port strikes, etc.
- FCA's components will never be subject to levies or sanctions based on shifting diplomatic relations with the U.S., which can result not just in long lag times but also huge price increases on replacement parts.
- Supports American workers and the U.S. economy.

How It Works:

- The system is composed of three main components: base plate embeds cast into a reinforced concrete foundation, galvanized steel posts, and the aluminum planks.

- The only component of the IFCW™ that remains when river levels are normal and the wall is stored is the concrete foundation with embeds.
- Only when waters rise does the rest of the wall have to be erected.
- In the event of a flood, a working crew of three people can install 1200 square feet of the IFCW™ in two hours.
  - Each plank weighs approximately five pounds per foot, so two workers can easily handle any IFCW™ plank (max. 20').
- The base plank features a specialized gasket that fully seals with the concrete foundation, creating a watertight seal.
- Extruded hollow aluminum planks with interlocking mating surfaces are stacked on top of the base plank.
- Patented aluminum planks seal with hard rubber gaskets and become side-thrust resistant with a unique tongue and groove design.
- The planks fill with water as flood height increases, creating further stability and integrity.

Applications:

- Perimeter walls
  - A perimeter flood wall is a removable flood protection system that is designed to be a free-standing wall. A perimeter flood wall may enclose an area, or it may tie into concrete flood walls or an earth levee.
- Closures
  - The flood wall closure is an application in which the overall flood protection system mainly comprises a concrete wall or earth levee, and the removable flood wall planks simply drop in a short span to close the system.
- Flood proofing
  - The flood wall system can be endlessly customized to protect doors and windows to help achieve dry flood proofing.

- Protects diverse properties:
  - Municipal buildings
  - Schools
  - Airports
  - Ballparks
  - Museums and other tourist attractions
  - Private businesses
  - Riverfront paths and districts

Projects:

The IFCW is in extensive use, with hundreds of installations across the United States and has been analyzed and accepted for use by the United States Army Corps of Engineers, with installations on many Corps of Engineers projects.

Sample projects protect:

- Louisville Slugger Field, Louisville, Ky.
- University of Iowa's Art Building West, Iowa City, Ia.
- St. Paul Downtown Airport, St. Paul, Minn.
  - one of the largest removable flood wall installations in the world, spanning runways on the banks of the Mississippi River
- T-Mobile, Bothell, Wash.
- Riverfront boardwalk in East Grand Forks, Minn.
  - Credited with revitalizing an area devastated by the 1997 Red River flood and spurring approximately $20 million in investment after project completion
- Quaker Oats, Cedar Rapids, Iowa
- Burnam Hall in Lincoln, Vt.
  - When Hurricane Irene flooded the New Haven River in 2011, the IFCW system held tight against nearly 4 feet of water.

Awards:

- Iowa Quality Initiative Structures Award - 18th Street Bridge - Waterloo, Iowa
- Minnesota Society of Professional Engineers presented FCA with the "Seven Wonders of Engineering in Minnesota Award for Distinguished Engineering Achievement 2000"
- U.S. Department of Commerce Economic Development Association (EDA) recognized the IFCW™ as one of its 5 major "success stories" of the 20th century.
- Virginia Polytechnic Institute and State University concluded that the IFCW™ system is the No. 1 alternative in its comprehensive flood control study, "Innovative Alternatives to Conventional Levees For Flood Protection."

Contact:

Bryan Fryklund, CFM
970-946-6679
bryan@floodcontrolam.com