



**US Army Corps  
of Engineers®**

## **Innovative Flood Fight Products (FACT SHEET)**

### **BACKGROUND:**

Omaha District Emergency Management is designated as the Multi-Regional U.S. Army Corps of Engineers (USACE) distributor of innovative flood fight technology products (Rapid Deployment Flood Wall, Hesco Bastion Containers, and PORTADAM). They will only be deployed in declared emergencies and upon request from the State for assistance and when their application is determined by the Corps.

### **LOCAL/STATE/SPONSOR RESPONSIBILITIES:**

- Provide labor to assemble, operate, disassemble & repackage material issued.
- Provide necessary equipment & fill material to assemble the flood fight products.
- Sign hand receipt for responsibility of issued products.

### **TYPES OF INNOVATIVE FLOOD FIGHT STRUCTURES:**

**1. RAPID DEPLOYMENT FLOOD WALL (RDFW)** is a granular filled, plastic grid unit that uses horizontal and vertical tabs to form a continuous structure. The product is shipped & stored in 50”x60”x40” crates containing 100 RDFW units per crate. The RDFW unit stands 48 inches wide and 8 inches tall. The units interlock horizontally and overlap to give a deployed width of 42 inches (3.5ft) per unit. An Excel Spreadsheet is available online @ <http://geocellsystems.com/estimator/>. To operate the spreadsheet, enter the length and height of the wall desired and the sheet will calculate the number of RDFW units and containers, and cubic yards of sand required.



**2. HESCO BASTION** concertainers are granularly filled, permeable membrane lined wire baskets that pin together to form a continuous structure. They are 4'H X 3'W X 15'L and are shipped flat-packed on pallets. Each pallet contains 5-6 concertainers per pallet. Each pallet would accommodate 75-90 lineal feet of floodwall.



**3. PORTADAM** consists of an impermeable membrane liner that is supported by a steel frame that pins together to form a continuous structure. The welded tubular steel framework support is packaged 20 per bundle and the flexible waterproof membrane comes in 50-100 lineal feet. Also included is the hardware (clamp, bolts, braces and ties) required in setup of the product. The hardware & installation instructions are containerized in pallets and will cover 100 lineal feet of PORTADAM. To construct 100 foot PORTADAM; (76) welded tubular steel framework supports are required as well as (1) 100 lineal foot flexible waterproof membrane. To construct a 90 degree corner an additional (6) welded tubular steel framework supports and hardware will be required.



## **TOOLS FOR CONSTRUCTION OF PRODUCTS:**

### **1. HESCO BASTION PRODUCT**

- 1. 100' MEASURING TAPE
- 2. BULLNOSE PLIERS - for removal of staples - two pair 3. AVIATION SNIPS 4. ADJUSTABLE PLIERS- large size 5. BOLT CUTTERS 6. SCISSORS - several pairs 7. BOX CUTTER 8. PRY BAR 9. LINEMAN PLIERS - at least two pair 10. ZIP TIES 11. CHAIN WITH HOOK - for pin removal, a pull bar is optional, a shovel handle or length of 2x4 may be used 12. LONG HANDLE SHOVELS

### **2. PORTADAM**

- Tin Snips
- 1/2 inch drive ratchet
- 3/4 inch short socket
- 3/4 inch comb wrench (box end / open end)
- metal banding with banding tool

### **3. NONE GIVEN FOR THE RDFW.**

## **INNOVATIVE FLOOD FIGHT PRODUCTS COMPANY CONTACT INFORMATION:**

### **GEOCELL SYSTEMS INC. (RDFW)**

**Al Arellanes**  
415-541-5300  
Pier 54 Terry Francois Blvd.,  
Suite 202  
San Francisco, CA 94107  
<http://www.geocellsystems.com/>

### **HESCO BASTION USA**

**Jared Lyons**  
985-345-7332  
47152 Conrad E. Anderson Dr.  
Hammond, LA 70401  
<http://www.hescobastion.com/index2.html>

### **PORTADAM, INC.**

**Bob Gatta**  
856-740-0606  
3082 S. Black Horse Pike  
Williamstown, NJ 08094  
<http://www.portadam.com/>