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External Strapping System  
Installation Guidelines

## STEP 1:

### Ratchet Mounting – No Mounting Fasteners Supplied

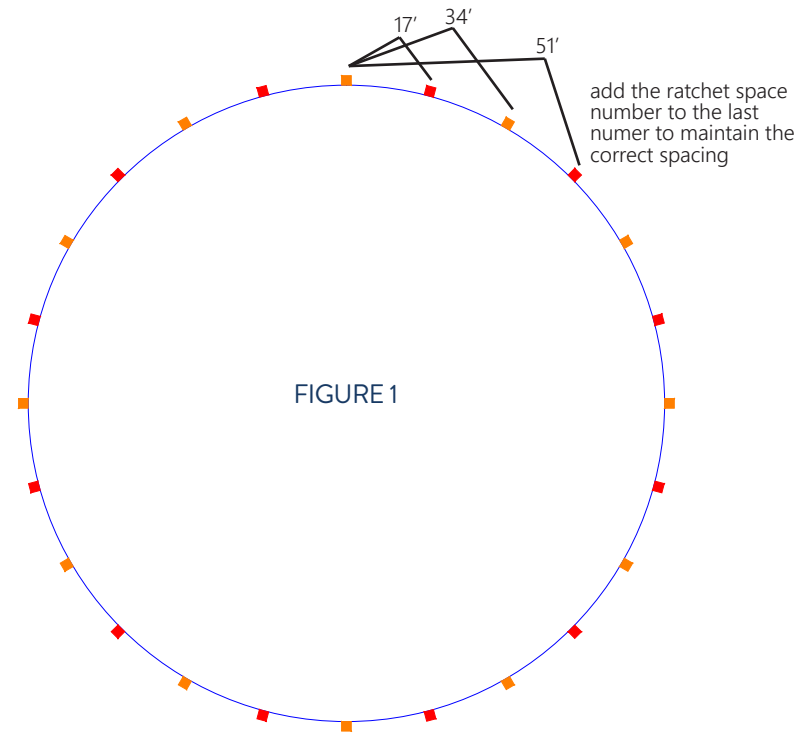
Use the appropriate type of bolt fasteners for your walls (wood, steel or concrete). Place the bolt through the 3/8" hole in the back of the ratchet. Allow swinging room for the ratchet handle.

When mounting the ratchets to the wall, first you need to determine the distance spacing of the ratchets.

Use your bunker circumference (diameter X 3.14) divided by the number of diamond straps to determine the ratchet spacing on the walls.

Sample:

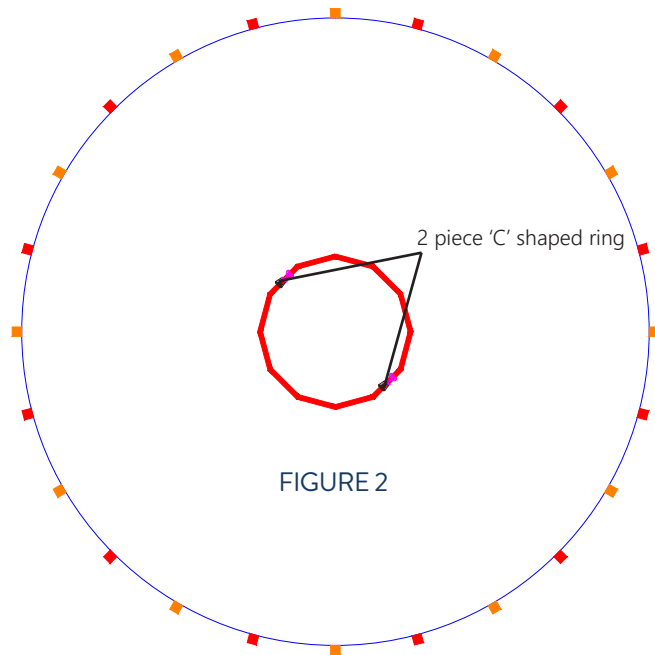
- 129' diameter times 3.14 equals 405'
- 405' divided by 15 ratchets equals 27'
- 27 + 27 = 54 + 27 = 81 + 27 = 108 and so on. Fasten the ratchets to the wall as close as they can be to the measurements that were calculated earlier (figure 1).



## STEP 2:

### Installing the "C" Shaped Ring

Near the top of the pile, unroll the 2 piece red "C" shaped straps and join them together to form a ring around the pile. This ring is used to space and secure the top end of the vertical diamond straps to the pile (figure 2).



## REFERENCE PHOTOS:



Photo 1 – Insert connectors into the slits in diapers.



Photo 2 – Roll the diaper edges towards each other.



Photo 3 – Insert the long bar of the Tee in the keyhole.



Photo 4 – Turn the Tee 1/4 run to lock.



Photo 5 – Webbing started



Photo 6 – Webbing tied to wall

## STEP 3:

### Installing the Diamond Straps

There are two different styles of diamond straps: longer white and black and shorter red and blue straps.

#### Installing the white and black diamond straps

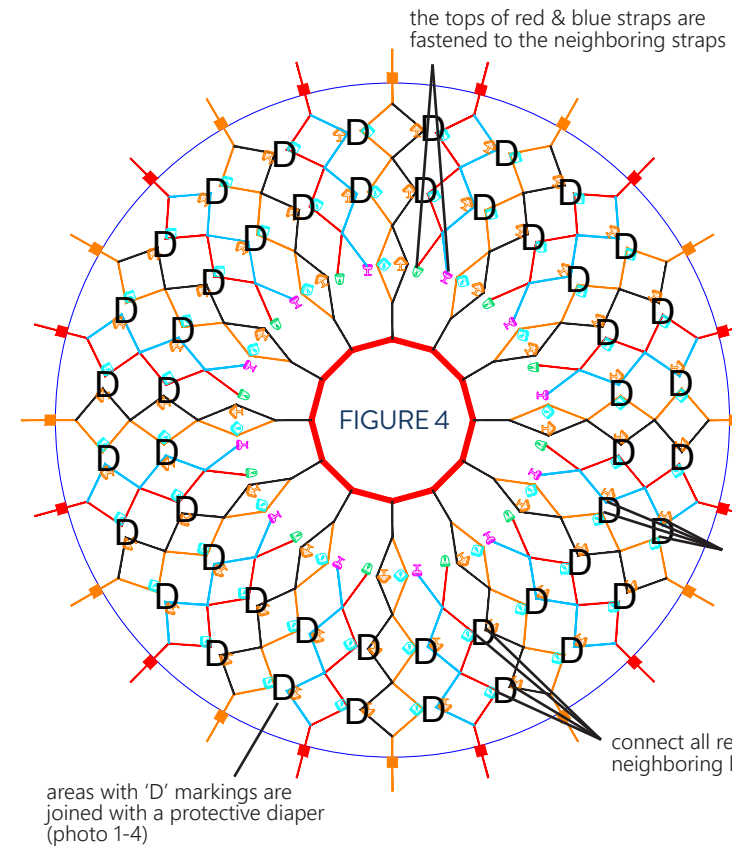
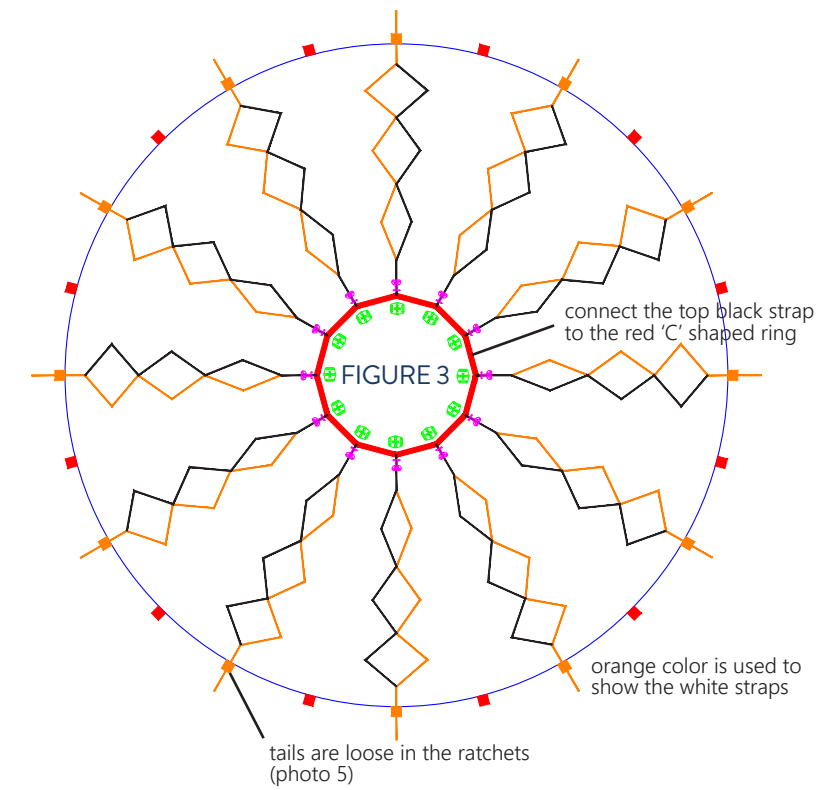
Unroll the white and black straps with the black ends to the top and connect the black end to the "C" shape strap. The white tails will be placed loosely in every other ratchet (figure 3). The color orange is used to represent the white straps.

#### Installing the red and blue diamond straps

Unroll the red and blue straps with the red and blue ends to the top. Connect the blue end to the white neighboring strap. The red end will connect to the black neighboring strap on the other side (figure 4). The red tails will be placed loosely in the remaining ratchets.

The other lower points will need to be connected to the neighboring straps (figure 4). These connections have a protective diaper you will need to add around them (photo 1 through 4).

Always connect blue to white and red to black. This forms the diamond shape for all of the straps.



## STEP 4:

### Tightening the Straps

In order to center the net over the pile, use the numbers on the straps to tighten the net evenly (photo 6). The numbers may vary from color to color. DO NOT over tighten the straps, they should just be SNUG. You may need to occasionally re-tighten your straps as the pile settles.