



### Step 1

The Muscle Wall will arrive with 12 walls of 4-foot units on each pallet. A full truckload of these 4-foot units will consist of 8 pallets, or 96 units. The 2-foot Extension System will come in pallets of 24 units per pallet.

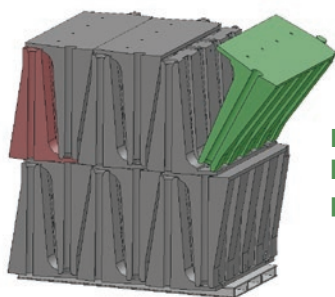
With a forklift or tractor unload trailer and strategically place bundles throughout area for deployment.



### Step 2

Determine where the Muscle Wall system will be installed. Unroll a Muscle Wall underlayment piece so the edge with the sleeve is where the back side of the Muscle Wall will need to be installed. Ensure that the underlayment is completely flat. The underlayment is necessary if deploying on concrete or asphalt.

**Last wall to be removed per row**



**First wall to be removed per row**

### Step 3

Always remove the upside-down wall first on each level. Always remove all of the walls from the top layer before removing any from the bottom layer. One person on each side lifts the wall up, freeing the securing pegs, then lowers the wall to a comfortable carrying position.



### Step 4

Begin setting Muscle Wall along the predetermined deployment area (on top of the Orange Underlayments). When connecting one wall to another, raise the Muscle Wall high enough to rest the edge on top of the connecting wall. Ensure the male and female ends are lined up and then slide the joint together. **Be sure to exercise proper lifting technique and to keep hands free of the joint while the Muscle Wall is sliding into place.**

**Faces toward water**



### Step 5

Be sure that the toe of the Muscle Wall is facing the water or material that is to be contained. Note that the Orange Underlayments have a small sleeve at the back, to allow for a wood brace to be slid into place. The wall should sit directly in front of this sleeve.



### Step 6

Cut a small slit on the back sleeve of the orange underlayments to slide the wood into place, if not already inside of the sleeve. Make sure that the wood inside the sleeve isn't covering the last, right side indent of the wall, eventually where the brace will sit. Also insure that you have access to the bung plug on the left side, as shown above.





### Step 7

Before filling the walls with water, identify the pallets containing the blue metal triangular braces. **If installing the system on concrete or asphalt**, slide the cleat onto the brace, so the center holes are aligned. Lay the brace and cleat on their side, and install the bolt, 2 washers, and nut to secure the cleat to the brace.



### Step 8

Bring the braces into place, resting the 90 degree bottom corner of the brace into the indent of the wall. In the bottom toe of each brace, a small tab is visible where the wall will rest on top of, locking the brace into place. When installing on concrete or asphalt, utilize the black non-slip pads underneath the cleat, as shown above.



### Step 8B

Each cleat has a corresponding metal stake and orange protective cap that can be used **if deploying on soil or in high wind areas**. Insert the stake through the middle hole of the cleat and through the hole in the brace, then use the stake driver to embed the stake in the ground, as shown above.



### Step 9

Identify the blue ratchet straps in the shipment and bring into place by inserting the strap through the square forklift hole kiss-through, around the front of the wall, back through the forklift hole of the corresponding wall, and directly through the A-Frame portion the brace, securing the neighboring walls together. Fasten the ratchet strap around the back end of the metal brace, as shown above. Repeat for all remaining walls.



### Step 10

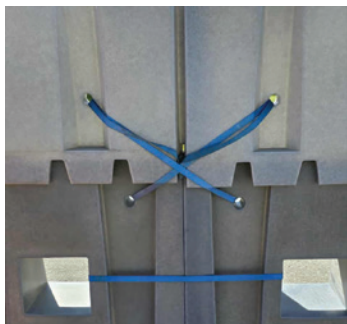
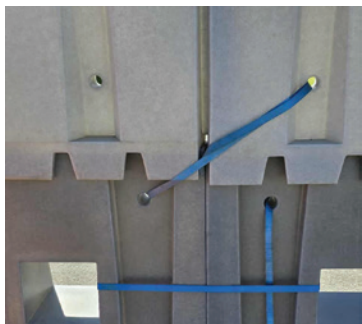
Using your preferred water source, fill each 4' Muscle Wall unit with water. Muscle Wall has a drilled-in drainage port to show when each wall is full.



### Step 11

Once the walls are filled to your required height, begin to place the gray 2ft Extensions on top of the walls, making sure they're in proper position with each hole and peg. Identify the totes where the remaining blue safety straps will be located.





### Step 12

2 safety straps per wall junctions will be used to secure the wall to the extension system, as shown above. Insert the straps through the through the Muscle Wall in the circle kiss-throughs to the front of the wall. Run the strap up and across to the neighboring extension piece, and through to the back, as shown above



### Step 13

When installing the safety straps, run them through each of their respective holes on the back side of the wall, and back through the front of the system in a diagonal fashion, making an X, as shown in the picture above. Ensure that the buckle of each strap is on the back-side of the wall, the side without the toe, as shown in the next picture. **Don't completely fasten the straps at this point.**



### Step 14

Ensure all straps are installed forming an X-Shape, as shown here. **Don't completely fasten the upper straps at this point, as the liner will need to be installed and secured with the strap as well.**



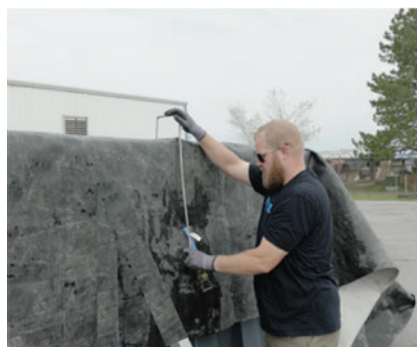
### Step 15

At this point, after all components of the system are in place, bring the liner into place and drape it over the top of the walls, about halfway down the back side of the system.



### Step 16

Cut two small slits in the liner to bring both the ratchets and end of the top 2 straps (from the extension piece) through the liner. Bring the straps and ratchets through the slits and tighten the ratchets, fastening the liner to both the wall and extension piece, this securely fastens the extension piece to the wall and liner.



### Step 17

Identify the thin metal liner clips in the shipment, and bring into place by placing a clip over each wall, approximately 1.5 feet to the right side of each brace. Ensure that the longer end of the liner clip is down the front of the wall.

### FINAL STEPS

Repeat the steps with the remaining braces, and liner clips.

**Ensure that each wall has a corresponding brace, cleat, straps, and clip, and that each extension, wall, and brace are strapped into place with each other.**



LINER SEALING GUIDES