

Step

1

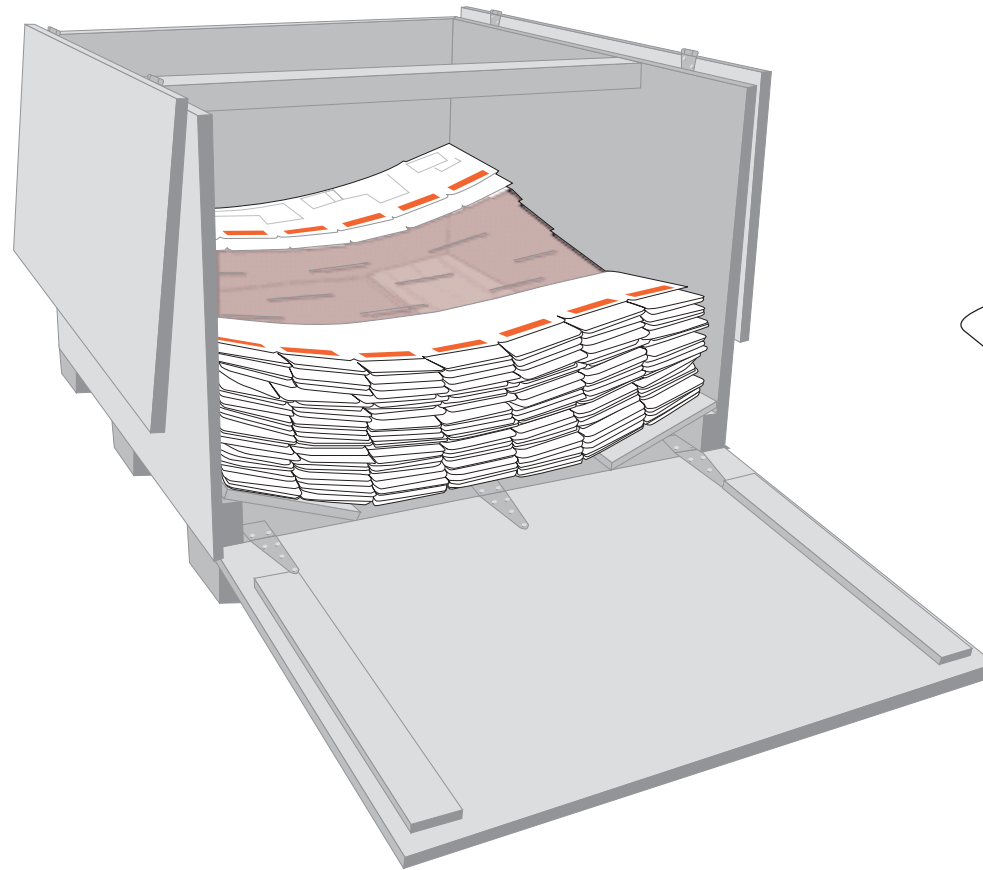
**Unpacking  
the Crate**

Your RDFW units arrive in crates of 100 units per crate.

Your RDFW crate may ship with pieces known as **End Closure inserts**. If so, set these units aside, as you may need them at the end of the construction process.

A team of two people is needed to lift each unit from the crate.

*A standard RDFW crate contains 100 RDFW units. The crate may or may not contain **end closure insert** pieces.*



Set **end closure inserts** aside for later.

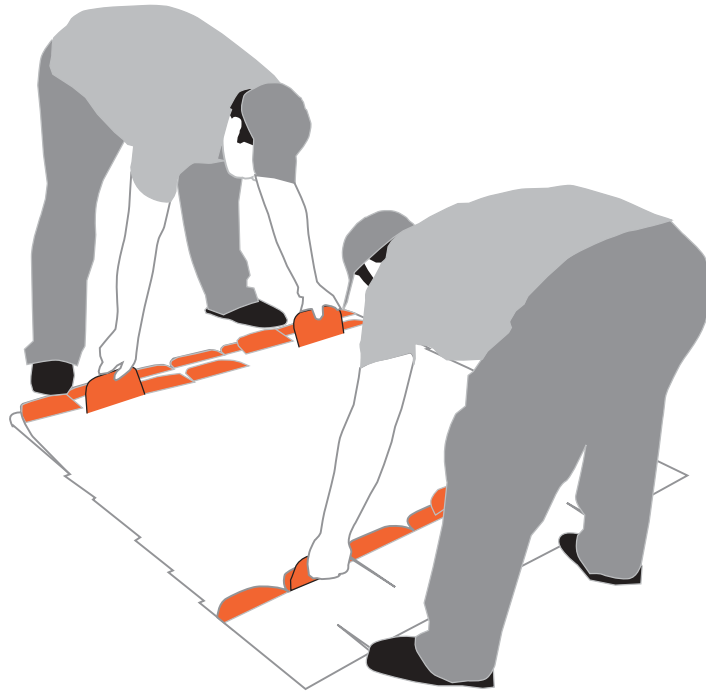
Step

2

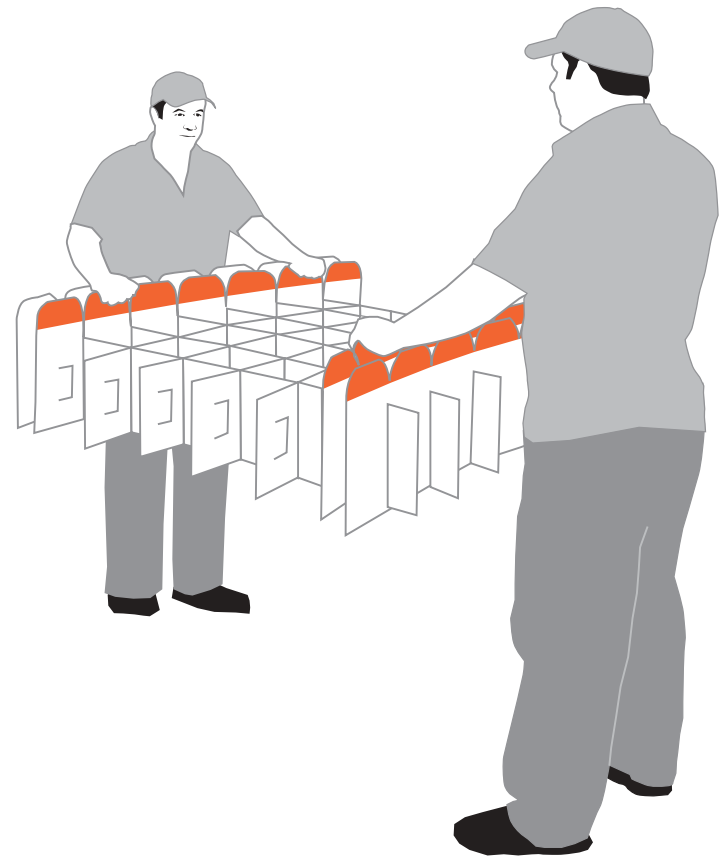
**Expanding the  
RDFW Units**

Having removed an RDFW unit from the crate, the unit is next expanded.

To expand the unit, two workers first grasp the GRIP HERE arrows. Then, together at the same time, both workers swing their hands in the direction of the arrows, allowing the grid to flip partially open. Both workers then swing their hands in the opposite direction, expanding the RDFW into a uniform, three-dimensional grid.



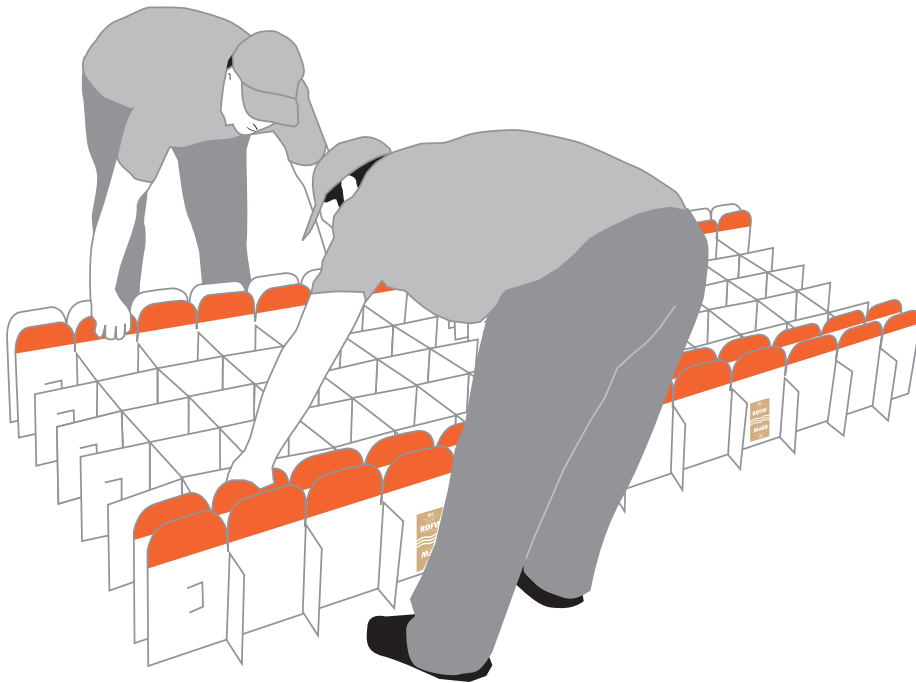
*The collapsed RDFW sheet...*



*...expands into this.*

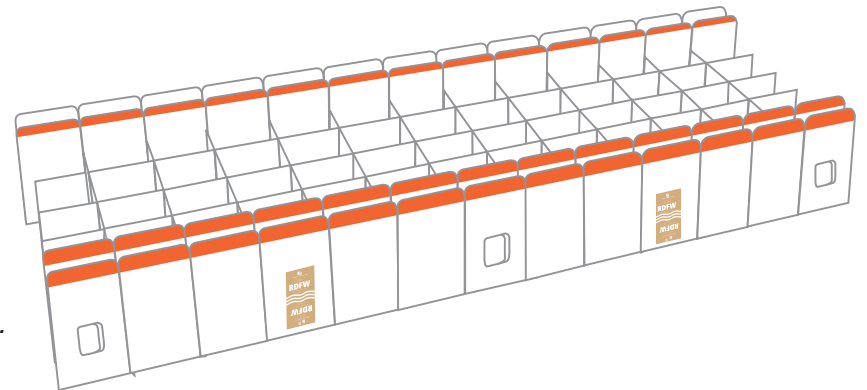
The workers next place the units on the ground where the wall is to be built. The big "RDFW" stickers should face away from the threat.

The units should be slid together snugly so that they overlap completely.



*With your "RDFW" stickers facing away from the threat, slide your units together snugly...*

*...so that they overlap.*



Step

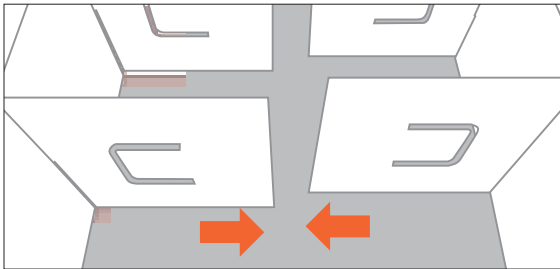
4

**Locking  
Side-to-Side**

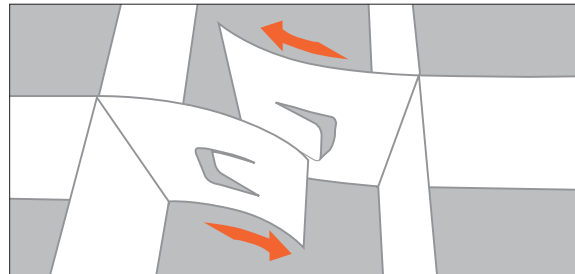
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Locking together—or connecting—the RDFW units is critical when setting up your wall. First, look at the difference between the locks. They should appear to be total opposites. Bend the pieces slightly to allow the tabs to interlock. Bend the pieces slightly to allow the tabs to interlock.

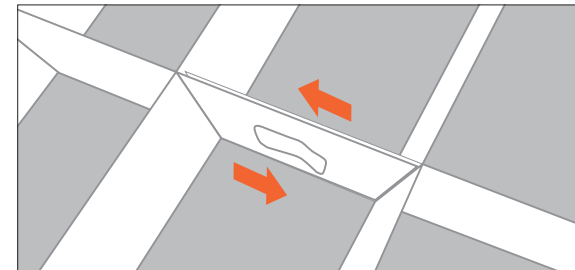
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*The locks of your RDFW pieces should appear to be total opposites.*



*Bend the pieces slightly so that you can slide the tabs past each other, locking the units together.*



*You RDFW pieces lock to each other side-to-side. Connect all the locks between your pieces.*

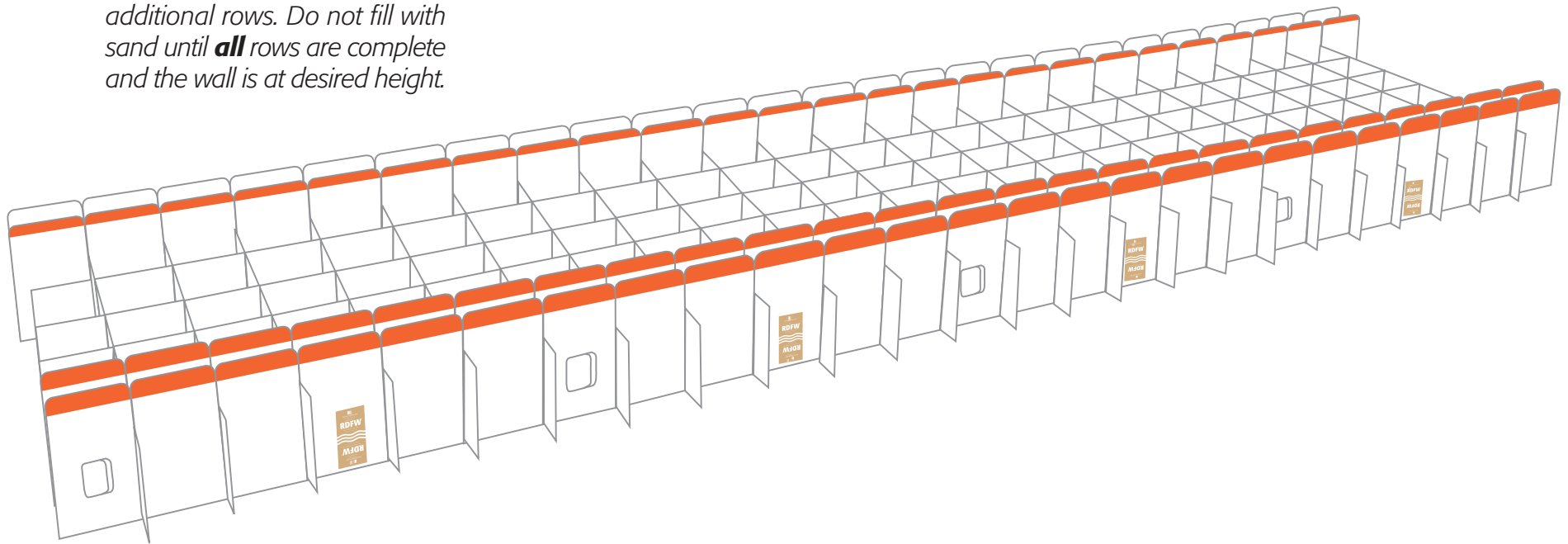
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The RDFW wall is built one row at a time. Do not begin the second row until the entire bottom row is locked together.

The wall is filled with sand only after *all* rows are complete.

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*Lock together your entire bottom row of RDFW **before** adding additional rows. Do not fill with sand until **all** rows are complete and the wall is at desired height.*



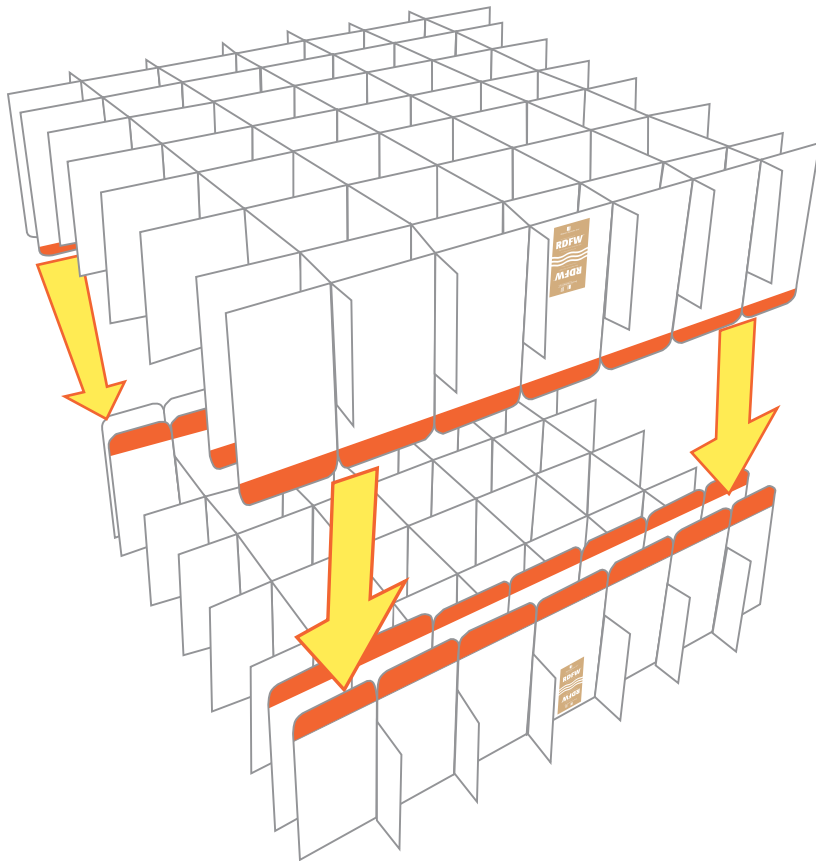
Step

# 6a

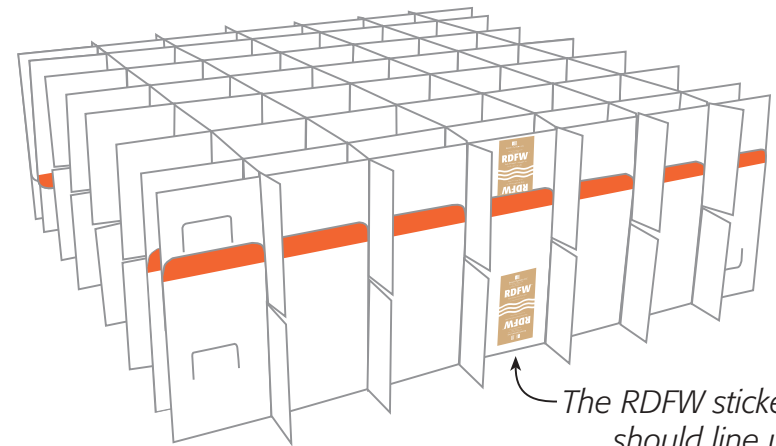
## Adding Rows

Having completed the bottom row, the 2nd and any further rows should be added upside down, with each RDFW unit placed directly on top of the unit beneath it. The units should NOT be offset. A helpful guide is to make sure the large "RDFW" stickers line up.

Slide your RDFW units into the units beneath. After adding your units, lock them side-to-side, just as you did with the bottom row.



*Starting with the 2nd row, each RDFW unit is added upside down.*



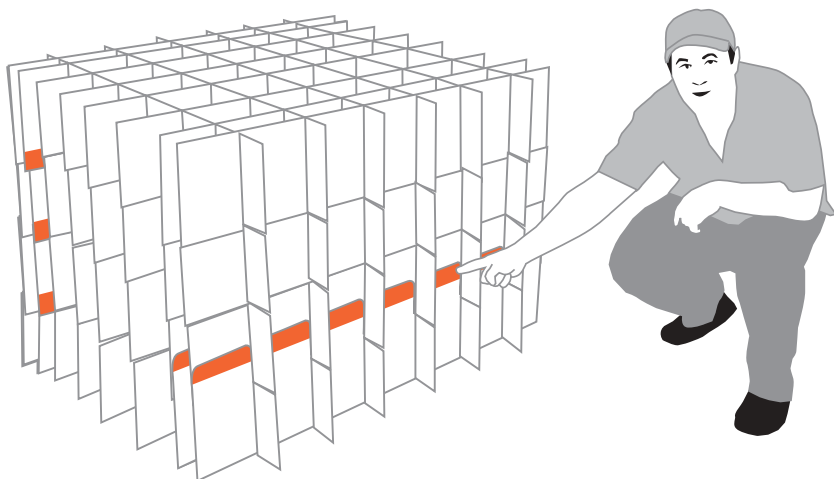
*The RDFW stickers should line up.*

Step  
**6b**  
Correct  
Inserting

When adding RDFW units, it is extremely important that the upper RDFW unit is correctly inserted into the unit beneath it. The colored tips of the upper RDFW unit should always be tucked towards the *inside* of the wall when slid into the unit beneath. This will prevent sand from leaking from the wall.

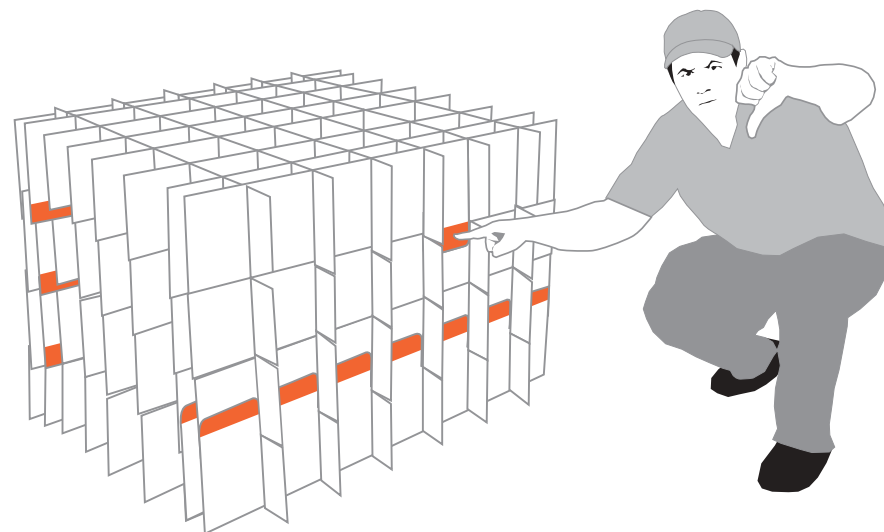
The colored tips provide an instant indicator of correct insertion. When a unit is correctly inserted into the unit below, the colored tip of the upper unit should always be hidden inside the wall. When all units are correctly inserted, you should see only a single colored stripe running 12 inches above the ground.

**RIGHT!**



*If all units are correctly inserted, only a single colored strip running 12 inches above the ground will be visible on the outside faces of the wall.*

**WRONG!**



*If any unit is incorrectly inserted, its colored tips will provide an instant indicator. Remove the incorrectly inserted unit and insert it again correctly.*

Step

7

**Sealing  
The Ends**

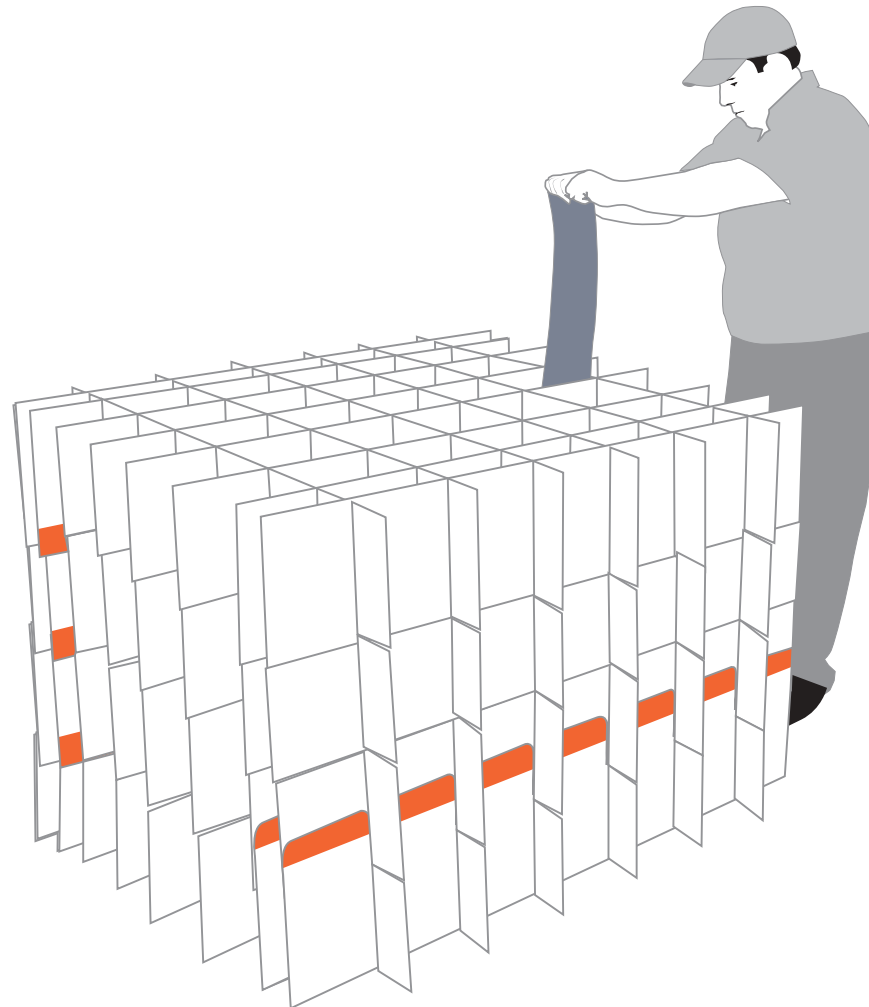
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Before filling your wall with sand, there is one final step in the construction process.

If your RDFW crates shipped with **End Closure Insert** pieces, they should be used to seal the ends of your wall. Slide the **End Closure Insert** pieces into the ends of your wall.

If your crate did not ship with **End Closure Insert** pieces, you may have to build a small stack of sandbags up against the end of your wall to prevent sand leakage from the end.

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*To seal the ends of your RDFW wall, insert the **End Closure Inserts** into your wall and hang them from the edge. By covering the gap between the RDFW layers, the **End Closure Inserts** will help prevent sand leakage at the ends of your wall.*

*If your crate did not include **End Closure Inserts**, you may have to build a small stack of sandbags up against the end of your wall to prevent sand leakage.*



Step

8

*Filling  
With Sand*

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Your wall is now ready to be filled with sand. Dump sand into your wall using a loader, backhoe, or other heavy equipment.

Use a board or shovel to level the top of your wall, pushing uneven sand piles into any empty cells. Leaving a clean, level surface will greatly improve your ability to monitor your wall for leaks or settling.

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*When you fill your wall with sand,  
it is often easier to start at one  
end rather than the middle.*