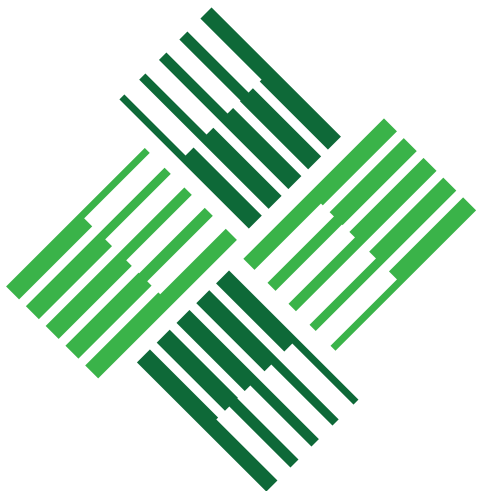




**COMPACT
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SeaFold 40 V1.5

Operating Manual

Safety Disclaimer

Safe operation of the SeaFold 40 container is solely the responsibility of the persons and organizations performing the operating procedures. These operating instructions are provided to promote the safe and proper operation of the container. Any deviation from these instructions is undertaken entirely at the operator's own risk. Compact Container Systems, LLC disclaims all liability for any injury, death, loss, or damage arising from or related to any failure to follow these instructions or to the improper operation or use of the container. Compact Container Systems, LLC makes no representation, warranty, or guarantee, express or implied, that compliance with these instructions guarantees the safe operation of the container or will prevent injury, death, loss, or property damage.

Operators shall comply with all applicable site, facility, employer, and governmental safety requirements and safe work procedures when operating the SeaFold 40 container. All personnel involved in the operation shall wear and use all personal protective equipment ("PPE") required by applicable laws, regulations, and the policies and procedures of the relevant site or facility.

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For Operating, Technical, or Repair questions, please call:

+1-386-SeaFold (+1-386-732-3653)

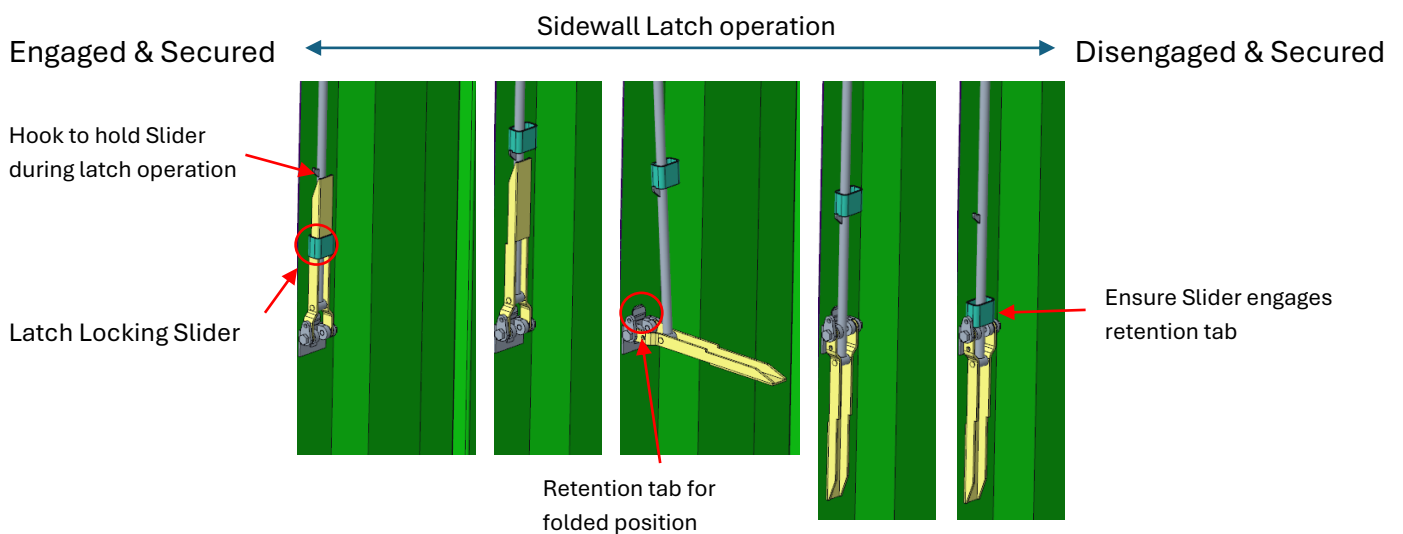
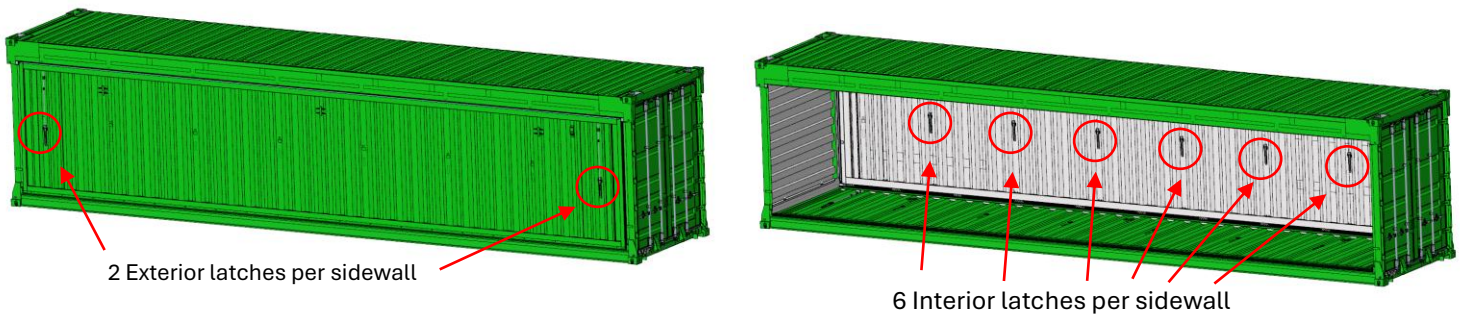
Overview of Container

Corner hammer locks

There are 4 corner locks that are used to secure the roof assembly and endwalls to the base. When operating the corner lock, ensure that all 4 locks are always in the safe position. Fully retracting the lock pin when disengaging the lock is important to prevent damage to the container.

Sidewall latch

The sidewall latches are used to secure the sidewalls in a vertical position. There are 8 latches per sidewall with 2 exterior latches provided to enable safe operation while engaging the 6 interior latches.



Sidewall lift points

The sidewall lifting points are intended to be used with low stretch rope up to 12mm in diameter with end loops.

If straps or chain (Not Recommended) are used a small loop of rope will be required at each end to interface with lift point.



Attached Semi-Automatic Twistlocks

Warning

The 4 permanently attached Semi-Automatic Twistlocks should only be used to operate the Seafold container or to create a stack of no more than 5 collapsed containers.

Each of the 4 attached twistlocks is found next to an upper corner casting and attached with chain to a storage box. The twistlocks must be stowed in the storage boxes when the container is in service or when not installed in the corner casting.

Installed



Stowed



Operation

The attached twistlocks are painted Yellow on the top (up) and Green on the bottom (down) as is the industry standard.

When stacking the container or lifting a folded container, the twistlock is inserted with the green side down into the upper corner casting.

Pulling the twist-lock wire handle to the side position will release the container above.

The twistlock can be removed from the corner casting by pulling up on the wire handle until the twistlock releases.



Stack configuration

Attached semi-automatic twist locks for stacking and collapsed container lifting



The twist locks of the top container should be removed and placed in storage box before

Equipment and Lifting Configurations

Lifting Equipment

Recommended

Loaded Container Handler or Reach Stacker with 40' container as a 4-point spreader
(Refer to page 8 for a picture of the container handler)

The use of a 40' container as a spreader is required because a folded 5 in 1 container is too low to be picked by the normal 4-point spreader.

The 40' spreader container should not be used when picking up a stack of 5 folded containers.

The sidewalls can be lifted/lowered with the adjustable spreader.

Details of these operations are shown in later sections.

Alternative

Empty Container Handler with >10 MT lift capacity with 40' container as a 4-point spreader

Operating the SeaFold container is the same as using a loaded container handler except that the 40' container used as a spreader must be used to move the folded containers one at a time.

Forklift to Lift & Lower Sidewalls 3-5 MT

When using a forklift, ensure the forks do not contact the container

Additional Equipment

Required

Sidewall Lifting Rope

The rope that is used to lift the sidewall needs to be 10 meters in overall length with loops on either end to interface with sidewall lift points.

It is recommended that you use a high strength & low stretch material like Dyneema/UHMWPE/HMPE with a diameter of 10mm (8 mm min) and an MBS of 7,000 kg (5,000kg min). This rope can be procured in most regions as high strength winch line.

Please note that the strength recommendation is intended to protect the container from damage when overloaded.

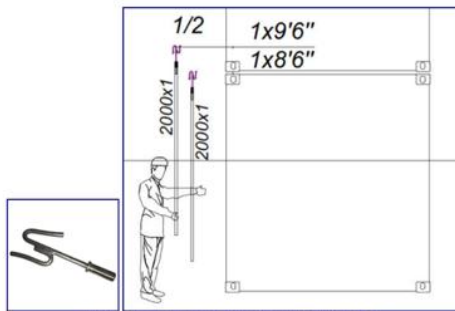
Further definition is available from Compact Container Systems.

Warning

Do not allow anyone in the fall zone of the sidewalls when the exterior sidewall latches are disengaged.

Recommended

Twistlock Operation Rod/Hook



Additional Loose Semi-Automatic Twistlocks for faster operation

If available 4 additional loose Semi-Automatic twistlocks can be left in the bottom of spreader container allowing increased efficiency when lifting collapsed containers or the roof-assembly.

Lifting equipment configurations

Folded Container and Roof Assembly Lifting

Container Lift or Reach Stacker with 40' container as spreader



An empty 40' container must be used as a spreader to lift and lower the roof assembly.

When using a 4-point Loaded Container Lift or Reach Stacker a spreader container is still required to reach the collapsed container level.

Using Attached(Chained) Semi-Automatic Twistlocks

When using the twistlocks that are attached to the SeaFold container, the twistlocks must be installed into the top of the SeaFold container before the spreader container is attached.

Pulling the handle of the attached twistlocks to the side position will allow the spreader container to be removed while leaving the twistlocks in the SeaFold container.

Using Additional Loose Semi-Automatic Twistlocks

When using the additional twistlocks they should be inserted yellow side up into the bottom of the spreader container.

Care must be taken that the attached twistlocks used to stack the SeaFold containers are removed before the spreader container is attached.

Pulling the handle of the twistlocks to the side position will allow the spreader container to be removed while keeping the twistlocks retained in the spreader container.

Semi-Automatic twistlocks are designed to allow the container to be placed on the ground while still inserted. This allows the spreader container to be removed from the container lift when operating the sidewalls.

Sidewall Lifting

Container Lift Spreader Articulation (Recommended)

Attention

Rear doors are open for picture only. Make sure they are closed and locked when lifting/lower sidewall.

Spreader container should be removed from the top of the SeaFold container for easiest operation of the sidewalls.

This section only details the sidewall lifting procedure with a container handler. Detailed instructions for operation of the sidewalls are covered in Operating Procedure sections.



Step 1: Position container lift next to sidewall with spreaders fully extended.

Step 2: Attach lifting line to sidewall lifting points.

Step 3: Attach lifting line to container lift in either V (Direct) or Y (Middle of the line loop) configuration.



Step 4: Before lifting sidewall, tension the lifting line so that the line of action of the lifting line is as close to perpendicular with the sidewall as possible.

Step 5: Begin lifting wall by retracting and lifting container lift spreader.



Step 6: Continue lifting sidewall until it is in a vertical position.

Step 7: Allow workers to engage external latches before releasing fully tension.

Forklift

Attention

This section only details the sidewall lifting procedure with a forklift. Detailed instructions for operation of the sidewalls will be cover in Operating Procedure sections.



Step 1: Position Forklift next to container.

Step 2: Attach lifting line to sidewall lifting points.

Step 3: Attach lifting line to forklift fork base in either V (Direct) or Y (Middle of the line loop) configuration.



Step 4: Before lifting sidewall, tension the lifting line so that the line of action of the lifting line is as close to perpendicular with the sidewall as possible.

Step 5: Begin lifting wall by raising the forklift forks and reversing.



Step 6: Continue lifting sidewall until it is in a vertical position.

Step 7: Allow workers to engage external latches before fully releasing tension.

SeaFold 40 V1.5 Stack Handling

Unstacking Procedure

Unstacking when using twistlocks chained to container for lifting

Step 1: Insert the twistlocks that are attached to the top container into the corner castings.

Step 2: Lift the container off the stack

Step 2.1: Unlock the twistlock attaching the top container to the one below it.

Step 2.2: Lower the lifting equipment onto the top of the stack.

Step 2.3: Lock the twistlock between the lifting equipment and the top container by releasing the wire handle to the middle position.

Step 2.4: Slowly lift the top container ensuring that it properly separates from container below it.

Step 3: Repeat Step 2 for the remaining containers.

Unstacking when using loose twistlocks inserted in the bottom of the spreader container

Step 1: Ensure that there are no twistlocks in the top of the stack

Step 2: Lift the container off the stack

Step 2.1: Remove the attached twistlocks from the top container and place them in storage box.

Step 2.2: Lower the lifting equipment onto the top of the stack.

Step 2.3: Lock the twistlock between the lifting equipment and the top container by releasing the wire handle to the middle position.

Step 2.4: Slowly lift the top container ensuring that it properly separates from container below it.

Step 3: Repeat Step 2 for the remaining containers.

Stacking Procedure

Stacking when using twistlocks chained to the Seafold container for lifting

Step 1: Ensure that space to place stack is level and clear.

Step 2: Place collapsed container onto the current stack or stacking location.

Step 2.1: Release the twistlocks in the top container and remove lifting equipment.

Step 2.2: Return the top twistlocks to the locked center position.

Step 3: Repeat Step 2 for the remaining containers. Do not connect more than 5 containers in a stack.

Step 4: Remove the twistlocks in the top container and place in storage box next to corner castings.

Step 5: Ensure that **all** the twistlocks are locked with the wire handle in the center position.

Stacking when using loose twistlocks inserted in the bottom of the spreader equipment

Step 1: Ensure that space to place stack is level and clear.

Step 2: Place collapsed container onto the current stack or stacking location.

Step 2.1: Release the twistlocks attached to the lifting equipment and remove with lifting equipment.

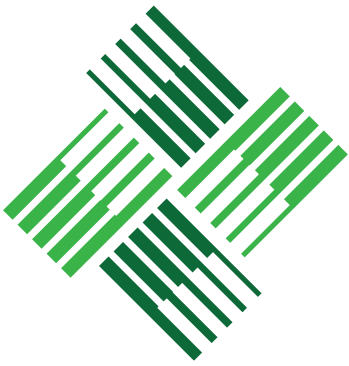
Step 2.2: Insert the twistlock chained to top container into the corner castings.

Step 2.3: Ensure the top twistlocks are in the locked center position.

Step 3: Repeat Step 2 for the remaining containers. Do not connect more than 5 containers in a stack.

Step 4: Remove the twistlocks in the top container and place in storage box next to corner castings.

Step 5: Ensure that **all** the twistlocks are locked with the wire in the center position.



COMPACT CONTAINER SYSTEMS

SeaFold 40 V1.5 Erecting Procedure

Safety Disclaimer

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Operators shall comply with all applicable site, facility, employer, and governmental safety requirements and safe work procedures when operating the SeaFold 40 container. All personnel involved in the operation shall wear and use all personal protective equipment ("PPE") required by applicable laws, regulations, and the policies and procedures of the relevant site or facility.

Lifting Equipment for Roof and Sidewalls

Before proceeding ensure that the entire team understands how the lifting equipment will be used to lift the folded container, roof assembly, and sidewalls. There are many ways to do this, and the details of those methods may not be covered in the following instructions. Please see earlier sections for details.

Operating Location Requirements

To erect the SeaFold container it must be placed on ground that is no more than 20mm out of flat.

This surface is consistent with the flatness required to easily open and close the rear doors of a fully loaded 40' HC container. An empty 40' HC container should sit in the same location with all 4 corner castings in even contact.

If working on dirt/gravel/sand an empty 40' container can be used to grade the surface.

Erecting Step 1: Unlock all corner locks

Note: In this picture a SeaFold container is used as the spreader container.



Step 1.1: Attach and secure lifting equipment to roof assembly.



Step 1.2: Using the corner lock slide hammer, fully retract **all** 4 corner lock pins.

Step 1.3: Place corner lock slide hammers in the disengaged position to ensure that corner lock pin stays retracted.

Erecting Step 2: Lift roof assembly and guide endwalls

Warning

Attempting to lift the roof assembly without fully retracting **all 4** corner locks will damage container.

Reminder

When lifting and lowering the roof assembly, the motion should be straight up and straight down.

Note: In these picture a SeaFold container is used as the spreader container.



Step 2.1: Using the attached lifting equipment, lift the roof assembly.



Step 2.2: As the endwalls approach vertical a worker at each endwall should start guiding the endwalls before the wheels leave the track.

Step 2.3: Stop lifting when the end-walls are clear of the base and able to swing outward



Step 2.4: While the workers swing each endwall in the vertical position, lower roof assembly into the base.

Step 2.5: As the endwall posts approach the base, the lift operator must take care to ensure that the posts and base engage properly. The workers should help direct the lift driver to proper alignment.

Erecting Step 3: Lock all corner locks

Warning

Failure to ensure **all** 4 corner locks are fully engaged will damage container.



Step 3.1: Using the slide hammer, fully engage **all** 4 corner lock pins.



Step 3.2: Ensure **all** 4 slide hammers are in the locked position.



Step 3.3: Remove the roof lifting equipment.



Step 3.4: If you are using the attached twistlock to lift the roof, remove the twistlock and place into the storage boxes

Erecting Step 4: Lift Sidewall B and secure external latches

Note: Rear door is open for picture only. Ensure it is closed during operation.

Step 4.1: Position sidewall lifting equipment at the center Sidewall B.

Step 4.2: Attach the sidewall lifting lines to Sidewall B at labeled locations.



Step 4.3: Using the sidewall lifting equipment, lift Sidewall B. During this process, the line of action of the lifting line should remain as close to perpendicular to the sidewall as possible.



Step 4.4: Once Sidewall B is vertical, fully engage and secure the exterior sidewall latches.

Step 4.5: Before releasing lifting lines, manually push on the ends of the sidewall to ensure the latches are properly engaged

Step 4.6: Release the lifting lines.

Erecting Step 5: Lift Sidewall A and secure external latches

Warning

Before entering the fall zone of Sidewall B ensure that the exterior latches are fully engaged.

Note: Rear door is open for picture only. Ensure it is closed during operation.

Step 5.1: Position sidewall lifting equipment at the center Sidewall A.



Step 5.2: Attach the sidewall lifting lines to Sidewall A at labeled locations.

Step 5.3: Using the sidewall lifting equipment, lift Sidewall A. During this process, the line of action of the lifting line should remain as close to perpendicular to the sidewall as possible.



Step 5.4: Once Sidewall A is vertical, fully engage and secure the exterior sidewall latches.

Step 5.5: Before releasing lifting lines, manually push on the ends of the sidewall to ensure the latches are properly engaged

Step 5.6: Release the lifting lines.

Erecting Step 6: Secure all interior sidewall latches

Warning

No personnel should enter the container before ensuring all (4) external latches are engaged.



Step 6.1: Open both rear doors fully (270 degrees) to clearly indicate there are personnel inside. When the doors are fully open, the exterior latches closest to the doors should be blocked by the doors.



Step 6.2: Starting with Sidewall A(Left), engage the interior latches starting from the ends and moving towards the center.

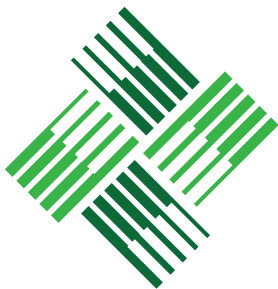


Step 6.3: Engage the Sidewall B(Right) interior latches starting from the ends and moving towards the center.

Step 6.4: Ensure that **all** 12 interior latches are fully engaged and locked.



Step 6.5: Exit container then close and lock rear doors.



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SeaFold 40' V1.5 Collapsing Procedure

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Lifting Equipment for Roof and Sidewalls

Before proceeding ensure that the entire team understands how the lifting equipment will be used to lift the folded container, roof assembly, and sidewalls. There are many ways to do this, and the details of those methods may not be covered in the following instructions. Please see earlier sections for details.

Operating Location Requirements

To collapse the SeaFold container it must be placed on ground that is no more than 20mm out of flat.

This surface is consistent with the flatness required to easily open and close the rear doors of a fully loaded 40' HC container. An empty 40' HC container should sit in the same location with all 4 corner castings in even contact.

If working on dirt/gravel/sand an empty 40' container can be used to grade the surface.

Collapsing Step 0: Ensure container is empty and free from damage

Before the container can be collapsed it must be **entirely empty** as there is less than 2mm clearance between the sidewalls and the floor when folded.

The container must have no major damage to components that could prevent operations. If you have questions about allowable damage, please contact Compact Container Systems.

Collapsing Step 1: Release all interior latches

Warning

Before releasing interior latches ensure **all 4 external latches** are fully engaged.



Step 1.1: Open both rear doors fully (270 degrees) to clearly indicate there are personnel inside.



Step 1.2: Starting at the front of the container and moving to the rear, release all (6 per side) interior latches. **When putting the latch into the stowed position make sure that the sliding lock has engaged retention tab on the latch base.**



Step 1.3: Exit the container.

Step 1.4: Verify that all personnel have exited the container and that the container is fully empty.

Step 1.5: Close and lock the rear doors of the container.

Collapsing Step 2: Lower Sidewall A (No wheel tracks)

Warning

Before releasing exterior latches ensure no personnel or equipment are in the fall zone of the sidewall.



Step 2.1: Position sidewall lifting equipment at the center Sidewall A.

Step 2.2: Attach the sidewall lifting lines to Sidewall A at labeled locations and attach to sidewall lifting equipment with 100-300mm of slack.



Step 2.3: Release exterior latches and manually push the sidewall inwards to start the lowering.

Note: Rear door is open for picture only. Ensure it is closed during operation.



Step 2.4: Using the sidewall lifting equipment, lower the sidewall. During this process, the line of action of the lifting line should remain as close to perpendicular to the sidewall as possible.

Danger

Before entering the sidewall fall zone to release rope ensure that the exterior latches of Sidewall B are fully engaged. All personnel should ensure nobody touches Sidewall B exterior latches while personnel are within the sidewall fall zone.

Step 2.5: Enter Sidewall B fall zone and release rope from Sidewall A lift points.

Collapsing Step 3: Lower Sidewall B (With wheel tracks)

Danger

Ensure that all personnel have exited sidewall fall zone before proceeding.

Step 3.1: Position sidewall lifting equipment at the center Sidewall B.

Step 3.2: Attach the sidewall lifting lines to Sidewall B at labeled locations and attach to sidewall lifting equipment with 100-300mm of slack.



Step 3.3: Release exterior latches and manually push the sidewall inwards to start the lowering.



Note: Rear door is open for picture only. Ensure it is closed during operation.

Step 3.4: Using the sidewall lifting equipment, lower the sidewall. During this process, the line of action of the lifting line should remain as close to perpendicular to the sidewall as possible.

Step 3.5: Release rope from Sidewall B lift points.

Collapsing Step 4: Unlock all corner locks



Note: In this picture a SeaFold container is used as the spreader container.

Step 4.1: Attach and secure lifting equipment to roof assembly



Step 4.2: Using the corner lock slide hammer, fully retract **all** 4 corner lock pins.

Step 4.3: Place corner lock slide hammers in the dis-engaged position to ensure that corner lock pin stays fully retracted.

Collapsing Step 5: Lower roof assembly and guide endwalls

Reminder

When lifting and lowering the roof assembly the motion should be straight up and straight down.

Note: In these pictures a SeaFold container is used as the spreader container.



Step 5.1: Using the attached lifting equipment, lift the roof assembly until the endwalls are clear of the base and able to swing inward.



Step 5.2: Start lowering the roof assembly while 1 worker at each end guides the endwalls to swing inward and engage the wheels on the track.

Step 5.3: Once the wheels have engaged the track and the endwalls are moving inwards the workers should stand clear of lowering assembly.



Step 5.4: As the roof endplates approach the base, the lift operator must take care to ensure that the roof and base engage properly. **The workers should help direct the lift driver to proper alignment.**

Collapsing Step 6: Lock All Corner Locks

Warning

Failure to ensure **all** 4 corner locks are fully engaged will damage container.



Step 6.1: Using the slide hammer, fully engage and secure **all** 4 corner lock pins.



Step 6.2: Ensure **all** 4 slide hammers are in the engaged and secured position

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Revision Notice

Compact Container Systems, LLC reserves the right to revise this Operating Manual and to modify the SeaFold container, its specifications, operating procedures, safety instructions, and associated documentation at any time. Users are responsible for ensuring they are using the most current version of this Operating Manual. To the extent permitted by applicable law, CCS shall not be liable for any loss or damage arising from reliance on superseded versions of this Operating Manual.

Appendix A

Before You Begin

Verify the Following Before Beginning

- ☐ Container is completely empty.
- ☐ Container inspected for structural damage.
- ☐ Ground is level and suitable.
- ☐ Lifting equipment inspected and rated.
 - ☐ Sidewall lifting ropes inspected.
 - ☐ Twistlocks operate correctly.
- ☐ Personnel understand the procedure.
- ☐ Work area is clear.
- ☐ PPE is being worn.
- ☐ Weather permits safe operation.

General Safety Rules

- Follow every step in sequence.
- Maintain communication between the lift operator and ground personnel.
- Keep personnel outside fall zones.
- Keep lifting lines as close to vertical as practical.
- Stop immediately if abnormal movement occurs.
- Never stand beneath suspended components.
- Never operate damaged equipment.
- Never bypass operating procedures.

Personnel, PPE and Emergency Procedures

Recommended Personal Protective Equipment (PPE)

- Hard hat
- High-visibility clothing
- Safety footwear
- Safety glasses
- Hearing protection
- Work gloves

Operator Responsibilities

- Confirm personnel are in safe positions.
- Verify work area is clear.
- Ensure all personnel acknowledge readiness.
- Confirm planned movement before lifting.

Emergency Stop

Immediately stop the operation if any of the following occur:

- Unexpected movement.
- Failure of a corner lock, latch, lifting line or lifting point.
- Personnel enter the fall zone.
- Container becomes unstable.
- Damage to the container or lifting equipment.
- Loss of communication.

Do not resume operation until the cause has been identified and corrected.

Final Verification Checklist

Erected Container

- ☐ Roof assembly fully seated.
- ☐ Four corner locks engaged.
- ☐ Exterior latches engaged.
- ☐ Interior latches engaged.
- ☐ Rear doors closed and locked.
- ☐ Roof lifting equipment removed.
- ☐ Twistlocks returned to storage.
- ☐ Container inspected for damage.

Collapsed Container

- ☐ Roof assembly fully lowered.
- ☐ Sidewalls fully folded.
- ☐ Endwalls seated.
- ☐ Corner locks engaged.
- ☐ Rear doors closed and locked.
- ☐ Lifting equipment removed.
- ☐ Container inspected.

Appendix B

Contact Us

For Operating, Technical, or Repair questions, please call:

+1-386-Seafold (+1-386-732-3653)

For Operating Videos, please visit:

www.compactcontainers.com/videos

Or, use the following QR code:



For Operating Manuals, please visit:

<http://www.compactcontainers.com/manuals>

Or, use the following QR code:

