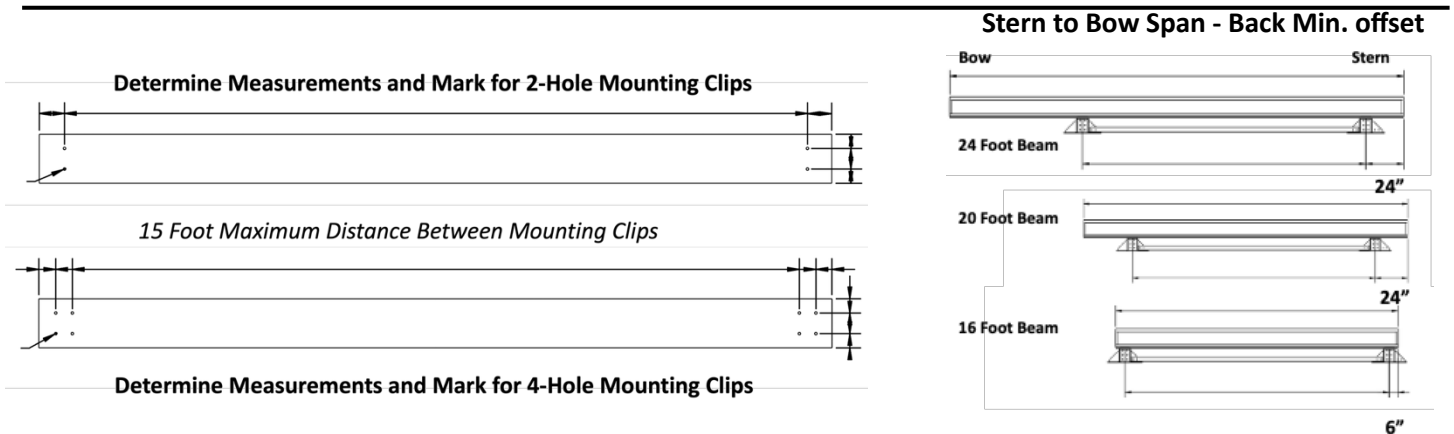


CF Span provides mounting and installation guidelines to prevent beam damage and protect structural integrity and longevity. CF Span is not liable for damage to CarbonBunks™ caused by improper preparation or installation. Do not exceed maximum boat loads per beam type*. Marinas must comply with internal policies, procedures, and all federal, state, and local safety regulations.

Preparation: Measure, Mark & Drill Beams

1. Find beam mounting locations to choose brackets and keep within maximum boat load limits.
2. Measure, mark, and drill holes from the inside using marina building design, rack specs, and mount details.
3. Determine clip type, bolt pattern (4-bolt prevents rotation and optimizes load distribution), spacing, and hole locations; templates simplify this.
4. Alternatively, position beams in an existing bunk or stand to mark hole patterns before drilling.
 - **CRITICAL:** Drill straight pilot holes starting from the inside (against the clip) with sharp bits, then enlarge to ½" to ensure a watertight gasket seal.
 - **PRO TIP:** Apply waterproof sealant (lanolin grease, petrolatum paste/wax, marine grease, or silicone) to holes and bolts.



1.6 to 2' stern offset for 20-foot beam

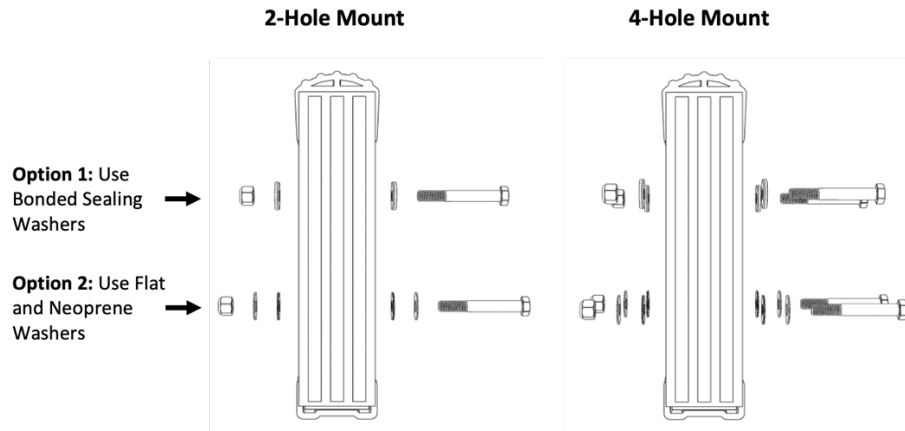
Increased slope installation with less distance near the bow mounts works well if marina's store boats to drain in the rack - beams must be installed straight and level (do not mount clips offset to adjust craft angle when stored)

Installation: Use Proper Hardware to Install Beams

1. Safely position beams into rack clips or ground stands per safety standards and regulations.
2. Install using 316 stainless steel (recommended) or galvanized steel hardware (Grade 5/ ASTM A153+).
3. Use bonded sealing washers (recommended) or neoprene with stainless steel washers to prevent water ingress.
4. Hand-tighten hardware at all mounts to align fit before final tightening.
5. Tighten snugly; do not over-torque bolts to avoid beam damage.

CRITICAL: Avoid overtightening to prevent damaging the beam core or components.

PRO TIP: Recheck and retighten hardware after initial use. Inspect connections semi-annually for washer wear or weeping rust on galvanized parts.



Mounting Hardware for 1.75" Width Beams

Item	Hardware	2-bolt Qty./ Beam	4-bolt Qty./Beam
1	½" - 13 x 3" 316 Stainless Steel Hex Bolt	4	8
2	½" - 13 Stainless Steel Nylock Nut	4	8
3	EITHER - ½" ID, 1 ¼" OD Stainless Steel Bonded Sealing Washer	8	16
4	OR - ½" ID, 1 ¼" OD USS Stainless Steel Flat Washer	8	16
5	WITH - ½" ID, 1 ¼" OD Neoprene Washer	8	16

Mounting Hardware for 2.5" Width Beams

Item	Hardware	2-bolt Qty./ Beam	4-bolt Qty /Beam
1	½" - 13 x 3.75" 316 Stainless Steel Hex Bolt	4	8
2	½" - 13 Stainless Steel Nylock Nut	4	8
3	EITHER - ½" ID, 1 ¼" OD Bonded Sealing Washer	8	16
4	OR - ½" ID, 1 ¼" OD USS Flat Washer	8	16
5	WITH - ½" ID, 1 ¼" OD Neoprene Washer	8	16

CarbonBunk Specifications*

Product	Width	Height	Length	Max Boat Load per Pair
CarbonBunk 55	2.5"	13"	16' - 24'	55,000 lbs.
CarbonBunk 45	2.5"	13"	16' - 24'	45,000 lbs.
CarbonBunk 30	1.75"	13"	14' - 20'	30,000 lbs.
CarbonBunk 20	1.75"	13"	14' - 20'	20,000 lbs.

*Max load capacities are based on pair configuration and proper installation.

Disclaimer: The installation of CF Span, Inc. CarbonBunks™ products must be performed by a certified marina technician or structural contractor. Improper preparation or installation can compromise the integrity of the beam or storage rack, which could lead to vessel or property damage, or injury. The manufacturer and its distributors are not liable for any damages, injuries, or losses resulting from the installation, use, or misuse of CarbonBunks™. By purchasing and using this product, you agree to assume all risks associated with its installation, maintenance, and use.

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