# INSTALLATION MANUAL

Patent Pending

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V.2015.1



Product	Racking	
Sub-product	Very Narrow Aisle Cantilever Rack	
	guide rail and end-of-aisle guardrail to protect the n fork truck collisions in very narrow aisles.	<b>G</b> Cogan <sup>®</sup>
- Security yello	w painted guardrail for maximum visibility.	A Tradition of Quality Since 1901

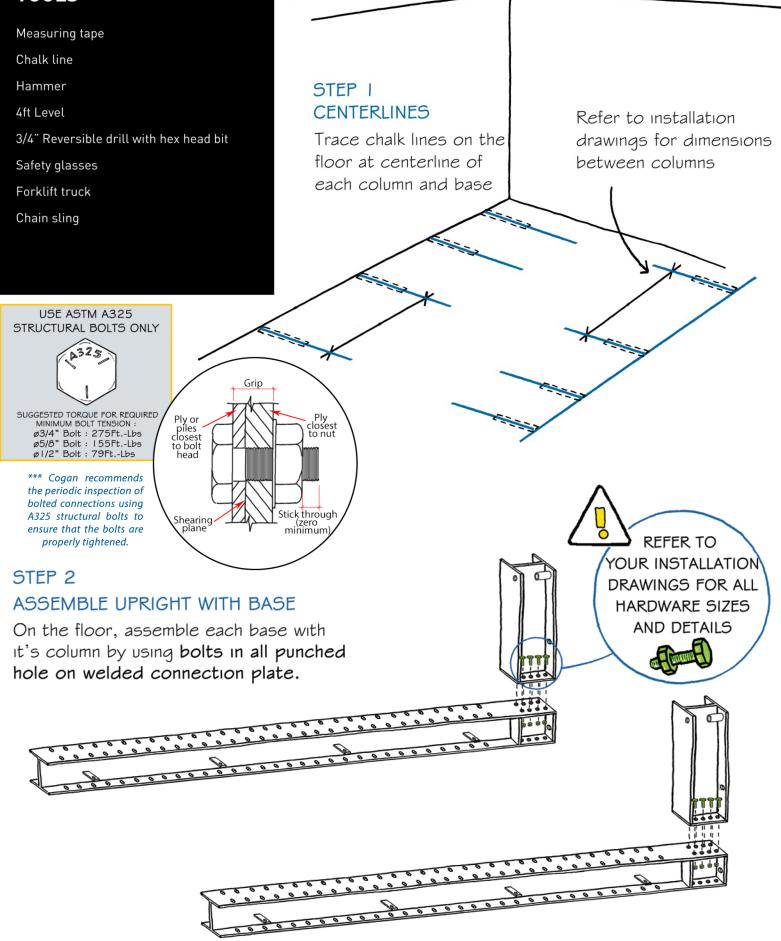
- On-site welding required. All welding must be done by a certified welder.

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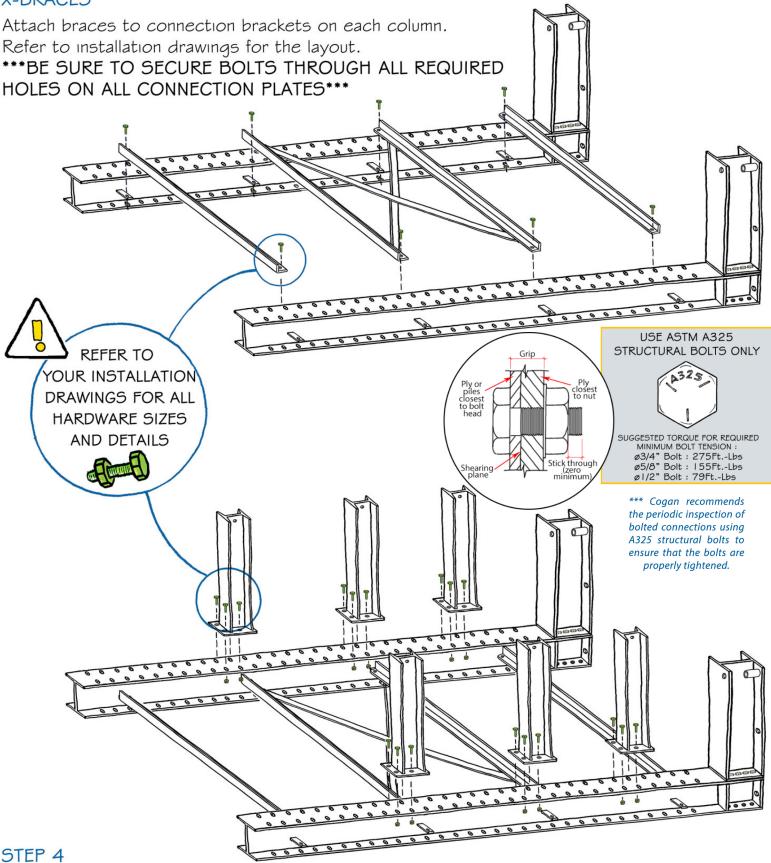
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Very Narrow Aisle Cantilever Racks

## TOOLS



#### STEP 3 X-BRACES

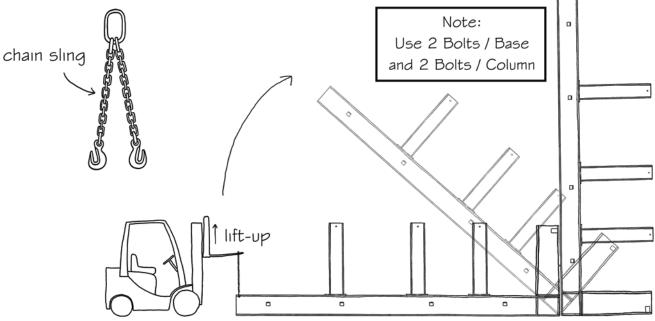


#### ASSEMBLING ARMS TO COLUMN

Refer to installation drawings for exact spacing of arms and quantity on each column. Be sure to install the proper arms at the required height on each column. **\*\*\*BE SURE TO SECURE BOLTS THROUGH ALL REQUIRED HOLES ON ALL CONNECTION PLATES\*\*\*** 

### STEP 5 LIFTING-UP AND ANCHORING

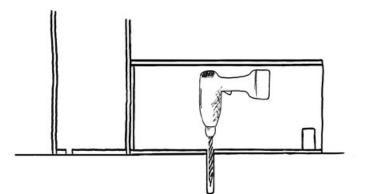
Safely attach a chain sling to your fork lift and to the top of the cantilever rack column. Lift-up slowly and secure the racking system by anchoring it to the floor each time you lift a rack.



Refer to installation plans for the exact anchor bolt required for your project.

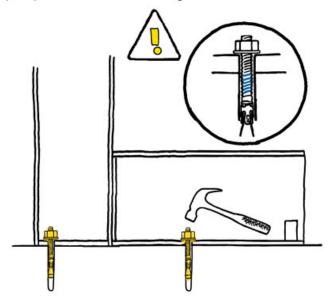
ø5/8"x6" min bolts (anchors) are used for baseplates 4 1/2" min embedment is required

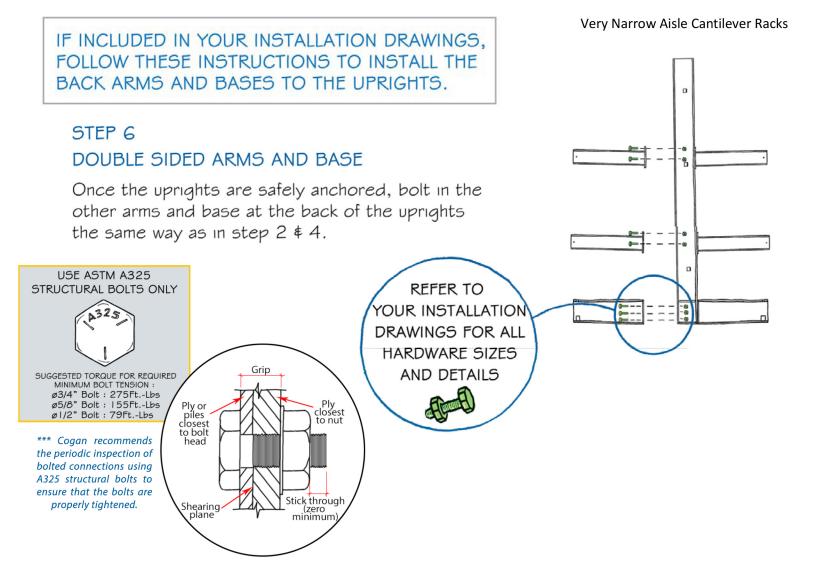
Hammer drill a hole the same nominal diameter and at least as deep as the length of anchors. For smaller bases, holes on top are punched to help drilling and anchoring properly



Ø3/4"x6" min bolts (anchors) are used for baseplates 4 1/2" min embedment is required

Drive the Hilti bolt in the hole so that at least **6 threads** are below the top surface of fixture. Then thighten to the recommended torque value to achieve proper anchor setting

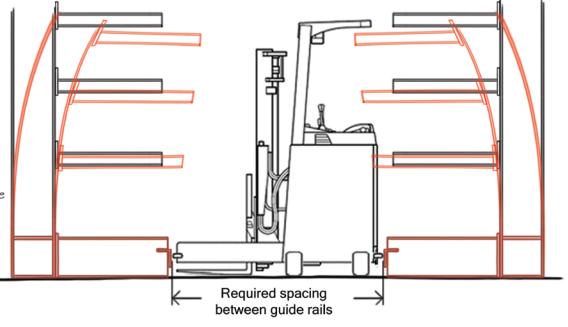




Measure the spacing between cantilever rack bases and refer to your installation plans to determine the required spacing between the guide rails.

#### IMPORTANT:

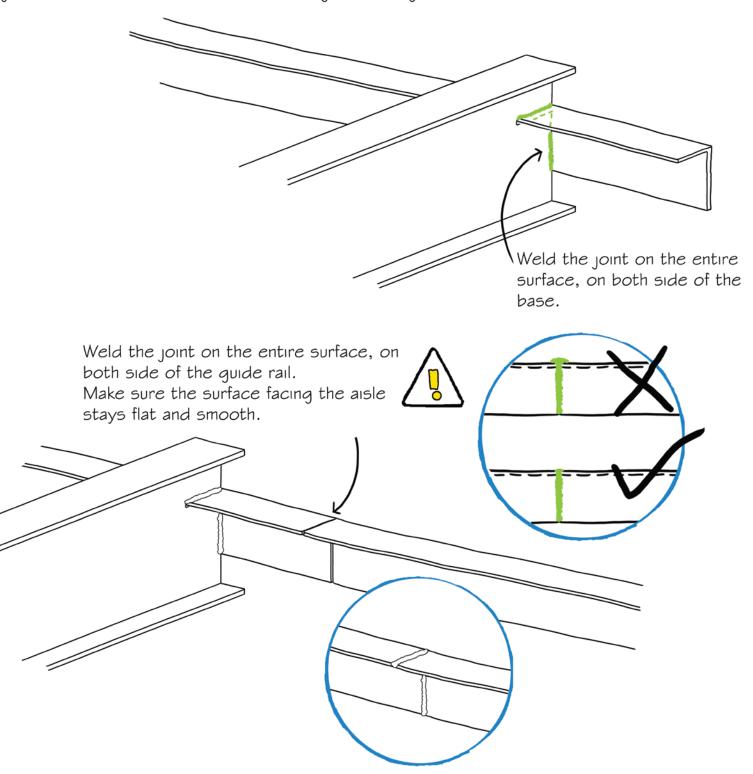
Due to potential deflection caused by loads that are applied on to the structural arms. It is recommended to have structural arms slightly shorter than the distance between guide rails. This will prevent any interference with the fork lift space.



#### STEP 7 GUIDE RAIL INSTALLATION TYPE 1 - WELDED TO RACK BASE

Start the installation on one end of the rack aisle by inserting one guide rail into the base. One length of guide rail should be inserted in multiple cantilever rack bases.

Weld the entire joint of the guide rail to the cantilever rack base. Make sure to weld on both sides of the base to ensure full contact for a maximum strength and rigidity. Weld all joints to cantilever base before installing the next guide rail.



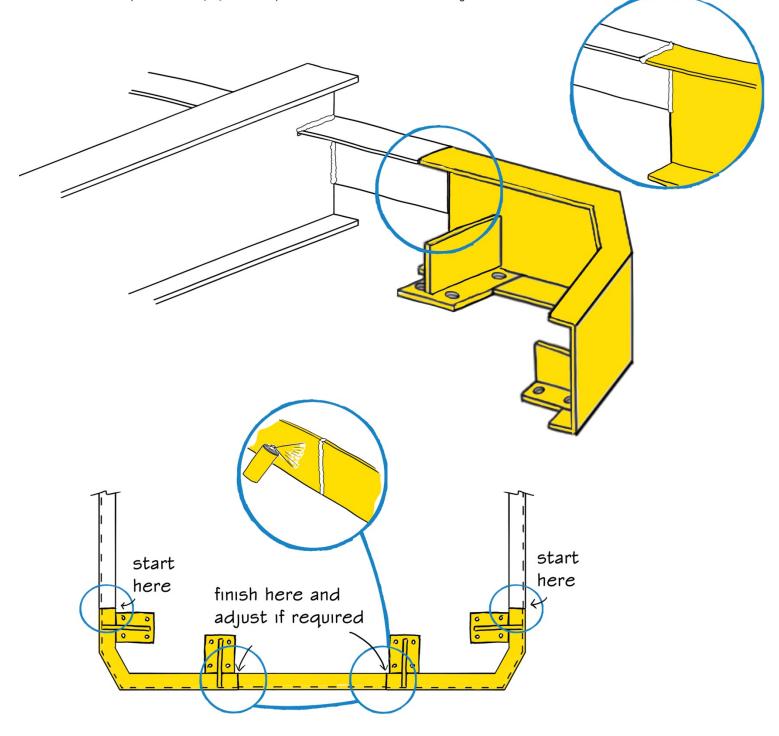
#### STEP 8 GUARDRAIL - HEAVY-DUTY

End-of-aisle guardrails comes in 3 parts for on-site adjustability.

Start the installation by welding both corner pieces to the end of each guide rail, then anchor them to the ground. Anchor bolts dimensions are speficied by customer.

Complete the installation of the end-of-aisle guardrail by welding both corner pieces of guardrail to the central guardrail piece. Adjust the length of the central piece is required.

Add touch-up security yellow paint over the welded joints.



MATERIAL

- COLUMNS ARE MADE OF STRUCTURAL STEEL, I-BEAM SHAPED; PRE-PUNCHED ON EITHER 3" or 4" CENTERS TO BOLT THE ARMS (REFER TO INSTALLATION PLANS FOR DETAILS). BASE PLATE IS WELDED ON THE BOTTOM OF EACH COLUMN TO BE ANCHORED TO THE FLOOR.
- BASES ARE MADE OF STRUCTURAL STEEL, I-BEAM SHAPED, NOTCHED TO RECEIVE THE GUIDE RAIL, WITH WELDED CONNECTION PLATE TO BE BOLTED TO COLUMN.
- ARMS ARE MADE OF STRUCTURAL STEEL, I-BEAM SHAPED, WITH WELDED CONNECTION PLATE TO BE BOLTED TO COLUMN.
- BRACES ARE MADE OF STRUCTURAL STEEL, PLATE AND L-SHAPED, TO BE BOLTED TO COLUMN.
- METAL SHIMS FOR ARM ADJUSTMENT ARE MADE OF 3/4" X 4" STEEL.
- GUIDE RAILS ARE MADE OF UNPAINTED STRUCTURAL STEEL. GUARDRAILS ARE MADE OF STRUCTURAL STEEL WITH SAFETY YELLOW POWDER-COATED FINISH.
- ALL NECESSARY ASSEMBLY FASTNERS SHALL BE PROVIDED. ANCHORS ARE ONLY PROVIDED BY COGAN AS AN OPTION.
- ALL PARTS HAVE GREY POWDER-COATED FINISH EXCEPT FOR GUIDE RAIL AND GUARDRAIL.