Cogan®
A Tradition of Quality Since 1901

Course #2

Cantilever Racking

Store Any Size, Any Shape

The essential knowledge and skills required to sucessfully navigate the entire lifecycle of a cantilever rack project.

Chapter 1

Introduction

- What is Cantilever Racking?
- Cantilever Racking Advantages
- Types of Cantilever Racking
- Cantilever Racking Applications
- Building Codes & Standards



What is Cantilever Racking?





Cantilever Racking

compound noun *(kan-tl-ee-ver • rak-ing)*

Cantilever racking is a storage system designed to hold long, bulky items that do not fit easily on standard shelves. Think of it like a tree with branches—a column with horizontal arms where you can safely store lumber, pipes, or steel beams.

The open-front design allows for easy loading and unloading, making it a perfect solution for warehouses, workshops, or retail spaces that need to organize large, awkward items without a hassle.

Did You Know?

The first known use of the word “cantilever” dates back to 1667. It is derived from a combination of terms rooted in medieval building practices. The first part, **canti-**, likely comes from the Latin *cantus*, meaning “corner” or “edge,” used across European languages to describe projecting structures. The second part, **lever**, comes from the Old French *lever*, meaning “to raise,” derived from the Latin *levare*, which also means “to lift.”

Cantilever Racking Advantages

Flexible, Durable & Designed for Your Needs

01 OPEN DESIGN

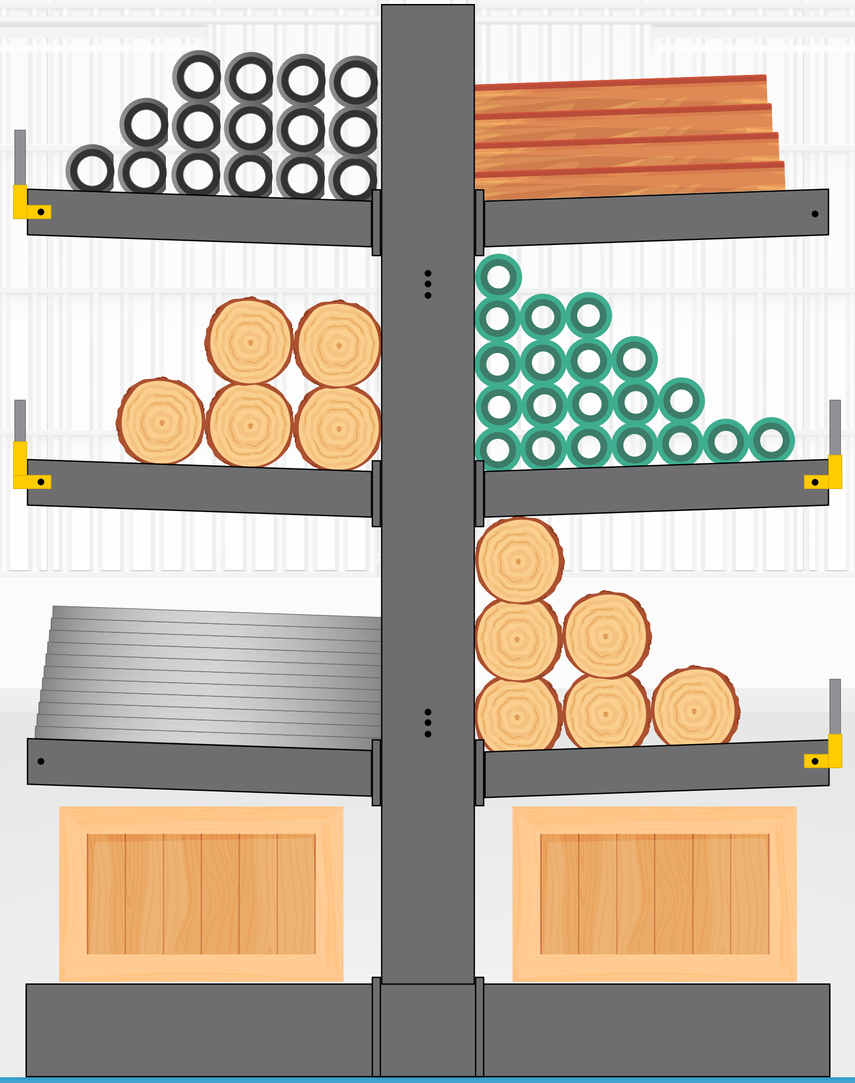
The lack of vertical obstructions at the pick face allows for easy loading and unloading, either manually or with forklifts. This design maximizes accessibility and improves workflow efficiency.

02 VERSATILITY

Cantilever racking is ideal for storing long, bulky, or irregularly shaped items like lumber, pipes, and steel bars. It can also handle a wide variety of materials, offering unmatched flexibility for storage needs.

03 ADAPTABILITY

Cantilever racking is highly adaptable, with adjustable arms that can be repositioned to accommodate different product dimensions. This ensures a tailored solution for changing inventory needs.



04 SPACE OPTIMIZATION

By utilizing vertical space, cantilever racks increase storage capacity without expanding the warehouse footprint. This is especially valuable in facilities with limited floor space.

05 LOAD CAPACITY

Built with durable materials, cantilever racking can support substantial weights, making it suitable for heavy-duty applications.

06 DURABILITY & LONGEVITY

Designed for rugged use, cantilever racking systems are constructed to withstand the demands of industrial environments, offering a long-lasting storage solution with minimal maintenance.

Types of Cantilever Racking

Choose Your Own Storage Adventure

Structural Cantilever Racking



Our original structural steel cantilever racking system designed for medium to extra heavy-duty loads.

Indoor Use Outdoor Use

- Punched holes run the full height of each column for maximum versatility. High-strength structural grade bolts secure all connections.
- Available in single and double-sided configurations with straight or inclined arms.
- **LD Columns:** 4” I-beam upright with a 3” vertical arm adjustment. **HD Columns:** 5” I-beam upright with a 4” vertical arm adjustment. *Determined by a Cogan engineer.*
- **Finish:** Powder-coated tough (arms and braces). Polyurethane liquid paint (columns and bases).

L-Shed or T-Shed Cantilever Racking

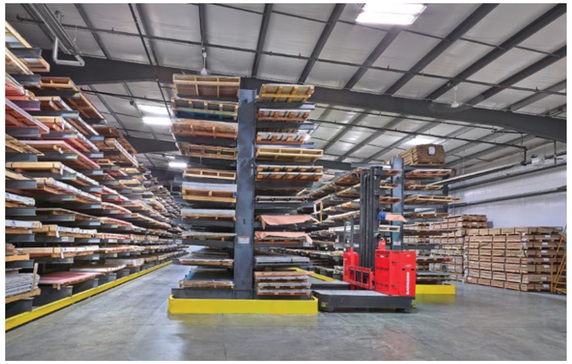


All the benefits of our structural steel cantilever racking plus robust features for inclement weather.

4-Season Outdoor Use

- The angled roof design allows for proper water drainage, and shields against snow, ice and sun damage. Heavy-duty treated wood joists ensure long-lasting support.
- Reduces material loss and replacement costs due to severe weather.
- **L-Shed:** Single-sided; can be installed against a wall or building. **T-Shed:** Double-sided for maximum storage capacity. **Option:** Retrofit existing outdoor racking.
- Always engineered in accordance with geographical location, local weather variances, and site conditions.

Very Narrow Aisle *(VNA)* Cantilever Racking



Offers the same versatility as our structural cantilever racking, but with a compact design for ultra efficient use of floor space.

Indoor Use Limited Space

- Requires as little as half the aisle width of standard racking. Ideal for high-density storage applications.
- Designed for use with narrow aisle fork trucks. Includes guide rail and end-of-aisle guardrail for safe navigation, increased pick precision, and reduced material damage.
- Guide rail can be installed two ways: **inserted into the base of each racking unit** or **anchored to the floor**, independent from the rack structure.
- All guide rails and end-of-aisle guardrail are welded on-site for a perfect fit and continuous protection.

Uses & Applications

One System. Endless Possibilities.

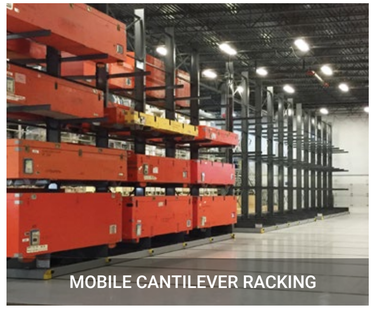
We know your demands are varied and you need a solid storage system you can rely on. Ideal for both indoor and outdoor use, our cantilever racking is remarkably adaptable to take on the challenge of any storage situation.


LUMBERYARD CANTILEVER RACKING

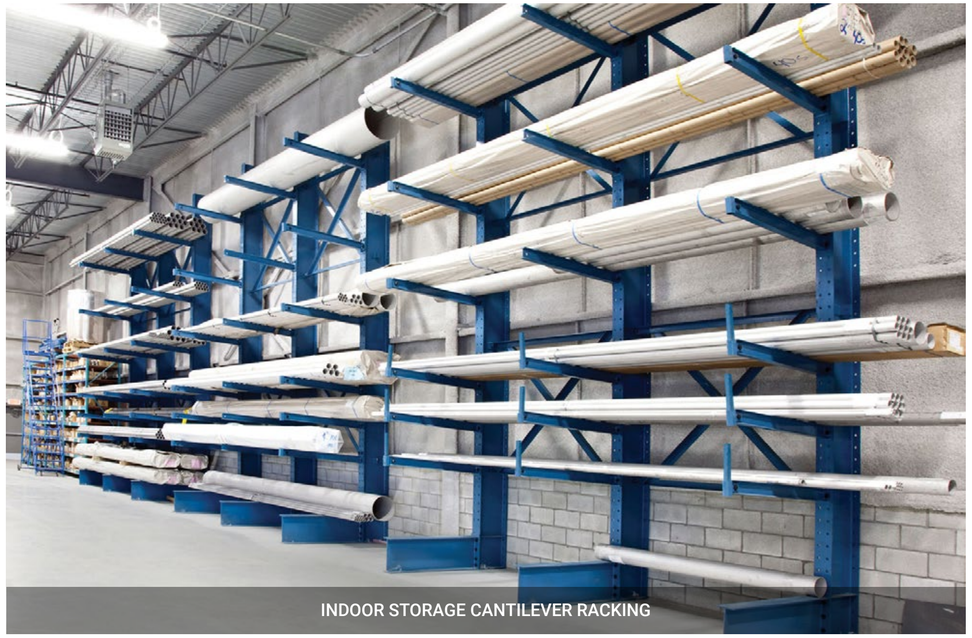

INDOOR STORAGE CANTILEVER RACKING


VNA CANTILEVER RACKING


INDOOR STORAGE CANTILEVER RACKING


MOBILE CANTILEVER RACKING

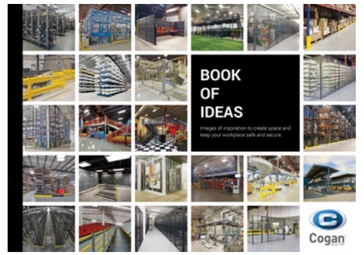

L-SHED OUTDOOR CANTILEVER RACKING


INDOOR STORAGE CANTILEVER RACKING


OUTDOOR STORAGE CANTILEVER RACKING


INDOOR STORGE CANTILEVER RACKING


T-SHED OUTDOOR CANTILEVER RACKING



Interested in more?

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To view our *Book of Ideas*. Over 80 pages of real project images guaranteed to inspire!



What are building codes and why do they matter?

Building codes are the minimum design and construction requirements to ensure safe and resilient structures.

You can trust that a structure built to code is keeping up with the latest findings and advances in technology. Based on a solid foundation of decades of construction knowledge and experience, model building codes are updated every three years and incorporate new information.

These codes reduce casualties, costs and damage by creating stronger buildings designed to withstand disasters. They also help communities get back on their feet faster by minimizing indirect costs such as business interruptions and lost income.

Source: FEMA.gov

Building Codes & Standards

Your Safety is our Top Priority

No matter where your project is located in North America, you can rest assured that all Cogan cantilever racking is built in compliance with the highest safety standards and building code regulations.

Below is a list of the regulatory bodies that govern how we design and build our racking:

American Institute of Steel Construction *(AISC)*

American National Standards Institute *(ANSI)*

American Society of Civil Engineering *(ASCE)*

American Society for Testing & Materials *(ASTM)*

Research Council on Structural Connections *(RCSC)*

American Welding Society *(AWS)*

Steel Deck Institute *(SDI)*

International Code Council *(ICC)*

Occupational Safety & Health Administration *(OSHA)*

National Research Council of Canada *(NRCC)*

Canadian Institute of Steel Construction *(CISC)*

Canadian Standards Association *(CSA)*

Canadian Welding Assoication *(CWB)*

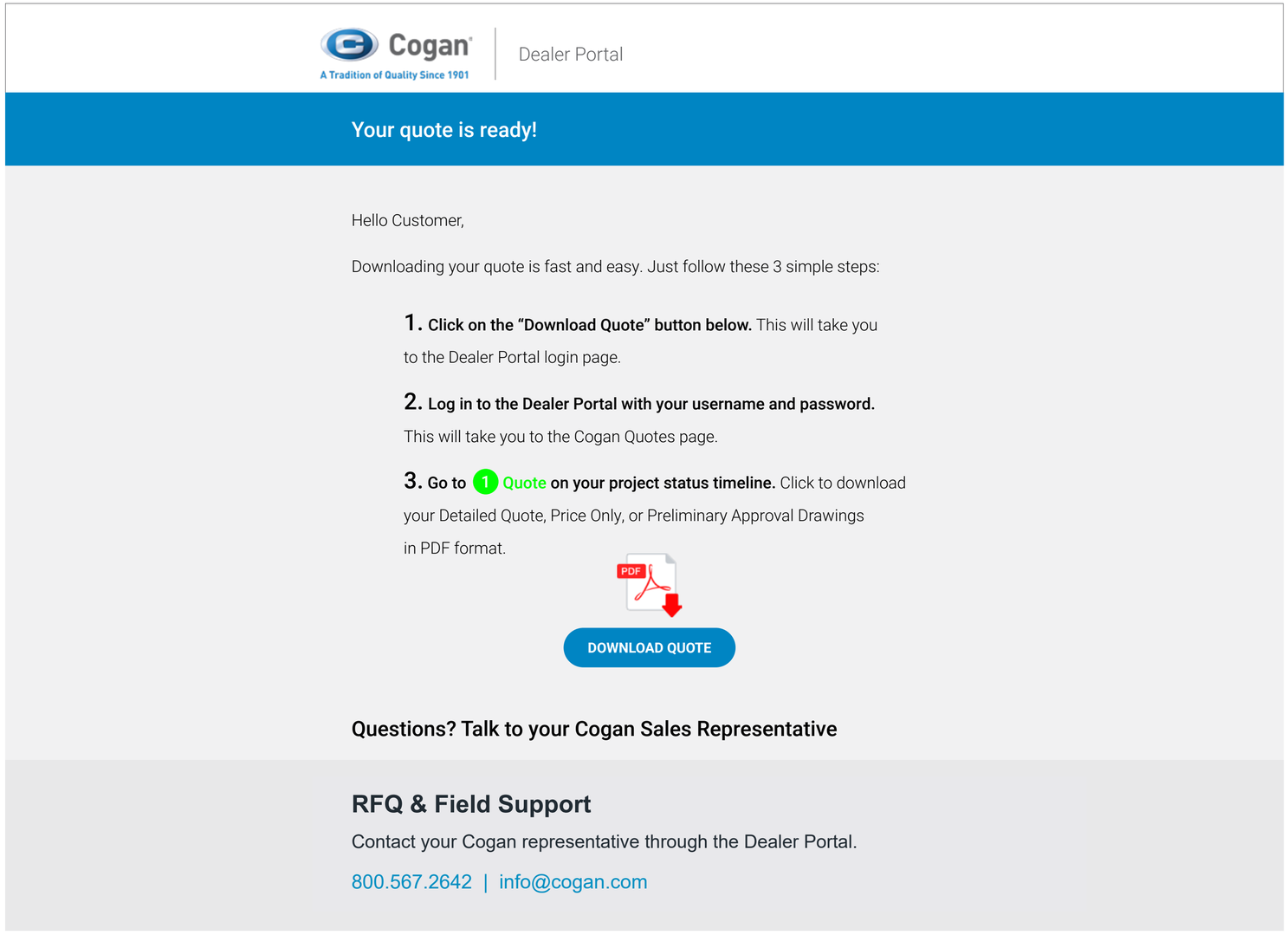
Tip:

Click on any logo to visit the association's website.

Chapter 2

Quoting Your Racking

- Meet Your Team
- Layout & Capacity Guide
- Requirements for a Successful Quote
- New RFQ Worksheet *(PDF)*



** The above email notification is for example purposes only.*

Meet Your Team

RFQ, Estimation & Beyond

Cogan supports your project from the first quote through installation. Work with your assigned representative and the appropriate team for sales, estimating, field assistance and after-sales service.

RFQ Team

Quotes, revisions and purchase orders. Delivery dates, quality control questions and after-sales service.

Sales Support

Product training, sales assistance and new dealer onboarding across the USA and Canada.

Estimation Team

Complex projects, PE stamped plans and conference calls to review your project requirements.

Field Support

Site measurements, project assistance, sales training and product samples for your local needs.

Contact your assigned Cogan representative through the Dealer Portal.

800.567.2642 | info@cogan.com | www.cogan.com

Layout & Capacity Guide

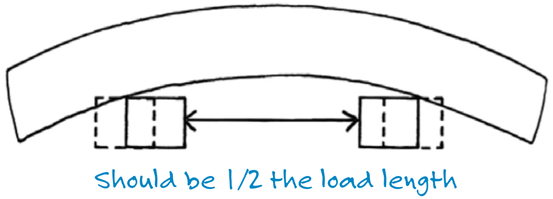
How to Design Your Racking

Cogan cantilever racking is built with modular components that can be arranged to meet your exact storage needs. Use this handy guide to determine important criteria, such as arm capacity, height, and bracing requirements, when designing your unique racking system.

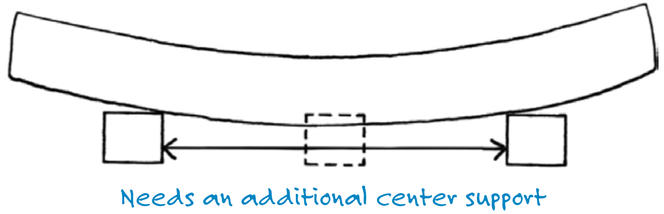
01 ARM SPACING

1.1 Spacing and Quantity

To prevent load deflection, carefully determine the spacing and quantity of arms. Use wood blocks to simulate arm placement and calculate the optimal spacing and number of arms required.

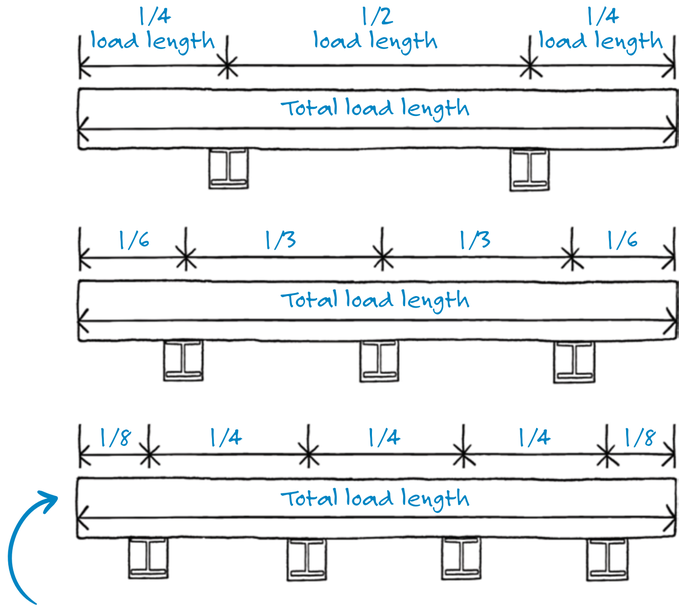


If deflection occurs with two supports, add additional supports until the deflection is eliminated.



1.2 Load Distribution

Ensure the load weight is evenly distributed using the following formulas:

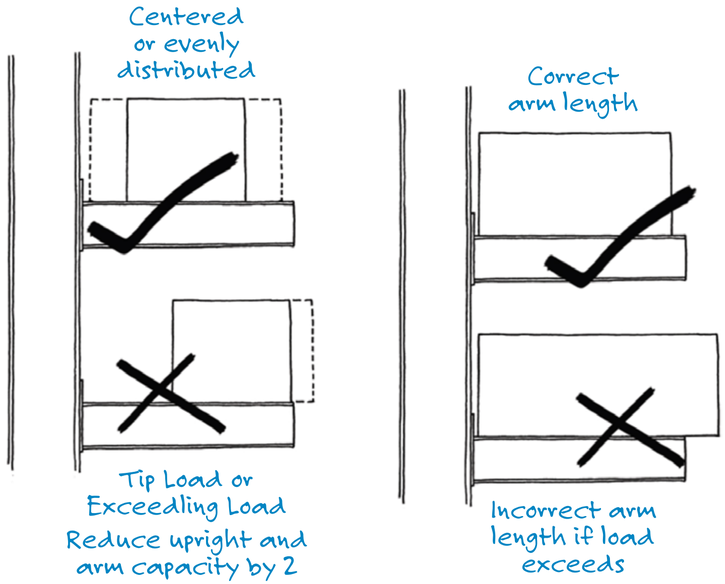


For proper weight distribution, the load should overhang the end arms by half the distance between uprights.

02 ARM LENGTH

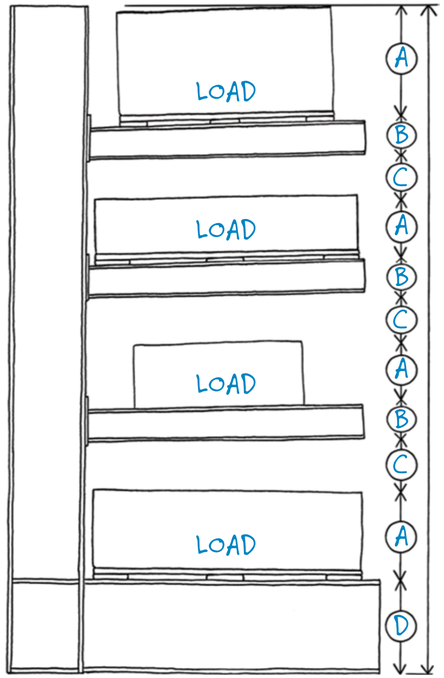
Choose an arm length that fully supports the load depth—loads should never extend beyond the arms.

The load must be evenly distributed from the front to the back of the arm. Failure to follow this rule reduces arm capacity.



03 COLUMN HEIGHT

Calculate column height using the following formula:



A Total height of loads

+

B Total thickness of all arms

+

C Clearance of 6” between top of each load and the arm above

+

D Base height

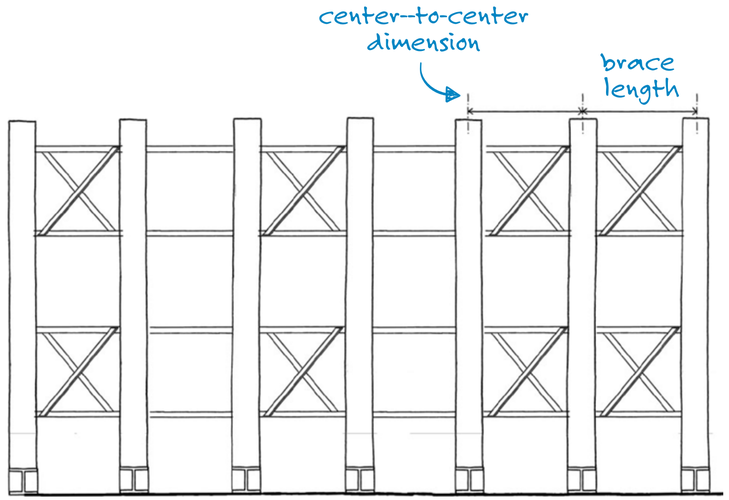
Tip:

Don’t forget to consider other critical factors such as ceiling height, forklift reach, sprinkler systems, and local building codes that may impact the racking height.

04 BRACING

4.1 Standard Brace Pattern

Secure cantilever racking with alternating X-braces and horizontal braces, following the example below:



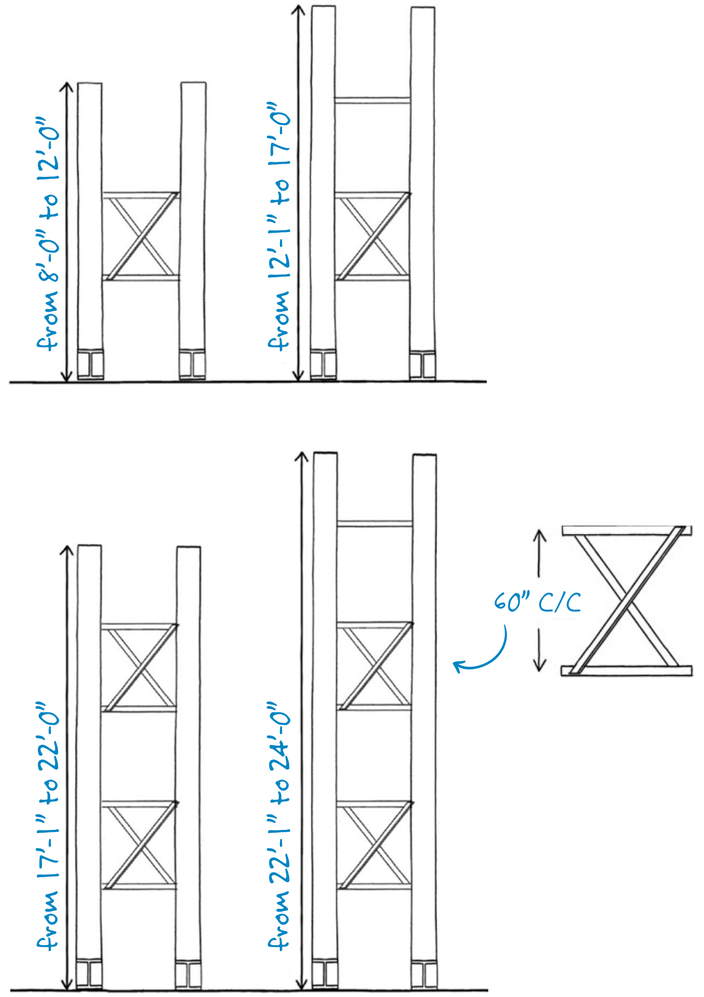
IMPORTANT

Always start and end a cantilever rack row with an X-brace, as shown in the illustration above.

Never end a row with only horizontal braces, as this compromises the stability of the racking.

4.2 Pattern Variations

The X-brace pattern will vary depending on column height to maintain proper rigidity:

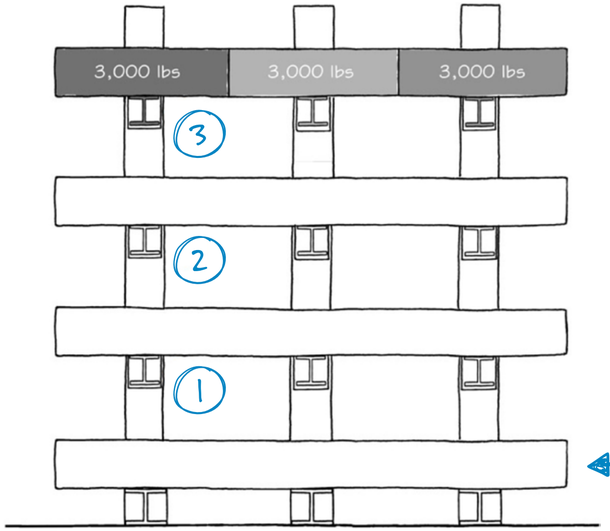


05 ARM AND COLUMN CAPACITY

5.1 Arm Capacity

To determine arm capacity, divide the total load weight by the number of supporting arms.

> **Example:** If a **9,000 lbs.** load is supported by 3 arms, each arm must have a minimum capacity of **3,000 lbs.**



Note:

The load stored at the base of the column is not included in the total column capacity. It is recommended to place the heaviest loads on the base or lower arms.

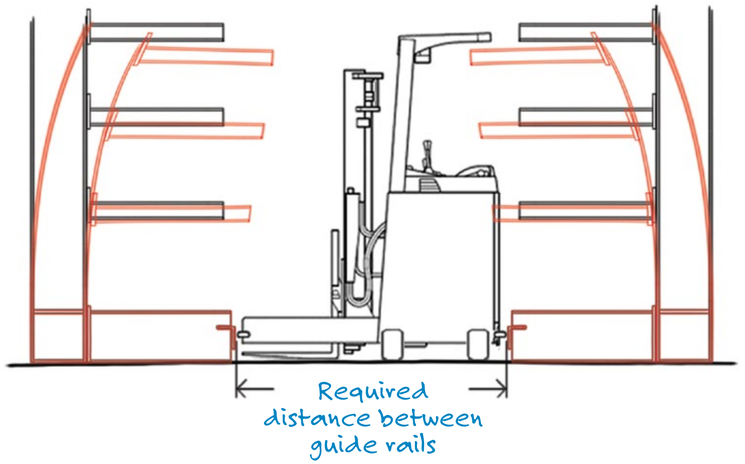
5.2 Column Capacity

To calculate column capacity, multiply the arm capacity by the number of arms per upright.

> **Example:** If each arm supports **3,000 lbs**. and there are 3 arms per column, the minimum required column capacity is **9,000 lbs.**

06 BASE SPACING (VNA Cantilever Racking Only)

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



IMPORTANT

Due to potential load-induced deflection, structural arms should be slightly shorter than the distance between guide rails. This prevents interference with forklift clearance.

Requirements for a Successful Quote

Dialing in the Details

Now that we've covered the basics of calculating capacity and layout, we can move forward with quoting your cantilever racking. In the following pages, we'll review the key information needed when submitting a quote request to us. The more details we have upfront, the more accurate our estimate will be—saving you time and minimizing revisions. Ready to get started?

01 LOCATION

Since cantilever racking is a load-bearing structure, your project's location plays an important role in the engineering calculations. Environmental factors—such as seismic conditions, as well as wind, rain, and snow loads for outdoor racking—are carefully considered in the design.

City | *State* | *Zip Code*

Installation Site

- ☐ Indoors
- ☐ Outdoors

VERY IMPORTANT

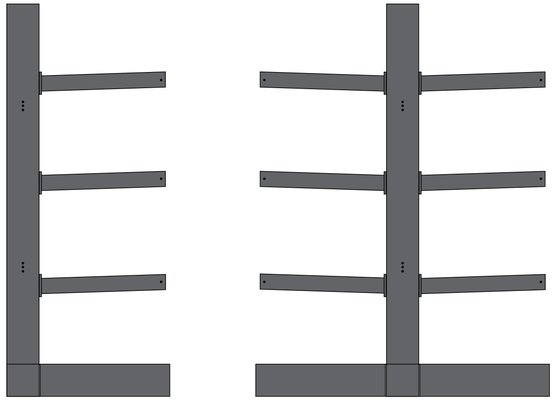
For outdoor installations, the cantilever rack base and column **must** be anchored to a concrete slab *(see page 22, section 8.4, for details)*.

02 ARMS

2.1 Configuration

Do you need single-sided, double-sided, or a combination of both types of racking?

Any sections placed against a wall must be single-sided.



- ☐ Single-Sided
- ☐ Double-Sided
- ☐ Mixed *Please specify:*

2.2 Arm Style

Choose between two arm styles: a 1.5° or 3° incline. When deciding, consider the type of material being stored. For rounded loads—such as pipes, tubing, and rolls—a steeper incline is recommended for added stability.



☐ 1.5 ° incline



☐ 3° incline

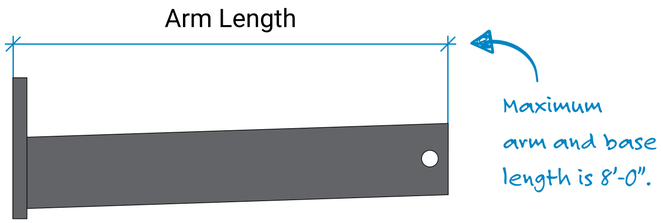
2.3 Arm Capacity

First, determine the necessary arm spacing to prevent deflection. Then, divide the total load weight by the number of supporting arms to calculate the capacity per arm.

Capacity Per Arm (lbs) | Qty of Arms Per Side

2.3 Arm Length

As covered in the design guide, select an arm length that fully supports the load depth. Loads should never extend beyond the arms to ensure proper load distribution and safety.



Arm Length Options (Inches)

☐ 12" ☐ 18" ☐ 24" ☐ 30" ☐ 36" ☐ 42" ☐ 48"

☐ 54" ☐ 60" ☐ 72" ☐ 78" ☐ 84" ☐ 90" ☐ 96"

Base Length _____

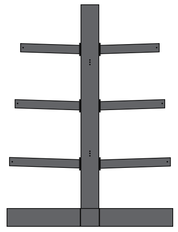
Must be equal to or greater than the longest arm per side.

Multiple Arm Lengths

Your design may require multiple arm lengths. If so, please specify the quantity of each when submitting your request.

Example:

A "Christmas tree" cantilever rack configuration, where different arm lengths are used to accommodate various load sizes.



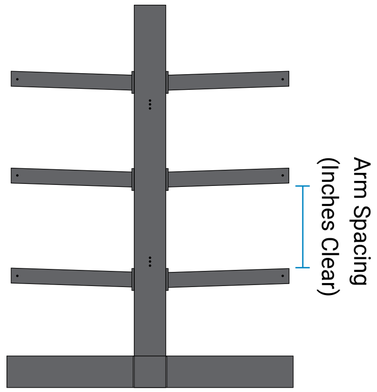
2.4 Arm Spacing

How much vertical space will your stored materials require? Be sure to allow at least 6" of clearance between the top of each load and the arm above.

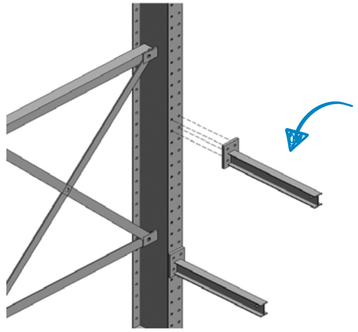
The vertical arm spacing will determine the overall column height. Take into account the ceiling height and any overhead obstructions that may affect the racking height.

Arm Spacing
(Inches Clear)

_____



Connection Detail



Note:

Arm spacing is adjustable between 3" and 4", depending the arm and column type, providing additional flexibility.

2.5 Specifications

Material	Structural Steel
HD	Heavy-Duty
MD	Light-Duty
Orientation	1.5° or 3° from Horizontal
Requires	(4) ASTM A325 Structural Grade Bolts
Finish	Cogan Grey

Based on the information provided, Cogan Estimation will determine whether MD or HD arms are required.

03 COLUMNS

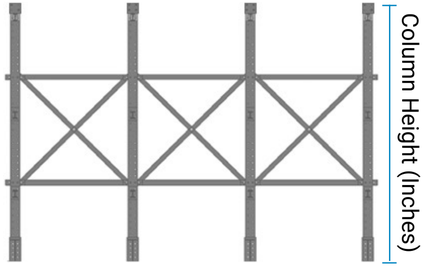
3.1 Column Height & Number of Runs

How many runs of racking will you need? In other words, how many individual sections or rows? What is the total height?

Column Height (Inches)

Number of Runs

Example of a 6-Column Run



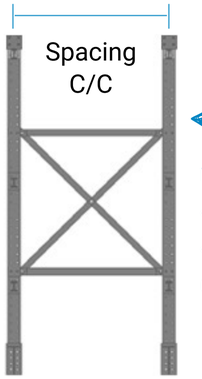
Maximum column height is 26'-0".

3.2 Column Spacing

Column spacing will determine the length of each run. Consider the number of arms needed and the horizontal spacing required to prevent deflection *(see page 10, section 1.1)*. The column spacing must align with this layout.

Maximum Spacing Between Columns

Qty of Columns Per Run

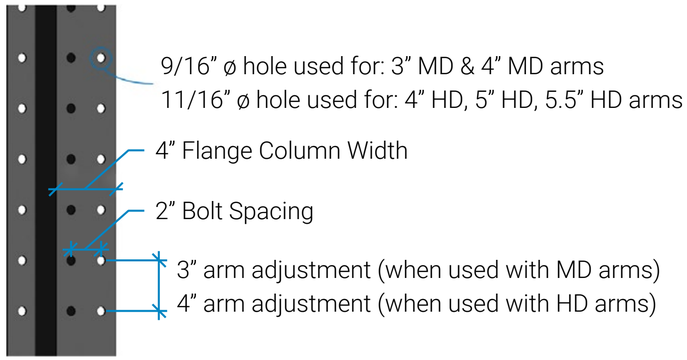


Maximum allowable column spacing is 8'-0" center-to-center (C/C).

3.3 Specifications

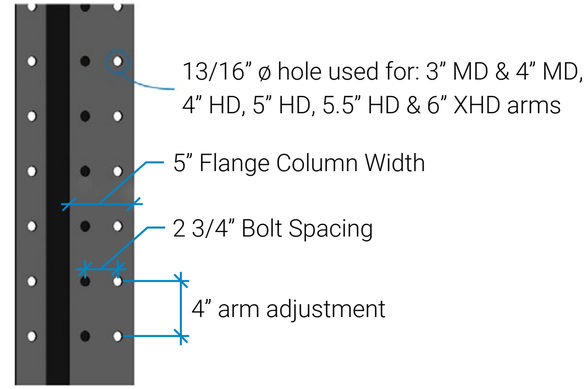
LD Column

Column	LD, Single- or Double-Sided Column
Punched Hole	9/16" ø hole used for 3"MD & 4"MD arms
	11 1/6" ø hole used for 4" HD, 5" HD
	and 5.5" HD arms
Width	4" Flange
Bolt Spacing	Horizontal 2"
	Vertical - 3" arm adjustment MD arms
	Vertical - 4" arm adjustment HD arms
Finish Interior	Industrial highly adhesive fast dry alkyd enamel
Finish Exterior	D.T.M. (Direct to Metal) fasy dry polyurethane
	liquid paint
Finish Bracing	Cogan Grey

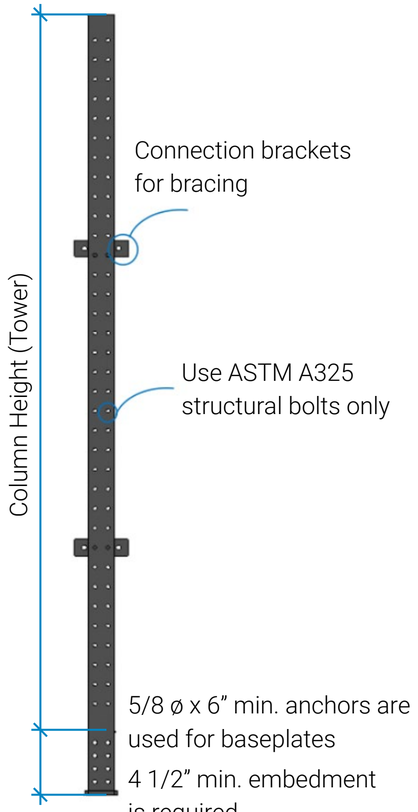


HD Column

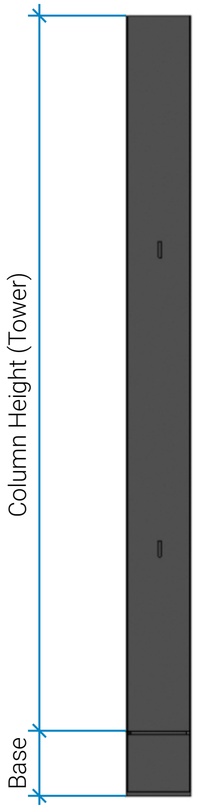
Column	HD, Single- or Double-Sided Column
Punched Hole	13/15" ø hole used for 3"MD & 4"MD,
	4" HD, 5" HD, 5.5" HD and 6" XHD arms
Width	5" Flange
Bolt Spacing	Horizontal 2 3/4"
	Vertical - 4" arm adjustment MD arms
Finish Interior	Industrial highly adhesive fast dry alkyd enamel
Finish Exterior	D.T.M. (Direct to Metal) fasy dry polyurethane
	liquid paint
Finish Bracing	Cogan Grey



Front View
LD & HD Column



Side View
LD & HD Column



Based on the length, number of arms, and capacity per arm, Cogan Estimation will determine whether LD or HD columns are required.

04 MAXIMUM CAPACITY TABLE

The capacity table below serves as a reference to help determine the appropriate arm and column combination for your racking system.

Please note that the indicated maximum loads are guidelines only, as they have been calculated for a specific indoor rack configuration. Actual maximum loads may vary slightly depending on your specific rack setup.

MAXIMUM ARM CAPACITY TABLE

	Available for LD & HD Columns				HD Columns Only
Arm Length	3” MD	4” MD	4” HD	5” HD	6” XHD
12”	3 770 lbs	5 590 lbs	8 900 lbs	13 820 lbs	23 460 lbs
18”	2 480 lbs	4 360 lbs	5 900 lbs	9 180 lbs	15 600 lbs
24”	1 820 lbs	3 230 lbs	4 390 lbs	6 850 lbs	11 670 lbs
30”	1 420 lbs	2 550 lbs	3 480 lbs	5 440 lbs	9 300 lbs
36”	1 150 lbs	2 090 lbs	2 860 lbs	4 500 lbs	7 710 lbs
42”	950 lbs	1 750 lbs	2 420 lbs	3 820 lbs	6 570 lbs
48”	790 lbs	1 500 lbs	2 080 lbs	3 310 lbs	5 620 lbs
54”	670 lbs	1 290 lbs	1 810 lbs	2 900 lbs	5 040 lbs
60”	560 lbs	1 130 lbs	1 590 lbs	2 570 lbs	4 500 lbs
66”	5+0 lbs	980 lbs	1 400 lbs	2 290 lbs	4 040 lbs
72”	390 lbs	860 lbs	1 240 lbs	2 060 lbs	3 670 lbs
78”	320 lbs	750 lbs	1 110 lbs	1 860 lbs	3 350 lbs
84”	250 lbs	660 lbs	990 lbs	1 690 lbs	3 070 lbs
90”	200 lbs	570 lbs	880 lbs	1 540 lbs	2 820 lbs
96”	140 lbs	500 lbs	790 lbs	1 400 lbs	2 610 lbs

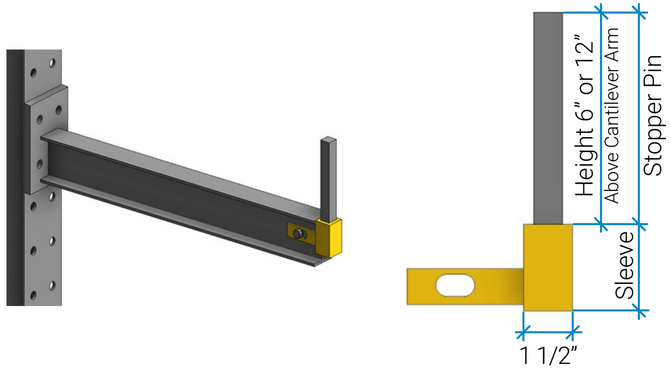
05 ARM STOPPERS & ACCESSORIES

5.1 Removable and Fixed Stopper Pins

Stopper pins help prevent materials from slipping or rolling off the rack arms. Choose from two types: removable or fixed.

Removable Arm Stopper Pins

The removable stopper pin is designed as a rectangular tube that fits into a square sleeve, which is securely bolted to the end of the rack arm.



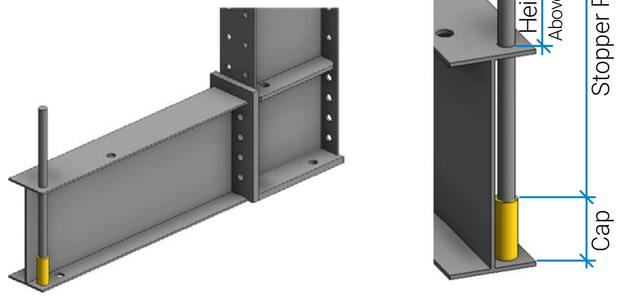
Size ☐ 6" ☐ 12" Qty

Specifications

Pin Height	6" or 12" from top of the cantilever arm
Sleeve	1 1/2" x 1 1/2" square
Requires	1/2" ø x 1 1/2" ASTM bolt *(sold separately)*
Finish	Electro-Galvanized *Stopper Pin*; Safety Yellow *Sleeve*

Removable Base Stopper Pins

The removable base stopper pin is a rod that inserts into a hollow cylindrical support at the base of the rack.



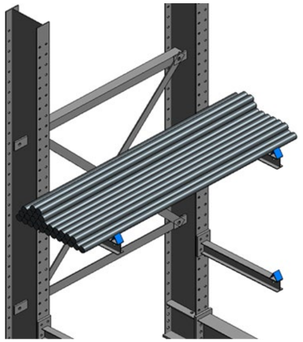
Size ☐ 6" ☐ 12" Qty

Specifications

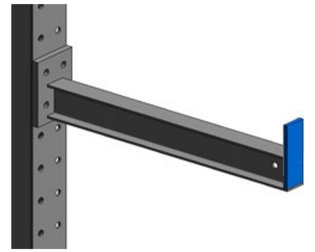
Pin Height	6" or 12" from top of the cantilever base
Cap	
Connection	Welded to the base
Finish	Electro-Galvanized *Stopper Pin*; Safety Yellow *Cap*

Welded Arm Stopper Lip

The welded arm stopper lip is a rectangular plate welded to the front edge of the rack arm's top flange.

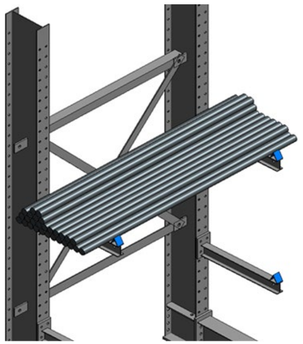


Qty

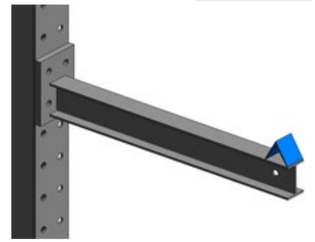


Welded Angle Arm Stopper

The welded angle arm stopper is a triangular-shaped section made from a folded plate. It can be welded to the front and back of the rack arm's tip, helping to keep materials centered.



Qty



Finish: Cogan Grey *Angle and Lip*

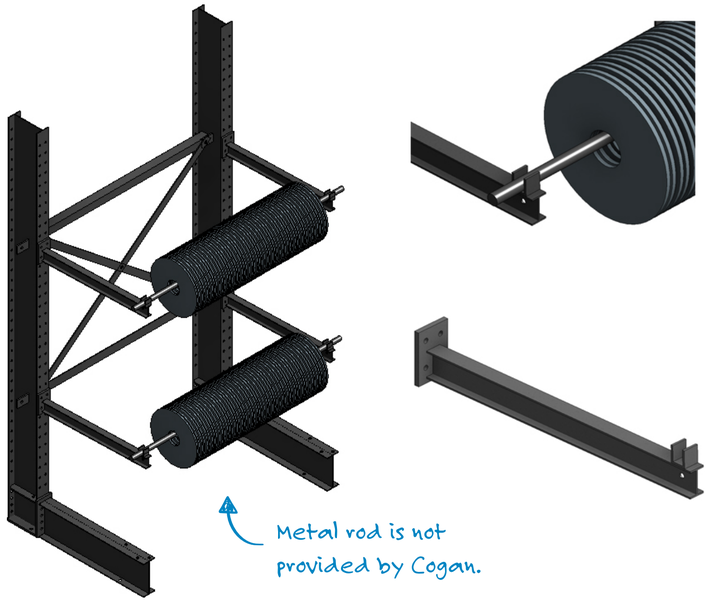
5.2 Arm Accessories

Welded U or V brackets are available as additional arm accessories, providing secure support for coils and other types of rolled material.

Welded U-Bracket

U-brackets are welded to the end of each arm and require a metal rod to span the distance between columns.

Qty



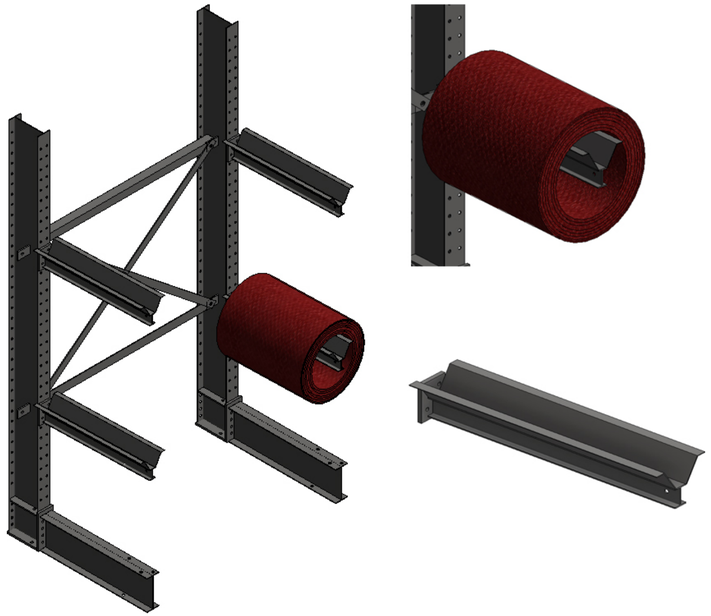
Finish

Cogan Grey

Welded V-Bracket

V-brackets are welded the entire length of the cantilever arm.

Qty



Finish

Cogan Grey

06 SHELF OVERLAYS (BEAM SUPPORTS)

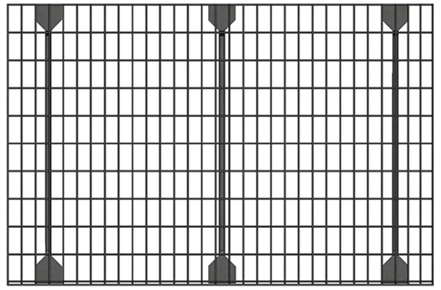
The wire mesh overlay provides sturdy support for materials. It is placed between the rack arms and secured using front and back beam supports. Ideal for indoor and outdoor applications.

6.1 Specifications

Item # MSH.22.10.48

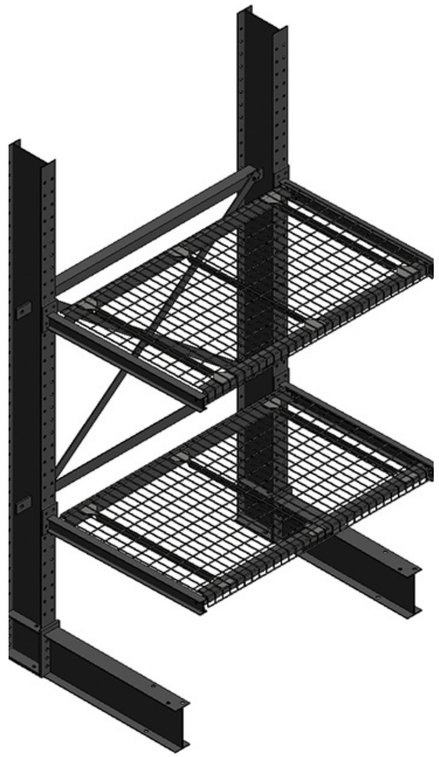
Length	63 3/4”
Width	48”
Weight	47.52 lbs
Surface Area	24.515 ft^2
Beam Supports	Front and back beams supports are required for proper reinforcement.
Use	Interior and Exterior
Connection	Self-supporting, does not require bolts.
Finishes	Cogan Grey; Electro-Galvanized

Wire Mesh Decking



Wire Mesh Cantilever System

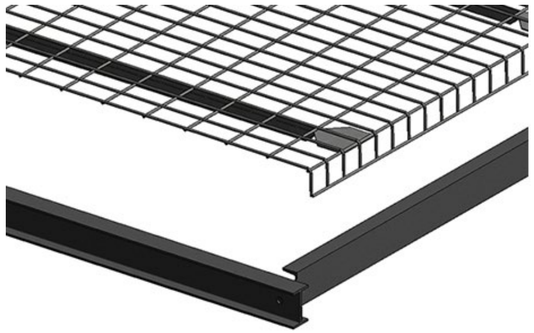
Two Shelves



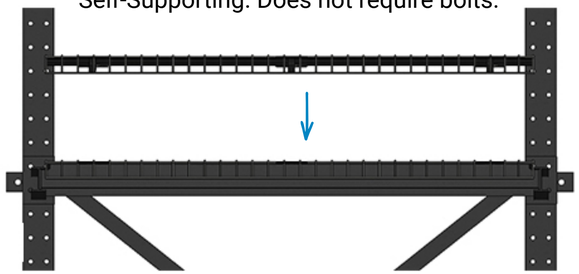
IMPORTANT

Cogan cantilever racking system is manufactured to support wire mesh decking Item #MSH.22.10.48, which is **NOT** manufactured by Cogan.

Wire Mesh Corner Detail



Self-Supporting. Does not require bolts.



6.2 Beam Support

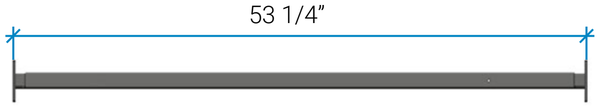
Shelf beam supports are fastened between each column using structural grade bolts. Wire mesh overlay is placed on top of the beam supports.

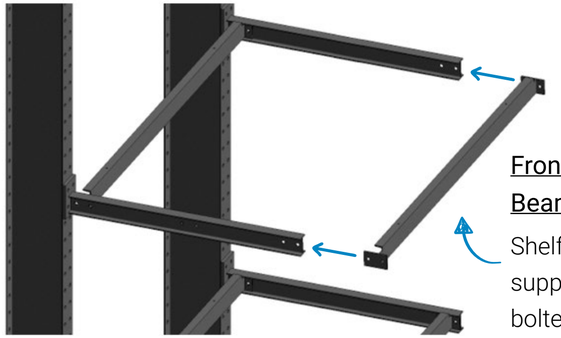
Qty

Size	Column Spacing	Span
C3 x 3.5 x 53 3/4”	54” center-to-center	53 1/4”
C3 x 4.1 x 75 3/4”	76” center-to-center	53 1/4”

Plan View

Beam Shelf Support



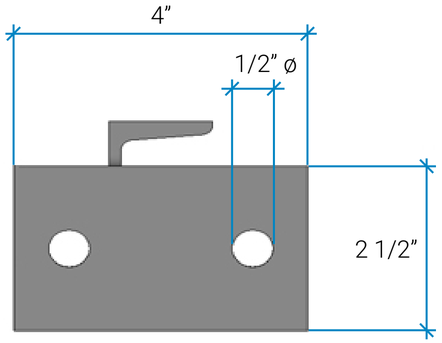


Front and Back Beam Supports

Shelf beam supports are bolted to the cantilever arms.

Side View

Requires (2) ASTM A325 structural bolts on each side.



Finish

Cogan Grey

07 GUIDE RAIL (VNA Cantilever Racking Only)

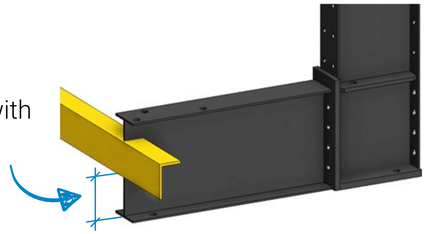
Guide rails help steer narrow-aisle forklifts through picking aisles, ensuring faster, easier, and more efficient operation.

They are classified into two types: **aisle guide rail** and **end-of-aisle guide.** Together, these form a continuous protective barrier around the cantilever system.

Aisle Guide Rail

Aisle guide rails are welded directly to the cantilever base on-site, guiding forklifts safely through each picking aisle.

Adjustable Height
Must be centered with forklift side wheels.

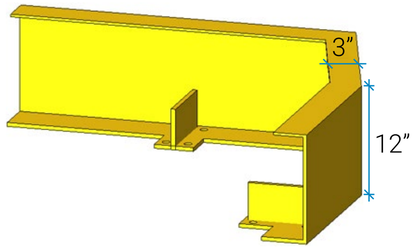


Specifications

Purpose	Maximize storage, interior use
Design	Designed for narrow aisle fork trucks
Installation	Inserted into the base
Size	4” x 6” x 3/8”
Material	Structural Steel
Finish	Standard raw, unfinished steel. Most econominal. Recommended. Safety Yellow. Optional - Availalble at an additional cost. Touch up paint required after installation.

End-of-Aisle-Guide

End-of-aisle guide rails are installed at the end of each run and securely bolted to the floor. Angles are then welded on either side to link them to the aisle guide rails, preventing forklifts from making contact with the racking when turning corners.



Specifications

Purpose	Maximize storage, interior use
Design	Designed for narrow aisle fork trucks
Installation	Heavy-duty, bolted to the floor
Height	12”
Material	Structural Steel
Finish	Safety Yellow
Connection	ASTM A325 structural bolts

08 ROOFING (Outdoor Cantilever Racking Only)

If your cantilever racking is intended for outdoor use, adding a roof system can help protect stored materials from the elements. We offer two options: **L-Sheds** or **T-Sheds**.

8.1 Specifications

Loads	Designed to resist snow and wind loads
Installation Type	Flush against a wall or with a back panel *(L-Shed)* Open areas *(T-Shed)*
Slope	6° inclination from the horizontal
Roof Deck Material	Galvanized steel with an additional protective white undercoat
Roof Support Material	Wood studs (refer to Approval Drawings)
Steel Deck Connection	#8 x 1 3/4” hex head tek screw with rubber seal (waterproof)
Roof Arms	Structural s-sections or w-sections or equivalent
	Meets and exceeds ASTM A572 grade 50 and/or CSA G40.21 350W
Connection Plates	Meets and exceeds ASTM A36 44W

Finish

White Undercoat
Steel Deck - Roof and Back

Treated Wood
Roof Joists

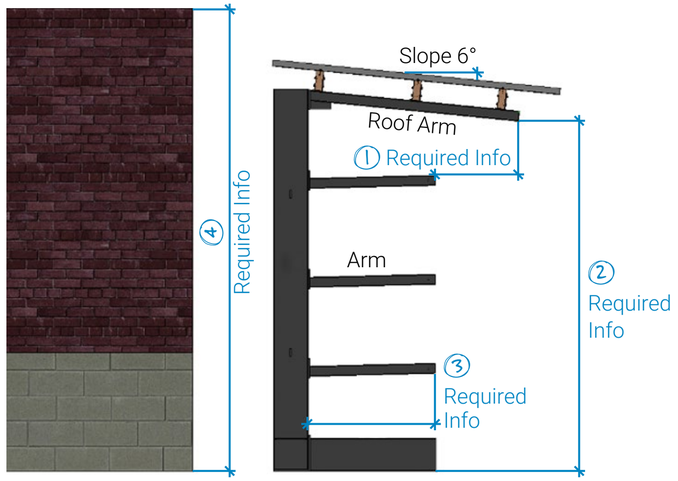
Cogan Grey
Columns, Bases, and Arms

8.2 L-Sheds

For single-sided configurations, L-sheds can be installed against a wall or along the side of a building.

To select the proper for components your L-Shed, we'll need a few key dimensions related to your rack design and installation site.

Side View of L-Shed - Installation Against a Building

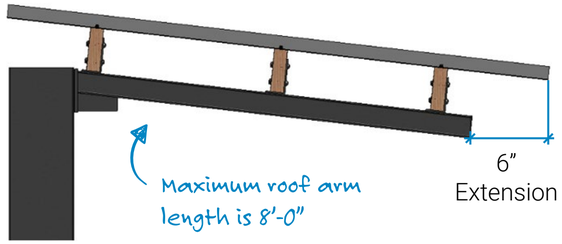


Required Information

1. Distance between front edge of cantilever arms and front edge of roof arm
2. Distance between bottom edge of roof arm and cantilever base
3. Length of cantilever arms
4. Height of the building

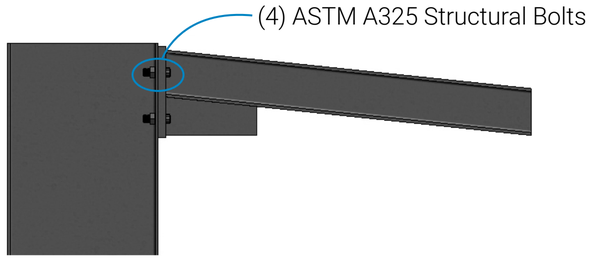
L-Shed Roof Detail

Steel Deck Roof Aligned with the Back of the Column



Roof Arm Detail

Bolt Connection



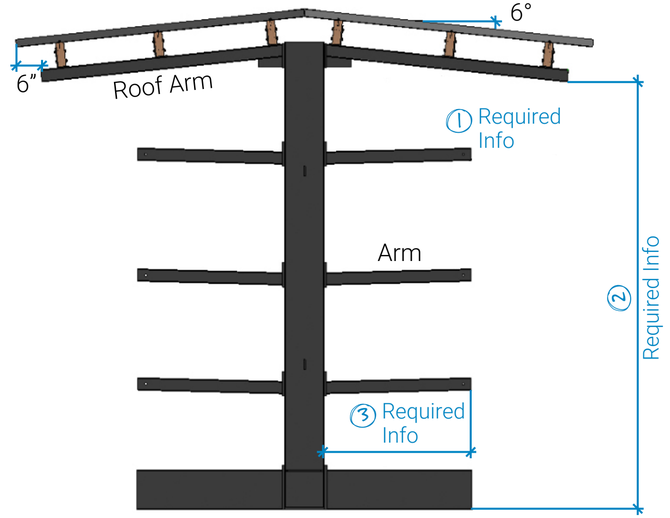
8.3 T-Sheds

For double-sided configurations, T-Sheds can be installed in open areas.

To select the proper components for your T-Shed, we'll need a few key dimensions related to your rack design.

Side View of T-Shed

Installation in an Open Area

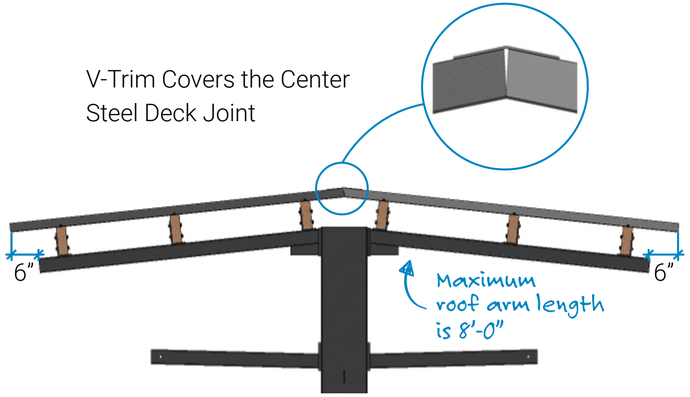


Required Information

1. Distance between front edge of cantilever arms and front edge of roof arms
2. Distance between bottom edge of roof arms and cantilever base
3. Length of cantilever arms

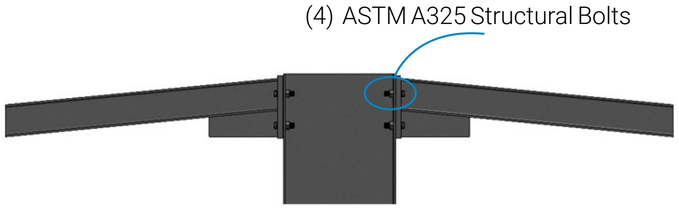
T-Shed Roof Detail

6” Extension on Each Side



Roof Arm Detail

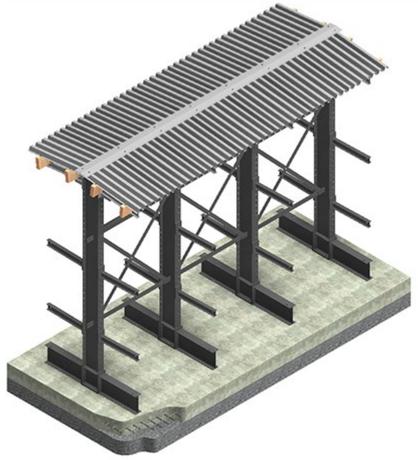
Bolt Connection

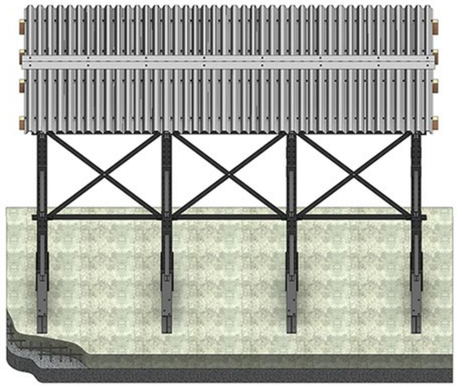


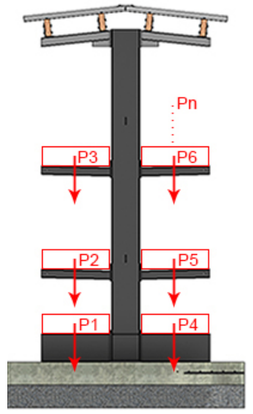
8.4 Concrete Slab Example

As mentioned at the beginning of this chapter, all outdoor cantilever rack systems must be installed on a concrete slab.

Below is an example of the engineering calculations used to determine the loads applied to the concrete. For illustration purposes, this example features a double-sided configuration; however, the same principles apply to single-sided racking.







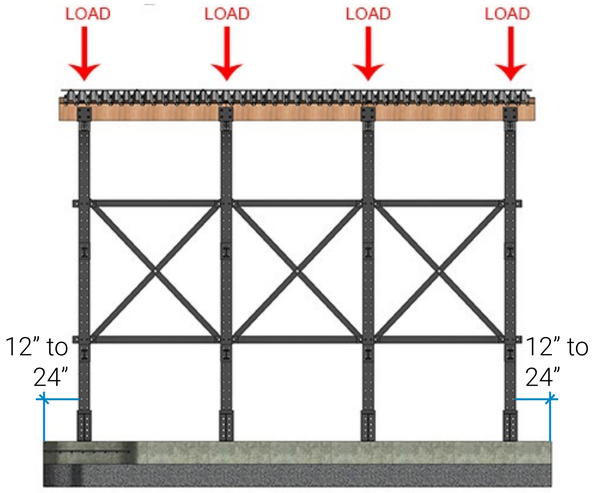
Total Max Load:

E = P1 + P2 + P3 + P4 + P5 + P6 + ... + PN

Note: Calculations do not include back panels and seismic.

CONCRETE ‘SLAB’ EXAMPLE				
8” to 12” L L 8” to 12” Concrete = fc’ = 25 MPa min. Concrete - 4000 psi (27 MPa) Steel = Fy = 60 ksi (400 MPa) Rebar Concrete Gravel	TOTAL MAX. LOAD OF THE COLUMN			
	L = 2’	L = 3’	L = 4’	L = 5’
4” 4” 8” 8” 2 Wire Mesh 4” x 4” x 6/6	27000 lbs	34500 lbs	42000 lbs	49000 lbs
6” 4” 10” 10” 2 Wire Mesh 4” x 4” x 4/4	32000 lbs	41500 lbs	50000 lbs	57000 lbs

LOAD BEARING CAPACITY OF GROUND 2000 LBS / FT^2



New RFQ Worksheet

Your Path to Project Success

Now that you've mastered the requirements for a successful cantilever rack quote, you're ready to embark on your own path to project success!

Download our handy *New RFQ Worksheet* to use a guide when submitting your quote requests. Just complete each section and submit to your designated RFQ Manager.

How easy is that?

Click Here

to download the *New RFQ Worksheet.*

Cogan
A Tradition of Quality Since 1901

Cantilever Racking
Store Any Size, Any Shape

NEW RFQ WORKSHEET

For new quote requests, please complete the form below and submit to your RFQ Manager.

1 GENERAL INFORMATION

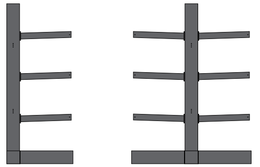
Project Name

Location — City — State — Zip Code

Installation Site ☐ Indoors ☐ Outdoors

2 ARMS

Configuration



☐ Single-Sided ☐ Double-Sided

Arm Style



☐ 1.5° incline



☐ 3° incline

Capacity Details

Capacity Per Arm (lbs) ____ Qty of Arms Per Side ____

Length (Inches)

Arms ☐ 12" ☐ 18" ☐ 24" ☐ 30" ☐ 36" ☐ 42" ☐ 48" ☐ 54"
☐ 60" ☐ 66" ☐ 72" ☐ 78" ☐ 84" ☐ 90" ☐ 96"

If multiple arm lengths required, please specify: ____

Base ____ Must be equal to or greater than the longest arm per side. Maximum arm and base length is 8'-0".

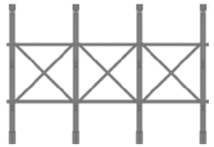
3 COLUMNS

Column Runs

Quantity of Runs ____

Quantity of Columns per Run ____

Example of a 6-column run



Column Spacing

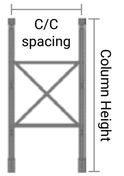
Maximum Spacing Between Columns ____

Maximum allowable column spacing is 8'-0" center-to-center (C/C).

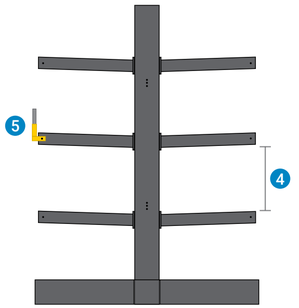
Column Height

Total Height (Inches) ____

Maximum column height is 26'-0".



Please use the following diagram as reference when completing sections 4 and 5 below.



4 ARM SPACING

Arm Spacing (Inches Clear) ____

5 STOPPERS & ARM ACCESSORIES

Removable Stoppers

☐ None ☐ Removable 6" H ☐ Removable 12" H



Fixed Stoppers

☐ None ☐ Welded Angle Arm Stopper



☐ Welded Arm Stopper Lip



Floor Anchors

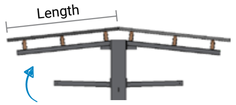
☐ Yes ☐ No

6 ROOFING

Is roofing required?

☐ Yes ☐ No

Length (Inches) ____



Maximum roof arm length is 8'-0".

7 FREIGHT

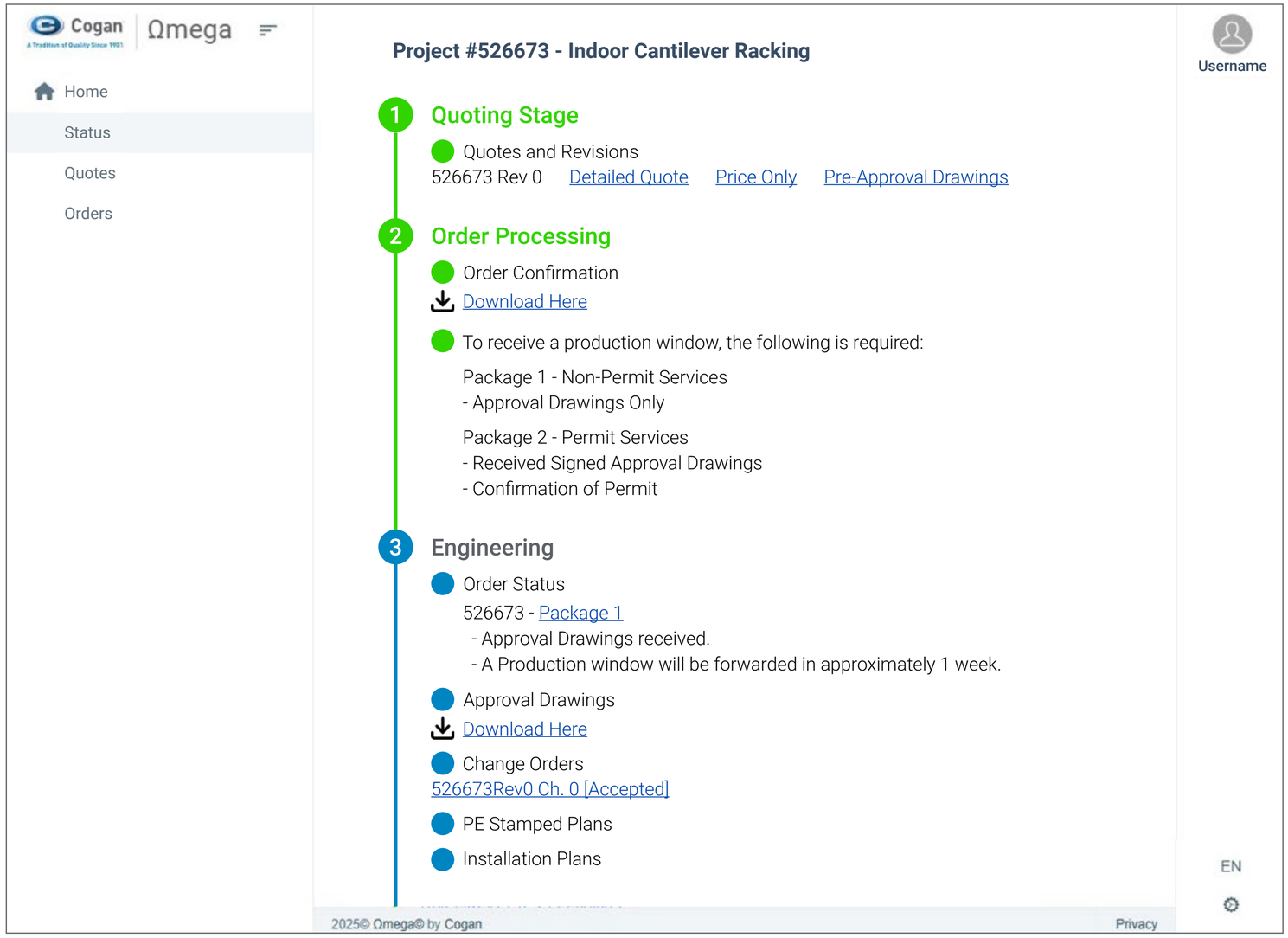
Do you need a freight quote for this project? ☐ Yes ☐ No

8 ADDITIONAL COMMENTS

Chapter 3

From Your Quote to Production

- Quoting to Production: *An Overview*
- How to Read Your Quote
- Direct-to-Scheduling Approval Drawings
- Verifying Approval Drawings On-Site
- Your Approval Drawing FAQs
- Additional Support

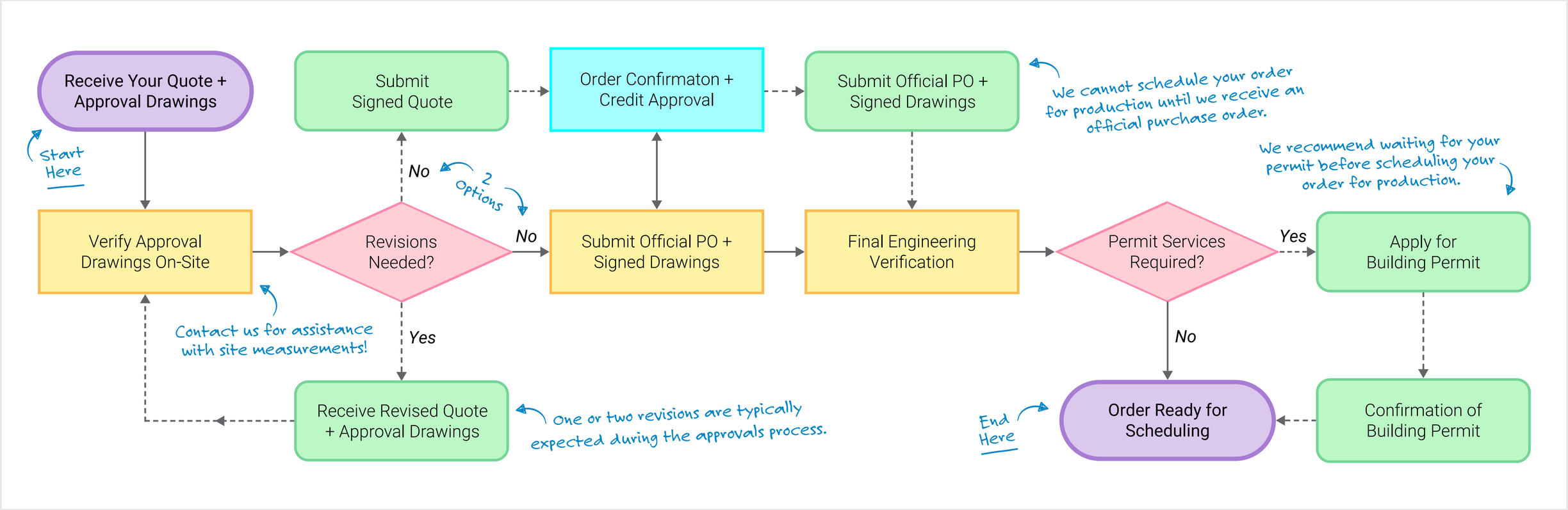


** The above project highway is for example purposes only.*

From Quoting to Production: An Overview

The Process from A to Z

For cantilever racking, most of the design work and calculations are completed during the quoting stage, allowing your project to move through Engineering more quickly before being scheduled for production. Below is a step-by-step overview of the entire process, ensuring you never miss a detail.



How to Read Your Quote

The Nuts & Bolts

We always aim to simplify your work process with us. Our quotes are straightforward and easy to read. No hidden fees or red tape. These are just a few key pointers to make sure you don't miss a thing.

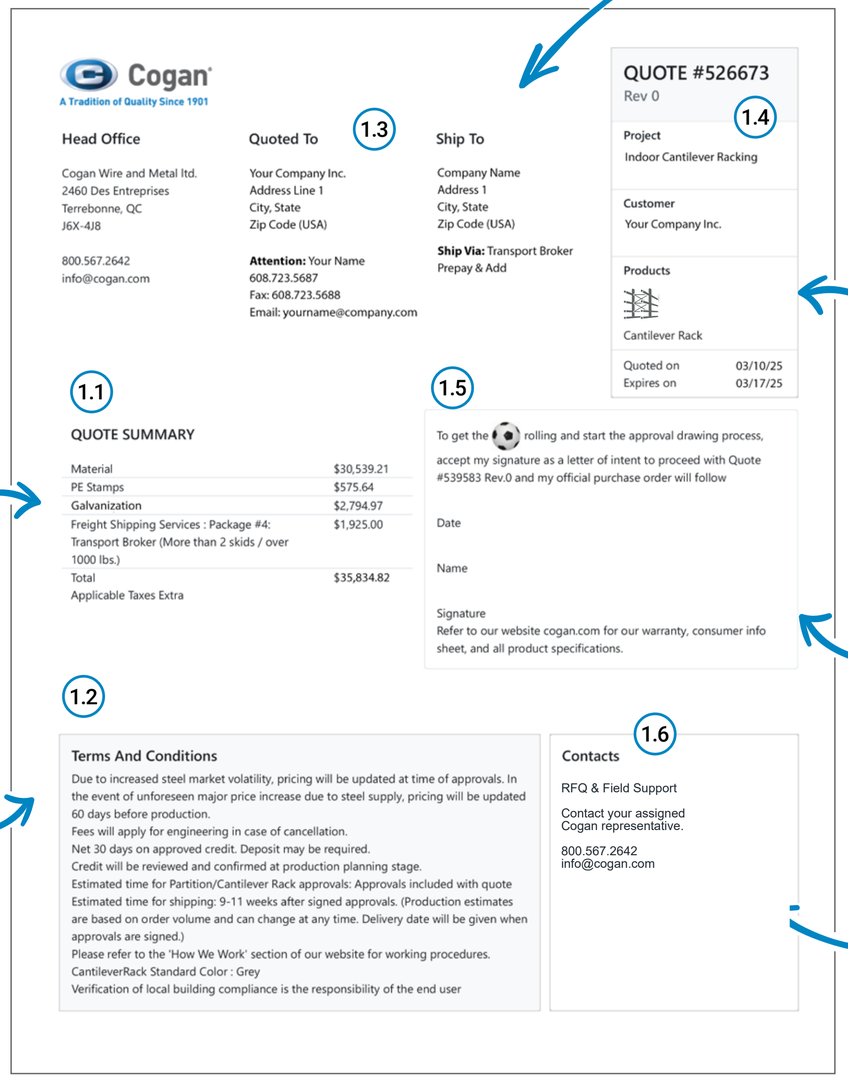
1.1 Quote Summary

Your budget at a glance. See the price breakdown for each section of your quote as well as the total dollar value.

1.2 Always Read the Fine Print

Please review the Terms & Conditions section carefully. This is where you'll find your payment schedule and the most recent estimated lead times. Notice that approval drawings are included **with** your quote. More on this in the next section!

Quote Cover Page



1.3 Your Contact Information

The center columns are where you'll find your contact information and ship-to details. Note the primary contact identified under "Attention". This person will receive all email notifications and have access to the project on their Dealer Portal. If this is not the right contact or if someone else needs to be CC'd on status updates, please notify your RFQ Manager.

1.4 Easy to Keep Track

Identify your project in a flash. The top right corner is where you'll find the quote number and revision, project name, product, and **very** important - the expiration date. Pricing is valid for 8 days (including weekends) and will need to be refreshed once this window has timed out.

1.5 Sign Your Quote

Ready to move forward but need some time to prepare your purchase order? We understand. Signing this section moves your order all the way to the Engineering stage. This can save weeks of lead time while you wait for your PO.

1.6 Who You Gonna Call?

Is there something strange in your paperwork? Who you gonna call? Our resident *quotebusters*! Find the contact info for your RFQ Manager and Field Manager here.

2

Body of the Quote

2.1 Have it Your Way

Any customization will be included in a written summary at the top of your quote. Please read this section carefully as it can sometimes override parts of the material description below.

2.2 The Meat & Potatoes

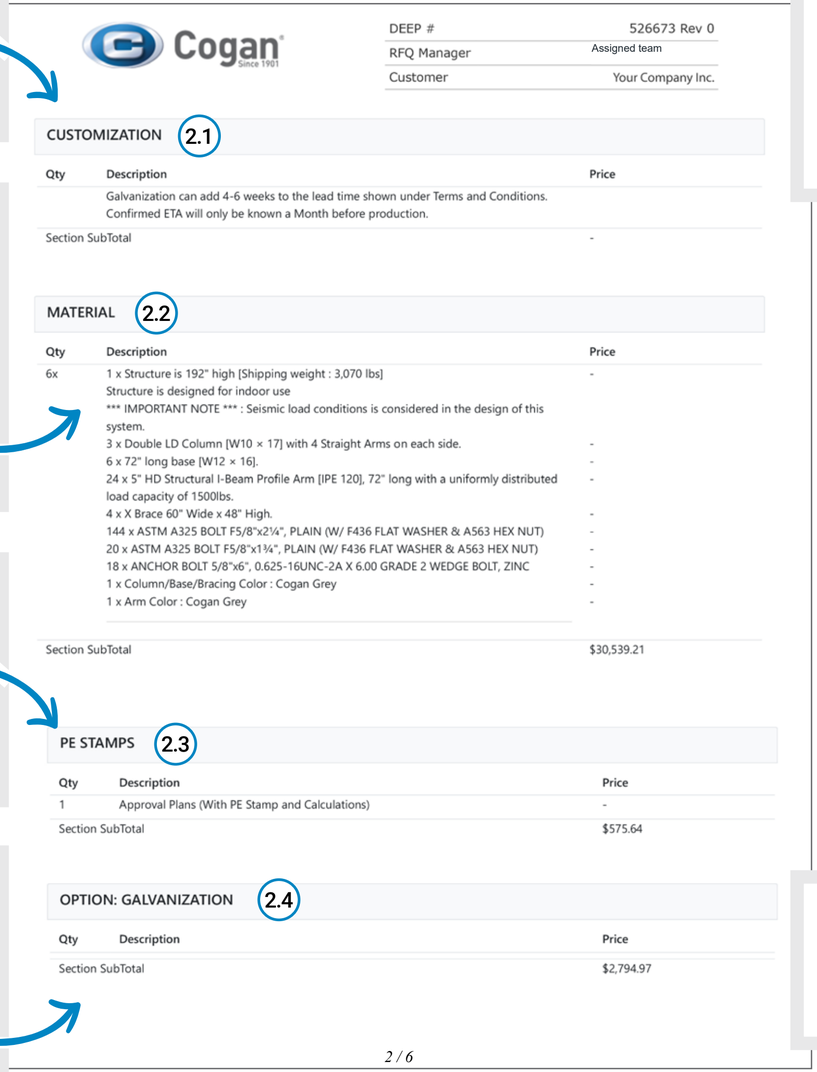
This is the main section of your quote. It summarizes the racking structure itself, including height, load capacity, column and arm type, bracing, arm accessories, hardware, and paint finish. For outdoor cantilever racking, roofing details will also be included, if applicable.

2.3 Engineering Services

If you've requested special Engineering Services, such as PE Stamps for a permit application. these will always be priced separately from the structure as an option.

2.4 Galvanization (Outdoor Racking Only)

We offer galvanization as a special finish for outdoor installations. This process requires additional production time and is always priced separately as an option.



Cogan Since 1901

DEEP #	526673 Rev 0
RFQ Manager	Assigned team
Customer	Your Company Inc.

CUSTOMIZATION 2.1

Qty	Description	Price
	Galvanization can add 4-6 weeks to the lead time shown under Terms and Conditions. Confirmed ETA will only be known a Month before production.	
Section SubTotal		-

MATERIAL 2.2

Qty	Description	Price
6x	1 x Structure is 192" high [Shipping weight : 3,070 lbs] Structure is designed for indoor use *** IMPORTANT NOTE *** : Seismic load conditions is considered in the design of this system.	-
	3 x Double LD Column [W10 × 17] with 4 Straight Arms on each side.	-
	6 x 72" long base [W12 × 16].	-
	24 x 5" HD Structural I-Beam Profile Arm [IPE 120], 72" long with a uniformly distributed load capacity of 1500lbs.	-
	4 x X Brace 60" Wide x 48" High.	-
	144 x ASTM A325 BOLT F5/8"x2¼", PLAIN (W/ F436 FLAT WASHER & A563 HEX NUT)	-
	20 x ASTM A325 BOLT F5/8"x1¾", PLAIN (W/ F436 FLAT WASHER & A563 HEX NUT)	-
	18 x ANCHOR BOLT 5/8"x6", 0.625-16UNC-2A X 6.00 GRADE 2 WEDGE BOLT, ZINC	-
	1 x Column/Base/Bracing Color : Cogan Grey	-
	1 x Arm Color : Cogan Grey	-
Section SubTotal		$30,539.21

PE STAMPS 2.3

Qty	Description	Price
1	Approval Plans (With PE Stamp and Calculations)	-
Section SubTotal		$575.64

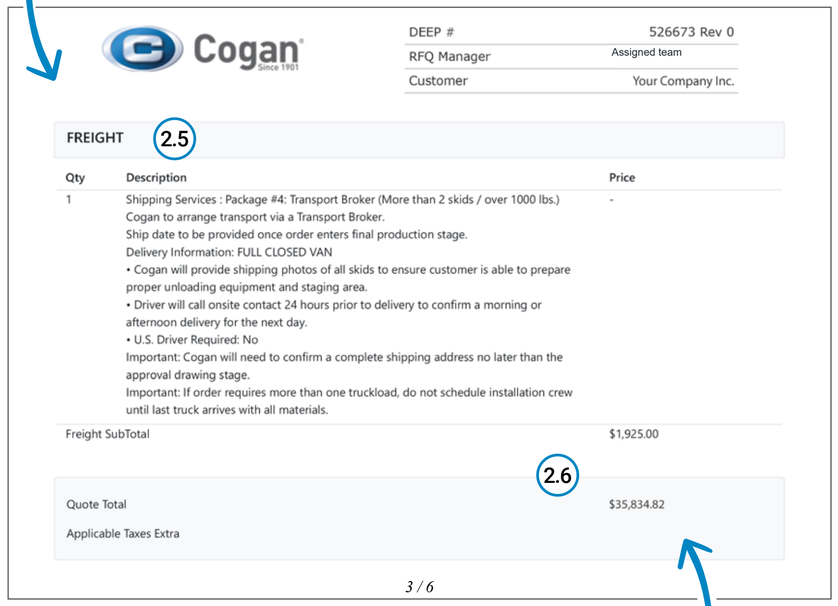
OPTION: GALVANIZATION 2.4

Qty	Description	Price
Section SubTotal		$2,794.97

2 / 6

2.5 From our Door to Yours *(or your Customer's)*

The freight section summarizes how your order will ship, whether you're using Cogan Shipping Services or arranging your own transport. Here you'll find the shipping method, such as Transport Broker, LTL Closed or Pick Up, and any special delivery notes. Freight is also always priced separately as an option.



Cogan Since 1901

DEEP #	526673 Rev 0
RFQ Manager	Assigned team
Customer	Your Company Inc.

FREIGHT 2.5

Qty	Description	Price
1	Shipping Services : Package #4: Transport Broker (More than 2 skids / over 1000 lbs.) Cogan to arrange transport via a Transport Broker. Ship date to be provided once order enters final production stage. Delivery Information: FULL CLOSED VAN • Cogan will provide shipping photos of all skids to ensure customer is able to prepare proper unloading equipment and staging area. • Driver will call onsite contact 24 hours prior to delivery to confirm a morning or afternoon delivery for the next day. • U.S. Driver Required: No Important: Cogan will need to confirm a complete shipping address no later than the approval drawing stage. Important: If order requires more than one truckload, do not schedule installation crew until last truck arrives with all materials.	-
Freight SubTotal		$1,925.00

2.6

Quote Total	$35,834.82
Applicable Taxes Extra	

3 / 6

2.6 The Bottom Line

The grand total for all sections of your quote, including options and freight, will be listed as the last line item. You can also find this on the quote cover page.

Direct-to-Scheduling Approval Drawings

Your Biggest Time Saver

1 Cover Page

Your Official Approval Drawings

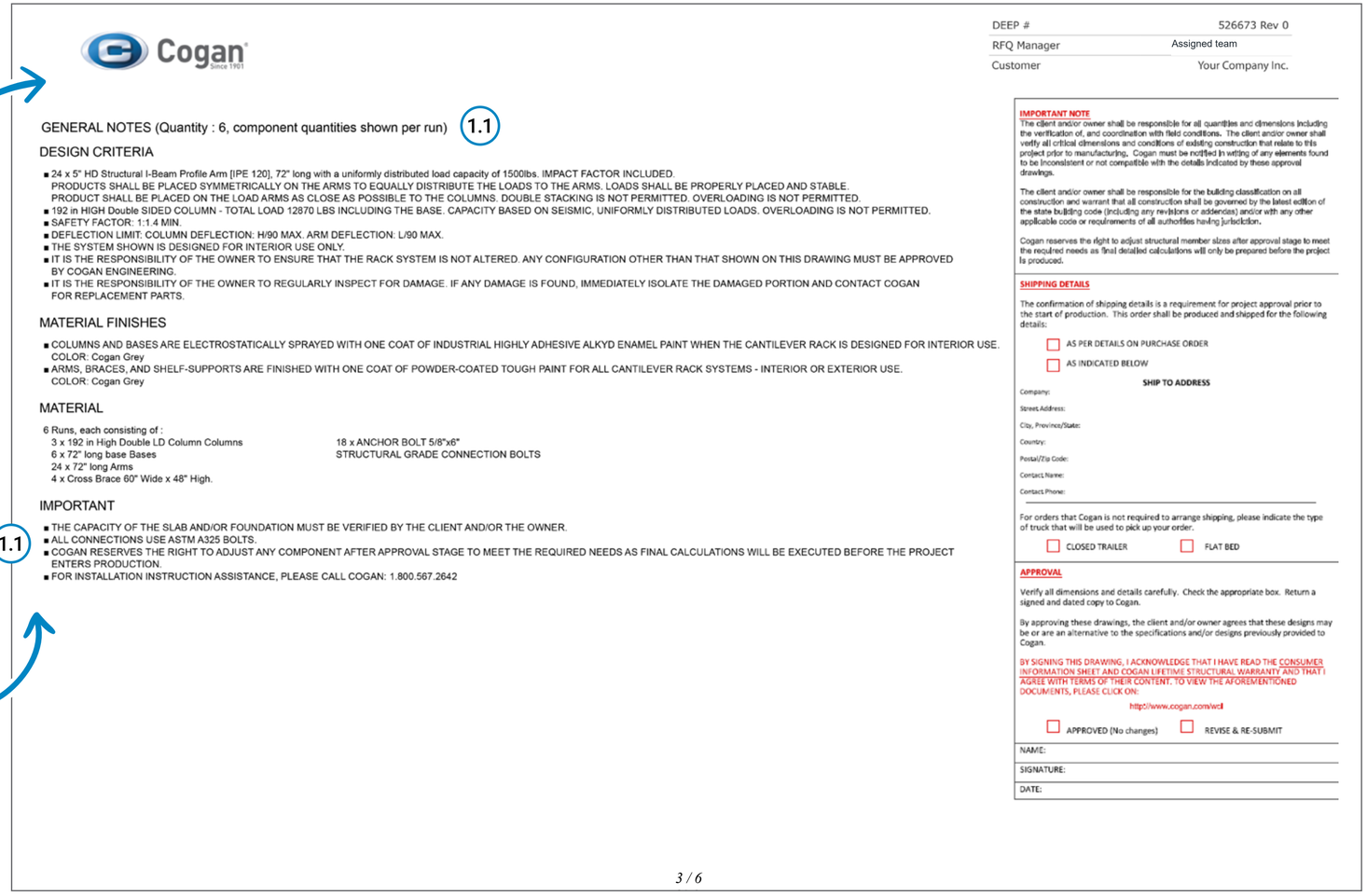
We're committed to saving time for you and your customer whenever possible. One major advantage of our cantilever process is that the drawings included with your quote serve as the official approval plans. Our precision estimation software ensures that engineering calculations are done at the quoting stage. Once you sign off on these drawings, your order moves directly to scheduling and into production. Jumping the line has never been so easy!

1.1 General Notes

The General Notes section provides a summary of your racking structure, including design criteria, material finishes, and a breakdown of material components. Component quantities are listed per run. If your project includes multiple runs with different criteria, you'll receive a separate approval package for each.

Important

Pay special attention to this disclaimer. Slab and/or foundation verification is the responsibility of the client and/or the owner.



Cogan

DEEP #	526673 Rev 0
RFQ Manager	Assigned team
Customer	Your Company Inc.

GENERAL NOTES (Quantity : 6, component quantities shown per run) 1.1

DESIGN CRITERIA

- 24 x 5" HD Structural I-Beam Profile Arm [IPE 120], 72" long with a uniformly distributed load capacity of 1500lbs. IMPACT FACTOR INCLUDED. PRODUCTS SHALL BE PLACED SYMMETRICALLY ON THE ARMS TO EQUALLY DISTRIBUTE THE LOADS TO THE ARMS. LOADS SHALL BE PROPERLY PLACED AND STABLE. PRODUCT SHALL BE PLACED ON THE LOAD ARMS AS CLOSE AS POSSIBLE TO THE COLUMNS. DOUBLE STACKING IS NOT PERMITTED. OVERLOADING IS NOT PERMITTED.
- 192 in HIGH Double SIDED COLUMN - TOTAL LOAD 12870 LBS INCLUDING THE BASE. CAPACITY BASED ON SEISMIC, UNIFORMLY DISTRIBUTED LOADS. OVERLOADING IS NOT PERMITTED.
- SAFETY FACTOR: 1:1.4 MIN.
- DEFLECTION LIMIT: COLUMN DEFLECTION: H/90 MAX. ARM DEFLECTION: L/90 MAX.
- THE SYSTEM SHOWN IS DESIGNED FOR INTERIOR USE ONLY.
- IT IS THE RESPONSIBILITY OF THE OWNER TO ENSURE THAT THE RACK SYSTEM IS NOT ALTERED. ANY CONFIGURATION OTHER THAN THAT SHOWN ON THIS DRAWING MUST BE APPROVED BY COGAN ENGINEERING.
- IT IS THE RESPONSIBILITY OF THE OWNER TO REGULARLY INSPECT FOR DAMAGE. IF ANY DAMAGE IS FOUND, IMMEDIATELY ISOLATE THE DAMAGED PORTION AND CONTACT COGAN FOR REPLACEMENT PARTS.

MATERIAL FINISHES

- COLUMNS AND BASES ARE ELECTROSTATICALLY SPRAYED WITH ONE COAT OF INDUSTRIAL HIGHLY ADHESIVE ALKYD ENAMEL PAINT WHEN THE CANTILEVER RACK IS DESIGNED FOR INTERIOR USE. COLOR: Cogan Grey
- ARMS, BRACES, AND SHELF-SUPPORTS ARE FINISHED WITH ONE COAT OF POWDER-COATED TOUGH PAINT FOR ALL CANTILEVER RACK SYSTEMS - INTERIOR OR EXTERIOR USE. COLOR: Cogan Grey

MATERIAL

6 Runs, each consisting of :
3 x 192 in High Double LD Column Columns
6 x 72" long base Bases
24 x 72" long Arms
4 x Cross Brace 60" Wide x 48" High.

18 x ANCHOR BOLT 5/8"x6"
STRUCTURAL GRADE CONNECTION BOLTS

IMPORTANT

1.1

- THE CAPACITY OF THE SLAB AND/OR FOUNDATION MUST BE VERIFIED BY THE CLIENT AND/OR THE OWNER.
- ALL CONNECTIONS USE ASTM A325 BOLTS.
- COGAN RESERVES THE RIGHT TO ADJUST ANY COMPONENT AFTER APPROVAL STAGE TO MEET THE REQUIRED NEEDS AS FINAL CALCULATIONS WILL BE EXECUTED BEFORE THE PROJECT ENTERS PRODUCTION.
- FOR INSTALLATION INSTRUCTION ASSISTANCE, PLEASE CALL COGAN: 1.800.567.2642

IMPORTANT NOTE
The client and/or owner shall be responsible for all quantities and dimensions including the verification of, and coordination with field conditions. The client and/or owner shall verify all critical dimensions and conditions of existing construction that relate to this project prior to manufacturing. Cogan must be notified in writing of any elements found to be inconsistent or not compatible with the details indicated by these approval drawings.

The client and/or owner shall be responsible for the building classification on all construction and warrant that all construction shall be governed by the latest edition of the state building code (including any revisions or addendas) and/or with any other applicable code or requirements of all authorities having jurisdiction.

Cogan reserves the right to adjust structural member sizes after approval stage to meet the required needs as final detailed calculations will only be prepared before the project is produced.

SHIPPING DETAILS

The confirmation of shipping details is a requirement for project approval prior to the start of production. This order shall be produced and shipped for the following details:

☐ AS PER DETAILS ON PURCHASE ORDER
☐ AS INDICATED BELOW

SHIP TO ADDRESS

Company:
Street Address:
City, Province/State:
Country:
Postal/Zip Code:
Contact Name:
Contact Phone:

For orders that Cogan is not required to arrange shipping, please indicate the type of truck that will be used to pick up your order.

☐ CLOSED TRAILER ☐ FLAT BED

APPROVAL

Verify all dimensions and details carefully. Check the appropriate box. Return a signed and dated copy to Cogan.

By approving these drawings, the client and/or owner agrees that these designs may be or are an alternative to the specifications and/or designs previously provided to Cogan.

BY SIGNING THIS DRAWING, I ACKNOWLEDGE THAT I HAVE READ THE CONSUMER INFORMATION SHEET AND COGAN LIFETIME STRUCTURAL WARRANTY AND THAT I AGREE WITH TERMS OF THEIR CONTENT. TO VIEW THE AFOREMENTIONED DOCUMENTS, PLEASE CLICK ON:

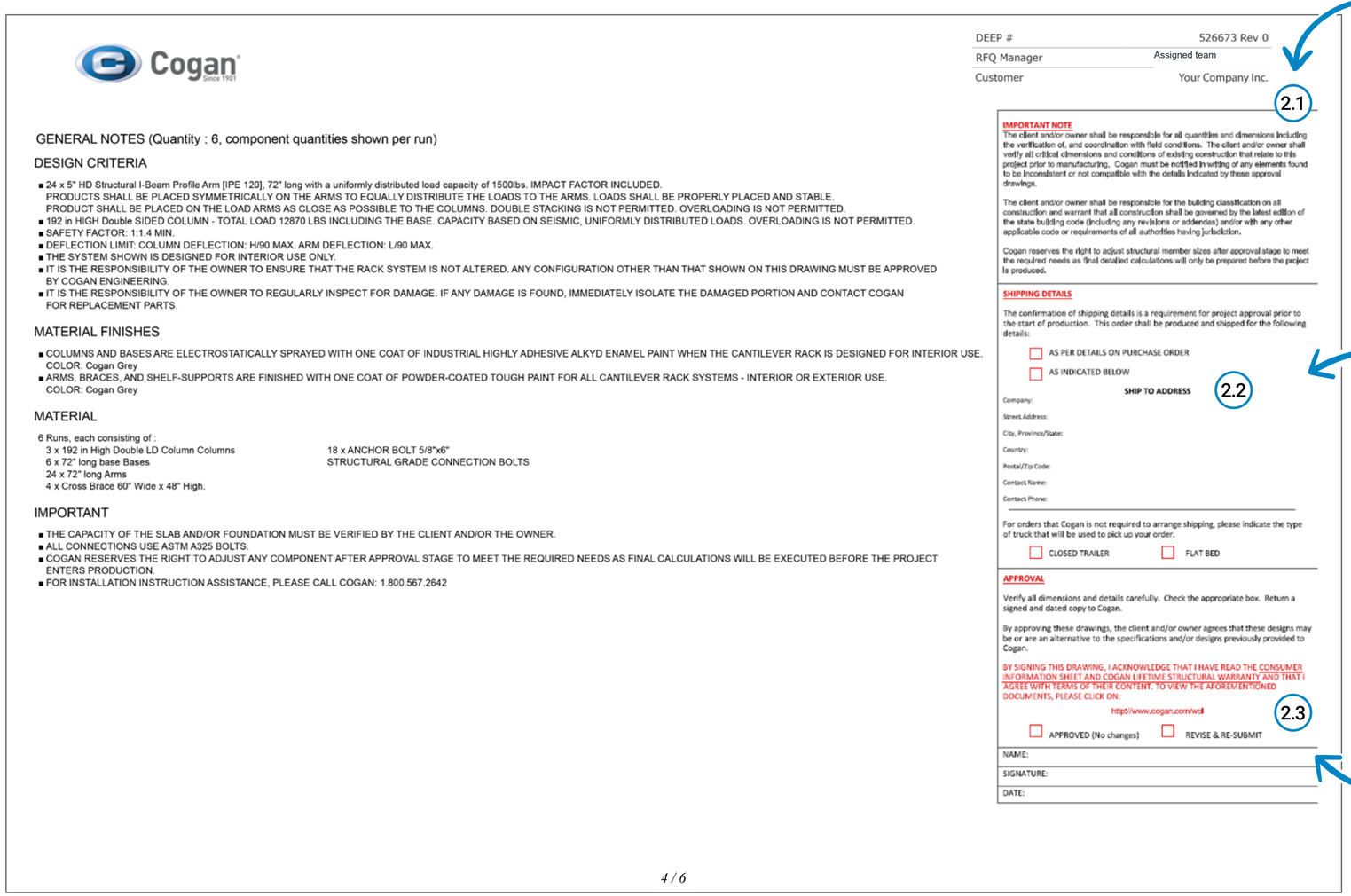
http://www.cogan.com/wcl

☐ APPROVED (No changes) ☐ REVISE & RE-SUBMIT

NAME:
SIGNATURE:
DATE:

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2 Cover Page (cont'd)



Cogan since 1901

DEEP # 526673 Rev 0

RFQ Manager Assigned team

Customer Your Company Inc.

GENERAL NOTES (Quantity : 6, component quantities shown per run)

DESIGN CRITERIA

- 24 x 5" HD Structural I-Beam Profile Arm [IPE 120], 72" long with a uniformly distributed load capacity of 1500lbs. IMPACT FACTOR INCLUDED. PRODUCTS SHALL BE PLACED SYMMETRICALLY ON THE ARMS TO EQUALLY DISTRIBUTE THE LOADS TO THE ARMS. LOADS SHALL BE PROPERLY PLACED AND STABLE. PRODUCT SHALL BE PLACED ON THE LOAD ARMS AS CLOSE AS POSSIBLE TO THE COLUMNS. DOUBLE STACKING IS NOT PERMITTED. OVERLOADING IS NOT PERMITTED.
- 192 in HIGH Double SIDED COLUMN - TOTAL LOAD 12870 LBS INCLUDING THE BASE. CAPACITY BASED ON SEISMIC, UNIFORMLY DISTRIBUTED LOADS. OVERLOADING IS NOT PERMITTED.
- SAFETY FACTOR: 1:1.4 MIN.
- DEFLECTION LIMIT: COLUMN DEFLECTION: H/90 MAX. ARM DEFLECTION: L/90 MAX.
- THE SYSTEM SHOWN IS DESIGNED FOR INTERIOR USE ONLY.
- IT IS THE RESPONSIBILITY OF THE OWNER TO ENSURE THAT THE RACK SYSTEM IS NOT ALTERED. ANY CONFIGURATION OTHER THAN THAT SHOWN ON THIS DRAWING MUST BE APPROVED BY COGAN ENGINEERING.
- IT IS THE RESPONSIBILITY OF THE OWNER TO REGULARLY INSPECT FOR DAMAGE. IF ANY DAMAGE IS FOUND, IMMEDIATELY ISOLATE THE DAMAGED PORTION AND CONTACT COGAN FOR REPLACEMENT PARTS.

MATERIAL FINISHES

- COLUMNS AND BASES ARE ELECTROSTATICALLY SPRAYED WITH ONE COAT OF INDUSTRIAL HIGHLY ADHESIVE ALKYD ENAMEL PAINT WHEN THE CANTILEVER RACK IS DESIGNED FOR INTERIOR USE. COLOR: Cogan Grey
- ARMS, BRACES, AND SHELF-SUPPORTS ARE FINISHED WITH ONE COAT OF POWDER-COATED TOUGH PAINT FOR ALL CANTILEVER RACK SYSTEMS - INTERIOR OR EXTERIOR USE. COLOR: Cogan Grey

MATERIAL

6 Runs, each consisting of :
3 x 192 in High Double LD Column Columns
6 x 72" long base Bases
24 x 72" long Arms
4 x Cross Brace 60" Wide x 48" High.

18 x ANCHOR BOLT 5/8"x6"
STRUCTURAL GRADE CONNECTION BOLTS

IMPORTANT

- THE CAPACITY OF THE SLAB AND/OR FOUNDATION MUST BE VERIFIED BY THE CLIENT AND/OR THE OWNER.
- ALL CONNECTIONS USE ASTM A325 BOLTS.
- COGAN RESERVES THE RIGHT TO ADJUST ANY COMPONENT AFTER APPROVAL STAGE TO MEET THE REQUIRED NEEDS AS FINAL CALCULATIONS WILL BE EXECUTED BEFORE THE PROJECT ENTERS PRODUCTION.
- FOR INSTALLATION INSTRUCTION ASSISTANCE, PLEASE CALL COGAN: 1.800.567.2642

2.1

IMPORTANT NOTE

The client and/or owner shall be responsible for all quantities and dimensions including the verification of, and coordination with field conditions. The client and/or owner shall verify all critical dimensions and conditions of existing construction that relate to this project prior to manufacturing. Cogan must be notified in writing of any elements found to be inconsistent or not compatible with the details indicated by these approval drawings.

The client and/or owner shall be responsible for the building classification on all construction and warrant that all construction shall be governed by the latest edition of the state building code (including any revisions or addendas) and/or with any other applicable code or requirements of all authorities having jurisdiction.

Cogan reserves the right to adjust structural member sizes after approval stage to meet the required needs as final detailed calculations will only be prepared before the project is produced.

SHIPPING DETAILS

The confirmation of shipping details is a requirement for project approval prior to the start of production. This order shall be produced and shipped for the following details:

☐ AS PER DETAILS ON PURCHASE ORDER

☐ AS INDICATED BELOW

SHIP TO ADDRESS

2.2

Company:

Street Address:

City, Province/State:

Country:

Postal/Zip Code:

Contact Name:

Contact Phone:

For orders that Cogan is not required to arrange shipping, please indicate the type of truck that will be used to pick up your order.

☐ CLOSED TRAILER ☐ FLAT BED

APPROVAL

Verify all dimensions and details carefully. Check the appropriate box. Return a signed and dated copy to Cogan.

By approving these drawings, the client and/or owner agrees that these designs may be or are an alternative to the specifications and/or designs previously provided to Cogan.

BY SIGNING THIS DRAWING, I ACKNOWLEDGE THAT I HAVE READ THE CONSUMER INFORMATION SHEET AND COGAN LIFETIME STRUCTURAL WARRANTY AND THAT I AGREE WITH TERMS OF THEIR CONTENT. TO VIEW THE AFOREMENTIONED DOCUMENTS, PLEASE CLICK ON:

http://www.cogan.com/wcl

2.3

☐ APPROVED (No changes) ☐ REVISE & RE-SUBMIT

NAME:

SIGNATURE:

DATE:

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2.1 Always Read the Fine Print

We cannot stress enough the importance of verifying your drawings against site conditions. Please keep in mind that it is your responsibility to ensure all dimensions are accurate before manufacturing and that all applicable building codes are respected.

2.2 Shipping Details

If your shipping address or method has changed, please indicate it here. We will reconfirm these details as your order nears its ship date, but notifying us early will help streamline the process.

2.3 Final Approval

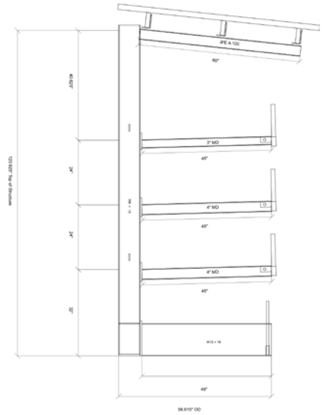
After carefully reviewing your drawing, visiting the job site, and confirming that everything is exactly as needed, you can sign the drawing to approve it. Then, simply email a copy to your RFQ Manager. Their contact information can be found on the cover page of your quote.

3

Side View & Component Details

3.1 Side View

This side view of your cantilever run shows the total outside dimensions of the base, overall structure height, arm spacing, arm length, column type, and arm type. If your racking includes a roof or arm accessories, these components will be displayed as follows:



3.2 Column Detail

The column detail il [Assigned team] column width, height, vertical spacing of bracket connections, and bolt spacing for arm adjustment.

3.3 Base Detail

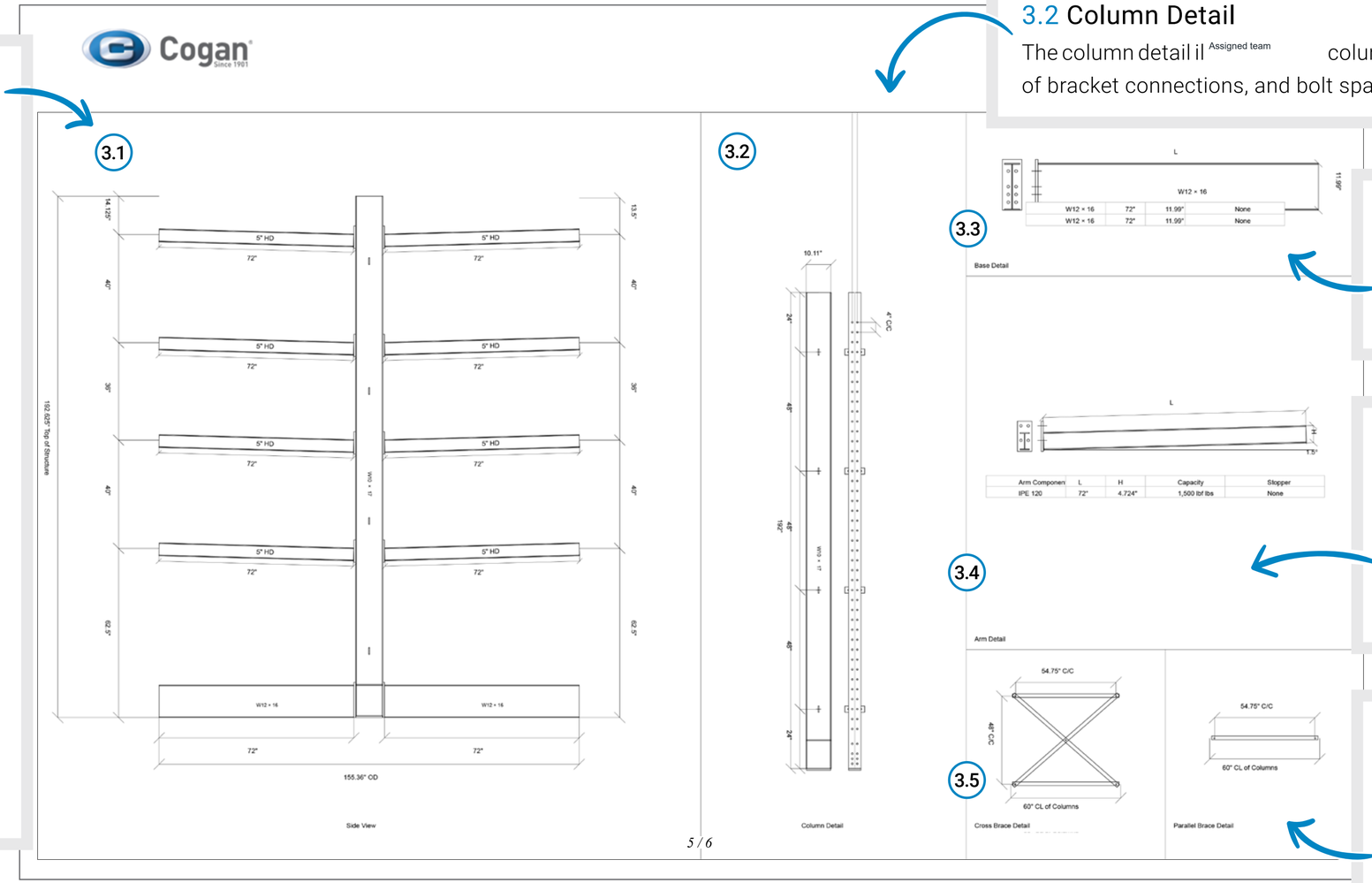
The base detail highlights the base type, total height, length per side, and connection plate.

3.4 Arm Detail

The arm detail specifies the overall length, exact height, connection plate style, capacity per arm, incline (1.5° or 3°), and stopper type, if applicable.

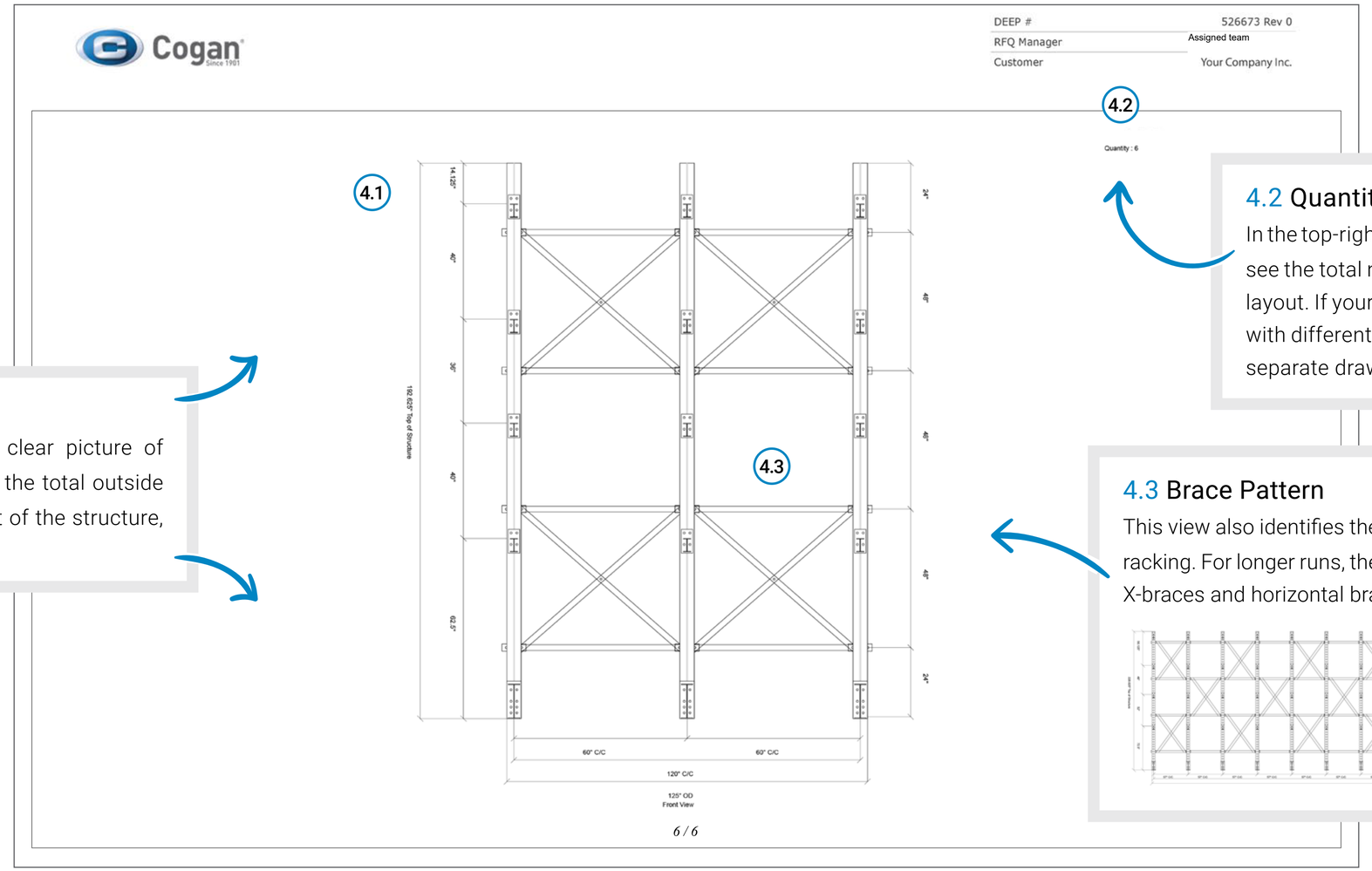
3.5 Brace Detail

The brace detail shows the center-to-center and centerline spacing for both cross and horizontal braces.



4

Front View



4.1 Dimensional Details

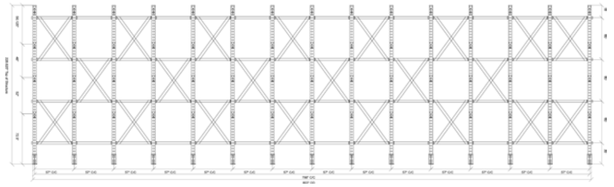
The front view gives you a clear picture of the full run. Be sure to check the total outside dimensions, the overall height of the structure, and the arm spacing.

4.2 Quantity

In the top-right corner of the front view, you'll see the total number of runs that follow this layout. If your project includes multiple runs with different specifications, you'll receive a separate drawing for each.

4.3 Brace Pattern

This view also identifies the correct brace pattern for your racking. For longer runs, the pattern will alternate between X-braces and horizontal braces, as shown below:



Tip: To view a full size version of this quote and approval drawing sample. click here.

Verifying Your Approval Drawing On-Site

Measure Twice, Cut Once

In the world of customization, there's no room for guesswork. Incorrect measurements can lead to costly mistakes and revisions. Verifying your approval drawings at the job site is your assurance that every component will align seamlessly.

Please do not perform this service alone.

We strongly recommend that you visit the job site with one of your in-house engineers, a Cogan Field Manager or Recommended installer to assist with the measurements. By prioritizing precision, you'll save time, money and most importantly - deliver the quality results that your customer deserves.

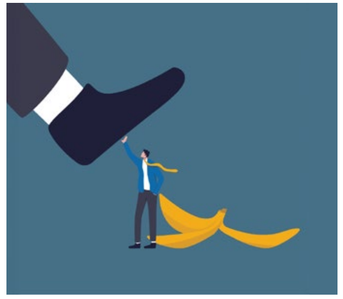
Why are Site Measurements so Important?



Quality Assurance



Installation Efficiency



Avoid Costly Errors

"The attention paid to verifying approval drawings against site measurements will make or break the success of a custom project."

Cogan Sales Team

Take Advantage of our Site Measurement Services

If you need an extra pair of hands-on site, please let us know. We can arrange a site visit with the Cogan Field Manager or Recommended Installer nearest you. Their years of experience will ensure site measurements are taken accurately, and approval drawings are verified properly. All you need to do is ask!

Contact your RFQ Manager to schedule a site measurement appointment!

RFQ & Field Support

800.567.2642

info@cogan.com

Tip: Interested in more?

If you love a little chuckle, click the thumbnail to watch a short video about the importance of site measurements!



Submitting Your Approval Drawings

Frequently Asked Questions

You've reviewed your approval drawings, visited the job site, and carefully verified all the measurements. Everything looks great, and you're ready to submit your signed plans. Hooray! But you might be wondering, what comes next? Here are the most frequently asked questions we receive about the approvals process for cantilever racking.

Q: If I request a revision to my approval drawing, will I also receive a change order?

A: For cantilever racking specifically, change orders are less common. Since approval drawings are provided with your quote, most design changes are finalized during the quoting stage. This minimizes the need for revisions once your order has been placed.

You will only receive a change order if:

- You request a revision after submitting your official purchase order.
- The requested changes affect pricing.
- There's a significant fluctuation in steel costs since your original order date. While less likely, market volatility can sometimes force us to adjust our pricing.

(cont'd)

In any case, simply sign the cover page of your change order and return it along with an updated Purchase Order.

Q: When will I receive my PE Stamped Plans and / or other Permit Services?

A: As soon as you've signed off on your Approval Drawings, we can begin the process for PE Stamps. The turnaround time is typically 5-10 business days.

Q: Should I wait for my permit before scheduling my order for production?

A: Yes, we strongly recommend waiting to receive your permit before scheduling your order for production. If your permit is not approved or design

(cont'd)

changes are required, this could result in production delays, additional changes, and/or cancellation fees.

Q: When will I receive a delivery date?

A: Once you've signed your approval drawings and obtained any required permits, our Production Team will assign your order to a production slot. You'll receive an email notification and an update in the Dealer Portal.

Please allow approximately 3-4 weeks of production time from this date. We will contact you when your order reaches the paint line—typically in the second or third week of production—with a more precise shipping date.

If your project includes galvanization, please allow an additional 4-6 weeks of production time.

Additional Support

A Little Help to Close the Deal

We could all use a little help sometimes. From conference calls to permit applications and installation, our additional support services are here for you. They might just be the key to turning your quote into an order!



Conference Calls

Boost Your Closing Ratio with a Conference Call

If you have a complex or high-value project, close communication between Cogan, you and your customer is key to getting your quote across the finish line. With our expertise by your side, you'll save precious time, sidestep costly errors, and most importantly, seal the deal.

Why are conference calls a game changer?

- Spot-on Quotes
  Eliminate guess work and get an accurate quote, the first time.
- Revision Follow-ups
  In the early stages of any project. changes can happen. Feel supported throughout the estimation process.
- Customer Satisfaction
  By working together from the beginning, we'll make sure you have all the tools you need to put your best foot forward with your customer.

Contact your RFQ Manager to schedule a conference call.



Permit Services

Does Your Project Need a Permit? We can Help!

Cogan provides complete permit support for every stage of the application process. Whether you need basic PE Stamps or a complete Slab Analysis, we have the resources and expertise to keep your project running smoothly.

Permit packages for your exacts needs:

- PE Stamped Plans with Calculations and Connection Details
  Stamped structural plans with elevation drawings, design criteria, classification details, and engineering calculations. Required for all permit applications.
- Slab Analysis with Anchor Detail
  Ensures foundation integrity and determines anchoring needs. May be required for stringent permits, like in high seismic areas.
- Footing (Foundation) Design
  Complete foundation design. Required if slab analysis fails and a structural redesign does not sufficiently reduce design loads.

Find a complete overview of our Permit Services on our website:
www.cogan.com/Engineering/Permit Services



Recommended Installers

Top-Notch Installation for Your Project

Set yourself up for success with a Cogan Recommended Installer. Located across North America, we've hand-picked each team for their expertise, professionalism, and superior workmanship. We wouldn't recommend it any other way!

Why choose a Cogan Recommended Installer?

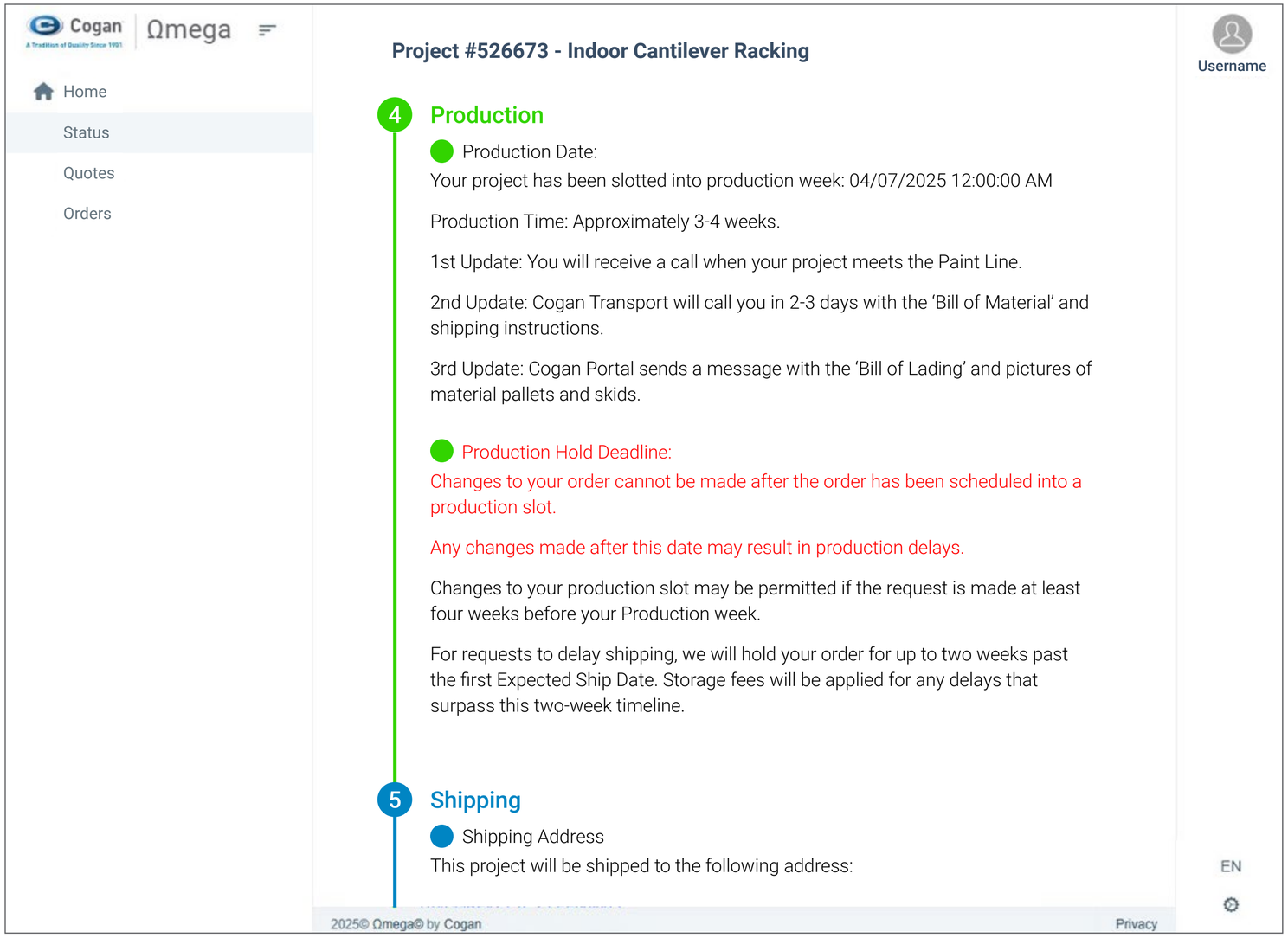
- The Home Team Advantage
  Our recommended installers are always local to the jobsite. That means no travel time, hotel stays or per diem expenses.
- Masters of Craft
  True masters of their craft, our recommended installers have years of experience working with Cogan products.
- Competitive Pricing
  Extensive product knowledge and proximity mean major cost savings for you and your customer.

Plan ahead! To ensure all timelines are respected, please request an installation price at the quoting stage.

Chapter 4

From Production to Shipping

- Preparing for Production
- Final Verification & Quality Control
- Shipping & Delivery



** The above project highway is for example purposes only.*

Preparing for Production

From Concept to Reality

You've turned your quote into an order, navigated the approvals process, and finalized your design. You've come a long way! Now, it's time for us to do what we do best – build your racking.

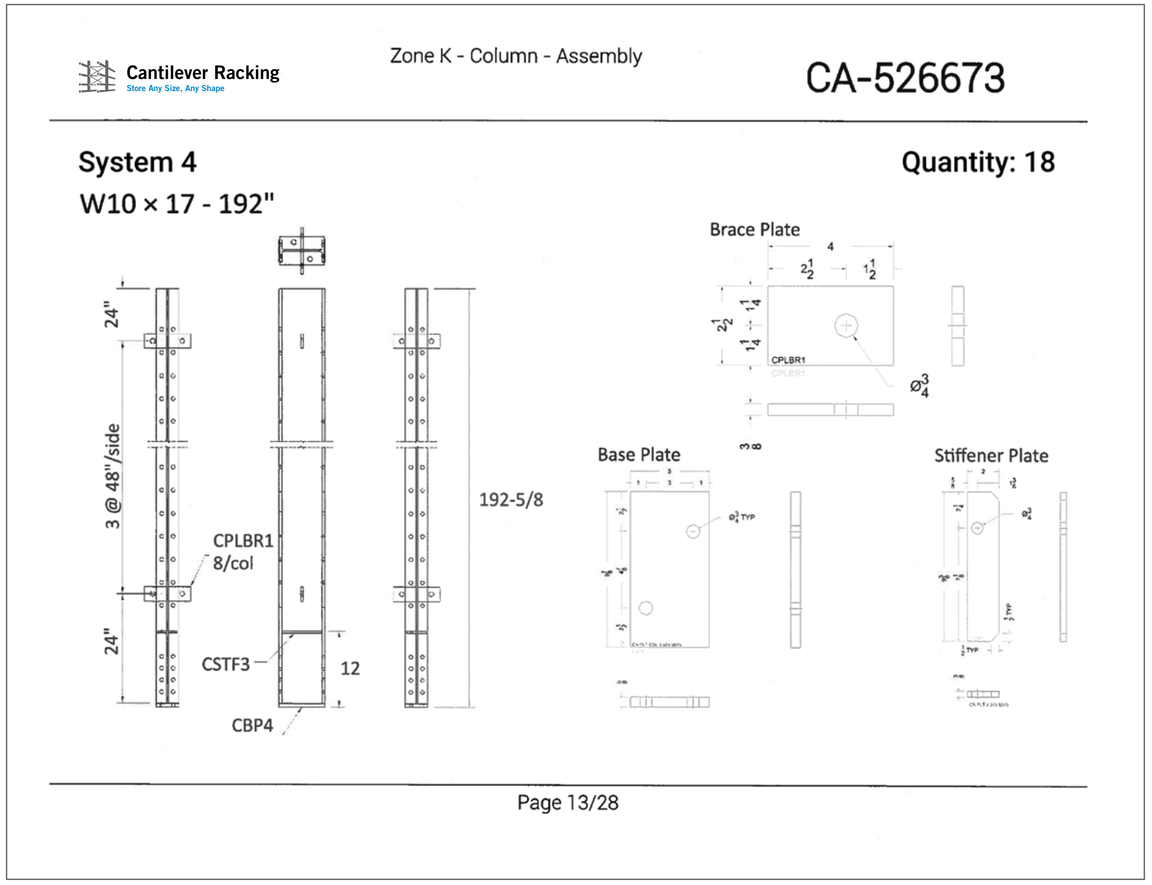
How the Production Process Works

Every cantilever rack order is split into its individual components and divided by zone on the production floor. Each zone specializes in the cutting, punching, and assembly of a specific component or set of components.

This allows us to operate more efficiently and ensure the best possible quality of the finished product. Each zone is allowed the time, care and focus needed to execute their tasks with precision.

Example:

The production papers shown here are the assembly instructions for a set of cantilever columns. Similar instructions are generated for bases, arms, and bracing.



Note:

This is just a small excerpt from a larger production package.

Detailed instructions for cutting, punching, assembly, and parts specifications are generated for every component of the racking structure.

Final Verification & Quality Control

Because Quality Matters

At Cogan, we take quality seriously. From preparation to production, every stage of our process undergoes rigorous quality control checks. We want to ensure you are completely satisfied with your product.

Here are the steps we take to clear every order before it leaves our facility:

01 INITIAL INSPECTION

We start with a thorough examination of all raw materials to ensure they meet our quality standards.

02 PRE-PRODUCTION VERIFICATION

All production papers are verified by a Senior Engineer before your order goes into production.

03 IN-PROCESS CHECKS

During production, we perform continuous inspections to verify measurements, alignment, and precision.

04 POST-PRODUCTION REVIEW

Once your project exits the paint line, it undergoes a detailed review to check for any defects or inconsistencies.

05 FINAL QUALITY ASSURANCE

Before packaging, our shipping team conducts a final inspection to ensure everything meets our high standards.



Shipping & Delivery

Signed, Sealed, Delivered

The time has come. All your hard work, careful planning, and effort have paid off. Your racking is ready to ship! **Here is what you can expect as your order approaches its ship date:**

01 FIRST UPDATE: PAINT LINE



Only a few days to go!

Our Transport Department will call you when your order reaches the paint line. This is to give you a heads-up that your order will be ready in a few days.

- If you opted for Cogan Shipping Services, we would also ask for final confirmation of your ship-to address at this time.

02 SECOND UPDATE: READY TO SHIP

Qty	Type	Width	x	Length	x	Height	Weight
2	SKID	44”	x	196”	x	28”	5800 lbs
2	SKID	44”	x	76”	x	40”	4000 lbs
1	SKID	44”	x	78”	x	36”	1750 lbs
3	SKID	44”	x	74”	x	32”	7050 lbs

Prepare to receive your material

Two to three days after the initial notice, our Transport Department will call you again to provide the bill of materials, shipping weight, and dimensions.

- If you’ve arranged your own transport, you can now send your pick-up. You’ll have two weeks to collect your order from our facility.
- If you’re using Cogan Shipping Services, there’s nothing for you to do except wait for your shipment to arrive!

03 THIRD UPDATE: SHIPPED





We take pictures of every order.

Once your order has shipped, a copy of the Bill of Lading and complete shipping photos will be available on the Dealer Portal for your reference.

04 FOURTH UPDATE: DELIVERY

(Cogan Shipping Services Only)



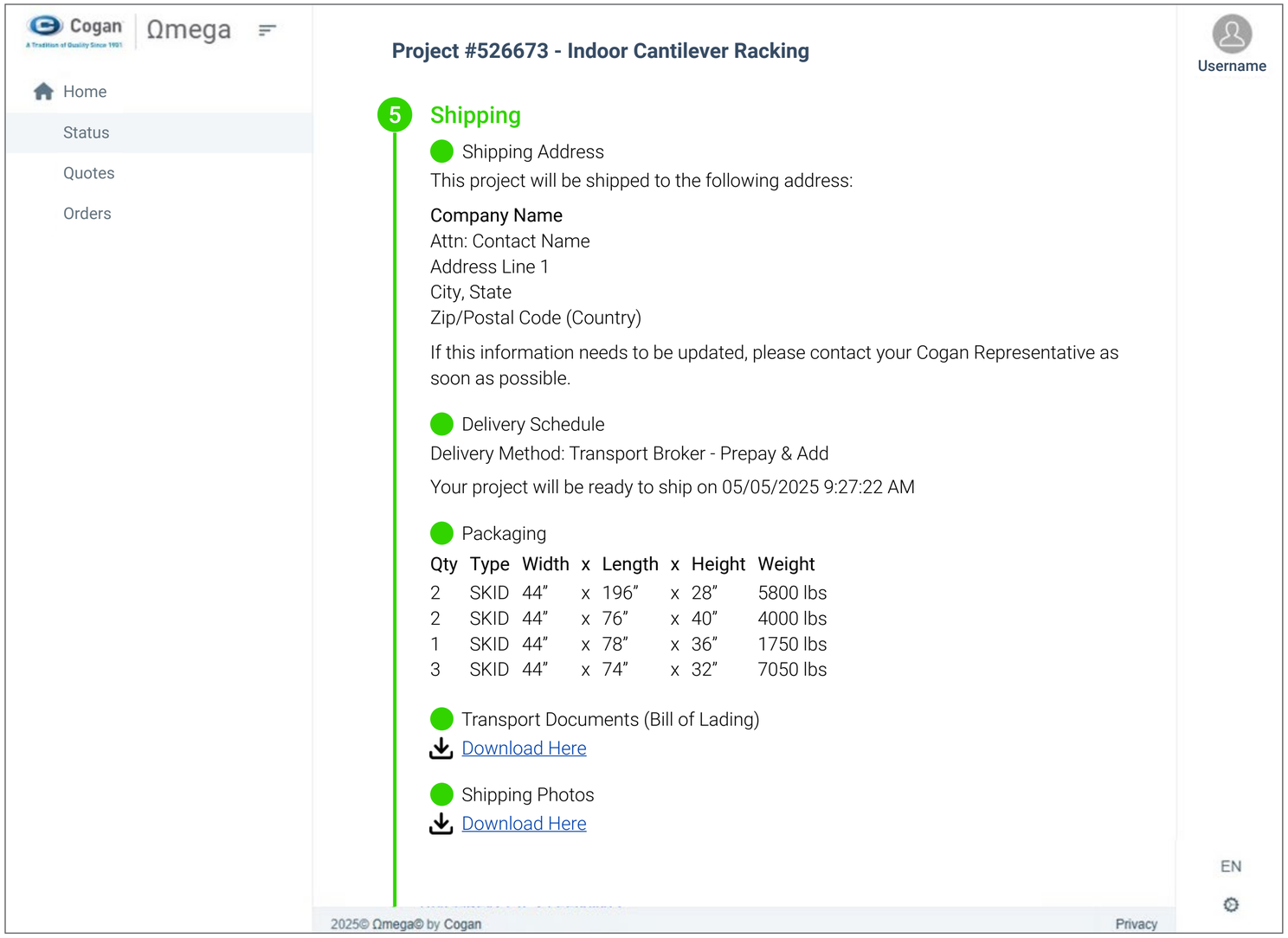
It’s time!

Our Transport Broker will call you 24 hours before delivery.

Chapter 5

Installation & Warranties

- Tips for Successful Installation
- Arm Capacity Stickers
- Installation Manuals & Guides
- Engineering Support & Warranties



** The above project highway is for example purposes only.*

Tips for Sucessful Installation

The Grand Finale

In order to ensure your installation runs smoothly, it's important to have your job site is properly prepared to receive material. If you follow these key points, we guarantee a fast, effortless and successful installation.

Here are our top 4 tips for a successful installation:

01 SCHEDULING

We strongly recommend waiting for your cantilever rack materials to arrive before scheduling your installation crew. While we do our best to meet delivery timelines, unexpected delays can happen. Waiting for your shipment will help you avoid unnecessary costs or downtime.

02 UNLOADING

Cantilever racking components are large and heavy, which can make manual unloading challenging. To streamline the process, we recommend having a loading dock and using a forklift for safe and efficient unloading. Proper equipment ensures your materials are handled with care and minimizes the risk of damage.

03 STAGING

A well-organized staging area is essential for a smooth installation. Be sure to allocate enough space to conduct a material count and group components accordingly. If possible, choose an indoor or covered staging area to protect powder-coated components from rain, which can lead to rust over time.

04 EASE OF INSTALLATION

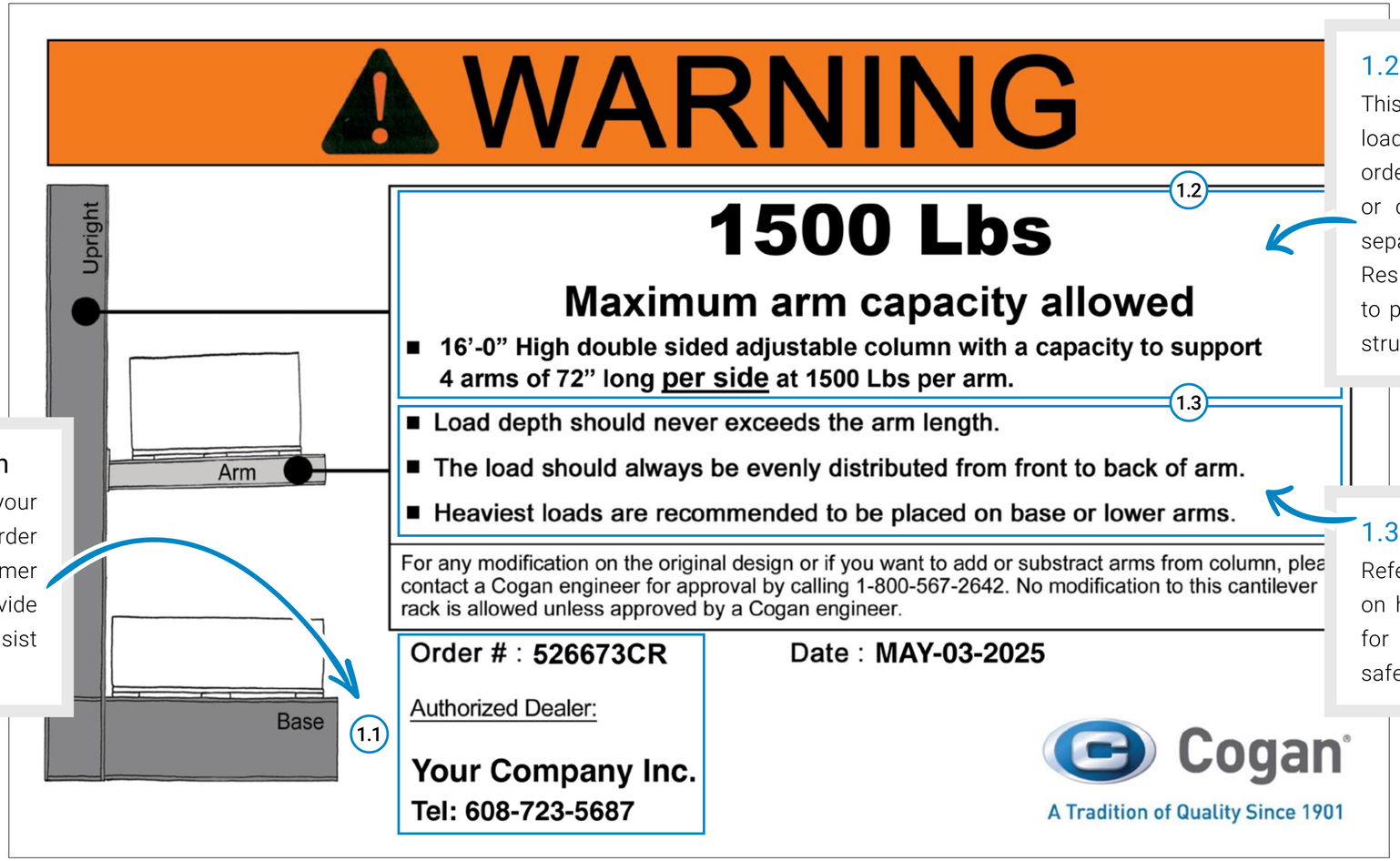
Cogan cantilever racking is designed for easy assembly, but having an experienced installation team is key. If you don't have access to skilled personnel, we'd be happy to connect you with a Cogan Recommended Installer in your area. Our goal is to help you set up your racking quickly and efficiently, so you can get back to business with minimal disruption.



Arm Capacity Stickers

Strong Arms, Smart Limits

Every cantilever rack order includes arm capacity stickers, which should be applied to each run of racking. If your order contains multiple load capacities, you'll receive separate stickers for each. These stickers are an important part of rack safety best practices, clearly displaying maximum capacity and load instructions to help protect both workers and stored materials.



1.1 Reference Information

Each capacity sticker includes your contact details and Cogan order number. If you or your customer have any questions, please provide the order number so we can assist you efficiently.

1.2 Maximum Arm Capacity

This section specifies the maximum load each arm can support. If your order includes multiple capacities or column heights, you'll receive separate stickers for each. Respecting these limits is important to prevent deflection and maintain structural integrity.

1.3 Loading Instructions

Refer to this section for guidelines on how to properly load materials for even weight distribution and safe operation.

Installation Manuals & Guides

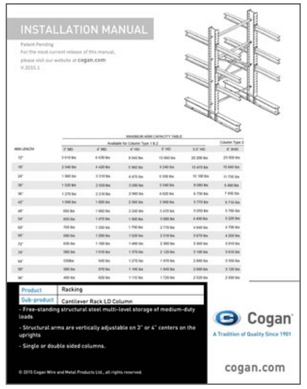
Step-by-Step to a Smooth Install

A successful project isn't complete without a smooth installation, and we're here to ensure just that. Our comprehensive installation manuals provide clear, step-by-step instructions to make the process as seamless as possible.

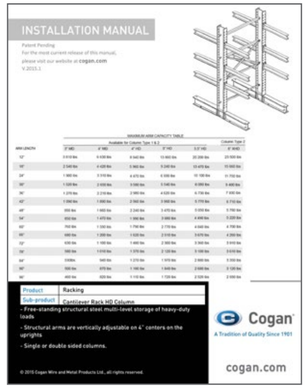
From detailed design guides to illustrated instructions, we've mapped out every stage of installation from start to finish. No matter the style of cantilever racking—whether your system includes a roofing structure, arm accessories, beam supports, or floor guides — our manuals walk you through assembling each component with confidence.

Tip:

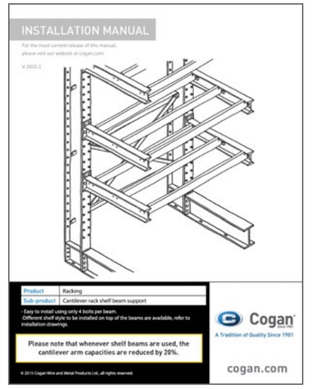
Click on any thumbnail to view the complete installation manual *(PDF)*.



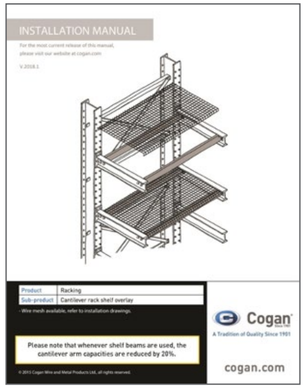
LD Columns



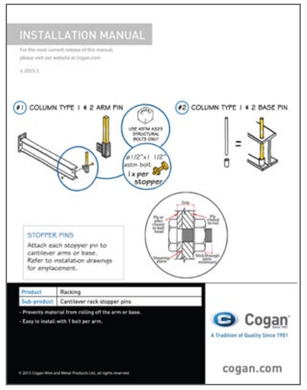
HD Columns



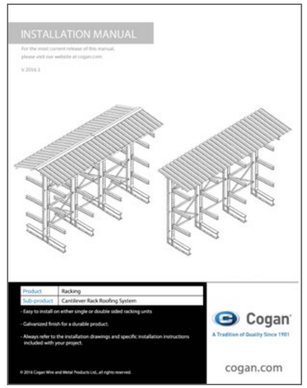
Shelf Beam Support



Shelf Overlay



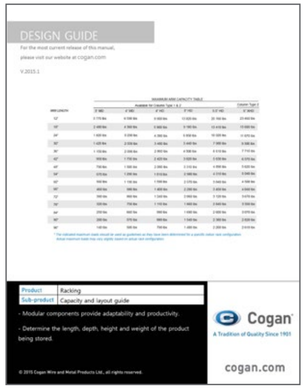
Stopper Pins



L Shed or T Shed



Very Narrow Aisle Cantilever Racking



Capacity & Layout Design Guide

Engineering Support & Warranties

We're Always Here to Help



01 ENGINEERING SUPPORT

Success is a team effort, and we're here to support you every step of the way. From approvals to installation, our engineers are always available to answer your questions and provide technical assistance—just give us a call!

02 WARRANTIES & CONSUMER INFORMATION

For added peace of mind, Cogan cantilever racking is backed by our comprehensive warranties. With over 100 years of manufacturing experience, we want to make sure you get the most out of your investment. We've been here since 1901, and we've engineered that same longevity into our products.

Limited Lifetime Warranty
Discover the comprehensive protection we offer on the structural integrity of our products.
Download PDF

1-Year Work Performed / Materials Furnished Warranty
Learn about the coverage for workmanship and materials provided within the first year.
Download PDF

Consumer Information Sheet
Essential information to help you understand your rights and how to care for your product
Download PDF

Steps to a Successful Project Guide
A helpful resource to ensure your project runs smoothly from start to finish.
Download PDF

Warranty Claims & Repairs
Submit a warranty claim or repair request quickly and easily with this form.
Download PDF

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Cogan®
A Tradition of Quality Since 1901

Thank you

Thank you for your time.
We hope you enjoyed the presentation.

Questions?
Ask away!