



NORTH AMERICAN STEEL EQUIPMENT INC.

RACKING. SHELVING. STORAGE.

In-house value-engineered and manufactured storage systems
for industrial, commercial, and distribution facilities across Canada.

NASECO.CA

TRUSTED BY INDUSTRY LEADERS



ABOUT OUR COMPANY 04

OUR SOURCING 06

INDUSTRIES WE SERVE 07

CERTIFICATIONS & SAFETY STANDARDS 08

OUR SERVICES 10

OUR WORK 12

AUTOMATION 16

RACKING SYSTEMS 18

RACKING PRODUCT LINES 29

PROJECT PLANNING CHECKLIST 35

FOR OVER 50 YEARS



PIONEERING CANADIAN STORAGE SINCE 1972

North American Steel was incorporated under Federal Charter in 1952.

Over the five decades following its acquisition in 1972, the company evolved into one of the most prominent names in industrial storage on the continent.

For over 50 years, North American Steel (NAS) has been the name to trust for outstanding pallet racking and shelving solutions. Our drive for quality, innovation, and client satisfaction keeps us pushing the boundaries of what's possible in industrial storage.

OUR MISSION

Engineered for Strength, Focused on Service



TRUST & **INTEGRITY**

WE STAND BY OUR PRODUCT



QUALITY OVER **COMPROMISE**

ENGINEERING EXCELLENCE IS
NON-NEGOTIABLE



FAMILY-OWNED, **INDUSTRIAL SCALE**

PERSONAL SERVICE: START
TO FINISH, CANADA-WIDE



CANADIAN **PRIDE**

LOCAL SOURCING, LOCAL HIRING,
LOCAL IMPACT



Colborne Manufacturing Plant

With full in-house control and 350,000 square feet of manufacturing footprint, we custom engineer and manufacture racking solutions from coast to coast.



FACILITY • 01

WHITBY, ON

93,000 SQ FT

Office Headquarters •
Manufacturing

FACILITY • 02

MISSISSAUGA, ON

30,000 SQ FT

Distribution • Service

FACILITY • 03

COLBORNE, ON

175,000 SQ FT

Structural Manufacturing

FACILITY • 04

NISKU, AB

52,000 SQ FT

Western Manufacturing



THE SOURCE MATTERS

CANADIAN-OWNED. CANADIAN-OPERATED.

This means faster delivery and parts access, guaranteed code compliance, dependable long-term support, and reduced exposure to global supply disruptions.

Every system is custom-engineered for your unique warehouse requirements with Canadian code compliance.

Each project is designed and fully supported in-house right here in Canada for complete quality control and coordination throughout the process.

FEATURED INDUSTRIES

TAILORED TO YOUR OPERATION

One size doesn't fit all. Every industry has unique storage needs, and the right solution can optimize operations, improve safety, and enhance productivity.

We specialize in tailored solutions that meet the requirements of various sectors.



01

COLD STORAGE

Engineered freezer-rated systems for cold operations



02

FOOD & BEVERAGE

FIFO-friendly racking for dated stock and traceability.



03

3PL & LOGISTICS

High-throughput multi-tenant distribution centres.



04

AUTOMOTIVE

Parts distribution and assembly-line buffer storage.



05

E-COMMERCE

Pick towers, mezzanines, and dense fulfillment storage.



06

MANUFACTURING

Raw-material, WIP, and finished-goods racking.



07

WHOLESALE & DC

Pallet and skid-lot storage for order picking and retrieval.



08

RETAIL LOGISTICS

Adaptable racking from storefront to back room.

Also serving: Building & Lumber · Electronics · Metal Fabrication · Outdoor · Petrochemical · General Warehousing · Furniture · Hardware & Plumbing · Healthcare · and more!

TESTED. CERTIFIED. TRUSTED.



CANADIAN WELDING BUREAU (CWB) CERTIFICATION

Our welding practices are certified by the Canadian Welding Bureau, ensuring the structural integrity of every racking system we manufacture.



CSA S345:23

Our racking complies with the Canadian standard for the design of industrial steel storage racks.



ANSI MH16.1-2023 (RMI)

Our racking complies with the American National Standard for the design of steel storage racks.



R-MARK® CERTIFICATION

Issued by the Rack Manufacturers Institute, the R-Mark® certifies racking that meets strict safety and engineering standards. We are the first Canadian rack manufacturer to hold all six R-Mark® certifications across structural and roll formed steel.

NATIONAL BUILDING CODE OF CANADA (NBCC 2020)

National code guiding design and seismic hazard values. Our engineers ensure NBCC compliance throughout our work.

PRE-START HEALTH AND SAFETY REVIEWS (PSR)

NAS engineers evaluate design-stage documents for compliance and safe operation for Ontario projects.

ENGINEERED FOR SAFETY

Storage racks hold tons of inventory over the heads of the people working below them. Designing for that responsibility is the work; not an afterthought. NAS is engineer-owned and operated, with a primary duty of care for public safety written into how every system is scoped, designed, reviewed, and approved.



RMI ENGINEERING COMMITTEE

As executive members of RMI and active participants on its Engineering Committee, our team helps shape the technical discussions that modernize rack design standards across the continent. The seat puts us at the forefront of evolving codes. This means our work is among the first to reflect the highest engineering standards in the industry, not the last to catch up.

SEISMIC COMPLIANCE NOW REQUIRED, EVERYWHERE

Seismic calculations are now required for every rack installation in Canada; in every zone, not just the high-risk ones. The analysis is built into our standard design workflow, so seismic compliance arrives with the drawings.

DESIGN

Engineered from the start.

Capacity, seismic loads, floor conditions, and equipment are analyzed before any drawing. Every solution is reviewed and stamped by our licensed in-house engineers.

INSTALL

Installed to standard.

Manufactured under our own quality processes and installed by our trained, in-house, expert installation crews working to NAS tolerances — a direct line from design intent to finished install.

INSPECT

Safety comes first.

Rack damage, loading issues, and general wear are reviewed through scheduled inspections. Every report is documented with recommendations for safe operating conditions.

OUR SERVICES

FIRST DRAWING TO FINAL SIGN-OFF.

NAS is structured as a single-source storage partner. Engineering, manufacturing, project management, and installation live under the same roof, so accountability doesn't change hands mid-project.

01 MANUFACTURING

In-house Canadian manufacturing across roll-formed and structural product lines. Powder-coat finishing in NAS colours or custom match.

02 ENGINEERING & DESIGN

Licensed engineering with stamped drawings, seismic review, and analysis. Layout optimization and permit-ready documentation provided.

03 PROJECT MANAGEMENT

One project manager from quote through final inspection ensuring full coordination and clear communication between our team, the client, and everyone involved.

04 INSTALLATION

Dedicated NAS installation crews across Canada. Bonded, insured, safety-certified, and trained on NAS product tolerances.

05 INSPECTION & REPAIR

Annual rack safety inspections and damage audits following standard protocols, with targeted component replacement and re-certification.

06 RELOCATION

Disassembly, repair, and reinstall services for tenant moves, acquisitions, or system reconfigurations.

WORKING WITH US: THE PROCESS

STEP 01 CONNECT	STEP 02 ASSESS	STEP 03 PERMIT	STEP 04 MANUFACTURE	STEP 05 INSTALL	STEP 06 SIGN-OFF
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PERMITTING

WE HANDLE THE PAPERWORK.

Most rack installations in Canada require a building permit. NAS prepares the engineering package, coordinates with the local Authority Having Jurisdiction (AHJ), and supplies the documentation inspectors need, so that the permit process doesn't land on the customer alone.

Stamped engineering drawings	P.Eng-sealed across Canada
Seismic analysis	Site-specific seismic loads per NBCC
Slab validation	We provide rack post load & base plate design to evaluate slab efficiency
Fire code coordination	Flue space, sprinkler clearances, in-rack sprinklers
Permit submission package	Collated for the AHJ in one document



THE NAS DIFFERENCE

We offer permit coordination to ensure your warehouse projects move smoothly and remain compliant with rack safety standards

WHEN A PERMIT IS REQUIRED

Most municipalities require a building permit for any storage rack installation over 8 ft tall, or for systems with rack-supported platforms. Specific triggers vary by AHJ, and NAS confirms requirements during project scoping.

STEP / 01

SCOPING

AHJ and permit type identified at the quote stage.

STEP / 02

ENGINEERING

In-house engineering analysis and stamped drawings

STEP / 03

SUBMISSION

NAS submits the package directly to the AHJ.

STEP / 04

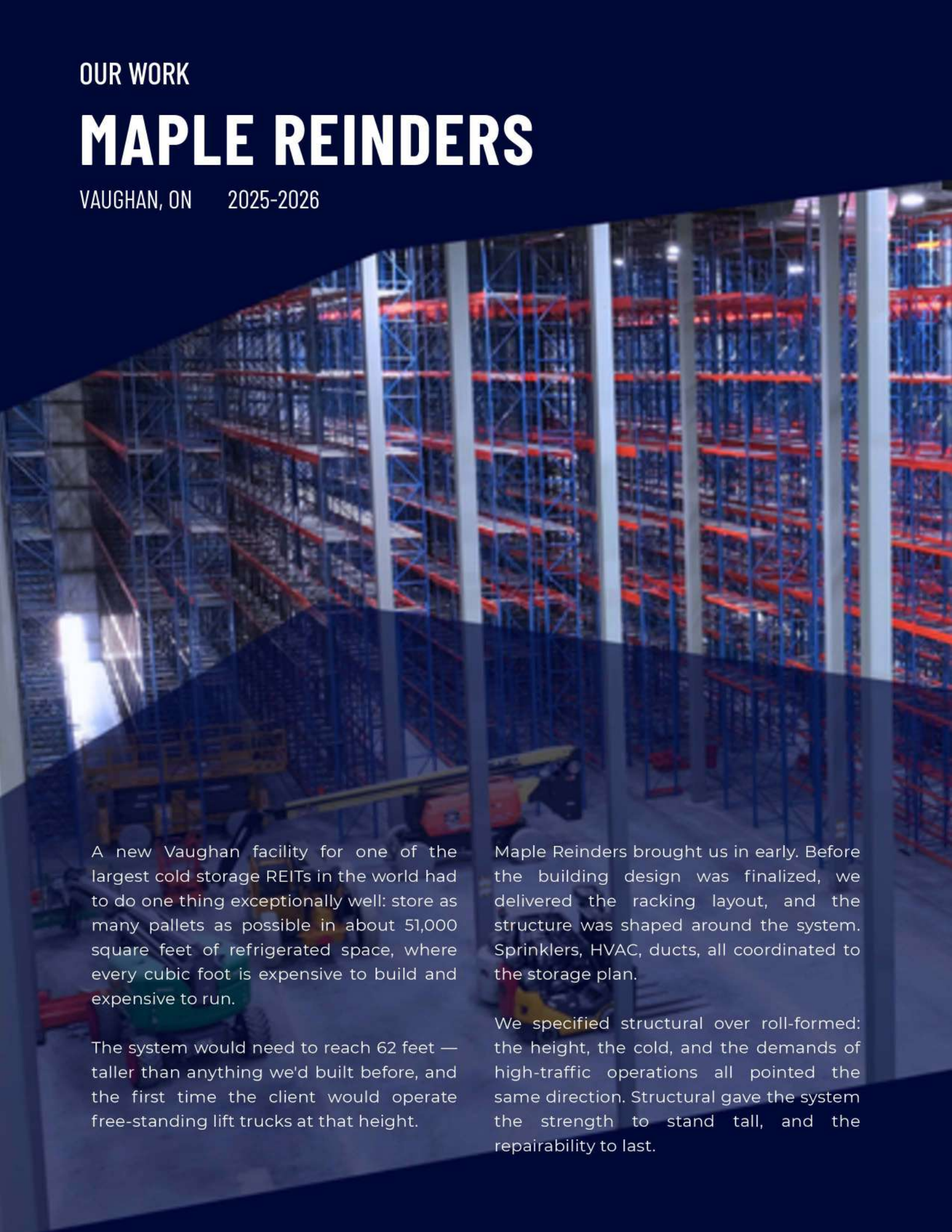
INSPECTION

NAS attends and supports the AHJ inspection.

OUR WORK

MAPLE REINDERS

VAUGHAN, ON 2025-2026



A new Vaughan facility for one of the largest cold storage REITs in the world had to do one thing exceptionally well: store as many pallets as possible in about 51,000 square feet of refrigerated space, where every cubic foot is expensive to build and expensive to run.

The system would need to reach 62 feet — taller than anything we'd built before, and the first time the client would operate free-standing lift trucks at that height.

Maple Reinders brought us in early. Before the building design was finalized, we delivered the racking layout, and the structure was shaped around the system. Sprinklers, HVAC, ducts, all coordinated to the storage plan.

We specified structural over roll-formed: the height, the cold, and the demands of high-traffic operations all pointed the same direction. Structural gave the system the strength to stand tall, and the repairability to last.



During design, we found capacity hidden in the bay spacing. The standard is 96 inches. We brought it to 92.

That single dimensional change added nearly 500 pallet positions — a 4% gain with no extra material and no expanded footprint. Small decisions compound across a system this large.

THE RESULT

Over 11,500 pallet positions, with 80-inch aisles preserved for operational access.

The project finished more than a week ahead of schedule and on budget because the structural conflicts that usually surface during installation were solved during design.

READ THE FULL
CASE STUDY





OUR WORK

18 WHEELS LOGISTICS

BRAMPTON, ON 2025

18 Wheels Logistics was expanding east. Their new 220,000 square foot facility in Brampton was already live when we came in, with a 3PL operation running inside it and clients across beverage, furniture, and other sectors, including food-grade inventory.

The system needed high density and reliable selectivity in the same footprint, with enough flexibility to handle inventory that changes as the operation evolves.

We specified double deep and staged the install in two phases around their live operations. Phase 1 delivered 20,000 pallet positions across 88,740 square feet, and Phase 2 added another 10,000.

The installation took under eight weeks, while product kept moving. We isolated zones for racking and kept the rest of the floor running, so fulfillment never stopped. The layout was engineered for future adaptability and quick adjustment by our in-house engineering as needs evolve.



Our client supplied a geotechnical report with a defined average shear-wave velocity (V_{s30}) reading, which measures ground stability in the upper 30 metres of soil.

This let us engineer the system to a lower seismic site class than the default would have required, which meant lighter frames and reduced material cost.

READ THE FULL
CASE STUDY



THE RESULT

88,740 square feet of pallet storage on the floor, with Phase 2 and reconfiguration options already accounted for in the layout, supporting our client's expansion.

Phase 1 completed in under eight weeks inside a live warehouse, on schedule, with material cost reduced by the client's geotechnical data.

AUTOMATING GROWTH.

Automated and semi-automated systems demand racking that is dimensionally precise, structurally exact, and built to manufacturer interface specs. NAS engineers and installs racking for ASRS, 2-way or 4-way shuttle cart systems, conveyor, AGV-integrated operations, and more!



STACKER CRANES

We engineer high-tolerance racking integrated with top and bottom guide rails to safely support massive vertical heights and heavy pallet payload.



SHUTTLE SYSTEMS

We manufacture multi-depth racking networks with running tracks and entry guides for continuous, high-speed robotic cart travel.

OUR AUTOMATION INITIATIVES

- High-speed roll-forming lines
- Automated coil feeding
- Robotic welding stations
- CNC-controlled punching systems
- Smart material handling equipment
- Full ERP integration for real-time production tracking and visibility
- Fully robotic manufacturing cells
- Automated paint line & packaging



RACK-SUPPORTED BUILDING

THE BUILDING IS THE RACK.

In rack-supported buildings, the racking is the structure that carries the roof, walls, and cranes. NAS engineers design these systems to building-code structural standards and to accommodate automated systems.



SELECTIVE RACK

The industry workhorse. Beams span between uprights to create shelf levels. Every pallet is directly accessible, every beam level is easily and independently adjustable using standard safety-pin hardware.

BEST FOR

- Mixed SKU operations with high line count
- Order-picking facilities
- Any application where direct pallet access matters more than density
- Flexible aisle configurations: Wide Aisle, Narrow Aisle, Very Narrow Aisle (VNA)



DEPTH

1 pallet

ACCESS

100% - all aisle faces

ROTATION

FIFO / LIFO

SKU SELECTIVITY

100% - every SKU



DOUBLE DEEP RACK

Two pallets deep per face. A deep-reach lift truck retrieves the back pallet, doubling the storage density of a selective system while keeping aisle-face access. Best suited to operations with multiple pallets per SKU.

BEST FOR

- Operations with consistent multi-pallet-per-SKU inventory
- High-density storage where same-SKU lane discipline is feasible
- Cube optimization without committing to full drive-in operations



DEPTH

2 pallets

ACCESS

Aisle face

ROTATION

LIFO

SKU SELECTIVITY

Lane-level



DRIVE-IN RACK

Lift trucks drive directly into the rack structure, placing pallets on continuous rails. Drive-In reduces access aisles and eliminates conventional beam levels. It is one of the highest-density conventional rack systems.

BEST FOR

- High-volume, single-SKU storage
- Cold storage where cube efficiency reduces refrigeration load
- Staging for outbound loads



DEPTH

Deep lane (~6-12 deep)

ACCESS

Lane face only

ROTATION

LIFO

SKU SELECTIVITY

Bay-level



PUSHBACK RACK

Nested carts ride on inclined rails. Each new pallet pushes the previous one deeper into the rack. Delivers 2–6 pallets of depth while retaining single-aisle access.

BEST FOR

- Medium-density storage with aisle access
- Operations needing more density than selective without full drive-in
- Staging and overflow storage



DEPTH

2–6 pallets

ACCESS

Single-aisle

ROTATION

LIFO

SKU SELECTIVITY

Lane-level



PALLET FLOW RACK

Gravity-fed rollers carry pallets from load aisle to pick aisle. Loaded at the back, picked at the front — ideal rotation for dated-sensitive, perishable, or FIFO inventory.

BEST FOR

- FIFO-critical inventory: food, beverage, pharma
- High-throughput order staging
- Separating load and pick aisles for safety and flow



DEPTH

Deep lane (~18+ deep)

ACCESS

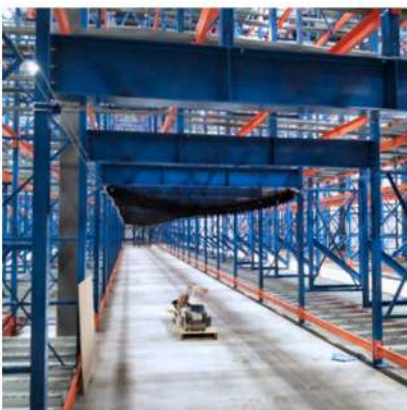
Dual face (Load / Pick)

ROTATION

FIFO

SKU SELECTIVITY

Lane-level



CARTON FLOW RACK

Inclined roller or wheel lanes for case and tote picking. Cartons replenished from the back, picked from an ergonomic front face. It increases pick-face density while reducing operator travel in order fulfillment operations.

BEST FOR

- Each-pick and case-pick fulfillment
- High-SKU pick modules and mezzanine pick faces
- E-commerce and small-parts distribution



UNIT

Case / Tote

ACCESS

Dual face (Load / Pick)

ROTATION

FIFO

ERGONOMICS

High



SHUTTLE CART

Semi-automated deep-lane storage. A battery-powered shuttle cart travels under the load, transporting pallets between the aisle face and a programmed lane position. Combines deep-lane density with aisle-face accessibility.

BEST FOR

- High-density storage with multiple SKUs per aisle
- Cold storage and dense beverage operations
- Buffer storage between production and shipping



DEPTH
Deep Lane

ACCESS
Aisle face

ROTATION
FIFO / LIFO

MECHANISM
Semi-Automated



CANTILEVER RACK

Arm-supported storage with no front column. Loads rest on horizontal arms extending from a vertical column tower, allowing long or awkward stock to be stored without obstruction. Single- or double-sided; indoor or outdoor-rated.

BEST FOR

- Long stock: pipe, lumber, conduit, steel bar
- Sheet goods, panels, furniture, and irregular loads
- Galvanized and weather-resistant finishes available



WEIGHT CAP

Up to 4,000 lbs (PER ARM)

ARM LENGTH

24"-72"

CONFIGURATION / SIDES

Single or Double

ENVIRONMENT

Indoor / Outdoor



STRUCTURAL MEZZANINES

Engineered steel platforms that add more working or storage levels above the warehouse floor. They maximize usable square footage within your existing building footprint, with code-compliant stairs, handrails, gates, and pallet-drop access.

BEST FOR

- Adding workspace, storage, or office above existing operations
- Multi-tier picking for order fulfillment
- Adds additional usable floor area within existing building envelope



SUPPORT TYPE
Free-standing /
rack-supported

TIERS
Single or multiple

DECKING OPTIONS
Steel / wood / grated

FOOTPRINT
Floor space multiplies
by number of levels



RETAIL RACK

Heavy-duty rack engineered for warehouse-style retail floors. Combines storage capacity on upper levels with retail display at the pick face. Sized for forklift restocking with customer access at ground level.

BEST FOR

- Warehouse-format retail and big-box stores
- Hardware, building-supply, and wholesale showrooms
- Bulk-pack retail with overstock above pick face
- Powder-coated finish options for public-facing environments



DEPTH

1 pick depth

ACCESS

Dual - Lower - hand-pick
- Upper - forklift

ROTATION

FIFO / LIFO

SKU SELECTIVITY

100% - Public retail floor



INDUSTRIAL SHELVING

Bridging the gap between shelving and racking, industrial widespan shelving stores bulk or lightweight items. Built with welded frames for rapid setup and no cross bracing, it scales up to 22 feet high for platforms or standalone bays.

BEST FOR

- Small parts, cartons, totes, and hand-load items
- Spare parts rooms, archives, MRO storage
- Integration with mezzanines for multi-level picking



STYLE

Boltless / rivet

SIDES

Open or closed

DECKING

Steel / wire

TIERS

Single / multiple



NAS PRODUCT LINES

Every NAS line is designed and manufactured around a specific application profile. All lines share the same engineering standards and component stocking, so mixing systems across a facility is supported.

01

NORTH AMERICAN

Proprietary roll-formed pallet racking. Engineered upright profile; full beam, frame, and accessory library; colour options in NAS blue, red, grey, or custom match.



02

AMERICAN TEARDROP

Full-featured teardrop pattern for operations standardized on the industry profile. Compatible with existing teardrop inventories.



03

STRUCTURAL

Hot-rolled structural steel uprights and beams. Built for heavy forklift traffic, cold storage, and demanding environments.



04

KNOCKDOWN

Flat-pack component shipping with bolted field assembly. Reduces freight volume for remote sites and fast-turn projects.



05

NAS HYBRID

Structural uprights with roll-formed beams. Combines impact durability at the floor with beam-level flexibility.



NORTH AMERICAN RACK

THE CANADIAN WAREHOUSE STANDARD — REDIRACK-COMPATIBLE

The most widely used product line in Canada. Originally developed as RediRack, NAS-improved with return-bend rear columns, heavier fillet welds, and tubular bracing. Direct access to all pallets with the widest selection of selective rack components.



FRAME

Roll-formed (welded)

BEAM

Roll-formed

CONNECTION

Hook + tab

COST

Lower

ADJUSTABILITY

3" centres

IDEAL FOR

Selective, Double Deep, Pushback, Drive-In

KEY BENEFIT

Lower cost than structural for medium-duty applications

CAPACITY

Up to 100,000 lbs

STEEL PROFILE

13-14 ga

BEAMS — TYPES & SIZES

Note: Custom sizes available



STEP BEAM

2½" - 6½"

4" x 96" best seller (1,500–2,500 lb)



C-CHANNEL BEAM

3" - 8"

4" x 96" stock (2,000–3,500 lb)



SHELF BEAM

2½"

Light hand-load — 800 lb max

BEAM BRACKETS

- **8½" standard** - 3,000 lb per bracket; 6-point wrap-around
- **5.5" shelf bracket** - 2" flange for shelf beam
- Hooks + tabs prevent column rotation

FOOTPLATES

- Welded, 3/16" standard thickness
- 4 holes (typically 3 used) to prevent rotation
- Non-seismic, seismic, oversized-bay variants

UNIQUE COMPONENTS

- **Cant Leg** - angled front post deflects impact
- **Recessed Leg** - 90° clearance for forklifts
- Heavy-duty bracing, post protectors, row spacers

AMERICAN TEARDROP

THE US INDUSTRY STANDARD — MANUFACTURED IN COLBORNE, ON

Compatible with most American rack suppliers. Tapered key-lock rivet connectors prevent dislodgement; 4 vertical column bends increase impact resistance. Manufactured at the NAS StoRRack facility in Colborne, Ontario.



FRAME

Roll-formed (welded)

BEAM

Roll-formed

CONNECTION

Tapered key-lock rivet

COST

Lower

ADJUSTABILITY

2" centres

IDEAL FOR

Selective, Double Deep, VNA, Pallet/Carton Flow

KEY BENEFIT

Heavier gauges (11-14 ga) extend capacity for the smaller profile

CAPACITY

Up to 50,000-72,600 lbs

STEEL PROFILE

11-14 ga

BEAMS — TYPES & SIZES

Note: Custom sizes available



STEP BEAM

2½" - 6½"

One-piece, rolled instep. 3", 6", or 8" brackets.



SHELF BEAM

2½"

Light retail. ¾" step for particle board.



C-CHANNEL BEAM

3" - 8"

High abuse. 6" bracket for 3"-4"; 8" for 5"-8".

BEAM BRACKETS

- **Tapered key-lock rivet** - squares beam vertically & horizontally
- Longer engagement than standard round rivet.
- Plunger-pin system optional (replaces spring clip)

FOOTPLATES

- 3/16" standard, bolted to floor
- Non-seismic, seismic, oversized-bay designs
- Galvanized shim plates (1/8")

UNIQUE COMPONENTS

- **Removable bases** - bolted & replaceable
- Heavy-duty lower brace transfers impact to back post
- Cant-leg, recessed-leg, bullnose options

STRUCTURAL RACK

HOT-ROLLED STEEL — HIGH ABUSE, HIGH SEISMIC, HIGH CAPACITY

Built from C-channels, I-beams, and HSS tubes. Designed for freezers, food facilities, high-traffic DCs, drive-in systems, and high-seismic zones. Capacities up to 100,000 lb with bolted serrated-flange connections.



FRAME

Hot-rolled (bolted)

BEAM

Hot-rolled

CONNECTION

Serrated flange

COST

Higher

ADJUSTABILITY

1" increments

IDEAL FOR

Drive-In, Double Deep, Pushback, Cantilever

KEY BENEFIT

400% torsional bending increase with front double posting

CAPACITY

Up to 100,000 lbs

STEEL PROFILE

Hot-Rolled Structural Steel Channels

BEAMS — TYPES & SIZES

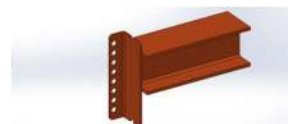
Note: Custom sizes available



C-CHANNEL BEAM

STEEL CHANNEL

Most steel at face / face corners. Prevents impact damage. Requires tie bars for full capacity.



I-BEAM

W / S / I SECTION

Symmetrical, higher torsional resistance. Long span, heavy load, tunnels.

BEAM BRACKETS

- **Bolted connections** - serrated flanged nuts
- Large clamping area, less re-torquing required
- Compatible with more accessories than rollformed

FOOTPLATES

- Regular (RFP) and Seismic (SFP) variants
- Round / bolted hole patterns
- Easy to galvanize for outdoor / cold storage

UNIQUE COMPONENTS

- Hookover, bolted, and continuous safety bars
- Grating & solid decking for mezzanines
- Onsite welded repairs by qualified personnel

KNOCKDOWN RACK

THE GLOBAL RACKING STANDARD — BOLTED, REPAIRABLE, SHIPS FLAT

Fully bolted construction with the same structural integrity as welded rack. Less rigidity makes it ideal for seismic zones; individual bracing and front uprights are easily replaced after impact. Available in NK334, NK434, and NK433 sections.



FRAME

Roll-formed (bolted)

BEAM

Roll-formed

CONNECTION

Hook + tab

COST

Lower

ADJUSTABILITY

Inherits welded profile (3" NA Rack / 2" Teardrop)

IDEAL FOR

Selective, VNA, Pallet Runner, archive storage

KEY BENEFIT

Flat-pack shipping reduces freight; lower manufacturing cost

CAPACITY

16,000 lbs - 32,900 lbs

STEEL PROFILE

13-14 ga

BEAMS — TYPES & SIZES

Note: Custom sizes available



STEP BEAM

2½" - 8½"

Same beam library as NA Rack — fully interchangeable.



C-CHANNEL

3" - 8"

Heavy-traffic front beams for pushback / pallet flow.



SHELF BEAM

2½"

Hand-load applications and shelf-style storage.

BEAM BRACKETS

- Same wrap-around brackets as North American Rack
- Interchangeable beams across welded & bolted lines
- Torquing on one side only; preserves clamping

FOOTPLATES

- Bolted (replaceable) - standard
- Can replace welded footplates on repaired columns
- Regular (RFP) and seismic (SFP) variants

UNIQUE COMPONENTS

- **Replaceable braces & uprights** - lower repair cost
- Flat-pack shipping reduces freight cost significantly
- Cannot be used as cant-leg or recessed-leg

NAS HYBRID

STRUCTURAL FRAMES + ROLLFORMED BEAMS — BEST OF BOTH

Pairs structural cant-leg frames with rollformed beams. Captures structural-grade impact resistance at the floor while leveraging the lower cost, lighter weight, and accessory compatibility of rollformed beams. Common in distribution, food, and freezer applications.



Note: Available with North American or Teardrop profiles; sized to load capacity

FRAME

Structural*

BEAM

Rollformed*

CONNECTION

Bolted + Clip

COST

Mid-tier

*Customization available

ABOUT NAS HYBRID RACK

CONFIGURATION	TYPICAL APPLICATION	CAPACITY
Structural frame + rollformed beams	Most common — cost-effective abuse resistance	Up to 100,000 lbs
Rollformed frame + structural beams	Long-span beams, heavier load levels	STEEL PROFILE
Structural front frame + rollformed back frame	High-traffic aisle face (Double Deep Rack only)	Depends on configuration
One-piece structural cant-leg	Greater impact resistance than rollformed cant	

BEAMS — TYPES & SIZES

Note: Custom sizes available



STEP BEAM

2½" - 8½"

Rollformed — most common; supports instep wire mesh decks.



C-CHANNEL

3" - 8"

Rollformed C-channel for pushback / flow front beams.



SHELF BEAM

2½"

Hand-load and pick-tower shelf support.

BEAM BRACKETS

- Rollformed wrap-around brackets fit structural frames
- Regular safety bars work with hybrid beams
- Hookover safety bar for rollformed rear beams

FOOTPLATES

- Structural footplates with bolted floor anchoring
- Regular and seismic variants
- Compatible with rollformed accessory library

UNIQUE COMPONENTS

- **One-piece structural cant-leg** - saves manufacturing cost
- Instep & step beam wire mesh decks - used in structural hybrid system
- Shelf supports, safety bars
- Roof decking, drop-in panels - rollformed step beam, structural bracket

A TOOL FOR YOUR TEAM

RACKING PROJECT PLANNING CHECKLIST.

You don't need all the answers before speaking with a vendor, but reviewing this checklist will help you get the most out of your consultation.

01 SITE & LAYOUT INFO

Why it matters: A clear layout ensures accurate system design and optimal flow.

- ☐ Do you have an up-to-date floor plan or drawing of your warehouse?
- ☐ Are ceiling heights, columns, obstructions, and dock doors marked?
- ☐ Have you identified MHE, aisle requirements, and flow of goods?

02 LOAD REQUIREMENTS

Why it matters: Load type and weight drive structural design and capacity.

- ☐ What type of product will be stored (size, weight, packaging)?
- ☐ Will you store pallets, cartons, long items, or irregular shapes?
- ☐ Do your loads vary by SKU, season, or shift?
- ☐ What is your current pallet/bin count vs. target?

03 PERMITTING & COMPLIANCE

Why it matters: Permit delays can halt projects and cost thousands in lost time.

- ☐ Does your city or municipality require a permit for racking installs?
- ☐ Do you have building drawings and documents (CAD files)?
- ☐ Have you checked fire-code requirements and your product & classification?

04 SAFETY & REGULATORY

Why it matters: Systems must meet local and industry regulations to avoid fines or injury.

- ☐ Are there safety features or regulations that must be built into your system?
- ☐ Do you require rack guarding, barriers, or high-visibility zones?
- ☐ Is your team trained in racking safety standards (CSA, ANSI, OSHA)?

05 TIMELINE EXPECTATIONS

Why it matters: Planning ahead helps align expectations and secure materials on time.

- ☐ When do you ideally want the system installed?
- ☐ Are there facility changes (expansion, equipment delivery) that affect timing?
- ☐ Have you factored in permitting and lead times?

06 BUDGET & CONSTRAINTS

Why it matters: Budget clarity helps your vendor propose the best-fit solution early on.

- ☐ Have you outlined a budget or price range?
- ☐ Will this project be staged over multiple phases?
- ☐ Are there limits on downtime or working hours?
- ☐ Does your team need to move inventory or use racking as it's installed?

07 TEAM ROLES & DECISION MAKERS

Why it matters: Clear ownership streamlines communication and avoids decision delays.

- ☐ Who is the main point of contact for the project?
- ☐ Are the operations, safety, purchasing, and management teams aligned?
- ☐ Who will approve final specs, costs, and vendor selection?

PLAN WITH CONFIDENCE

**READY TO DISCUSS
YOUR PROJECT?**

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ACCESS THE FULL
DIGITAL CHECKLIST





YOUR PARTNER IN ENGINEERED STORAGE SOLUTIONS