



The Essential DIY Shipping Container Guide

*Practical Steps, Pro Tips & Professional Insights
for Home, Business & Beyond*



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Your Container Journey Starts Here

Whether you're building a backyard office, expanding storage for your business, or designing a mobile workspace, preparation is absolutely key to success. This comprehensive guide walks you through every critical step — from initial site preparation to delivery day logistics — so your container setup is smooth, safe, and built to last for decades.

■ **Brought to you by Container Coalition** — America's trusted source for premium shipping containers, modular solutions, and innovative container technology.

■ What You'll Learn:

- ✓ Accurate site measurement and space planning
- ✓ Professional ground preparation techniques
- ✓ Critical safety considerations and warnings
- ✓ Delivery day coordination and logistics
- ✓ Understanding container dimensions and weights
- ✓ Foundation options and pro installation tips
- ✓ Local permits, zoning, and compliance requirements
- ✓ Advanced builds: Solar, agriculture, and commercial uses
- ✓ Federal contracting opportunities and credentials
- ✓ Future investment opportunities in container technology

■ **PRO TIP:** Read this entire guide *BEFORE* ordering your container. Taking 20 minutes now can save you thousands in delivery fees, site modifications, and potential safety hazards.

■ Measuring the Space

Accurate measurements are the foundation of a successful container delivery. These critical clearances ensure safe access for delivery trucks and equipment:

■ Side Clearance Requirements

Always allow at least 4 feet of clearance on EACH side of the drop site. This space is essential for delivery truck operation, crane arms, and ensuring the driver can safely position and release the container. Tight spaces can result in refused delivery or additional charges.

■ Overhead Obstacles - CRITICAL

Check carefully for:

- Trees and branches (trim at least 20 feet above delivery path)
- Power lines (MINIMUM 20 feet clearance - consult utility company)
- Building eaves, gutters, and roof overhangs
- Low bridges or entrance structures
- Telecommunication cables and equipment

■■ CRITICAL SAFETY WARNING ■■

POWER LINE CONTACT IS DEADLY. When tilt-bed trailers raise containers during delivery, they can reach heights of 15-18 feet. Contact with power lines causes electrocution, fires, and fatalities. If you have ANY doubt about clearance, contact your utility company for a site inspection BEFORE scheduling delivery.

■ Entry Gate and Access Width

Container Size	Minimum Gate/Access Width Required
20' Container	10 feet wide (12 feet recommended)
40' Standard	12 feet wide (14 feet recommended)
40' High Cube	12 feet wide (14 feet recommended)

■ Turn Radius and Straight Access

Standard tilt-bed delivery requires approximately 100 feet of straight space in front of the drop site. The truck needs room to back up, position the container, and safely tilt it off. If your property has tight turns or limited access, inform the delivery team in advance to discuss alternative methods (crane, flatbed, etc.).

■ **PRO TIP:** Use your smartphone to take photos of your site from multiple angles, including overhead obstacles and access paths. Share these with your Container Coalition delivery coordinator to verify feasibility and avoid surprises.

■ ■ Site Preparation

A properly prepared site ensures your container remains level, dry, and structurally sound for years. Poor site prep is the #1 cause of container problems.

■ Essential Checklist:

- **Level the ground** — Use gravel, compacted soil, or concrete base
- **Ensure proper drainage** — Slope 1-2 inches per 10 feet to prevent water pooling
- **Never place on grass or mud** — Use concrete pads, railroad ties, or pavers
- ■ **Elevate in flood zones** — Keep container raised above flood levels
- **Use laser level** — Confirm foundation is even before delivery
- **Install drainage channels** — Especially critical in clay soil areas

■ ■ CRITICAL SAFETY WARNING ■ ■

NEVER place containers on wooden logs or rolling timber. We have documented multiple cases where containers rolled back off unstable wood foundations, causing serious injuries and property damage. Wood also rots, creating uneven settling and structural stress. Always use stable, non-rolling foundations.

■ ■ Foundation Options (Ranked by Quality)

Foundation Type	Durability	Cost	Best For
Concrete Pads (18"x18" each corner)	■ ■ ■ ■ ■	\$\$\$	Permanent installations
Pier Blocks/Pavers	■ ■ ■ ■	\$\$	Semi-permanent setups
Gravel Base (6" deep, compacted)	■ ■ ■ ■	\$	Temporary or rural sites
Railroad Ties	■ ■ ■	\$\$	Budget semi-permanent
Concrete Blocks	■ ■ ■	\$	Short-term placement

■ Recommended: Concrete Corner Pads

For best results, pour four concrete pads (minimum 18" x 18" x 4" deep) at each corner position. This provides maximum stability, prevents settling, and protects your investment. Use #57 stone or crusher run if using gravel, minimum 6 inches deep and thoroughly compacted.

■ **PRO TIP:** Check your local soil type. Clay soils expand and contract with moisture, causing uneven settling. In clay-heavy areas, install French drains or gravel drainage channels around your foundation to redirect water flow.

■ Delivery Day Readiness

Delivery day coordination is critical. A smooth delivery protects your property, ensures driver safety, and gets your container placed exactly where you want it.

■ Before the Truck Arrives:

- ✓ Verify access roads are stable (not muddy or soft after rain)
- ✓ Remove all vehicles, mailboxes, decorations, or obstacles from delivery path
- ✓ Mark your exact drop location with spray paint or stakes
- ✓ Inform neighbors if delivery truck will temporarily block street access
- ✓ Have a spotter available to guide the driver
- ✓ Keep children and pets indoors during delivery
- ✓ Take 'before' photos of your property for documentation

■ Critical Inspection Upon Arrival:

DO NOT let the driver leave until you've inspected:

- Door function - Open and close both doors fully
- Exterior dents, holes, or rust damage
- Rubber door seals are intact and not torn
- Lock boxes and locking rods function properly
- Flooring inside is solid with no holes or soft spots
- Container is level (use level app on smartphone)

■■ CRITICAL SAFETY WARNING ■■

Ensure the delivery driver has a safe entry AND exit path. Drivers need to back out or turn around after delivery. Trapping a truck on your property can result in property damage, massive delays, and additional charges. Discuss exit strategy with the driver BEFORE they position the truck.

■ Delivery Method Notes:

Tilt-Bed Delivery: Most common. Requires 100+ feet of straight space. Container tilts off truck bed.

Crane Delivery: For tight spaces or elevated placements. More expensive but extremely precise.

Flatbed with Forklift: For worksites with forklift access. Cost-effective for commercial deliveries.

Chassis with Truck: Container stays on wheels temporarily. Good for short-term rental situations.

■ **PRO TIP:** *Standard tilt-bed delivery has approximately 100 feet of straight space requirement in front of the drop site. Measure this distance and mark it clearly. If you're unsure, request a site survey from Container Coalition — we'd rather check first than face delivery challenges on the day.*

■ Understanding Container Sizes & Dimensions

Knowing exact dimensions and weights helps you plan foundations, calculate capacity, and ensure code compliance. All measurements are approximate and can vary by manufacturer.

Type	External Dimensions (L x W x H)	Internal Dimensions (L x W x H)	Empty Weight	Max Load	Best For
20' Standard	20' x 8' x 8.5'	19'4" x 7'8" x 7'10"	4,900 lbs	47,900 lbs	Residential storage, backyard offices
40' Standard	40' x 8' x 8.5'	39'5" x 7'8" x 7'10"	8,200 lbs	59,040 lbs	Commercial storage, workshops
40' High Cube	40' x 8' x 9.5'	39'5" x 7'8" x 8'10"	8,600 lbs	58,560 lbs	Retail builds, tall inventory
45' High Cube	45' x 8' x 9.5'	44'5" x 7'8" x 8'10"	9,300 lbs	61,290 lbs	Logistics, commercial expansion

■ Weight Distribution & Foundation Planning

Container weight is distributed across four corner castings. Each corner carries approximately 25% of the total weight. When loaded, ensure weight is evenly distributed to prevent frame stress and foundation settling.

■ **PRO TIP:** High Cube containers offer an extra foot of vertical space (9.5' vs 8.5'), making them ideal for retail conversions, offices with standard ceiling height, or storing tall equipment. The price difference is minimal but the functionality increase is substantial.

■ Stacking Containers Safely

Containers are designed to stack up to 9 units high when properly loaded on ships. For land-based stacking:

- Maximum 3-4 containers high for residential/commercial applications
- Ensure corner castings align perfectly (corner-to-corner load path)
- Use twist locks, bridge clamps, or welded connections between units
- Obtain engineering approval for stacked configurations
- Check local building codes - many require permits for stacking
- Foundation must support combined weight of all stacked units plus load

■■ Ground, Weight & Foundation Pro Tips

Professional-grade foundation knowledge separates successful installations from costly failures. These advanced tips come from decades of container deployment experience.

■ Concrete Pad Specifications

Recommended approach: Pour four concrete pads positioned at each corner casting location:

- Size: Minimum 18" x 18" (24" x 24" preferred for 40' containers)
- Depth: 4-6 inches thick
- Mix: 3,000-4,000 PSI concrete
- Reinforcement: Add rebar or wire mesh for strength
- Curing: Allow 7 days minimum before container placement
- Level: Use string lines and laser level - must be within 1/4" across all pads

■ Gravel Base Alternative

For areas where concrete isn't practical, a properly constructed gravel base works well:

- Use #57 stone or crusher run (¾" crushed gravel)
- Excavate 8-10" deep area, extending 2 feet beyond container footprint
- Install landscape fabric at bottom to prevent weed growth
- Fill with gravel in 3" layers, compacting each layer thoroughly
- Final surface must be level and firmly compacted
- Top with paver blocks or timbers at each corner position

■ Soil Type Considerations

Clay Soils: Expand when wet, contract when dry. Install drainage channels and consider deeper foundations to reach stable subsoil. French drains highly recommended.

Sandy Soils: Excellent drainage but can shift. Use larger foundation footprints (24" x 24" pads) to distribute weight and prevent sinking.

Rocky Terrain: Provides excellent stability but difficult to excavate. Level top layer and use adjustable pier blocks to accommodate irregular surface.

Flood-Prone Areas: Elevate container minimum 18" above predicted flood levels. Use taller pier blocks or construct elevated concrete platform.

■■ CRITICAL SAFETY WARNING ■■

NEVER use unstable materials: No wooden logs, no pallets, no cinder blocks laid flat, no makeshift solutions. Containers weigh 4,000-9,000+ lbs empty. When loaded, they can exceed 60,000 lbs. Inadequate foundations cause tipping, rolling, and structural damage that voids warranties and creates dangerous situations.

■ **PRO TIP:** Before finalizing your foundation, take photos and send them to Container Coalition for a free expert review. We've seen thousands of installations and can spot potential problems before they become expensive mistakes. Email photos to: info@containercoalition.com

■ Local Rules, Permits & Zoning

Regulations vary dramatically by location. What's allowed in rural Wyoming may be prohibited in urban California. Research is essential BEFORE purchasing your container.

■ ■ What to Check With Your City/County:

- ✓ **Zoning approval** - Is your property zoned for accessory structures?
- ✓ **Setback requirements** - How far from property lines must container be?
- ✓ **Building permits** - Required for modified containers (windows, doors, electrical)
- ✓ **Foundation permits** - Some areas require permits for concrete work
- ✓ **HOA restrictions** - Homeowner associations may have specific rules or bans
- ✓ **Visual appearance** - Some areas require containers be screened or painted
- ✓ **Temporary vs. permanent** - Different rules may apply based on duration
- ✓ **Fire safety codes** - Especially for occupied structures (offices, housing)

■ Who to Contact:

- **City/County Planning Department** - Primary source for zoning and permits
- **Building Inspector's Office** - Building code requirements and inspections
- **HOA Management** - If in a planned community or HOA neighborhood
- **Local Fire Marshal** - For occupied structures or specific fire safety questions
- **Your Insurance Agent** - Verify your property insurance covers container placement

■ **PRO TIP:** Take photos of your planned site and show them to the local code office *IN PERSON*. Face-to-face conversations often reveal helpful insights that phone calls miss. Bring this guide with you - showing preparation demonstrates responsibility and often results in more helpful assistance.

■ Modifications Requiring Licensed Work:

These modifications typically require licensed contractors and inspections:

- Electrical installations (outlets, lighting, HVAC, panels)
- Plumbing connections (water supply, drainage, septic)
- HVAC systems (heating, cooling, ventilation)
- Structural modifications (cutting large openings, removing walls)
- Gas connections (if adding gas appliances or heating)
- Fire suppression systems (sprinklers, fire alarm systems)

■ Cost-Effective Comparison:

Shipping containers offer exceptional value compared to traditional structures:

Traditional Shed/Outbuilding: \$12,000-\$15,000 for basic 10x12 structure

20' Shipping Container: Significantly less for 160 sq ft of weatherproof, secure steel storage

Built-to-code Backyard Office: \$25,000-\$40,000 with proper construction

Modified Container Office: Often less than \$20,000 fully finished with HVAC

Traditional Swimming Pool: \$30,000-\$80,000 for in-ground installation

Container Pool Conversion: Significantly more affordable for luxury pool experience

■ **Container Coalition is here to help navigate local regulations.** We work with contractors and builders nationwide who specialize in container modifications and can recommend licensed professionals in your area.

■ Advanced & Future Builds

Container Coalition is at the forefront of innovative container applications. From off-grid living to urban farming, the possibilities are limitless.

■ Solar-Powered Container Systems

Transform containers into self-sufficient, off-grid structures:

- Rooftop solar panel arrays (containers provide excellent mounting surface)
- Battery bank storage inside container for 24/7 power
- Off-grid lighting, refrigeration, and climate control
- Perfect for remote job sites, agricultural operations, emergency shelters
- Pair with Starlink for complete remote office capability

■ Agricultural & BioLab Applications

Growing vegetables and food production in controlled environments:

- Hydroponic and aeroponic growing systems
- Climate-controlled environments for year-round production
- Ideal for remote locations, food deserts, or disaster relief
- Vertical farming maximizes yield per square foot
- Mushroom cultivation in dark, climate-stable spaces
- Research labs with sanitation and filtration systems

■ Container Swimming Pools

Luxury pool experience at a fraction of traditional costs:

- Pre-fabricated steel structure - faster installation
- Above-ground or partially buried options
- Integrated filtration and heating systems
- Year-round use with proper enclosure
- Significantly more affordable than traditional in-ground pools
- Portable - can relocate if you move properties

■ Commercial & Retail Applications

- Pop-up retail stores and boutiques
- Construction site offices and break rooms
- Mobile medical clinics and dental offices

- Restaurant kitchens and food trucks
- Fitness studios and yoga spaces
- Coffee shops and beverage service locations
- Art galleries and event spaces
- Emergency response command centers

■ Federal Contract Opportunities

Container Coalition is Fed Contract Friendly! We work with government agencies, military installations, and federal contractors nationwide. Our containers meet federal specifications and we're experienced with government procurement processes.

■ **PRO TIP:** Ask about our Container Box Rental Program for contractors and worksites! Short-term rentals available for construction projects, special events, temporary storage, and seasonal business needs. Month-to-month terms with flexible buyout options.

■ Future Investment Opportunities

Container Coalition is developing innovative digital investment vehicles tied to real-world modular infrastructure growth:

- **Container Coalition Coin/NFT:** Digital assets representing ownership stakes in container infrastructure projects
- Real-world asset backing (containers, land, development projects)
- Participate in the explosive growth of modular construction and container technology
- Stay tuned for launch announcements and early investor opportunities
- Subscribe at ContainerCoalition.com to receive updates on investment programs



Thank You for Downloading!

You've taken the first step toward a successful container project. Container Coalition is committed to supporting you every step of the way — from initial consultation to final delivery and beyond.

■ Stay Connected & Informed

Stay up to date on innovations in modular living, shipping container technology, future construction methods, and exclusive investment opportunities. Join thousands of container enthusiasts, builders, and investors in the Container Coalition community.

■ Contact Us

Email: info@containercoalition.com

Website: ContainerCoalition.com

■■ Proudly Based in Wyoming

Container Coalition is **Fed Contract Friendly**
We work with government agencies and federal contractors
UIE & CAGE numbers available upon request

■ **Our Services:**

- ✓ Premium Shipping Containers (New & Used)
- ✓ Container Box Rentals for Contractors & Worksites
 - ✓ Custom Modifications & Builds
 - ✓ Nationwide Delivery
- ✓ Site Consultation & Planning Support
- ✓ Commercial & Residential Projects
- ✓ Federal Contract Solutions

■ ***Order Your Shipping Container Today — Don't Wait, Build Your Future!*** ■

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