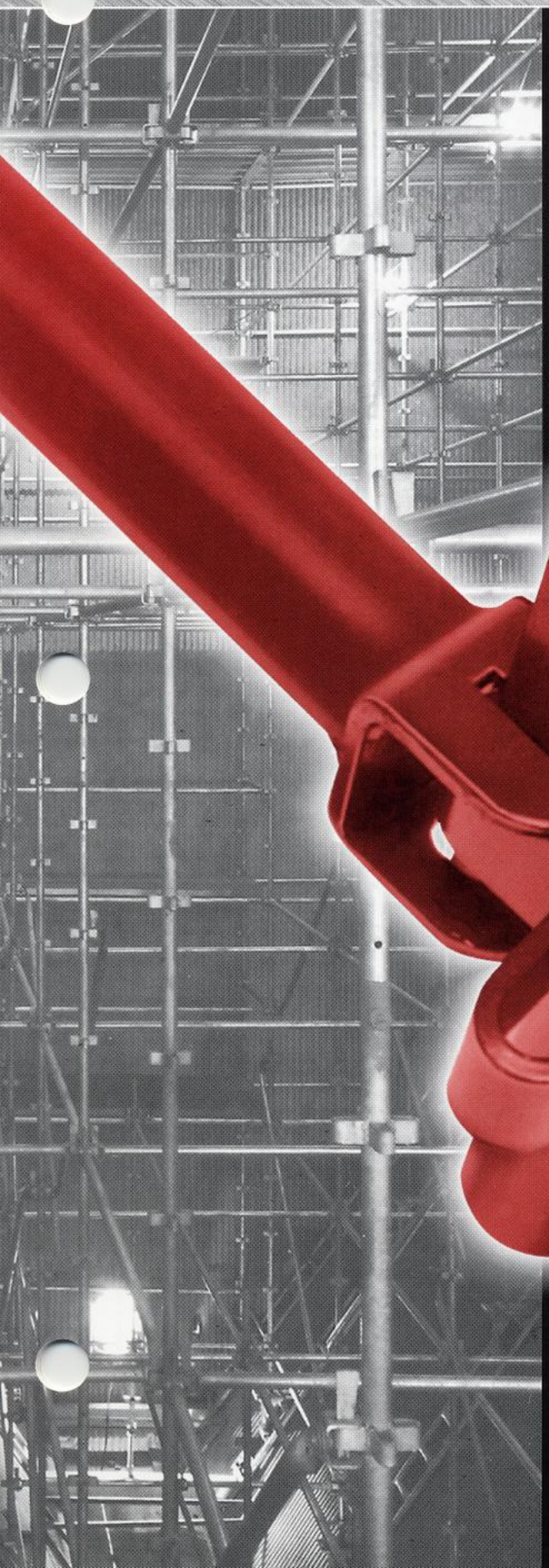
WACO®
Scaffolding & Equipment



WACO® WEDGELOK®

Scaffolding and Shoring System

Waco...The Best Scaffolding in America

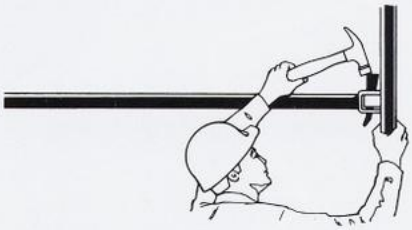
WACO® WEDGELOK®

Wedgelok® modular system scaffolding and shoring has been proven to dramatically increase efficiency in a variety of projects where standard framing is impractical. Projects such as:

- In-plant work, where machinery must be spanned and aisles are too narrow for frames.
- Power generation boilers and other objects where small access openings are common.
- Shipyards, refineries, petrochemical plants and pulp and paper mills with odd-shaped objects that require following radiused contours.
- Atriums, auditoriums, and many others.

Previously, such projects were done with tube and clamp or a combination of frame scaffold with tube and clamp.

Now, Waco® Wedgelok® can save as much as 50% in erection time over tube and clamp. Waco® Wedgelok® also has no loose connectors and can be erected with a less skilled crew. It is the modular system that erects easily and quickly — provides the versatility of tube and clamp — is strong enough to use in shoring applications — shores in less space — requires fewer different pieces than similar systems — and is backed by the most trusted name in scaffolding and shoring equipment, Waco®.

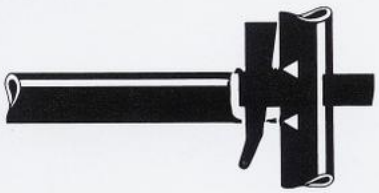


Quick & Easy One-Man Assembly

Each post has a set of four sockets every 20". The horizontal braces have captured wedges at each end which are placed into the appropriate socket. A hammer, the only tool required for complete assembly, is used to set the wedge.

Stronger, Safer

As the wedge is driven, it pulls the "C" flange against the post, locking it securely from any movement. The Wedgelok® design distributes the load directly to the post. Most other systems use a flange to carry the full weight.



Modular Versatility

Unlike standard frame scaffolding, the Wedgelok® system is not restricted by the size or shape of the structure, nor is it restricted to 90° or 45° connections. The unique radiused "C" flange and socket permit a full 60° (30° either side of center) angle adjustment to hug radius work. All of this is accomplished while limiting the choice of connection points to just four sockets to simplify erection. A complete selection of accessory pieces ensures that your Wedgelok® system will conform to even odd-shaped internal or external access problem areas.

Costs Less To Own

Waco® has become one of the largest scaffolding, shoring and forming manufacturers in the world because we design and build our products for you, the user. We have been in the field with you since 1945, and we know that your workers do not treat equipment gently. This abusive job-site treatment was a major consideration in our system design.

We use formed steel in our construction, rather than expensive castings. Individual sockets can be replaced if required. Even the "C" flange can be removed and replaced by competent welders. Replacement costs and downtime are kept to a minimum.

Compact Transportation & Storage

Wedgelok® requires less room for storage and transportation than standard frames. The individual tubes nest securely together. Because the pieces are standard sizes, they can be grouped in various areas on-site to increase erection efficiency. Between jobs, Wedgelok® requires less yard space.

The One...The Only

WACO®, once again, offers you more for your money:

- More strength for both scaffolding and shoring projects.
- More versatility while using only four sockets to eliminate errors in erection.
- More safety by distributing stress through the posts — not flanges.
- More serviceability so you can repair instead of replace.

You have come to expect more from WACO®, and we haven't disappointed you with Wedgelok®.

Waco® gives you more than a quality product — we are built on service. Service that saves you time and money, in both bidding projects and job performance. The professional Waco® team will assist you in engineering the most efficient system for your job, quote you the best possible price, whether rental or purchase, and provide on-site erection and dismantling service.

SIMPLE, FAST, ACCURATE SET-UP

1 Place leveling bases in position, place the horizontal braces loosely onto the appropriate sockets, level, square, and drive in the wedges.

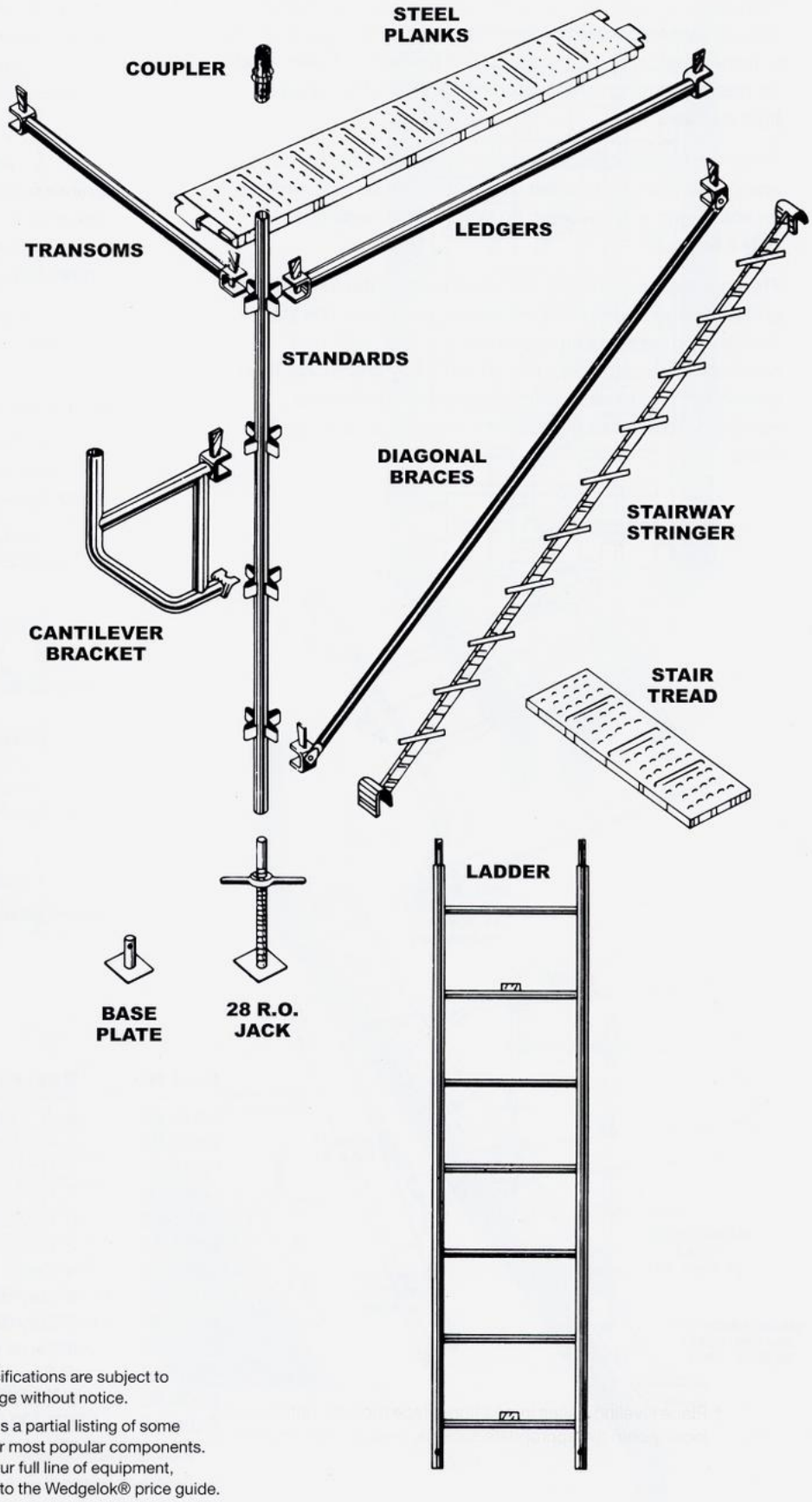
2 Position horizontal braces at the appropriate socket height and drive wedges securely when both ends are in the sockets. NOTE: The wedges are designed to protrude into the socket even in the release position. This enhances erection efficiency with one man and reduces the possibility of inadvertently knocking a brace loose once it's positioned.

3 The process is continued, adding handrails, planking, toe boards and other attachments as required. Note: Only general procedures for erecting Wedgelok® are indicated. Not to be considered as detailed instructions. Consult the assembly manual before field use.

Basic System Components

COMPONENTS DIMENSIONS & WEIGHTS

Part No.	Length	Weight (lbs.)
TRANSOMS (Load bearing)		
0801-20	2'	5.5
0801-26	2'6"	6.3
0801-30	3'	7.1
0801-36	3'6"	8.0
0801-40	4'	8.9
0801-50	5'	10.5
0801-60	6'	12.3
0801-70	7'	14.0
0801-80	8'	15.7
LADDER		
0805-66	6'6"	31.3
0805-69	10'3"	50.8
COUPLER		
0805-10	—	2.3
STANDARDS		
0800-33	3'3"	12.9
0800-50	4'11"	16.2
0800-66	6'6"	23.7
0800-10	9'10"	34.5
CANTILEVER BRACKET		
0804-20	2'	16.4
0804-40*	4'	26.3
*Diagonal brace must be used with 4' bracket.		
BASE PLATE		
0805-24	N/A	2.7
R.O. JACK (w/Base Plate)		
0805-20	2'	23.1
STEEL PLANKS		
0806-20	2'	10.3
0806-26	2'6"	12.3
0806-30	3'	14.5
0806-36	3'6"	16.3
0806-40	4'	18.3
0806-50	5'	22.3
0806-60	6'	26.3
0806-70	7'	30.3
0806-80	8'	34.3
0806-10	10'	42.3
LEDGERS (Non load bearing)		
0802-50	5'	12.5
0802-60	6'	14.3
0802-70	7'	16.7
0802-80	8'	18.1
0802-10	10'	19.2
DIAGONAL BRACES		
0803-40	4' x 4'11"	14.7
0803-50	5' x 6'6"	18.6
0803-60	6' x 6'6"	20.2
0803-70	7' x 6'6"	20.3
0803-80	8' x 6'6"	24.4
0803-10	10' x 6'6"	31.2
STAIRWAY STRINGER		
0805-75	7' bay R.H.	41.7
0805-71	7' bay L.H.	41.7
0805-82	8' bay R.H.	54.8
0805-83	8' bay L.H.	54.8
STAIR TREAD		
0805-30	3'	7.5
0805-36	3'6"	8.8
0805-40	4'	10.0



Specifications are subject to change without notice.

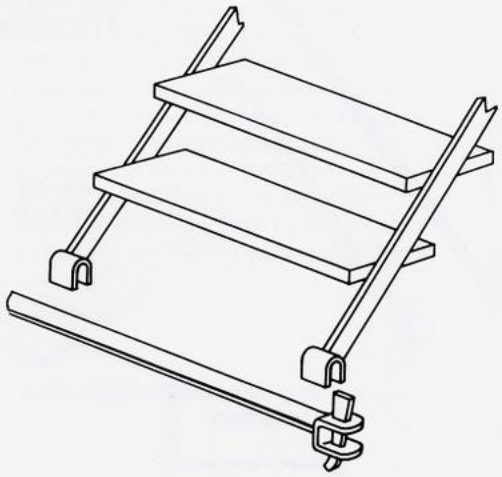
This is a partial listing of some of our most popular components. For our full line of equipment, refer to the Wedgelok® price guide.

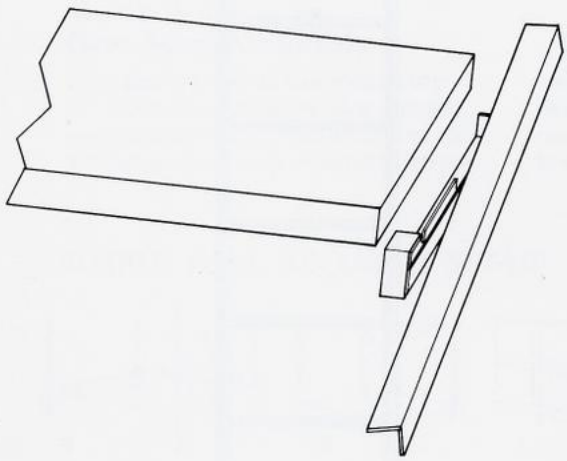
Access Stairs

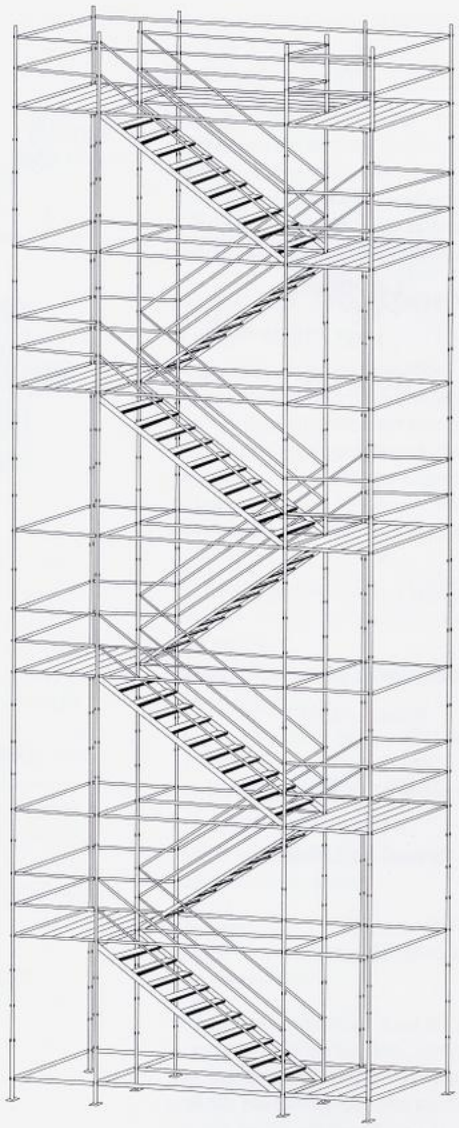
Wedgelok® access stair systems are quickly assembled, strong, lightweight and simple. The modular design features individual right and left stringers, and ten non-slip stair treads for passing through small openings and easy handling in tight quarters.

Since the heaviest single piece weighs less than 40 lbs., one person can, in a matter of minutes, set up or dismantle an entire stair system using no bolts and no wrenches... only a hammer.

The stringers are quickly secured by placing the formed hook ends over the appropriate horizontal members. The stair treads are then simply placed over the notched tread brackets on the stringer bay. Diagonal bay braces are then positioned to add structural integrity and function as handrails. Treads are available for use with 3', 3'6", or 4' bays.







Part No.	Description	Quantity		
		Base Lift	Repeating Lift	Top Lift
0800-66	6'-6" Vertical	—	10	—*
0800-33	3' - 3" Vertical	—	—	10*
0801-40	4' Horizontal	8	12	18
0802-80	8' Horizontal	5	7	14
0803-80	8' Bay Dia. Brace**	6	6	6
0805-20	2' Screw Jack	10	—	—
0805-40	4' Tread	10	10	—
0805-81	8' Bay Stair Str. L/H	1	1	—
0805-85	8' Bay Stair Str. R/H	1	1	—
0806-00	Internal Plank Support	1	1	2
0806-40	4' Steel Plank	2	2	4
0806-80	8' Steel Plank	4	4	13
0800-13	Base Collar	10	—	—

* Toeboards Not Included

** Transverse braces at each end not shown for clarity

The Waco® Wedgelok® scaffold system can help reduce your boiler outage time by days. The ease and speed of assembly and teardown, combined with the ability to use many craftsmen simultaneously, speed repairs and help get your unit back on line in record time.

This strong, lightweight system can mean greater productivity with the extra security and mobility of standing, walking and working on rigid steel scaffolding and decking. Take advantage of increased production with a level of safety never known with suspension access methods...You need WACO® WEDGELOK®!

- All components fit through an 18" opening, including the stair system and decking.
- Fast assembly and dismantling with a hammer. No special tools or skills required.
- Provides access to all areas: firebox walls, pendants, ceilings, superheat and ash hoppers. All this, plus outside access for all maintenance areas of the plant.
- Move access levels when required without disturbing structural integrity.
- Weight is evenly distributed by a special vee bottom system.
- Scaffolding is stable without the need for special fixtures.

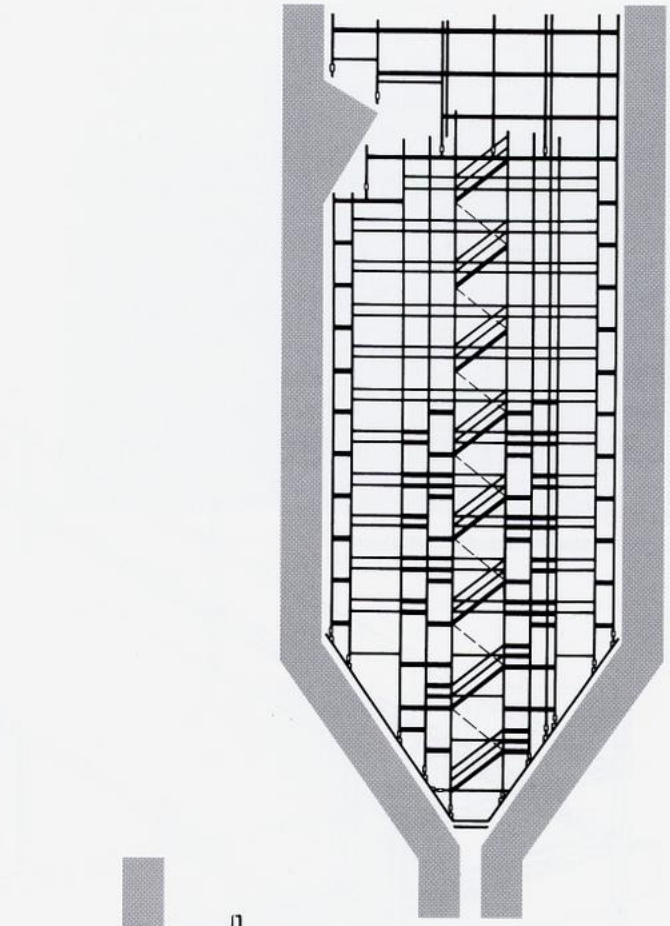
Wedgelok® Load Distribution System for Vee Bottom Boiler

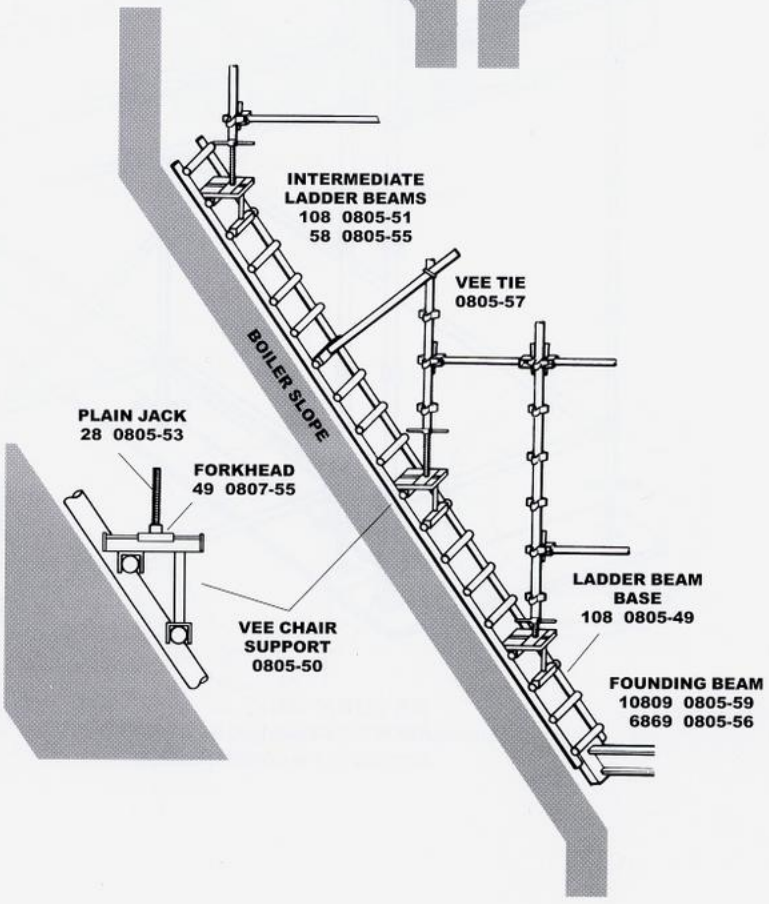
- Lightweight and easily assembled without special tools.
- No welding or bolting required.
- Effectively transfers and distributes weight stress.
- Locates standards accurately for uniform scaffolding layout.
- Adjusts automatically to slope angles.
- Allows free access to ash hopper.

WACO® — THE CHOICE.

Waco® does more than just produce the highest quality access equipment. We are a full service manufacturer that provides complete engineering and job-site support. Waco® will provide layout drawings for standard scaffold system use or custom design a system for your boiler. We will supply supervisory personnel to direct your crew for assembly and dismantling or do total turnkey service. You may choose to purchase the equipment and take advantage of the system's versatility for use in other areas of plant maintenance, or rent the system to limit capital investment.

Whatever your requirements, Waco® has the quality products and professional people to assist you in obtaining peak performance. The choice is yours when your choice is Waco®.



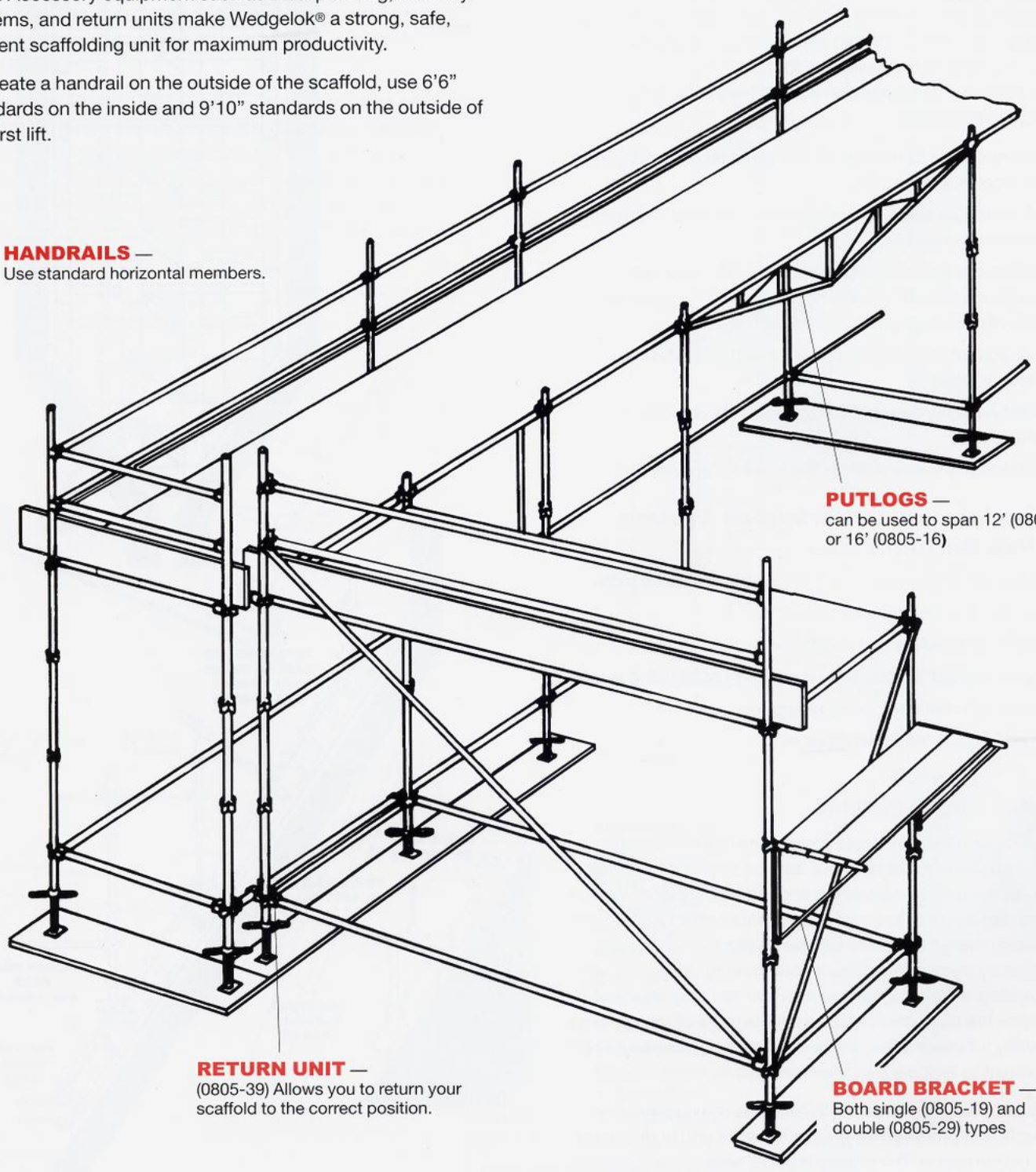


Rectangular Structures

The extreme versatility of the Wedgelok® system allows its use for everything from sidewalk canopies to complete access scaffolding...as well as for boilers, circular and spherical projects.

Erection and dismantling is accomplished quickly with a small crew. Accessory equipment such as steel planking, stairway systems, and return units make Wedgelok® a strong, safe, efficient scaffolding unit for maximum productivity.

To create a handrail on the outside of the scaffold, use 6'6" standards on the inside and 9'10" standards on the outside of the first lift.



HANDRAILS —
Use standard horizontal members.

PUTLOGS —
can be used to span 12' (0805-12) or 16' (0805-16)

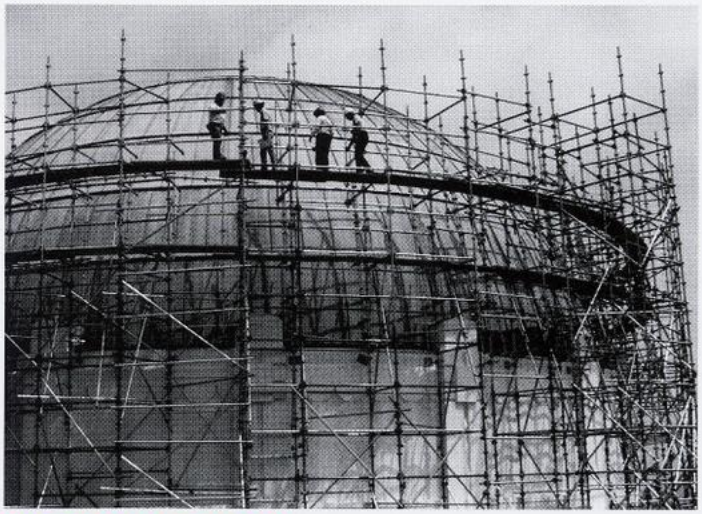
RETURN UNIT —
(0805-39) Allows you to return your scaffold to the correct position.

BOARD BRACKET —
Both single (0805-19) and double (0805-29) types

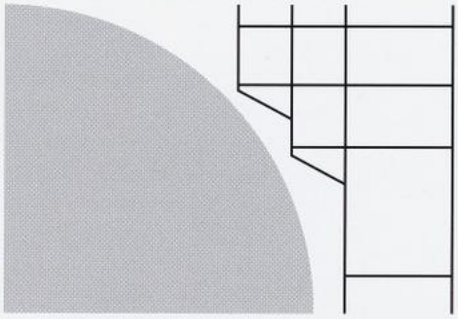
The versatility of Waco® Wedgelok® adds a new dimension of efficiency in erection around circular objects. Unlike some systems which limit your choice of angles to either 90° or 45°, Wedgelok® offers a full 60° (0° to 30° either side of center) to more accurately fit the required diameter. While there are systems that offer infinite angle adjustment, they lose the safety of being able to loosen and move a brace without loosening the adjoining members. Waco® is the only system that offers both sweep angle adjustment and maintained structural integrity.

The telescoping horizontal brace is another exclusive Wedgelok® feature. The brace can be adjusted from 4 ft. to 7 ft., which can dramatically reduce inventory requirements for circular work.

These features, plus our large selection of accessories and component sizes, make Wedgelok® the one and only system for profitable radiused work.

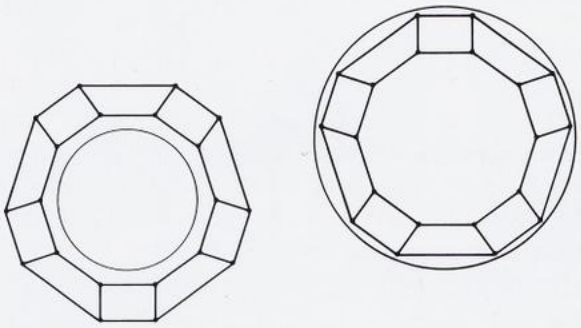


SPHERICAL OBJECTS — bulk tanks and other spherical objects are also handled easily with Waco Wedgelok.



CANTILEVER BRACKETS — 2 ft. and 4 ft. sizes allow you to follow contours, providing complete access.

CIRCULAR OBJECTS — chimneys, structural columns and other objects of any size with a consistent diameter.



Typical Layouts for Various Diameters

SCAFFOLDING SAFETY RULES *(as recommended by* Scaffolding Shoring and Forming Institute)

Following are some common sense rules designed to promote safety in the use of steel scaffolding. These rules are illustrative and suggestive only, and are intended to deal only with some of the many practices and conditions encountered in the use of scaffolding. The rules do not purport to be all-inclusive or to supplant or replace other additional safety and precautionary measures to cover usual or unusual conditions. They are not intended to conflict with, or supersede, any state, local, or federal statute or regulation; reference to such specific provisions should be made by the user.

POST THESE SCAFFOLDING SAFETY RULES in a conspicuous place and be sure that all persons who erect, dismantle or use scaffolding are aware of them.

FOLLOW ALL STATE, LOCAL AND FEDERAL CODES, ORDINANCES AND REGULATIONS pertaining to scaffolding.

INSPECT ALL EQUIPMENT BEFORE USING — Never use any equipment that is damaged or deteriorated in any way.

KEEP ALL EQUIPMENT IN GOOD REPAIR. Avoid using rusted equipment — the strength of rusted equipment is not known.

INSPECT ERECTED SCAFFOLDS REGULARLY to be sure that they are maintained in safe condition.

CONSULT YOUR SCAFFOLDING SUPPLIER WHEN IN DOUBT — scaffolding is his business. **NEVER TAKE CHANCES.**

PROVIDE ADEQUATE SILLS for scaffold posts and use base plates.

USE ADJUSTING SCREWS instead of blocking to adjust to uneven grade conditions.

PLUMB AND LEVEL ALL SCAFFOLDS as the erection proceeds. Do not force braces to fit — level the scaffold until proper fit can be made easily.

FASTEN ALL BRACES SECURELY.

DO NOT CLIMB ON CROSS BRACES. Use an access (climbing) ladder, access steps, frame designed to be climbed or equivalent safe access to the scaffold shall be used.

ON WALL SCAFFOLDS, PLACE AND MAINTAIN ANCHORS securely between structure and scaffold at least every 30' of length and 25' of height.

WHEN SCAFFOLDS ARE TO BE PARTIALLY OR FULLY ENCLOSED, specific precautions must be taken to assure frequency and adequacy of ties attaching the scaffolding to the building due to increased load conditions resulting from effects of wind and weather. The scaffolding components to which the ties are attached must also be checked for additional loads.

FREE STANDING SCAFFOLD TOWERS MUST BE RESTRAINED FROM TIPPING by guying or other means.

EQUIP ALL PLANKED OR STAGES AREAS with proper guardrails, midrails and toeboards along all open sides of ends of scaffold platforms.

POWER LINES NEAR SCAFFOLDS are dangerous — use caution and consult the power service company for advice.

DO NOT USE ladders or makeshift devices on top of scaffolds to increase the height.

DO NOT OVERLOAD SCAFFOLDS.

PLANKING:

- Use only lumber that is properly inspected and graded as scaffold plank.
- Planking shall have at least 12" of overlap and extend 6" beyond center of support, or be cleated at both ends to prevent sliding off supports.
- Fabricated scaffold planks and platforms, unless cleated or restrained by hooks, shall extend over their end supports at least 6", but not more than 12".
- Secure plank to scaffold when necessary.

FOR ROLLING SCAFFOLD, the following additional rules apply:

- **DO NOT RIDE ROLLING SCAFFOLDS.**
- **SECURE OR REMOVE ALL MATERIAL AND EQUIPMENT** from platform before moving scaffold.
- **CASTER BRAKES MUST BE APPLIED** at all times when scaffolds are not being moved.
- **CASTERS WITH PLAIN STEMS** shall be attached to the panel or adjustment screw by pins or other suitable means.
- **DO NOT ATTEMPT TO MOVE A ROLLING SCAFFOLD WITHOUT SUFFICIENT HELP** — watch out for holes in floor and overhead obstructions.
- **DO NOT EXTEND ADJUSTING SCREWS ON ROLLING SCAFFOLDS MORE THAN 12".**
- **USE HORIZONTAL DIAGONAL BRACING** near the bottom and at 20' intervals measured from the rolling surface.
- **DO NOT USE BRACKETS ON ROLLING SCAFFOLDS** without consideration of overturning effect.
- **THE WORKING PLATFORM HEIGHT OF A ROLLING SCAFFOLD** must not exceed four times the smallest base dimension unless guyed or otherwise stabilized.

FOR PUTLOGS & TRUSSES, the following additional rules apply:

- **DO NOT CANTILEVER OR EXTEND PUTLOGS/TRUSSES** as side brackets without thorough consideration for loads to be applied.
- **PUTLOGS/TRUSSES SHOULD EXTEND AT LEAST 6"** beyond point of support.
- **PLACE PROPER BRACING BETWEEN PUTLOGS/TRUSSES** when the span of putlog/truss is more than 12'.

ALL BRACKETS shall be seated correctly with side brackets parallel to the frames and end brackets at 90° to the frames. Brackets shall not be bent or twisted from normal position. Brackets (except mobile brackets designed to carry materials) are to be used as work platforms only and shall not be used for storage of material or equipment.

ALL SCAFFOLDING ACCESSORIES shall be used and installed in accordance with manufacturer's recommended procedure. Accessories shall not be altered in the field. Scaffolds, frames and their components manufactured by different companies shall not be intermixed.

WARNING

Before using, putting up or taking down scaffolding or shoring, check with your boss as to its safe use. There are many ways you can be hurt or killed using scaffolding. Use all equipment in accordance with safety design requirements and standards.

SAFETY MUST COME FIRST!

Branch	Hotline	Fax
Dealer Sales	(800) 321-3150	(216) 267-9562
Akron, OH	(800) 676-9226	(330) 785-3921
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Carson, CA	(800) 251-4503	(310) 538-1003
Charleston, WV	(800) 678-9226	(304) 744-0349
Cincinnati, OH	(513) 829-4757	(513) 829-4749
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