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OSHA REGULATIONS FOR FORMWORK AND SHORING

Here and on the following page are reproduced the United States Occupational Safety and Health Act provisions regulating concrete construction, concrete forms, and shoring. This material is taken from the U.S. Department of Labor: "Occupational Safety & Health Administration", 29CFR, Part 1926 (as published originally in the Federal Register, V. 37, No. 243, Dec. 16, 1972). It is the contractor's responsibility to confirm the following regulations have not been revised, amended or superceded; or that any additional Local, State, or Federal regulations may be applicable for the location of the project.

Subpart Q-Concrete and Masonry Construction

1926.760 Scope, application and definitions applicable to this subpart.

(a) *Scope and application.* This subpart sets forth requirements to protect all construction employees from the hazards associated with concrete and masonry construction operations performed in workplaces covered under 20 CFR part 1926. In addition to the requirements in subpart W, other relevant provisions parts 1910 and 1926 apply to concrete and masonry construction operations.

(b) *Definitions applicable to this subpart.* In addition to the definitions set forth in 1926.32, the following definitions apply to this subpart.

(1) *Bull float* means a tool used to spread out and smooth concrete.

(2) *Formwork* means the total system of support for freshly placed or partially cured concrete, including the mold or sheeting (form) that is in contact with the concrete as well as all supporting members including shores, reshores, hardware, braces, and related hardware.

(3) *Lift slab* means a method of concrete construction in which floor, and roof slabs are cast on or at ground level and, using jacks, lifted into position.

(4) *Limited access zone* means an area alongside a masonry wall, which is under construction, and which is clearly demarcated to limit access by employees.

(5) *Precast concrete* means concrete members (such as walls, panels, slabs, columns, and beams) which have been formed, cast, and cured prior to final placement in a structure.

(6) *Reshoring* means the construction operation in which shoring equipment (also called reshores or reshoring equipment) is placed, as the original forms and shores are removed, in order to support partially cured concrete and construction loads.

(7) *Shore* means a supporting member that resists a compressive force imposed by a load.

(8) *Vertical slip forms* means forms which are jacked vertically during the placement of concrete.

(9) *Jacking operation* means the task of lifting a slab (or group of slabs) vertically from one location to another (e.g., from the casting location to a temporary (parked) location or to its final location in the structure), during the construction of a building/structure where the lift-slab process is being used.

{53 FR 22643, June 16, 1988, as amended at 55 FR 42328, October 18, 1990}

1926.701 General Requirements

(a) *Construction loads.* No construction loads shall be placed on a concrete structure or portion of a concrete structure unless the employer determines,

based on information received from a person who is qualified in structural design, that the structure or portion of the structure is capable of supporting the loads.

(b) *Reinforcing steel.* All protruding reinforcing steel, onto and into which employees could fall, shall be guarded to eliminate the hazard of impalement.

(c) *Post-tensioning operations.* (1) No employee (except those essential to the post-tensioning operations) shall be permitted to be behind the jack during tensioning operations. (2) Signs and barriers shall be erected to limit employee access to the post-tensioning area during tensioning operations.

(d) *Riding concrete buckets.* No employee shall be permitted to ride concrete buckets.

(e) *Working under loads.* (1) No employee shall be permitted to work under concrete buckets while buckets are being elevated or lowered into position. (2) To the extent practical, elevated concrete buckets shall be routed so that no employee, or the fewest number of employees, are exposed to the hazards associated with falling concrete buckets.

(f) *Personal protective equipment.* No employee shall be permitted to apply a cement, sand, and water mixture through a pneumatic hose unless the employee is wearing protective head and face equipment.

{53 FR 22643, June 16, 1988, as amended at 59 FR 40730, August 9, 1994}

1926.702 Requirements for equipment and tools.

(a) *Bulk cement storage.* (1) Bulk storage bins, containers, and silos shall be equipped with the following: (i) Conical, or tapered bottoms; and (ii) mechanical or pneumatic means of starting the flow of material.

(2) No employee shall be permitted to enter storage facilities unless the ejection system has been shut down, locked out, and tagged to indicate that the ejection system is not to be operated.

(b) *Concrete mixers.* Concrete mixers with one cubic yard (.8m³) or larger loading skips shall be equipped with the following: (1) A mechanical device to clear the skip of materials; and (2) Guardrails installed on each side of the skip.

(c) *Power concrete trowels.* Powered and rotating type concrete troweling machines that are manually guided shall be equipped with a control switch that will automatically shut off the power whenever the hands of the operator are removed from the equipment handles.

(d) *Concrete buggies.* Concrete buggy handles shall not extend beyond the wheels on either side of the buggy.

(e) *Concrete pumping systems.* (1) Concrete pumping systems using discharge pipes shall

be provided with pipe supports designed for 100 percent overload. (2) Compressed air hoses used on concrete pumping system shall be provided with positive fail-safe joint connectors to prevent separation of sections when pressurized.

(f) *Concrete buckets.* (1) Concrete buckets equipped with hydraulic or pneumatic gates shall have positive safety latches or similar safety devices installed and prevent premature or accidental dumping. (2) Concrete buckets shall be designed to prevent concrete from hanging up on top and the sides.

(g) *Tremies.* Sections of tremies and similar concrete conveyances shall be secured with wire rope (or equivalent materials) in addition to the regular coupling or connections.

(h) *Bull floats.* Bull float handles, used where they might contact energized electrical conductors, shall be constructed or nonconductive material or insulated with a nonconductive sheath whose electrical and mechanical characteristics provide the equivalent protection of a handle construction of a nonconductive material.

(i) *Masonry saws.* (1) Masonry saws shall be guarded with semicircular enclosure over the blade. (2) A method for retaining blade fragments shall be incorporated in the design of the semicircular enclosure.

(j) *Lockout/Tagout Procedures.* (1) No employee shall be permitted to perform maintenance or repair activity on equipment (such as compressors, mixers, screens or pumps used for concrete and masonry construction activities) where the inadvertent operation of the equipment could occur and cause injury, unless all potentially hazardous energy sources have been locked out and tagged. (2) Tags shall read *Do Not Start* or similar language to indicate that the equipment is not to be operated.

1926.703 Requirements for cast-in-place concrete.

(a) *General requirements for formwork.*

(1) Formwork shall be designed, fabricated, erected, supported, braced and maintained so that it will be capable of supporting without failure all vertical and lateral loads that may reasonably be anticipated to be applied to the formwork.

Formwork which is designed, fabricated, erected, supported, braced and maintained in conformance with the Appendix to this section will be deemed to meet the requirements to this sections will be deemed to meet the requirements of this paragraph.

(2) Drawings or plans, including all revisions, for the jack layout, formwork (including shoring equipment), working decks, and scaffolds, shall be available at the jobsite.

(b) *Shoring and reshoring.* (1) All shoring equipment (including equipment use in reshoring operations) shall be inspected prior to the erection to determine that the equipment meets the requirements specified in the formwork drawings.

OSHA REGULATIONS CONTINUED

- (2) Shoring equipment found to be damaged such that its strength is reduced to less than that required by 1926.703(a)(1), shall not be used for shoring.
- (3) Erected shoring equipment shall be inspected immediately after concrete placement. (4) Shoring equipment that is found to be damaged or weakened after erection, such that its strength is reduced to less than that required by 1926.703(a)(1), shall be immediately reinforced.
- (5) The sills for shoring shall be sound, rigid, and capable of carrying the maximum intended load.
- (6) All base plates, shore heads, extension devices, and adjustment screws shall be in firm contact, and secured when necessary, with the foundation and the form.
- (7) Eccentric loads on shore heads and similar members shall be prohibited unless these members have been designed for such loading.
- (8) Whenever single post shores are used one on top of another (tiered), the employer shall comply with the following specific requirements for formwork:
- (i) The design of the shoring shall be prepared by a qualified designer and the erected shoring shall be inspected by an engineer qualified in structural design.
- (ii) The single post shores shall be vertically aligned.
- (iii) The single post shores shall be spliced to prevent misalignment.
- (iv) The simple post shores shall be adequately braced in two mutually perpendicular directions at the splice level. Each tier shall also be diagonally braced in the same two directions.
- (9) Adjustment of single post shores to raise formwork shall not be made after the placement of concrete.
- (10) Reshoring shall be erected, as the original forms and shores are removed, whenever the concrete is required to support loads in excess of its capacity.
- (c) **Vertical slip forms.** (1) The steel rods or pipes on which jacks climb or by which the forms are lifted shall be:
- (i) Specifically designed for that purpose; and
- (ii) Adequately braced where not encased in concrete.
- (2) Forms shall be designed to prevent excessive distortion of the structure during the jacking operation.
- (3) All vertical slip forms shall be provided with scaffolds or work platforms where employees are required to work or pass.
- (4) Jacks and vertical supports shall be positioned in such a manner that the loads do not exceed the rated capacity of the jacks.
- (5) The jacks or other lifting devices shall be provided with mechanical dogs or other automatic holding devices to support the slip forms whenever failure of the power supply of lifting mechanism occurs.
- (6) The form structure shall be maintained within all design tolerances specified for the plumbness during the jacking operation.
- (7) The predetermined safe rate of lift shall not be exceeded.
- (d) **Reinforcing steel.** (1) Reinforcing steel for walls, piers, columns, and similar vertical structures shall be adequately supported to prevent overturning and to prevent collapse.
- (2) Employers shall take measures to prevent

unrolled wire mesh from recoiling. Such measures may include, but are not limited to, securing each end of the roll or turning over the roll.

(e) **Removal of formwork.** (1) Forms and shores (except those used for slabs on grade and slip forms) shall not be removed until the employer determines that the concrete has gained sufficient strength to support its weight and superimposed loads. Such determination shall be based on compliance with one of the following:

- (i) The plans and specifications stipulate conditions for removal of forms and shores, and such conditions have been followed, or
- (ii) The concrete has been properly tested with an appropriate ASTM standard test method designed to indicate the concrete compressive strength, and the test results indicated that the concrete has gained sufficient strength to support its weight and superimposed loads.

(2) Reshoring shall not be removed until the concrete being supported has attained adequate strength to support its weight and all loads in place upon it.

Readers are cautioned to refer directly to Title 8 of the California Code of Regulations and the Labor Code for detailed information regarding the regulation's scope, specifications, and exceptions and for the other requirements that may be applicable to their operations.

Forms, Falsework, and Vertical Shoring

By definition concrete forms are considered falsework. Falsework, however, also includes support systems for forms, newly completed floors, bridge spans, etc., that provide support until appropriate curing or stressing processes have been completed. See below for selected SOs:

A. Design of falsework

- Concrete formwork and falsework must be designed, supported and braced to safely withstand the intended load...1717(a)(1)
 - Falsework design, detailed calculations, and drawings must be signed and approved by an engineer (Ca PE) if the falsework height (sill to soffit) exceeds 14 ft., if the individual horizontal span length exceeds 16 ft., or if vehicle or railroad traffic goes through the falsework...1717(b)(1)(A), (B)
- Note: For other falsework, approval may be provided by a manufacturer's representative or a licensed contractor's qualified representative...1717(b)(2)(B), (C)

3. Falsework plans must be available at the job site...1717(b)(3)

4. Minimum design loads are as follows:...1717(a)(2)

- Total combined live and dead load: 100 psf
 - Live load and formwork: 20 psf
5. Additional loads must be considered in the design...1717(a)

B. Erection of falsework

- Falsework must be erected on a stable, level, compacted base and supported by adequate pads, plates or sills...1717(b)(4)
- Shore clamps (metal) must be installed in accord with manufacturer's instructions...1717(d)(2)

C. Inspection

- Before pouring concrete on falsework requiring design approval, or an engineer (Ca PE) or the engineer's representative must inspect for and certify compliance with plans...1717(c)(1)
- Note: For other falsework, the inspection and

certification may be provided by a manufacturer's representative or a licensed contractor's qualified representative...

1717(c)(2)(B), (C)

2. A copy of the inspection certification must be available at the job site...1717(c)(3)

D. Access to forms and falsework

- Joists (51/2 in. wide) at not more than 36 in. o.c. may be used as walkways while forms are placed...1717(d)(3)
- A plank (12 in. wide) may be used as a walkway while joists are placed...1717(d)(5)

E. Fall protection

Periphery rails are required as soon as supporting members are in place...1717(d)(4)

Note: The area under formwork is a restricted area and must be posted with perimeter warning signs...1717(d)(6)(A)

Guardrails

Guardrails must be installed at the open sides of all work surfaces that are 71/2 ft. or higher, or workers must be protected by other fall protection or, if justified, by a valid fall protection plan...1621(a)

A. Guardrailing specifications

- Railing must be made from select lumber (or equivalent material) and must consist of:
 - A wooden top rail that is 42 in. to 45 in. high that measures 2" x 4" or larger
 - A midrail that is placed halfway between the top rail and the floor and that measures at least 1" x 6"
 - A supporting post that measures at least 2" x 4" and is placed every 8 ft. ...1620(a), (b), and (c)
- All railings should be capable of withstanding a load of 200 lbs.
- Railing constructed of substitute materials must meet the following requirements:
 - The top rail must be smooth surfaced and 42 in. to 45 in. high above the floor, platform, etc.
 - Protection between the top rail and the floor, platform, etc., must be equivalent to that provided by the standard midrail.
- The top rail or midrail on scaffolding platforms may be substituted by the X-braces as specified in the scaffolding regulations...1644(a)(6)

B. Guardrailing applications

- Floor and roof openings: Floor and roof openings in any work surface must be railed or covered. The cover must be substantial, securely fastened, and able to withstand the load of workers or material. Covers must bear a sign stating-OPENING-DO NOT REMOVE...1632(b), (e)
- Note: Roof openings include skylights unless they meet the requirements of 3212(e).
- Wall openings: Wall openings must be guarded if there is a drop of more than 4 ft. and the bottom of the opening is less than 3ft. above the working surface...1632(j)
- Elevators: Guardrails are required for elevator shaft openings that are not enclosed or do not have cages...1633
- Falsework: Guardrails are required as soon as falsework-supporting members are in place...1717(d)(4)
- Demolition: Wall openings must be guardrailed during demolition except on the floor being demolished and on the ground floor...1735(k).

SAFETY FACTORS AND SAFE WORKING LOADS

In its continued development of accessories and related working parts for the construction industry, Atlas Construction Supply has placed increasing emphasis on ensuring that material supplied from its manufacturing plants meets or exceeds the normal safety requirements for concrete construction.

New product designs are tested in our fabrication plant and/or independent testing laboratories, field tested and then modified as required before production begins. The safe working loads listed in this price list were determined from these tests.

Do not use any Atlas Construction Supply product before first reading and understanding the instructions shown in the appropriate handbook. For safety, quality assurance must be extended to field personnel with the contractor making sure that his employees are properly instructed in the use and installation of Atlas Construction Supply products.

The safety factor to be applied to a particular product is a variable, depending on the degree of hazard or risk involved in the application of that product. In concrete construction, various job site conditions can often increase the degree of risk. Concentrated loads of reinforcing bars or storage of other types of construction materials on formwork, unsymmetrical placement of concrete, uplift, impact, use of motorized carts, formwork height, jerking of a crane during the lifting of concrete elements, use of a crane not adequate for the job, bouncing of the concrete elements after it has been lifted, are some of the conditions that have a high risk factor. Safety factors must be increased by the user to reduce these risks. It is for this reason that we state the minimum safe working loads of our products.

Atlas Construction Supply recommends that the provisions of the American National Standards Institute's (ANSI A 10.9), OSHA (Occupational Safety and Health Administration Act, Part 1926) and the American Concrete Institute's Guide to Formwork for Concrete (ACI 347) be strictly followed when considering safety factors and safe working loads. We especially advise that the minimum safety factors listed below be adhered to. When there are unusual job conditions, these minimum safety factors must be increased by the user.

Recommended Minimum Safety Factors		
Accessory	Safety Factor	Type of Construction
Form Tie	2 to 1	All applications
Form Anchor	2 to 1 3 to 1	Formwork supporting form weight and concrete pressures only Formwork supporting weight of forms, concrete construction live loads and impact
Form Hangers	2 to 1	All applications
Anchoring Inserts Used as Form Ties	2 to 1	Precast concrete panels when used as formwork
Brace Anchors	2 to 1	Bracing of tilt-up precast concrete wall panels
Inserts	3 to 1	Inserts used to make permanent connections between tilt-up or precast concrete elements
Lifting Inserts	2 to 1 4 to 1	Tilt-up construction Precast concrete construction
Lifting Plates and Related Items	5 to 1	Hardware used for lifting and handling of tilt-up or precast concrete elements

Warning! When in doubt about the proper use or installation of Atlas Construction Supply's accessories and hardware, contact Atlas Construction Supply for clarification. Failure to do so may result in exposure of workers to unsafe conditions or hazards, resulting in the possibility of injury or death to workers in the vicinity of the jobsite.

SAFETY NOTES AND PRODUCT APPLICATION

Liability

Atlas Construction Supply guarantees its products as shipped from the plant and when used within the scope of this catalog. These products are, however, intended for use by trained, qualified and experienced workers. Even slight misuse or lack of supervision and inspection can contribute to serious accidents. All unusual applications should be carefully field tested before general production use.

The user of Atlas products must evaluate the product application, determine the appropriate safe working load, and control all field conditions to prevent applications of loads in excess of the safe working load. Safety factors as shown are approximate. Safe working loads should never be exceeded.

Availability

Because of the technical skills required, certain products in this catalog are available only to those customers who have demonstrated the ability to apply and service these products properly.

Worn Working Parts

It is the user's responsibility to continually inspect working hardware for wear and to discard the parts when wear is noted. DO NOT straighten bent bolts, rather discard and replace. Discard any bolts known to have been used at loads of 70% ultimate strength or more. Such bolts may have been stretched sufficiently to become brittlehard.

Impact wrenches must not be used to tighten bolts that are part of a form tie system, form anchor, or hanger system.

Shop, Field Arc Welding

DO NOT WELD TO ANY CASTING unless in the opinion of a qualified engineer such weld is in a no load - non-critical area. Welding to iron castings can cause extreme brittleness to form near the weld area and can destroy nearly all of the casting's load value.

WIRE PRODUCTS are often tack welded for positioning. Since we cannot control either the workmanship or conditions under which this work is done, Atlas DOES NOT GUARANTEE any product altered in the field by welding or bending.

Design Changes

Atlas reserves the right to change product designs, safe working load ratings and product dimensions at any time without prior notice to users. (Such changes will be made only for product improvement or further safety.)

Interchangeability

Many of the products that Atlas Construction Supply manufactures and supplies are designed as a system. Atlas cannot guarantee that the components from systems supplied by other manufacturers are completely interchangeable with components supplied by Atlas.

WARRANTY

Atlas Construction Supply will refund the price of or replace, at its election, any product which it finds to be defective provided the product has been used properly. EXCEPT AS EXPRESSLY STATED ABOVE, THE COMPANY MAKES NO WARRANTY OF MERCHANTABILITY AND NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE NOR DOES IT MAKE ANY WARRANTY, EXPRESS OR, IMPLIED, OF ANY NATURE WHATSOEVER WITH RESPECT TO THE PRODUCT OR THE

USE THEREOF, BY WAY OF ILLUSTRATION AND NO LIMITATION, IN NO EVENT SHALL THE COMPANY BE LIABLE FOR DELAY CAUSED BY DEFECTS, FOR LOSS OF USE, FOR INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES, OR FOR ANY CHARGES OR EXPENSES OF ANY NATURE INCURRED WITHOUT ITS WRITTEN CONSENT. THE FOREGOING IS THE FULL EXTENT OF THE RESPONSIBILITY OF THE COMPANY EVEN THOUGH THE COMPANY MAY HAVE BEEN NEGLIGENT.

AL-SPEED® SHORING FRAME

**ALUMINUM SHORING FRAME
HANDSET SHORING SYSTEM**



AL-SPEED® Shoring Frame

The innovative Atlas AL-SPEED® Frame is a strong, light and durable shoring frame that improves the quality and speed of concrete construction, eases formwork set-up and removal, and reduces construction costs. This premier aluminum frame is the result of rigorous research and testing; all performed to provide our customers with the very best shoring system available.

High Load Capacity

The high load capacity of the AL-SPEED® frame, combined with being lightweight (the 6' wide x 6' high frame weighs 50 lbs), and requiring minimal components, provides contractors with a shoring frame that is safe, efficient and economical.

Atlas Construction Supply takes pride in providing our customers with shoring solutions that will lead to accomplished project objectives and lasting relationships.

Versatility

The versatility of the AL-SPEED® Frame allows for quick erection and dismantling of simple and intricate deck layouts. The AL-SPEED® system also has fewer parts than other shoring systems, therefore maximizing productivity and minimizing jobsite losses/thefts.

Frame Sizes (width x height)

- 6' x 6', 6' x 5', 6' x 2'8"
- 3' x 6', 3' x 5', 3' x 2'8"



Call Atlas for competitive pricing on HDO, MDO and PSF plywood. Atlas stocks various sizes and styles of plywood to suit different project requirements.

AL-SPEED® SHORING FRAME

HANDSET ALUMINUM FRAME

ADVANTAGES OF THE AL-SPEED® FRAME

Aluminum: Lightweight and Durable. Will provide a long service life.

High Shoring Coverage - up to 15.5 kip / leg.
31,000 lbs. support capacity per 50 lb. frame.

Versatile system can accommodate both simple or intricate deck designs.

Less time and labor needed for erection and dismantling than other systems.

6' wide frame reduces total number of frames needed to support suspended concrete and formwork. Approximately 100 Sq. Ft. per frame, up to 12" slab thickness.

Minimal parts and components. Frame is complete with integral bearing surfaces.

6', 5', & 2' 8" high frames accommodate all shoring heights (4'6" Min.). Available in 6' or 3' widths.

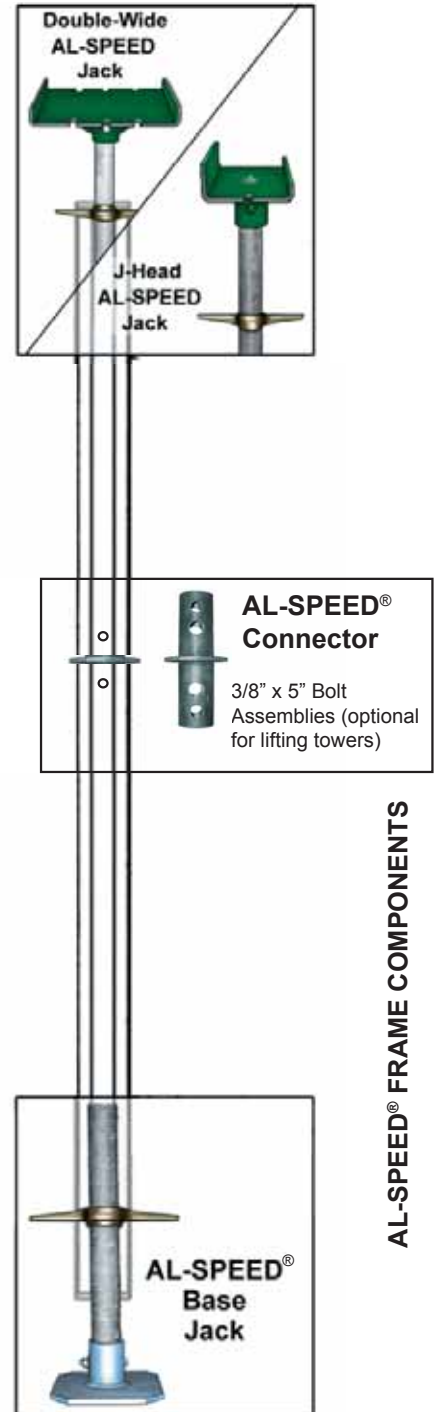
Only 2 revolutions per inch for AL-SPEED® jacks. Quick set-up and removal of system.

Striated horizontal rails.

Quicklock System allows for easy connection and removal of crossbraces.



*One Semi-truck can carry up to 10,000 Ft² of shoring equipment for up to 12" deck.

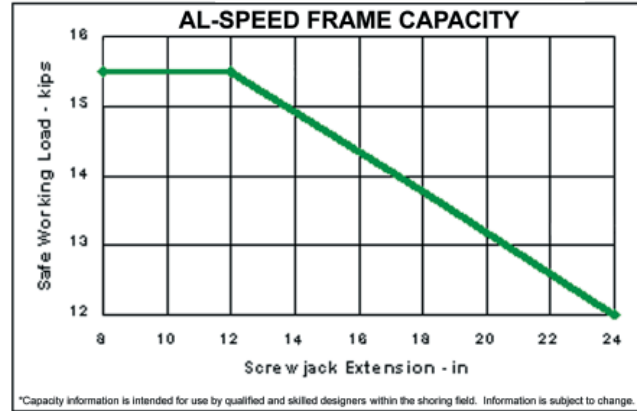


AL-SPEED® FRAME COMPONENTS

AL-SPEED® SHORING FRAME



HANDSET ALUMINUM FRAME



Frame Capacity 3 Tiers High, Cross-Braced Towers
Safety Factor= 2.5 : 1 Equal Screwjack Extension, Top & Bottom

BEAMS AND STRINGERS



6.5" Aluminum Beams available in standard lengths:
7'0", 9'0", 10'6", 12'0", 14'0", 16'0", 18'0", and 21'0"



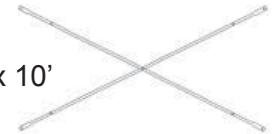
7.5" Stringers available in standard lengths
8'0", 10'0", 12'0", 14'0", 16'0", and 20'0"

LVL BEAMS

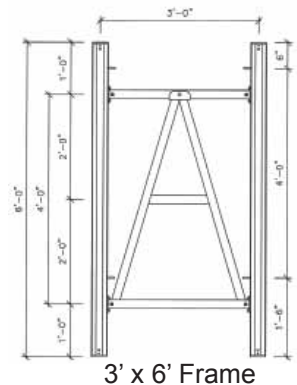
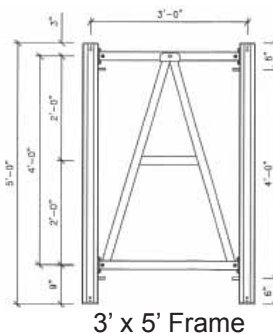
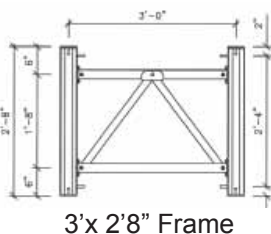
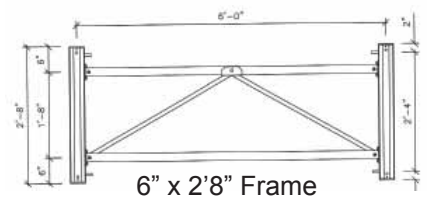
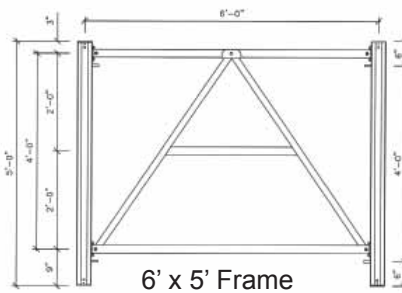
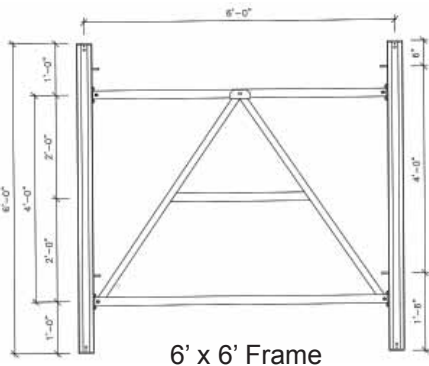
Available in standard 4" x 4" with 7' and 14' lengths.

CROSSBRACES

Cross braces available in standard sizes:
4' X 4', 4' X 6', 4' x 8', 4' x 10'



FRAME SIZES

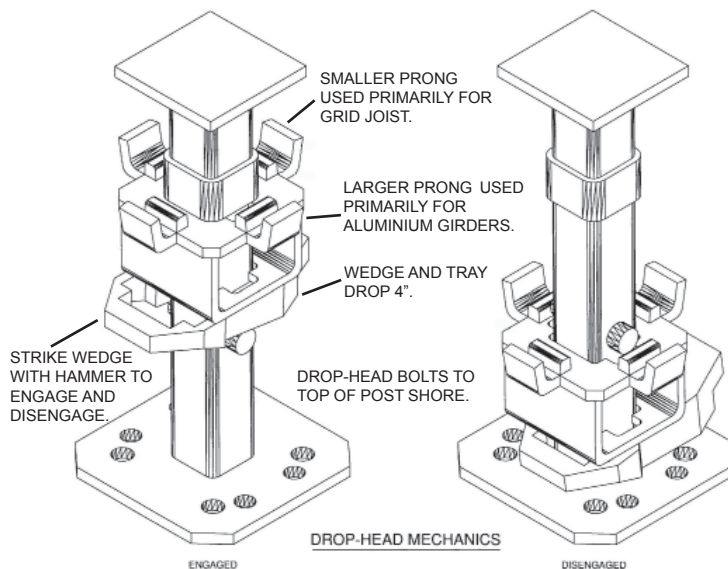


POST, JOIST & DROPHEAD HANDSET SHORING SYSTEM

ATLAS A-DECK™ is a post, joist and drop-head handset shoring system designed to maximize labor productivity and reduce formwork cycle time. The primary components include hi-capacity post shores with drop heads, aluminum girders and LVL joists. The **ATLAS A-DECK™** system provides a high level of productivity through the use of a 6' x 8' grid pattern, easy to handle components, and drop-heads for early retrieval and cycling of joists, girders and plywood. The ability to install the system from the ground with simple light-weight components results in added safety and overall ease of use.

The **A-DECK™** drophead provides contractors a safe and faster early-retrieval system than 'rotary' style stripping mechanisms. A single, unimpeded, square hammer blow can disengage the loaded wedge, dropping the girders and joists 4" for fast and easy removal. A fixed key prevents an unsecured wedge from prematurely disengaging.

For mid & high rises, **A-DECK™** perimeter tables can be used for building perimeters which incorporate 3' of workspace beyond the slab edge. The tables are available in a large combination of widths and depths.



ATLAS A-DECK™



ATLAS A-DECK™



ATLAS A-DECK™ ADVANTAGES

- Post shores can accommodate soffit heights from 6'-11" to 11'-7", or up to 14'-5" with available extension.
- Can support a 12" thick concrete slab on 6' x 8' grid throughout entire post range, including use of extension. (Up to 15'-5" finished floor to finished floor).
- Can support slabs up to 48" thick throughout post range with standard equipment.
- Drop-head allows for early retrieval of joists and girders formwork and untrapped plywood while loaded post shore remains intact.
- 6' x 8' grid pattern reduces the amount of post shores required, reduces installation time, and is well suited for the use of 4' x 8' plywood sheets.
- Joists and girders are individually labeled by length to facilitate identification on the job site.
- Fast cycling of equipment by means of fast-actuating drop-head, racks, baskets and carts.
- Hammer is only tool needed to install and strip system.
- Easily ties into **A-DECK™** perimeter tables or **AL-SPEED®** shoring frame.



ATLAS A-DECK™

ATLAS A-DECK™ TECHNICAL FEATURES

- 4" drop distance facilitates removal of girders, joists, and plywood.
- 3.5" X 3.5" LVL joists offer increased ability to place and secure plywood.
- Girders allow for use of conventional 4X4'S or 4X6'S when obstructions exist.
- Allows for double camber conditions, up to 10% slopes in each direction.
- Rigid braces provide better system stability than standard "jet-lock" style crossbraces.
- Quick release post shore pin allows 1/8" drop to facilitate removal of post shore.
- Drop head allows for changing direction of joist by 90°.

A-DECK™ Carts: Atlas offers customers the convenience of **A-DECK™** Carts designed to hold girders, LVL joists, posts and drop-heads. Contractors can easily move material from one part of the job site to another and store material.



ATLAS A-DECK™ TABLES**PERIMETER TABLES**

ATLAS A-DECK™ perimeter tables can be used for building perimeters which incorporate 3' of workspace beyond the slab edge. The tables are available in a large combination of widths and depths, including up to 24' wide by 20' deep, and provide safety railing that complies with OSHA regulations even after the slab has been cast. The tables are easily cycled up the building with the 4-cable adjustable **A-DECK™** caddy, which is available in either single level or dual level sizes. In addition, the tables have hinging legs that can 'fly over' undisturbed fall protection on the level below.



DYNAMIC SHORING SYSTEM

10-FORMING
& SHORING

**HIGH CAPACITY
SHORING SYSTEM**

The Dynamic shoring system was developed to decrease labor costs and increase productivity for high slab and high load capacity projects. Legs, frames and beams create a shoring system with minimal components that can support loads up to 25,000 lbs per leg.

ICS Dynamic Shoring System has three leg sizes: 5'7", 9'6" and 14'1" allowing contractors to achieve virtually any slab height. Versatility makes the Dynamic system the perfect choice for high slab and high capacity projects such as bridge supports, tunnel construction and power plants.



ATLAS TRUSS DECK



TRUSS & JOIST TABLE FORMS

Trusses

In addition to handset decking systems, Atlas offers flying deck forms and truss solutions for repetitive, multi-reuse projects.

Trusses are available in variable height aluminum or steel configurations. Joists are typically aluminum beams.

Features of Atlas flying deck forms are:

- Aluminum and steel trusses
- Aluminum joists
- Table sizes up to 36' wide and 85' long



ATLAS COLUMN MOUNTED DECK

COLUMN MOUNTED TABLE FORMS

Atlas offers column mounted deck systems that allow for fast cycling of repetitive deck layouts, without the need for typical reshore. The components include hi-capacity column mounted jacks, castellated primary members, and open web or aluminum joists.

Features of Atlas Column Mounted Deck Systems:

- Hi-capacity column mounted jacks with integral rollers.
- Castellated beams with open web or aluminum joists.
- Table sizes up to 30' wide and 100' long.
- Minimal or no reshore necessary.
- Fast pour cycles.

For more information on the **Atlas Column Mounted Jack** see page 38.



GARAGE BEAM SYSTEM-GBS**GARAGE BEAM SYSTEM (GBS)**

The Garage Beam System (GBS) is a comprehensive design and equipment plan for post-tensioned concrete beam and slab parking structures. The system consists of long beam form assemblies, high-capacity leg supports, column and capital forms, and reusable deck panels. All Garage Beam components are quickly handled and moved with forklifts and dollies for maximum forming productivity and reduced labor costs.

Beam Forms

The beam forms feature long assemblies faced with 3/16" steel skin plate for strength, durability and excellent concrete finish. No tie system or added beam bracing is required.

Capital Forms

All-steel capital forms are designed specifically for typical exterior or "pass-through" interior locations. Forms are steel-faced for smooth concrete finish and include steel chamfer. Provisions for post-tension cable penetrations are also included in the capital form design.

Deck Panels

Deck panels are field-fabricated with a template using wood or aluminum beams and HDO plywood allowing spans up to 22'-0" without center shoring. The HDO plywood deck panels produce a consistently smooth concrete finish and provide maximum reuse.



**AL-SPEED® GARAGE
BEAM SYSTEM**

**PARKING STRUCTURE
FORM SYSTEM FOR
NON-TYPICAL BEAM SIZE**

Atlas offers approaches for beam and slab post-tensioned parking structures where equipment can be cycled in applications ranging from totally handset to totally pre-fabricated.

Another feature of this system is that deck joists are typically designed to clear span in structural bays of up to 21' in width. This not only eliminates the labor-intensive activity of center-bay post shoring, but also streamlines the reshoring requirement with regard to both equipment and labor costs.

Fabricated beam lengths, handset or partial handset garage beam options are available. Please contact an Atlas representative to discuss specific project requirements.



ATLAS ALUMINUM BEAM WALL FORMS



GANGED ALUMINUM WALL FORMS

Lightweight

Atlas offers this wallform system weighing only 10 lbs./sq.ft. including 3/4" plywood skin, utilizing high strength aluminum members for both walers and strongbacks, and is offered for applications where rapid cycling and/or architectural surface finishes are required. The Atlas tie plate allows strongback channels to be set with a clear space of 3-1/2" between webs, allowing more lateral tie bolt adjustment than comparable systems.



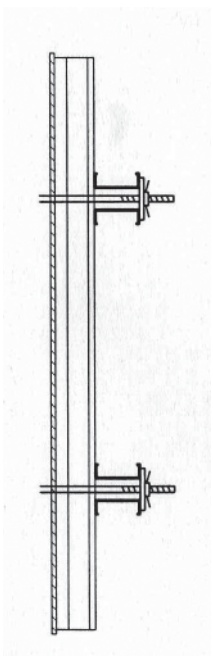
Atlas provides a complete system which includes tie equipment, alignment braces, catwalk brackets, lifting hardware, and miscellaneous accessories requiring the customer to provide only plywood and incidental timber for catwalks and bulkheads, etc.



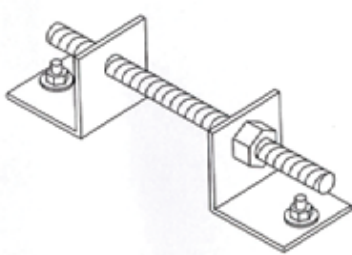
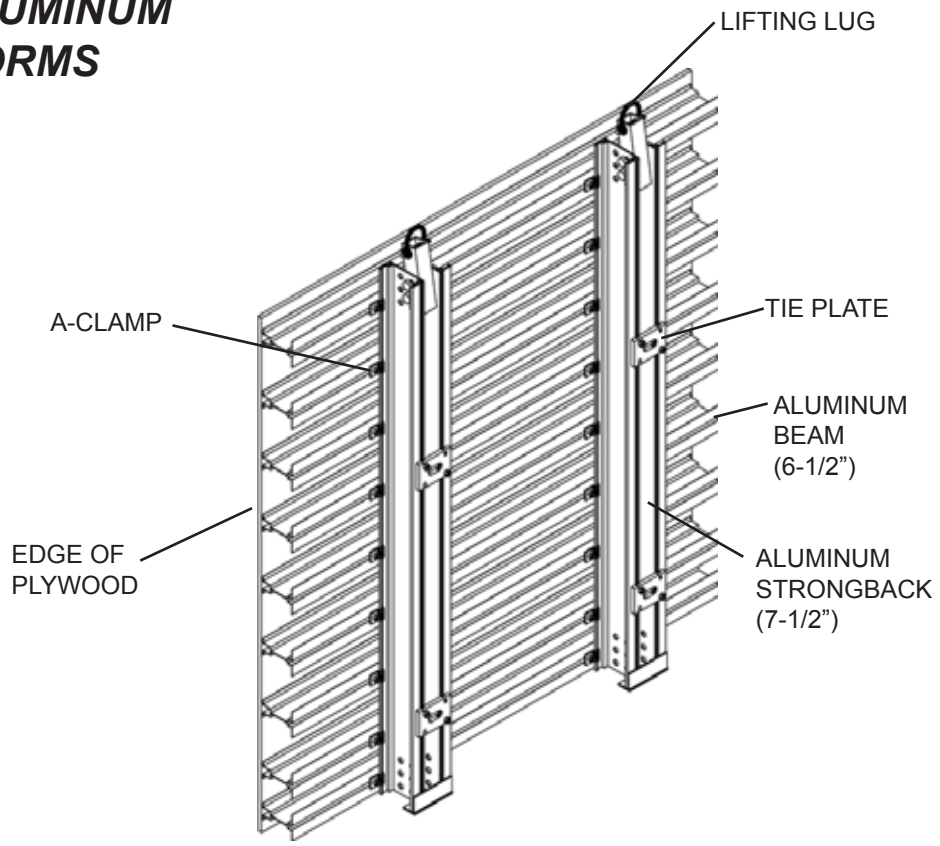
WALLFORM COMPONENTS

10-FORMING
& SHORING

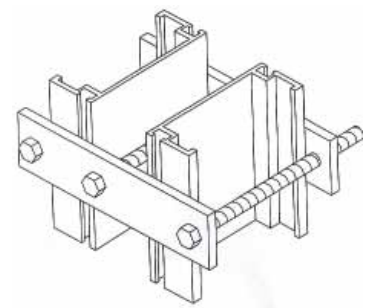
**GANGED ALUMINUM
WALL FORMS**



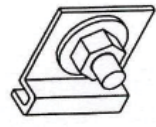
PLAN VIEW



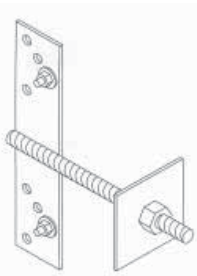
ANGLE BRACKET



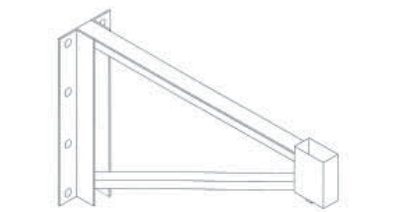
3 HOLE BRACE PLATE



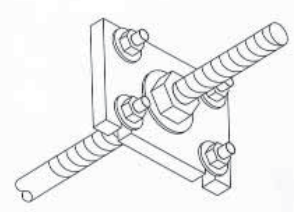
A-CLAMP
ASSEMBLY



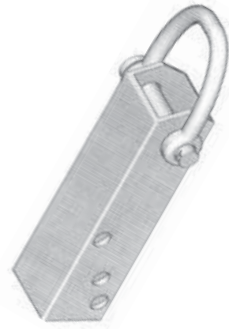
BULK HEAD
BRACKET



CATWALK/SCAFFOLDING
BRACKET



TIE PLATE



LIFTING LUG

ATLAS WALLBEAM FORMS



GANGED LVL WALLBEAM FORMS

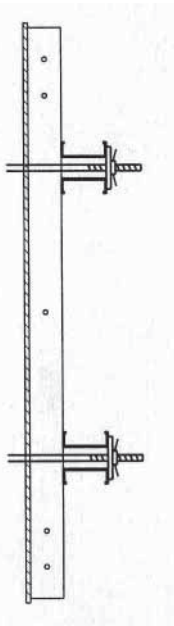
In addition to its all aluminum wallform system, Atlas offers LVL Wall Beams as joists (and/or strongbacks). These form components are typically used with a tie pattern of 4ft. x 4ft. creating a symmetrical pattern with plywood yielding favorable concrete finishes.

For more information on **LVL wallbeam** see page 40.



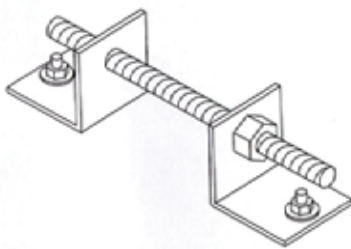
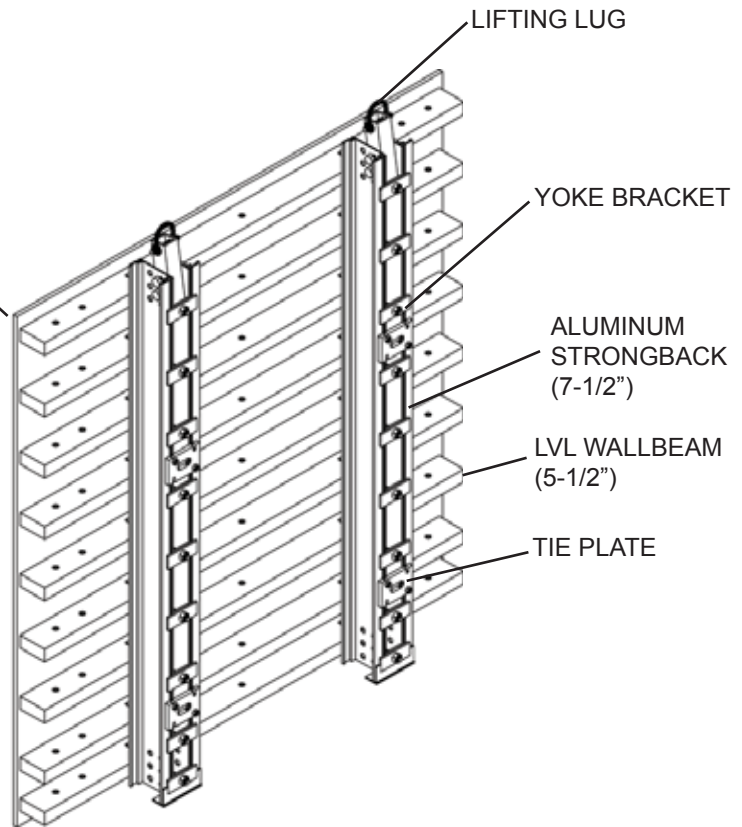
WALLFORM COMPONENTS

**GANGED LVL
WALLBEAM FORMS**

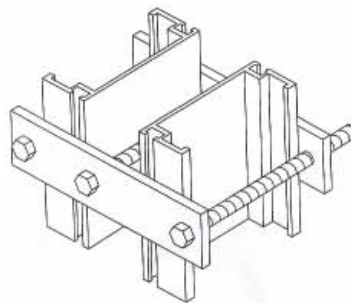


PLAN VIEW

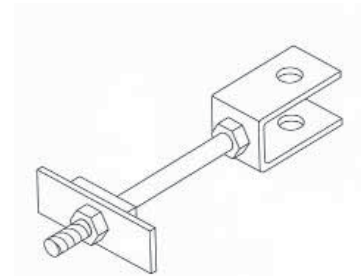
EDGE OF PLYWOOD



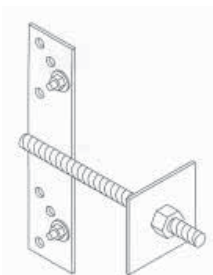
ANGLE BRACKET



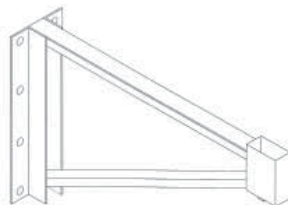
3 HOLE BRACE PLATE



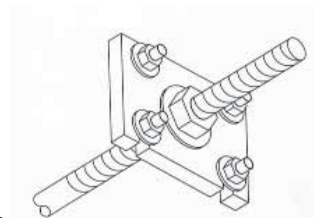
YOKE BRACKET



BULK HEAD BRACKET



CATWALK/SCAFFOLDING BRACKET



TIE PLATE



LIFTING LUG

ATLAS JUMP FORM SYSTEM

JUMP FORM SYSTEM

For external elevated form applications, Atlas offers an integrated jump form system to augment the gang forms.

The system utilizes the Atlas A100 Frame as its nucleus, which affords a 7' wide working platform to service the elevated forms.

The system, suspended from jump-shoes bolted to the previous concrete lift, allows stripping, reworking, and preparation of the forms to proceed prior to crane assistance. This is achieved by means of a retracting carriage on which the form is mounted. The carriage allows approximately 30" of retractions from the previously cast face, giving adequate working clearance "inside" the form.

With all this activity being possible at the working level, the form never needs to be brought to ground level or stored elsewhere while decking activity is proceeding. With this system, it is no longer necessary for unacceptably lengthy crane-intensive hoisting operations to take place. Neither is it necessary for workers to "ride" the forms during re-setting, as the gang/platform unit is hoisted as one and landed into previously mounted jump shoes. Hoisting time is extremely brief.

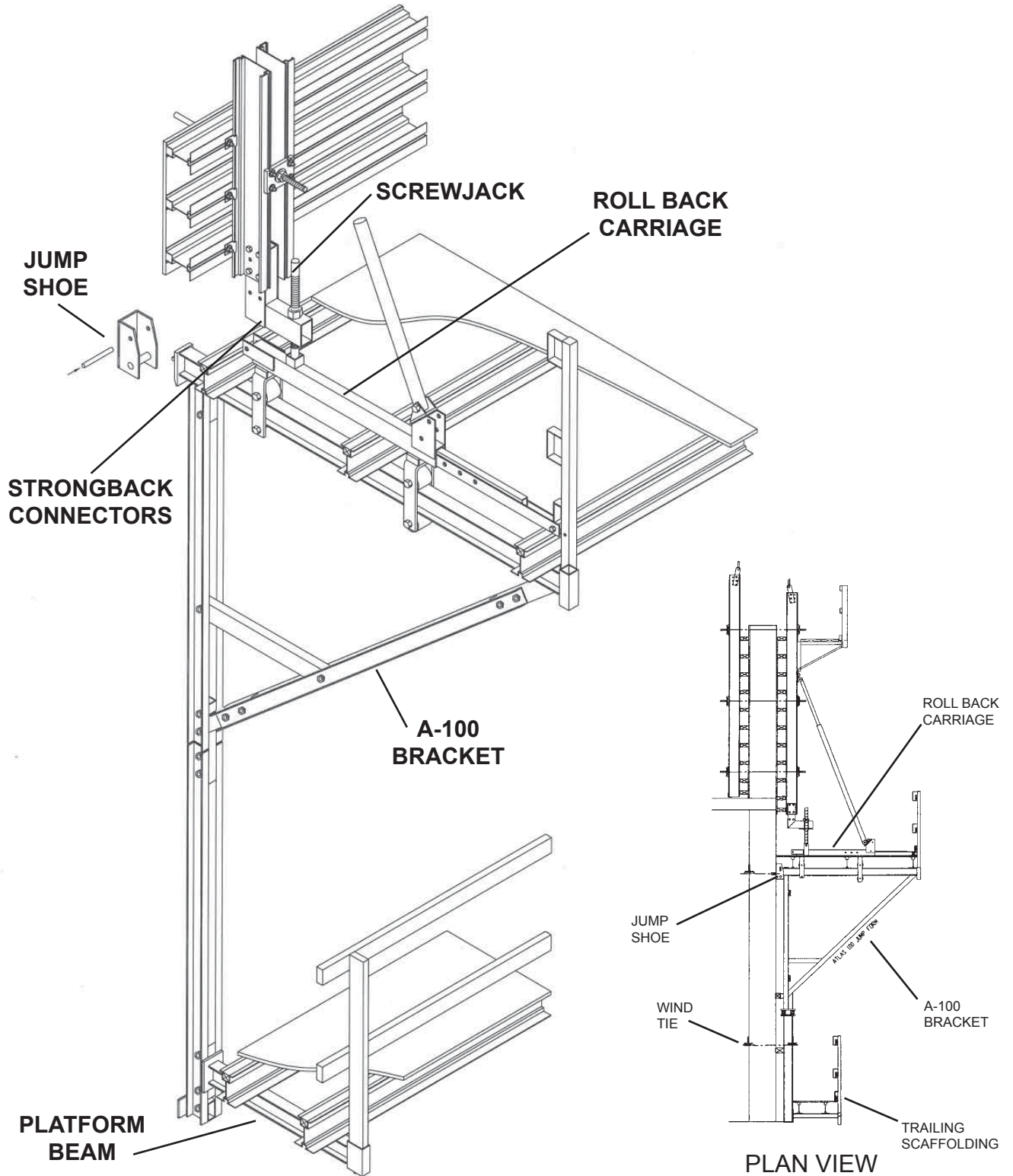
An additional feature of the system is the trailing platform which is connected to the A100 Frame as the system climbs its way up the structure. This trailing platform serves several functions, namely:

- Allows convenient jump-shoe removal as construction proceeds.
- Allows access to the safety tie-back.
- Allows sacking and patching to be accommodated from this trailing platform.



ATLAS JUMP FORM SYSTEM

**JUMP FORM SYSTEM
COMPONENTS**



ACS WALLFORM SYSTEM

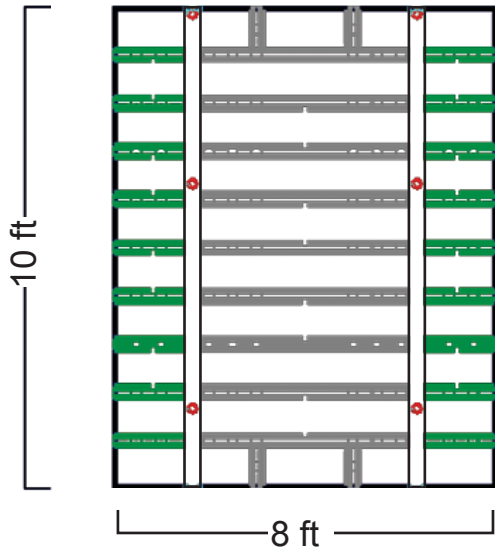


**ATLAS GANGED WALLFORM
CLAMP SYSTEM**

The new ACS (Atlas Clamp System) heavy-duty modular ganged wallform offers an allowable 1,650 psf pour pressure, and weighs only 11 lbs per sq.ft. ACS provides Concrete Contractors with a high performance form that is easier to set-up, strip down and transport than other panel systems.

- Maximum safe working pressure of 1,650 psf with a 7/8" (20mm) thru-rod or 1-1/4" to 1" taper tie.
- Maximum safe working pressure of 1,250 psf with a 5/8" (15mm) thru-rod.
- The side rails support an 18mm Dulen-X® board or 5/8" Birch Plywood.
- Rail profile allows for easy clamping, long form life and is easier to repair than hollow frame panels.
- Tie holes in large size panels are designed for high capacity ties.
- The tie hole is in a conical shape for tie tolerances and for easier cleaning.
- For bulkhead forming, spacer channels allow for wall thicknesses of 6" to 20" with adjustment increments of 1".

8' x 10' ACS Panel



Available Panel & Filler Sizes

10 Feet	8 Feet	4 Feet
8' x 10'		
4' x 10'	4' x 8'	4' x 4'
3' x 10' Multi	3' x 8' Multi	3' x 4' Multi
3' x 10'	3' x 8'	3' x 4'
30" x 10'	30" x 8'	30" x 4'
24" x 10'	24" x 8'	24" x 4'
22" x 10'	22" x 8'	22" x 4'
18" x 10'	18" x 8'	18" x 4'
12" x 10'	12" x 8'	12" x 4'
8" x 10'	8" x 8'	8" x 4'
2" x 10'	2" x 8'	2" x 4'
1" x 10'	1" x 8'	1" x 4'
IC; OC; IHC; OHC	IC; OC; IHC; OHC	IC; OC; IHC; OHC
Stripping IC	Stripping IC	Stripping IC

ACS WALLFORM SYSTEM

**ATLAS GANGED WALLFORM
CLAMP SYSTEM**

Atlas ACS Wedge Clamp

The round wedge clamp provides an easy & fast method of connection between panels. The clamp works with any panel or filler size and allows for strong connections with minimal hardware. This one-piece clamp weighs only 3.5 lbs and has an admissible axial tension of 1,575 lbf.

Typical Clamp Use:
 10' height - 4 clamps
 8' Height - 3 clamps
 4' Height - 2 clamps



ACS Accessories

ACS Spacer Channel



The ACS spacer channel allows for an adjustment to wall thickness from 6" to 20" in increments of 1".



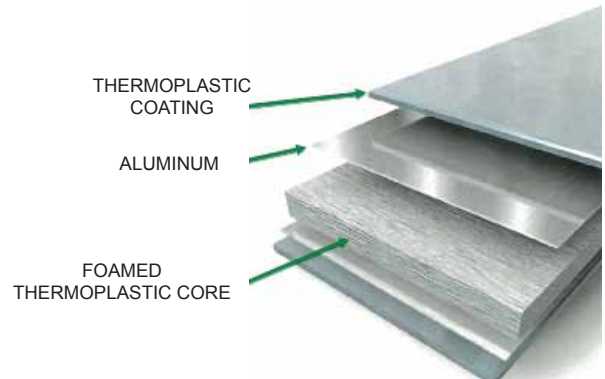
ACS Brace System

ACS Crane Clamp



Atlas ACS Features Dulen-X® Board

- High Use Capability
- 18mm Poly-Propylene Composite Panels
- Durability - Constant rigidity throughout lifetime
- No swelling, shrinking or delamination
- Workable like wood- nailing, sawing
- Same attachment to panel frame as plywood
- Repairability
- Less form release agent required
- Easy to clean forms
- Produces a dense & smooth concrete surface



ALISPLY



**MODULAR WALLFORM
STRAIGHT & RADIUS**

This metric dimension, straight and radius modular forming system consists of a galvanized steel frame and a specially coated 15mm (5/8") plywood face. It provides the strength, durability, versatility and concrete finish needed for most gangforming applications.

Panels and fillers

Available in a variety of widths from 25cm to 200cm, and heights of 1 meter or 3 meters, this range of panel and filler sizes means you'll be able to form almost any wall dimension. When combined with corners and accessories, pilaster, bulkheads and columns can be formed with standard equipment.

Horizontal or vertical

Alisply forms can be used horizontally or vertically, even within the same gang without compromising strength. Alisply has the strength required for the large contact areas and fast pour rates common in large gangform applications. With a design pressure of 1230 lbs/sq.ft., only two ties are needed for 3 meter panel heights.

Simple connections

The Alisply system features simple clamp connections that eliminate the need for tools and aligning bars. Setting up or changing the configuration of gangs is fast and simple with these innovative attachment clamps, reducing assembly confusion, increasing productivity and simplifying the gangforming operations.

Alisply Circular

Alisply Circular is a recoverable modular formwork system for circular fair-faced concrete walls, designed to be handled with a crane. Alisply Circular consists of a light galvanized steel frame and a 15 mm thick phenolic plywood lining. The frame incorporates tie rods that allow giving the wall the required radius on site.

RADIUS WALL FORMS

ATLAS GANGED RADIUS WALL FORM SYSTEM

The Atlas Adjustable Waler System is capable of servicing both segmental and full circular construction of round tanks. For full circular construction, the system can be utilized tieless, the walers being capable of withstanding lateral concrete pressures in the form of tension/compression rings.

The system comprises a ply-faced form, with aluminum beam vertical members, which are in turn supported by horizontally oriented adjustable waler units which create a true curve. This system allows pipe penetrations with a minimum of inconvenience.

Radius adjustments of 10' and up can be accommodated.



FLEX-FORM SYSTEM

The all-steel Flex-Form system has integral 4" deep vertical stiffeners with 3/16" steel skin plate to provide a 1,000 psf system that handles radius 5' and over.

Pre-rolled steel ribs set the radius. Factory rolled top and bottom ribs bolt to flexible panels to shape and securely hold the form in the radius required. Panels conform accurately to the radius of the ribs ensuring that the correct radius is achieved every time.

Panels are delivered to the job site pre-assembled to meet specific job requirements. Flex-Form panels are available in over 100 sizes, from 2' wide by 1' long to 10' wide by 20' long and are available on a sale or rental basis.



ONE-SIDED WALL FORMS

ONE-SIDED WALL FORMS

Tied and Ganged One-sided Forms

Atlas provides wall form equipment as described in the Ganged Wall Form Section along with weld brackets which are mounted to the soldier beams supporting shoring to the basement excavation typically at 8 ft. centers. Concrete placement rates at 5'/hr. can generally be accommodated, while still maintaining 5 ft. vertical spacing of ties. Standard inventory, snub-nosed coil taper ties are included as part of the system package, allowing both rapid installation and stripping of forms.

Tied and Handset One-sided Forms

Atlas has a unique handset (craneless) approach to the forming of one-sided (blind) walls. The same components as above are utilized by individually placing aluminum beams. This design allows quick setting and stripping practices, along with the high load capacity of aluminum, absent of the use of a crane. This system is ideal for single lifts and projects with limited equipment and space.

Tie-Less Ganged One-sided Forms

Atlas is able to offer a basic gang wall system, this time tieless through the concrete wall and connected to, and laterally supported by, the Atlas A-100 Frame secured to the floor or foundation below.



STEEL-PLY

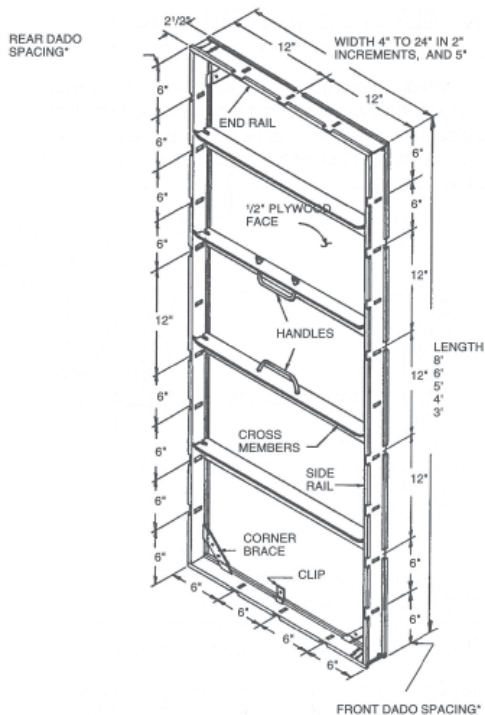
HANDSET WALLFORMS

The Steel-Ply forming system is a pre-engineered, factory built, reusable concrete forming system. It may be used in handset or gang form applications, for commercial or residential structures. The Steel-Ply forming system can form walls of almost any shape or size, with accessories for special structures and details.

The Steel-Ply forming system saves time because it is easy to set up and strip. No measuring, sawing, drilling, or nailing is required. The only tool required is a hammer.

Steel-Ply is available in a variety of standard sizes which can be combined to form virtually any dimension. This forming system is constructed of laminated plywood mounted on steel frames. With proper care this system can be used up to 200 times before being reconditioned.

All standard panel sizes and most accessories are available on a rental or sale basis.



ATLAS COLUMN FORMS



AL-SPEED® COLUMN FORM

ATLAS AL-SPEED® COLUMN FORMS

Atlas AL-SPEED® fully fabricated adjustable aluminum column form system offers the advantages of providing an efficient column form solution while producing an architectural concrete finish. Fully fabricated forms are generally provided on a rental basis or job duration lease.

Atlas AL-SPEED® column forms are capable of 36" widths and generally utilized to a height up to 16 ft. They are provided with quick double closures (two piece) or hinged/ single closures (one piece). Form skins are generally 3/4" HDO.

The AL-SPEED® column clamps are available as individual rental or sale items. AL-SPEED® fits columns from 14" x 14" up to 36" x 36".

ATLAS MULTI-CHANNEL COLUMN FORMS



MULTI-CHANNEL COLUMN FORM

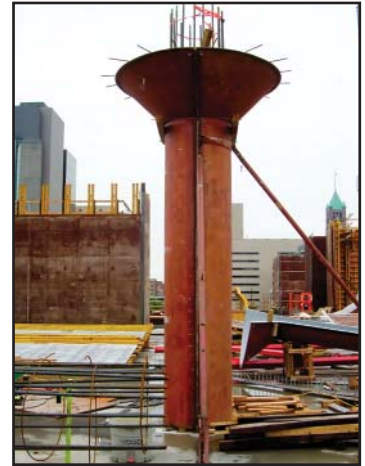
Atlas Multi-Channel fully fabricated aluminum adjustable steel column form system offers the advantages of providing an efficient column form solution while producing an architectural concrete finish. Fully fabricated forms are generally provided on a rental basis or job duration lease.

Atlas Multi-Channel forms are capable of 72" widths and have been used to heights of 45 ft. They are provided with quick swivel barrel assembly double closures. Atlas can offer these pre-assembled and delivered to the jobsite ready to use. The Multi-Channel column clamps are also available as individual rental or sales items. Multi-Channel Clamp fits columns from 12" to 72".

COLUMN FORMING

ONE PIECE ROUND COLUMN FORMS

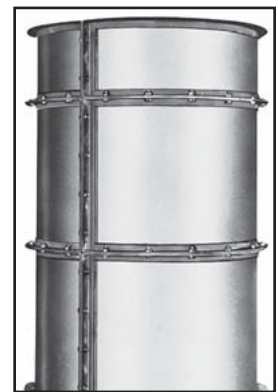
One-piece round column forms are economical, and produce a smooth concrete finish. Manufactured of fiberglass reinforced plastic, these forms will not dent, sag, rot or weather and require little or any maintenance. Round Column Forms are lightweight, easy to handle, and simple to set up and remove. RCF forms have only one vertical seam and are supplied complete with bracing collars and “fast” bolts. Round Column Forms are designed for repeat use. RCFs are available on a sale or rental basis with diameters from 12 to 48 inches; available in one-piece lengths up to 20 feet.



20-FORMING
ACCESSORIES

STEEL ROUND COLUMN FORMS

Heavy Duty Steel Column forms develop an exceptionally smooth, hard surface free of voids and with a minimum number of indistinct seams. All forms are galvanized constant radius steel half round sections and quarter round sections (for forms over 48” in diameter) bolted into units for crane handling on the job site. Each component is framed with flange angles diecut and punched for accurate flush butt joints without protrusion on the contact surface. Vertical and horizontal seams, opened and closed with each pour, are connected with high speed bolts to speed setting and stripping. All standard column diameters from 12” to 84” in 8’0, 4’0, and 1’0 lengths are available on a sale or rental basis.



ATLAS LINED TUBE

- Provides architectural concrete for all round columns.
- Gives a glassy smooth concrete finish.
- Can be left in place for full curing and protection until the job is finished.
- Eliminates the need for water and sand blasting in most cases.
- Forms up to 24” diameter will have one vertical seam; over 24” will have 2 seams.

Atlas Lined Tube is designed to hold full hydrostatic pressure of concrete in a single pour. Forms can be stripped any time after two days, or left on to protect columns from spills and other hazards of construction until the job is finished.

Atlas Lined Tube combines the ease of handling, strength, and economics of one-piece paper tube column forms, with a poly liner that gives a smooth finish to the concrete, a finish that is sure to please the architect and owner.

Atlas Lined Tubes are made to order and can be delivered within 5 working days. Sizes are from 6 to 48 inches in diameter, and in almost any lengths.



COLUMN FORMING



SONOTUBE FORMS

Sonotube forms are made from multiple layers of high quality fibre, providing a strong, lightweight and easy to handle column form. The spiral wound and laminated Sonotube form is a one-piece unit; there are no assembly costs and the form may be cut to fit any desired length.

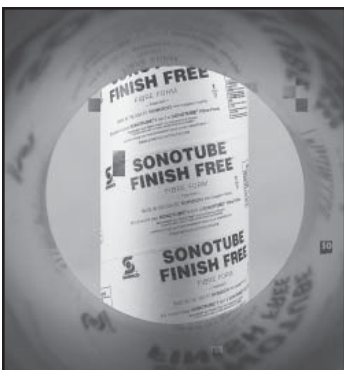
20-FORMING
ACCESSORIES



USES

- Round columns
- Piers and footings
- Pile forms
- Light pole and fence pole bases
- Flagstones and round steps

Inside Diameter	Standard Product Code No.	Standard Wall Thickness	Product Code No. Heavy Weight	Heavy Wall Thickness
4"		0.120		0.145
6"	15.10.10106	0.120	15.10.20106	0.160
8"	15.10.10108	0.120	15.10.20108	0.160
10"	15.10.10110	0.140	15.10.20110	0.190
12"	15.10.10112	0.140	15.10.20112	0.190
14"	15.10.10114	0.165	15.10.20114	0.215
16"	15.10.10116	0.165	15.10.20116	0.250
18"	15.10.10118	0.190	15.10.20118	0.250
20"	15.10.10120	0.190	15.10.20120	0.295
22"	15.10.10122	0.210	15.10.20122	0.295
24"	15.10.10124	0.210	15.10.20124	0.295
26"		0.270		0.295
28"		0.295	15.10.20128	0.365
30"	15.10.10130	0.295	15.10.20130	0.365
32"		0.295		0.365
34"		0.295		0.365
36"	15.10.10136	0.295	15.10.20136	0.365
42"			15.10.20142	0.445
48"			15.10.20148	0.505
60"			15.10.20160	0.600



SONOTUBE FINISH FREE FIBRE FORMS

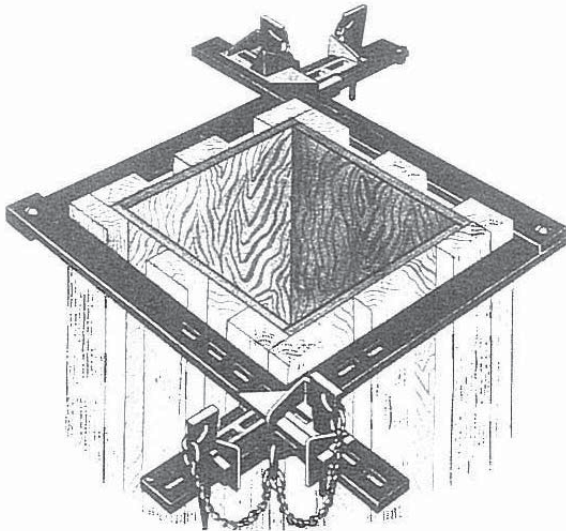
Sonoco Finish Free fibre form is lined with Duraglas coating that provides for a smooth concrete finish when forms are stripped. Duraglas will leave no spiral marks, seams or imperfections that would impact the finished surface of the concrete.

Available in lengths up to 12 feet and interior diameters from 12 to 36 inches. Forms can be cut to length and drilled at the job site to meet specific project requirements.

COLUMN CLAMPS

SCISSOR CLAMPS

- Quickly and easily applied or removed with no tools other than a carpenter’s hammer. Driving home permanently attached wedge pulls clamp tight.
- Bars are made of high strength carbon steel. Brackets are rugged malleable iron.
- Clean-Cut punched slots that provide tolerance adjustment.
- No detachable parts: a rivet prevents the bracket from slipping off. Wedges are chained to the brackets.



- 1) 3/4" plywood with flat 2 x 4s on 6" centers.
- 2) Ten foot rate of pour.
- 3) Pure liquid head of 150 lbs. per square foot of accumulated depth.
- 4) Plywood deflection between clamps limited to L/360 or 1/16".
- 5) Column Clamp safety factor = 2

RECOMMENDED SPACING

CLAMP SIZE	36"			48"			60"			
	SPAN	4"/20"	25"	29"	30"	35"	40"	40"	45"	50"
SPACING OF COLUMN CLAMPS IN INCHES	24					21	17	16	17	16
			30	30	30					
						21	17	18	17	16
	24						11	18	16	14
			24	22	22					
						15	11			10
	24						9	18	11	10
			18	18	18	15	9			
						11	7	12	10	8
	20						7		8	6
					11		12		6	
		12	12	12		6		8	6	
					9	6	9		6	
20						6		8	6	
		12	12	12		9	9		6	
						6		6	6	
6	6	6	6	6	6	6	6	6	6	

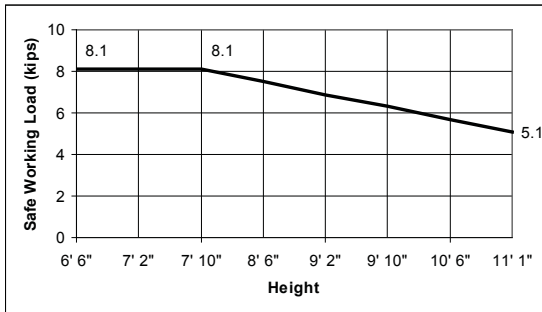
20-FORMING ACCESSORIES

	36"	48"	60"
Clamp Size	36"	48"	60"
Bar Size	5/16" x 2-1/2" x 36"	3/8" x 2-1/2" x 48"	3/8" x 3" x 60"
Clamp Opening	10-1/2" to 28"	14" to 40"	24-1/2" to 50-1/2"
Weight/Clamp *	40 lbs.	56 lbs.	85 lbs.
Column Size **	6" to 23-1/2"	9-1/2" to 35-1/2"	20" to 46"

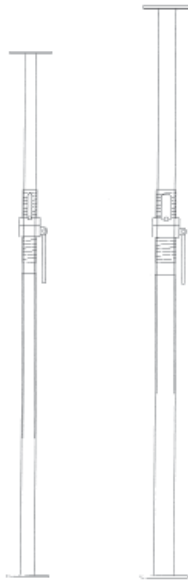
* Clamps are sold and rented by the piece, but two (2) pieces are required to make a useable clamp set.

** Concrete dimensions based on 3/4" plywood with flat 2 x 4's at 6" on center.

ATLAS POST SHORES



Atlas Post Shore Load Capacities
(3:1 safety factor)



The **Atlas Post Shore** is engineered for strength, installation efficiency and long service life. This quality shoring product features high load capacities for shoring heights from **6'6" to 11'1" (8,100 lbs. fully closed to 5,100 lbs. at max extension*)**.

The **Atlas Jumbo Shore** is engineered for maximum strength, installation efficiency and long service life. This quality shoring product features high load capacities for shoring heights from **6'5" to 9'10" (15,000 lbs. fully closed to 13,700 lbs. at max extension*)**.

The **Atlas Jumbo Shore** is fabricated with a secure locking pin that is inserted into one of the holes spaced at 4" intervals along the inner post. Once **Jumbo Shore** is set in position, a threaded collar with handle allows for easy height adjustment over a 6" range. With a high load capacity, the 59 lb. **Jumbo Shore** may be spaced further apart than other post shore systems, therefore reducing material and labor costs.

The Atlas Shores are quickly and safely set in place with 3 simple steps:

1. Lift inner tube to approximate height required.
2. Insert pin in nearest hole to desired height.
3. Turn handle of threaded collar for final adjustment.

- **High Load Capacities at Shoring Heights From 6'5" To 11'1"**
15,000 lbs. fully closed to 13,700 lbs. at max. extension
*(3 To 1 Safety Factor)
- **Extremely High Strength To Weight Ratio**
(35 lb. Post Shore, 59 lb. Jumbo Post Shore)
- **Minimal Time And Labor Needed for Set-Up And Removal**
- **Quick Disconnect/Breakdown System**
- **Galvanized For Durability & Long Service Life**
- **Easy Height Adjustment**
- **Rolled Thread**
- **No Loose Parts**
- **Weatherproof**
- **Head And Base Plates Drilled For Nailing**

Atlas Post Shore	Product Code No. 10.21.02402
Atlas Jumbo Shore	Product Code No. 10.21.02412

350 & 550 POST SHORES



Heavy Duty Post Shores are available in three models providing adjustable shoring heights from 5'7" to 18'4". These Post Shores each carry load ratings up to 10,000 lbs. (3 to 1 safety factor). With this higher load rating, Post Shores can often be spaced further apart, producing equipment and labor savings for the contractor.

Post Shores are quickly and safely set in place. They have a unique locking pin for approximate height adjustment. This pin is inserted into one of the holes spaced at 4" intervals along the length of the post. After the Post Shore is positioned, a threaded collar with a handle permits fine height adjustments over a 6" range.

350 Post Shore	Product Code No. 12.50.45017
550 Post Shore	Product Code No. 12.59.45018

ATLAS AL-SPEED® SAFETY RAIL POST

The Atlas AL-SPEED® Safety Rail Post opens wide and tightens quickly, allowing for easy application to practically any project. The post is easily installed, utilizing a top adjusting wing nut which creates an ability to tighten from a standing position. A newly designed base adds to the simplicity of setup with predrilled holes providing trouble-free fastening to decks. The post can also adjust to any slab size between 0"-29", with the adjustable clamp extending to the full 29", preventing the bottom piece from falling out. A redesigned top with drop pin makes the AL-SPEED® Safety Rail Post simple and efficient to use. The AL-SPEED® Safety Rail Post is also galvanized for durability and designed to withstand the toughest jobsite conditions.

AL-SPEED® Safety Rail Post Advantages

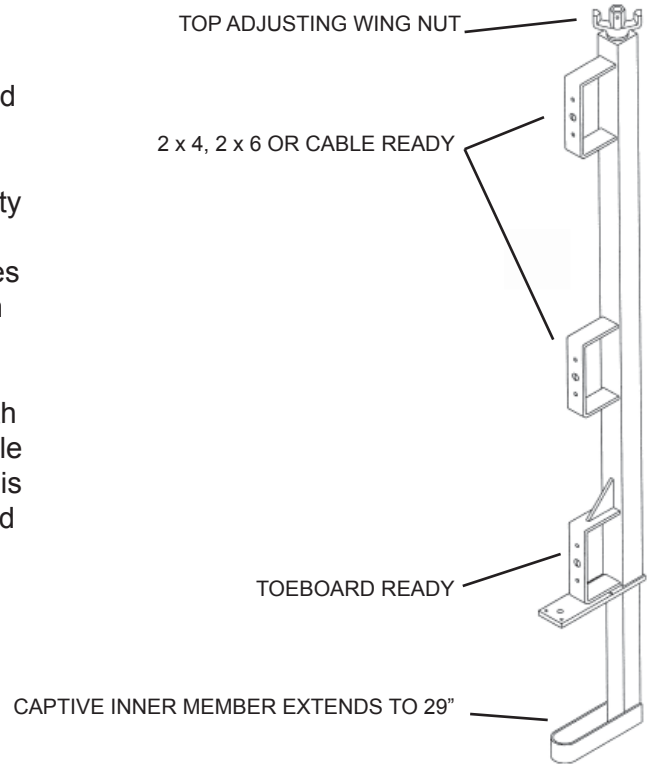
- Galvanized for maximum durability and service life.
- Easily adjustable clamp secures to slab sizes between 0"-29".
- Predrilled holes at base provide for easy screwing to concrete slabs.
- Top adjusting wing nut allows for tightening from a standing position.
- Easy to maintain and transport from job to job.

Atlas AL-SPEED® Safety Rail Post Extension attaches to the Atlas AL-SPEED® Safety Rail Post and allows contractors to meet OSHA requirements of a 42" tall safety barrier after concrete is poured when standing on top of the finished concrete slab.

AL-SPEED Safety Guard Rail Post
Product Code No. 20.10.10100
AL-SPEED Safety Guard Rail Post Extension
Product Code No. 20.10.10110



SAFETY RAIL POST



20-FORMING
ACCESSORIES



FORMING COMPONENTS

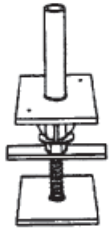
COLUMN MOUNTED JACK



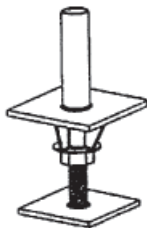
The Column Mounted Jack offers a 60 kip capacity adjusting element. The jack supports column mounted tables and is an integral part of the column hung deck system. Ideal uses include supporting steel "I" beams and flying tables.

40k Column Mounted Jack Product Code No.	10.30.30400
60k Column Mounted Jack Product Code No.	10.30.30600

ATLAS RESHORE JACK



Light Duty

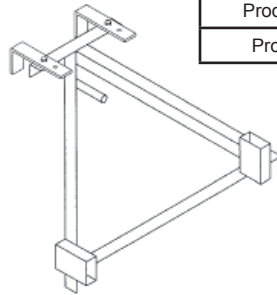
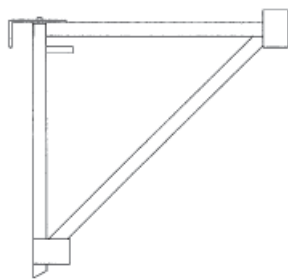


Heavy Duty

Both light and heavy duty jacks offer a high capacity adjusting element to be utilized in conjunction with either 6" x 6" or 8" x 8" wood members (not included). Ideal uses include reshoring of structural steel "I" beams or reshoring concrete slabs supporting flying shoring tables.

Product Code Standard	12.51.46681
Product Code Heavy Duty	12.51.46941

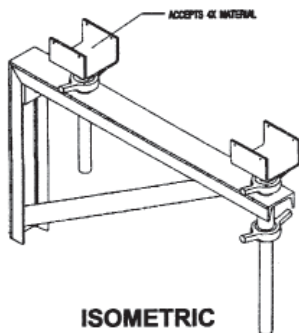
ATLAS WALER JACK



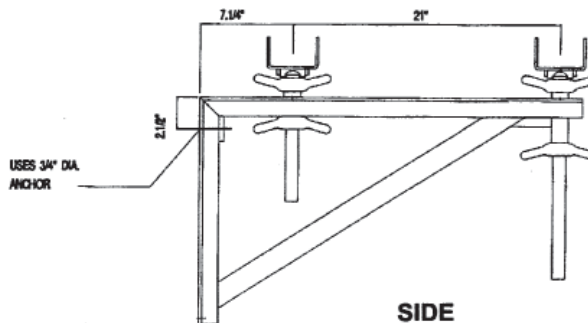
Product Code Standard	20.20.21000
Product Code Deluxe	20.20.21100

ATLAS BRIDGE OVERHANG BRACKET AVAILABLE IN 30" AND 42"

Product Code 28"	20.10.21028
Product Code 42"	20.10.21042



ISOMETRIC



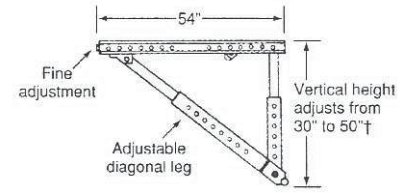
SIDE

BRIDGE OVERHANG BRACKET

C-49

Product Code No.	Wt. Lbs.
20.10.21554	45.0 Ea.

Designed for use on prestressed concrete beams and medium depth steel beams. Aids in preventing web of beam from bending during construction of bridge deck. Design allows Bracket to be used on prestressed concrete beams without requiring wood blocking. Accepts C-51 Wall Plate Assembly
 † Under special conditions, Bracket can be adjusted to a minimum vertical height of 14".



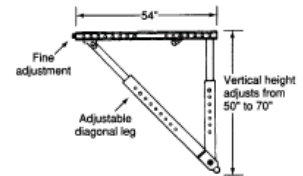
WARNING: Refer to the information published in our Formwork Accessory Handbook before using this product.

BRIDGE OVERHANG BRACKET Special Order

C-49-D

Product Code No.	Wt. Lbs.
	50.0 Ea.

Designed for use on deep steel plate girder beams. Aids in preventing web of beam from bending during construction of bridge deck. Accepts C-51 Wall Plate Assembly
 Note: C-49-D is shipped unassembled



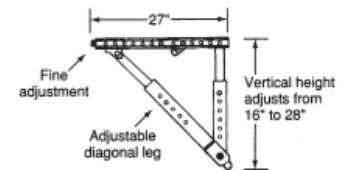
WARNING: Refer to the information published in our Formwork Accessory Handbook before using this product.

BRIDGE OVERHANG BRACKET Special Order

C-49-JR

Product Code No.	Wt. Lbs.
	35.0 Ea.

Designed for use on prestressed concrete beams and medium depth steel beams. Short chord length allows brackets to be used where full sized brackets can not be utilized. Design allows Bracket to be used on prestressed concrete beams without requiring wood blocking. Accepts C-51 Wall Plate Assembly



WARNING: Refer to the information published in our Formwork Accessory Handbook before using this product.

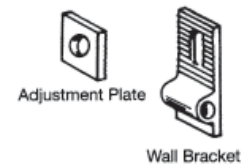
WALL PLATE ASSEMBLY

C-51

FOR ADJUSTABLE BRIDGE OVERHANG BRACKET
 FOR USE WITH 3/4" DIAMETER BOLT

Special Order

Type	Product Code No.	Wt. Lbs.
Assembly		1.75 Ea.
Adjustment Plate Only		.40 Ea.
Wall Bracket Only		1.35 Ea.



WARNING: Refer to the information published in our Formwork Accessory Handbook before using this product.

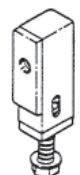
ADJUSTABLE INSERT ADAPTER

C-51-R

FOR ADJUSTABLE BRIDGE OVERHANG BRACKET

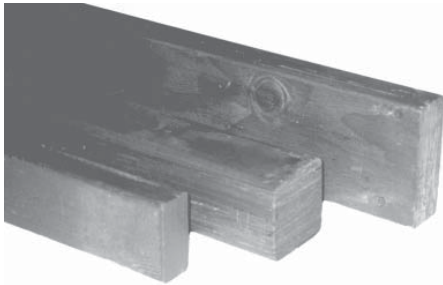
Special Order

Product Code No.	Wt. Lbs.
	1.75 Ea.

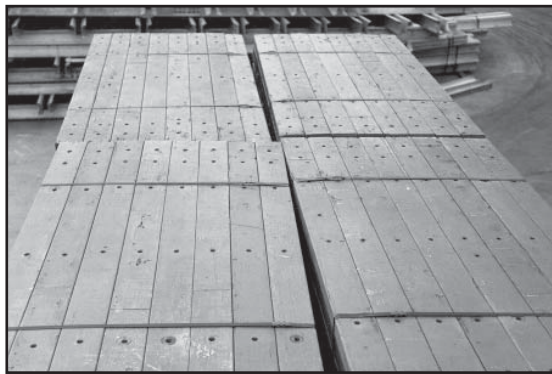


WARNING: Refer to the information published in our Formwork Accessory Handbook before using this product.

ENGINEERED LUMBER

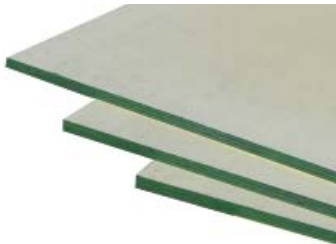


Atlas Laminated Veneer Lumber (LVL) beam is an engineered wood fiber that promotes innovative designs, efficiencies and cost savings when used in our Atlas wall forms, deck forms, beam forms, column forms and other concrete forming applications. Atlas LVL beam is a durable and reusable forming element that is manufactured to resist bowing, shrinking and twisting; results in uniform, predictable and true line performance.



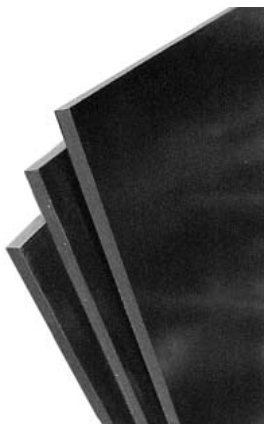
Atlas designs and engineers the LVL Beam in-house to accommodate multiple forming applications. This achieved flexibility provides easy form construction and saves considerable time. The strength and stiffness provided in the LVL Beam minimize the amount of labor needed for constructing and utilizing the forms.

FORMING PLYWOOD



HDO CONCRETE FORM PANEL

HDO 100/30 is designed to provide multiple reuses and produce excellent concrete finishes at a lower per pour cost than other HDO forming panels. HDO 100/30 concrete form panels are made of high quality, exterior grade plywood with an high resin content face overlay for extra durability and smoothness.



PSF CONCRETE FORM PANEL

PSF (Phenolic Surface Film) plywood offers concrete contractors significant advantages over other types of forming panels:

- Superior concrete finish: smooth, hard, clean and consistent.
- High durability for maximum # of reuses.
- Excellent strength and stiffness.
- Higher labor efficiency.
- Phenolic overlay pour surface on both sides of panel.
- Edge sealed.
- Attractive contact foot material costing.

CHAMFER/FORMER STRIPS

WOOD CHAMFER

Length	Product Code No.
1/2" Pine	20.27.10050
5/8" Pine	20.27.10060
3/4" Pine	20.27.10075
1" Pine	20.27.10100
1-1/16" Pine	20.27.10107
1-1/2" Pine	20.27.10150

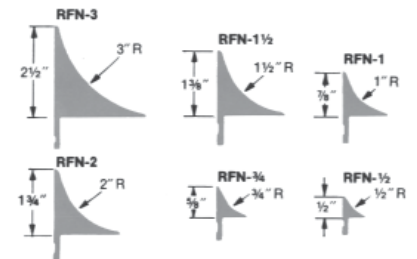


20-FORMING
ACCESSORIES

RADIUS FORMERS

Made from a specially designed plastic material that provides a smooth, uninterrupted, rounded radius corner to poured concrete. The material strips cleanly from finished concrete and is easily removed from forms for reuse.

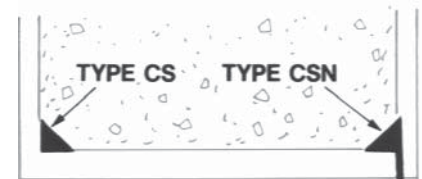
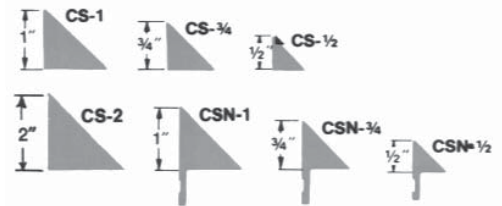
Length	Product Code No.
1/2" Plastic Radius with Tail	20.27.22100
3/4" Plastic Radius with Tail	20.27.22075



CHAMFER STRIPS

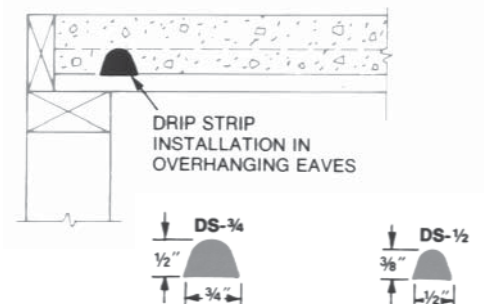
Provides a smooth, uninterrupted beveled edge to piers, beams, and all outside corners of poured concrete. They are easily applied, equipped with or without nailing flange to facilitate installation, and reusable for maximum economy.

Length	Product Code No.
1/2" All Plastic	20.27.20050
5/8" All Plastic	20.27.20060
3/4" All Plastic	20.27.20075
1" All Plastic	20.27.20100
1-1/16" All Plastic	20.27.20107



DRIP STRIPS

Provides a smooth uniform drip groove on the underside of roof overhangs and porches. The material is nailed to the form and is easily removed from the concrete. It also can be reused several times.



FORMLINERS

20-FORMING
ACCESSORIES



Atlas offers the widest selection of architectural concrete formliners in the industry. Over 500 patterns and textures allow for design versatility; with custom sizes and patterns also available for specific job requirements. Contact your Atlas representative for information on patterns & sizes. A complete catalog is available with detailed information on each formliner.

Formliners are available in the following different materials depending on the specific application and the number of reuses required.

SPS Plastic - A single use plastic form liner designed for limited application. Made from a polystyrene plastic, the initial square foot price is much less than other types of formliner material. This proves very economical when only one use is needed.

ABS Plastic - Thermoformed in ABS plastic, these formliners exhibit good impact resistance and excellent overall performance. Reuse factor is 10, subject to pattern configuration, proper handling and jobsite conditions.

Dura-Tex - An economical polyurethane elastomer formliner that possesses many of the qualities of premium elastomeric, but with slightly less durability. Pattern reproduction is excellent and the reuse factor is 40, subject to pattern configuration, proper handling and jobsite conditions.

Elasto-Tex - A premium polyurethane elastomer formliner that exhibits exceptional durability and tear strength. It is flexible enough to allow stripping from slight undercuts or complex designs and resilient enough to maintain pattern details. Reuse factor is 100, subject to pattern configuration, proper handling and jobsite conditions.

Packaging

Formliners are generally available in standard 4' x 10' sheets. Custom sizes and patterns are available upon request.



FORMLINERS

Formliner Patterns

Hundreds of different sizes, shapes & textures are available in the following typical patterns:

- Fractured (Fin, Rib, Flute)
- Wood
- Brick
- Block
- Stone
- Smooth Flute
- Custom patterns also available!

Features of Formliners

- Nearly all patterns are available in 4 types of materials, ranging from single-use to 100 uses!
- Hundreds of typical patterns to choose from.
- Custom patterns also available.
- Typical patterns provided in 4' x 10' sheets.
- Consistent results.
- Easy installation.
- Easy to strip when Atlas Release or Bio-Guard is used as the form release agent.
- Knowledgeable technical support.

Formliner Accessories

Form Release Agent - **Atlas Release** is an ideal form release agent for any of the Dayton Superior formliners. **Atlas Bio-Guard** water-based release agent has also produced excellent results on polyurethane formliners.

Rustication & Chamfer Strips - Create distinct features and bold reveals with easy to attach rustication & chamfer strips. These reusable strips provide sharp features to enhance the appearance of exposed concrete. Just nail to the form; also prevents leakage.



20-FORMING
ACCESSORIES



Spec Formliners, Inc.
Impressive on Concrete

