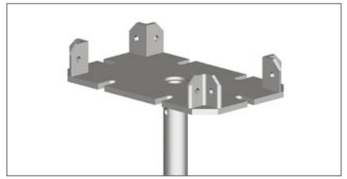
Twist Lock Accessories

Twist Lock Head

Locks beams into place atop post shores. Positive fix to post shore.



Bypass Head

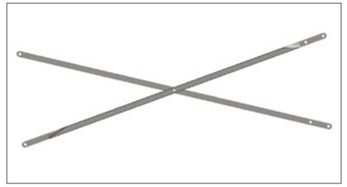
Used as an attachment to support two beams as stringers. Two beams can be supported side-by-side allowing for a continuous stringer line.

Tripod

Provides stability to post shores. Easily collapses for transport and storage.

Aluma 'A' Clamp Assembly

Fastens Aluma Beams® to stringers, trusses, strongbacks, or other beams or stringers.



Cross Brace

Available in 4'x2' (1.2 x 0.6m), 5'x2' (1.5 x 0.6m), 6'x2' (1.8 x 0.6m), 7'x2' (2.1 x 0.6m), 8'x2' (2.4 x 0.6m) and 10' x 2' (3 x 0.6m) sizes.

Bracing Frame

Provides proper spacing and bracing of post shores. Also acts as guardrail at slab edge.

Load Capacity for Shoring Applications

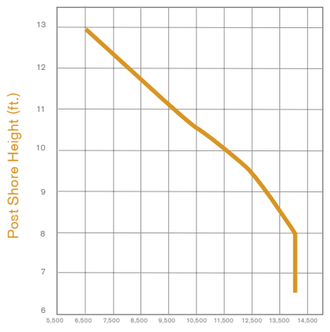
The Aluma Systems Heavy Duty Post Shore provides a higher load capacity than most standard North American post shores. Our post shore is engineered to deliver the required level of support for most shoring applications.

Note: Allowable working loads may vary depending on required safety factors in accordance with local regulations.

This information is subject to change. It is intended to be used by technically skilled designers, knowledgeable in the field, and is to be used with other data.

Imperial

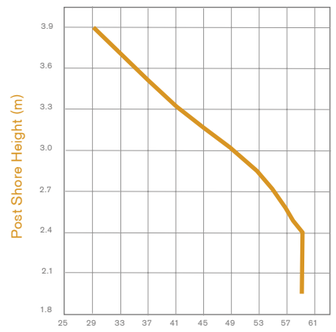
Based on a 3:1 factor of safety



Note: For post shore heights greater than 11 ft., the 2 ft. extension must be used.

Metric

Based on a 3:1 factor of safety



Note: For post shore heights greater than 3.3 m, the 0.6 m extension must be used.

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Aluma Systems

Twist Lock
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Aluma Systems
Concrete Construction

Aluma Twist Lock: Continuing Innovation from Aluma Systems

Introduction

The Aluma Twist Lock is a safe, high capacity, easy-to-use beam-and-prop system that's well suited for flat-plate projects allowing long runs without drops, as well as many projects having slab, beam and drop conditions. Comprised of our revolutionary Aluma Beam® and the more recently introduced Heavy Duty Post Shore, the system is engineered to substantially reduce contractor's cycle times as well as costs for labor and equipment rental.

- The Aluma Beam®- Combines lightweight aluminum construction with exceptional strength. When introduced in 1972, it produced labor savings of up to 50% and set new performance standards throughout the concrete construction industry. Often copied but never replicated, the Aluma Beam® continues to lead the competition in performance, safety, efficiency and durability.
- The Heavy Duty Post Shore – Provides almost twice the load capacity of most standard post shores available in North America.

* **Note:** Equipment shown is for demonstration purposes only

Safe

- Engineered by our experienced, safety-award-winning team.
- Greater spacing between post shores creates safer 'trip-free' work areas.
- Tripod and Brace Frames hold Heavy Duty Post Shore securely in place during the forming process.

Smart

- The Twist Lock system is adaptable to a wide range of job requirements and is compatible with Aluma's other proven shoring systems.
- Heavy Duty Post Shore's captive design means less maintenance, loss and damage.
- Aluma Beam's® recycled, heavy-duty plastic nailer strip lasts four times longer than wood.

Efficient

- The system's higher capacity means less equipment and greater cost savings.
- Galvanized Tripods and Bracing frame make the erection process faster and easier.

Simplicity Meets Functionality

With the Aluma Twist Lock system, forming a typical flat deck becomes simple and a less labor-intensive job:

- Each efficiently designed component can be placed by a single worker.
- Using the Aluma Bypass Head, Aluma Beams® can bypass each other when used as a stringer.
- Installing the Aluma Heavy Duty Post Shore along the stringer is fast and easy with the Aluma Twist Lock Head.

Higher Post-Shore Capacity = Less Equipment

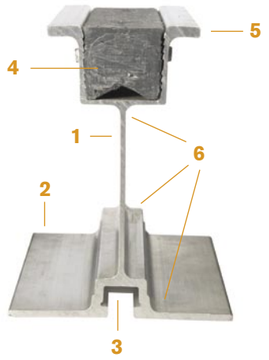
Tight conditions are no problem with the Aluma Twist Lock system. The Heavy Duty Post Shore's capacity of 14,000 lbs. (62 kN) at 8 ft. (2.43 m) means contractors need half as many as regular post shores to get the job done. This reduces erection time, saves on equipment pieces and transportation costs, and allows more space between the posts. Sub-contractors gain earlier access to work areas, further improving cycle times.

Competitive Advantage

Compared to other beam & post systems available in the North American market, the Aluma Twist Lock can reduce labor and material costs and speed the construction process due to it's lighter weight and greater spacing.

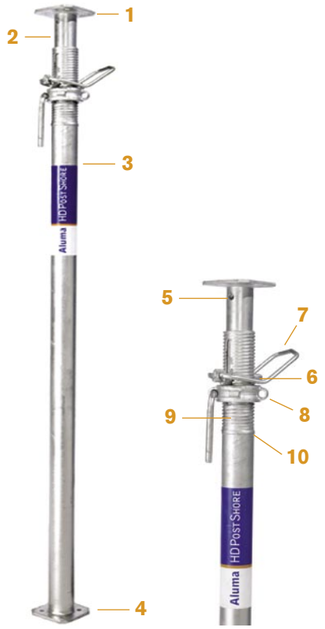
Aluma Beam®: The Original

- Strong, long-lasting, lightweight aluminum alloy.
- Greater strength-to-weight ratio than steel or wood.
- Versatile and compatible with most other concrete construction systems available in North America.
- Recycled, heavy-duty plastic nailer strip lasts four times longer than wood.
- A full range of lengths, from 9 to 21 ft. (2.75 to 6.41 m). Non-standard lengths and other types of beams, such as guard rails and stringers, also available on special order.



1. Short web provides higher resistance to buckling and reduces need for blocking.
2. Concave base resists upward bending of flange which would result in "tipping". Also provides a visual check that beam is securely clamped.
3. Accepts standard 1/2 in. diameter bolt with square, hex, or special Aluma 'T' head.
4. Uses nominal plastic 2 x 2 in. nailing strip (secured with screws for easy removal and replacement).
5. Heavy top flange for increased strength and reduced damage.
6. Generous radii of metal lets stresses "flow", reducing stress concentrations at corners.

Heavy Duty Post Shore: More Support, Less Equipment



- Cost effective, durable, and easy to use.
- High-strength construction: Hot-dipped galvanized steel is more durable and corrosion-resistant than pre-galvanized steel or painted post.
- Lightweight: At 53 lbs. (24 kg), the Heavy Duty Post Shore can be easily placed and removed by a single worker.
- Captive design: All components are interlocked, so there's less maintenance.
- Outer tube reinforced at base means greater resistance to damage.
- Drift Pin engineered for ease and speedy lowering of the prop by 3/8 in. (9.5mm).
- L-shaped handle allows easier fine adjustment.
- Integrated pin retainer.

1. Top plate
2. Captive Inner extension tube designed for minimal damage.
3. Outer tube is reinforced at its base for greater resistance to damage.
4. Base plate
5. 4 in. (101.6 mm) Coarse adjustment
6. Drift pin for secure lock and easy removal
7. Drift pin retainer. Captive design eliminates loss or damage to pin.
8. Cast nut with handle. L-shaped handle provides easier fine adjustment.
9. Threaded tube for fine adjustment.
10. Weld joint