

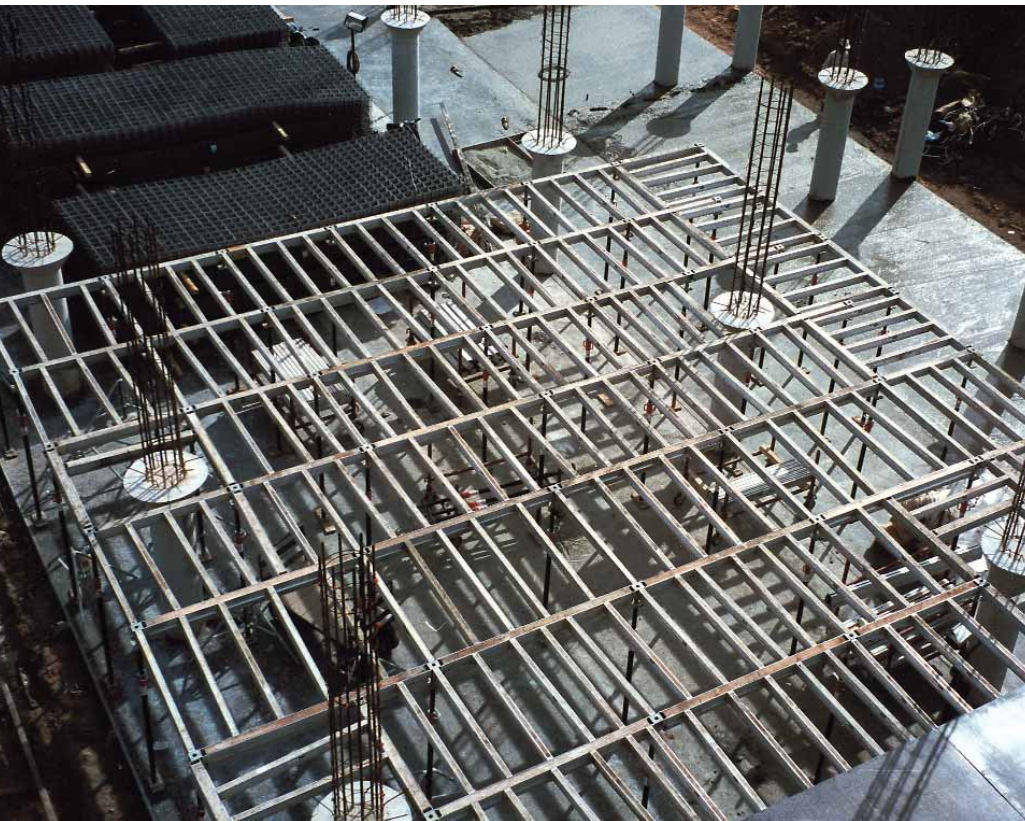
The Titan HV Shoring System



**Equipping Builders
to Succeed**

TITAN

The Titan HV Advantage



Left: Flat Slab, Right Top to Bottom: Complicated Areas, Pan/Dome Slabs, Drop Panels

The Titan HV Labor Advantage

- TITAN HV requires only two workers to install.
- TITAN HV performs up to 45% better than standard 20K Shoring.*
- TITAN HV's lightweight aluminum framing members are easier and faster to install.
- TITAN HV's efficient 6' x 6' (1.8m x 1.8m) shore layout reduces the number of Post Shores required.
- TITAN HV's interlocking members eliminate cutting or lapping.
- TITAN HV eliminates costly make-up.
- TITAN HV's "Barella" carts simplify horizontal movement activities.
- TITAN HV has fewer components (less pieces to handle, install, strip and manage).

** Based on customer testimonials and survey results from a leading Formwork Subcontractor.*

The Titan HV Crane Advantage

- TITAN HV typically eliminates crane assistance for erection, stripping and horizontal movement activities.
- TITAN HV's "Barella" carts simplify rigging.

The Titan HV Cycling Advantage

- TITAN HV's quick-release Drophead typically allows for removal of framing members one to two days after the pour.
- TITAN HV cycles with less framing equipment.
- TITAN HV's Drophead simplifies the stripping process.

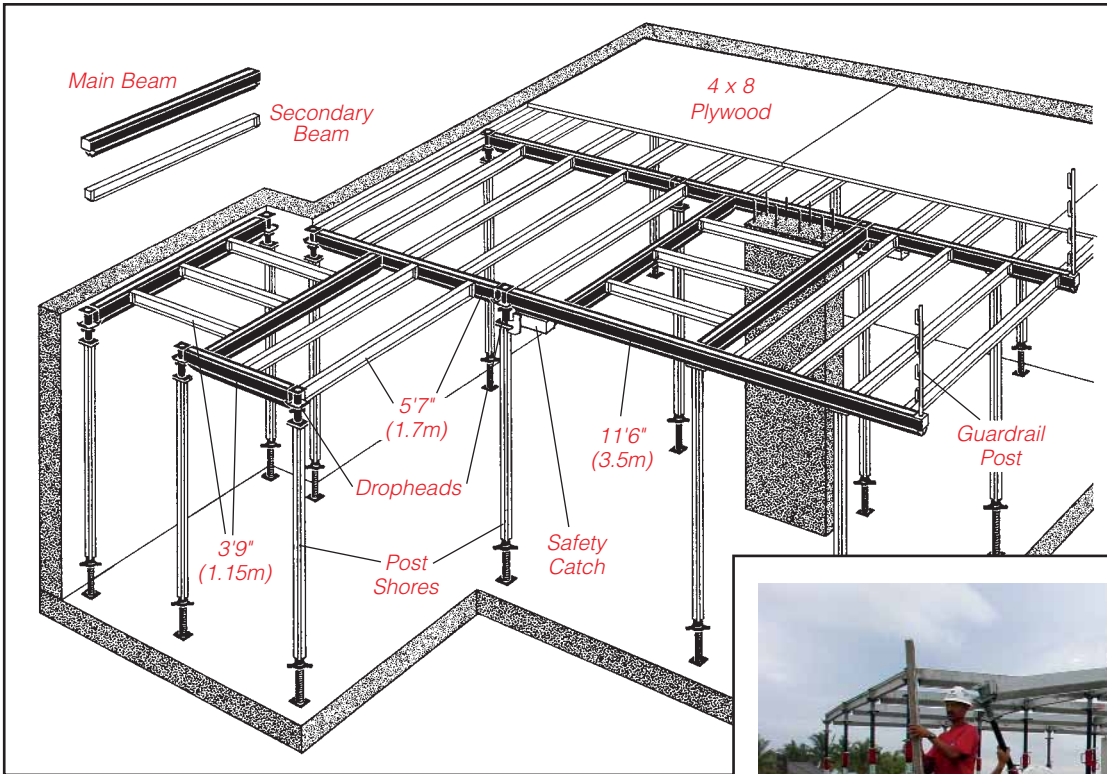
The Titan HV Safety Advantage

- TITAN HV is installed from the ground, eliminating fall hazards.
- Lightweight framing members help prevent "lifting" related injuries.
- "Drop-in" style guardrail posts ensure quick and secure fall restraint.
- TITAN HV's Drophead eliminates falling materials typically associated with stripping operations.

The Titan HV Support Advantage

- Comprehensive layout drawings completed by experienced TITAN HV technicians.
- Expert field training to ensure a successful TITAN HV experience.
- Comprehensive DVD Training Program Available.

Safe Titan HV Erection



Typical 2-Man Installation

A crew of just two men working from the ground can easily erect several thousand square feet of framing per day. This ground based approach eliminates fall hazards normally associated with framing erection.

Erection Process

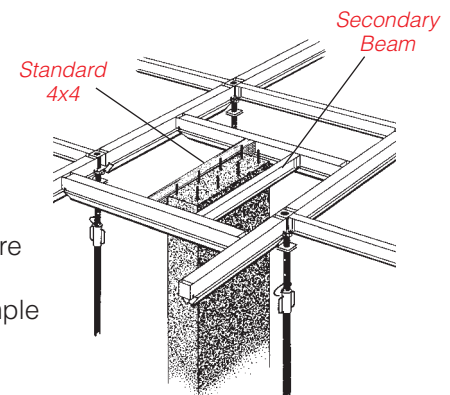
- Secure the first few Post Shores with tripods to establish a "box."
- Position a Main Beam in the Drophead.
- Pickup the opposite end of the Main Beam with a Post Shore and raise into position.
- Once a series of Main Beams are erected, begin installing the Secondary Beams.
- Once sufficient framing is erected, plywood and bracing are installed to achieve a "pour-ready" system.

Perimeter Installation



Framing Interruptions

- Framing interruptions (i.e. columns, walls, beams, drop panels, etc.) can be achieved simply by changing the direction of the Main and Secondary Beams. This eliminates the need for multiple length members.
- Filler conditions are typically accommodated with the standard length aluminum members. However, TITAN HV's specially designed Main Beam allows for 4x4's to be substituted for Secondary Beams.
- Slopes and Camber are easily accommodated due to TITAN HV's simple span system.



Safe Titan HV Stripping



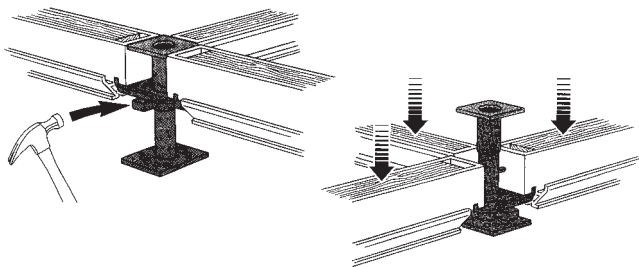
Drophead Released



Framing Members Removed

TITAN HV is designed to allow the early removal of form facing material without loosening or disturbing shores in accordance with ACI Recommendations*. This process is enabled by a unique, quick-release Drophead. Aluminum framing members can typically be removed just one or two days after the pour. In addition, up to $\frac{2}{3}$ of the plywood can be recovered early and reused. This early removal feature yields significant cost savings in equipment and plywood costs.

**See ACI: Part 3, Section 301, Paragraph 2.3.2.5*



Stripping Process

- Release the Drophead with a hammer stroke.
- Begin taking down the Secondary Beams and stacking them in the Barellas (carts).
- Recover the Main Beams and stack them in the Barellas.
- The unrestrained plywood can now be stripped and reused.
- Roll the Barellas to a new work area and begin the erection process with an additional set of Post Shores.
- Post Shores, and all remaining plywood, can be recovered only after a stripping release is obtained.

Easy Titan HV Material Movement

TITAN HV is easily erected from and stripped to the "Barella" carts, allowing for efficient handling and horizontal movement of the equipment without the use of a crane. This process also eliminates the potential for the equipment to hit the ground, avoiding costly damage, loss and double handling of the equipment.

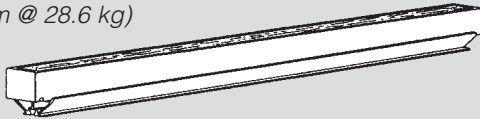


The Titan HV Shoring System

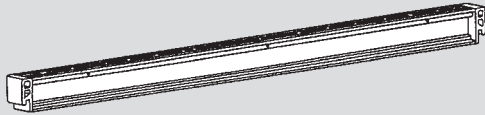
Titan HV Main and Secondary Beam Components

- Lightweight aluminum members.
- Designed for easy, safe and fast handling.
- Timber nailers included in all members.
- Exceptionally durable.

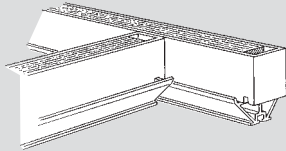
- Standard Main Beam: 5' 7" @ 30.4 lbs. (1.7 m @ 13.8 kg)
- Fillers: 3'9" @ 20 lbs (1.15 m @ 9.4 kg)
- Cantilevers: 11'6" @ 63 lbs. (3.5 m @ 28.6 kg)



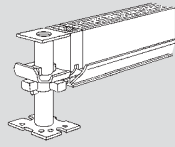
- Standard Secondary Beam: 5' 7" @ 14 lbs. (1.7 m @ 6.2 kg)
- Fillers: 3'9" @ 7.8 lbs. (1.15 m @ 3.5 kg)



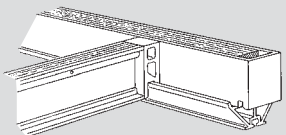
Titan HV Connections



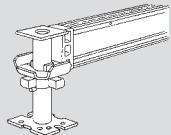
Main to Main Beam



Main to Drophead



Secondary to Main Beam



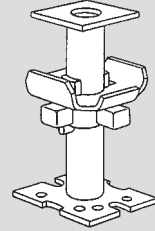
Secondary to Drophead

Titan HV Shores

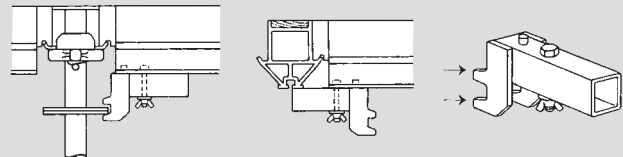
- Durable, telescoping steel shores
- Supports slabs in excess of 12" (300 mm)
- Height Range: 7'0" – 18'10" (2.15 m – 5.75 m)

Titan HV Drophead Component

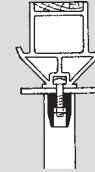
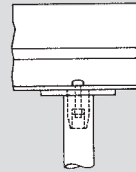
- Hot-dip galvanized.
- Attaches to Post Shores with 2 bolts.
- Includes quick-release disc wedge.
- Allows stripping in tight quarters.



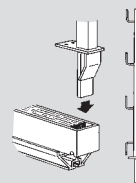
Titan HV Accessories



Safety Catch
(Typically required at cantilevered conditions.)



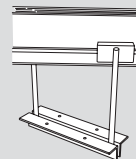
Positioner
(Typically required at cantilevered conditions.)



Extended Guardrail Post
(5'0" / 1.52 m)



Wedge Clamp



T-Hanger



Titan HV Balanced Load

TITAN HV PROJECTS IN CITIES COAST TO COAST



Equipping Builders to Succeed



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