

HV Support System



F FORMTECH
concrete forms, inc.

 **Concrete Support Systems**

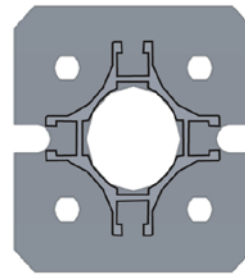
HV Support System

The HV Support System is compatible with all CSS Support Systems:

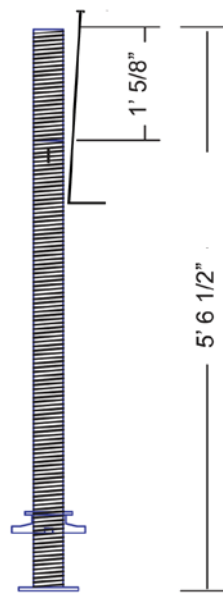
- Aluminum 225 Stringer Beam
- Twin Beam Support System
- Drop Deck Support Systems
- Deck Panel Support System
- Forkhead Support System

The HV Support System was designed and engineered for use with multiple shoring systems to increase utilization and help simplify equipment needs. This aluminum profile allows this leg to be used as a prop with screw jack or extension leg to be used on standard to more intense jobsites depending on the shoring selected.

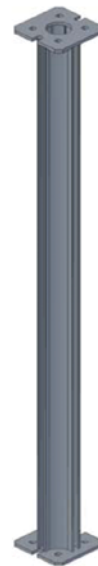
Leg Profile with Endplate



HV Jack



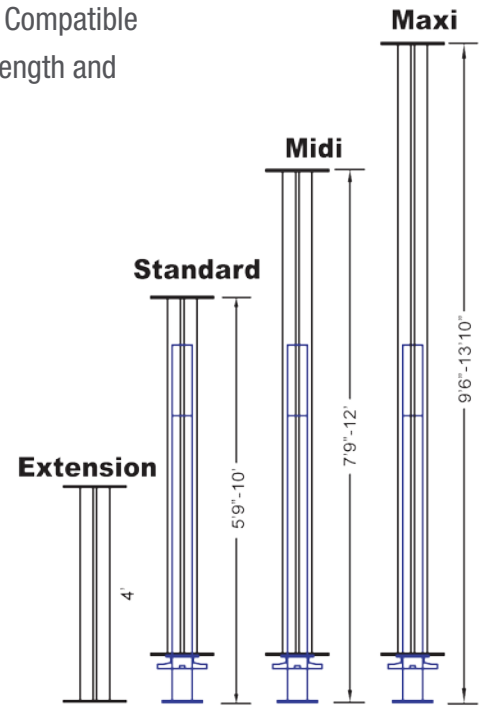
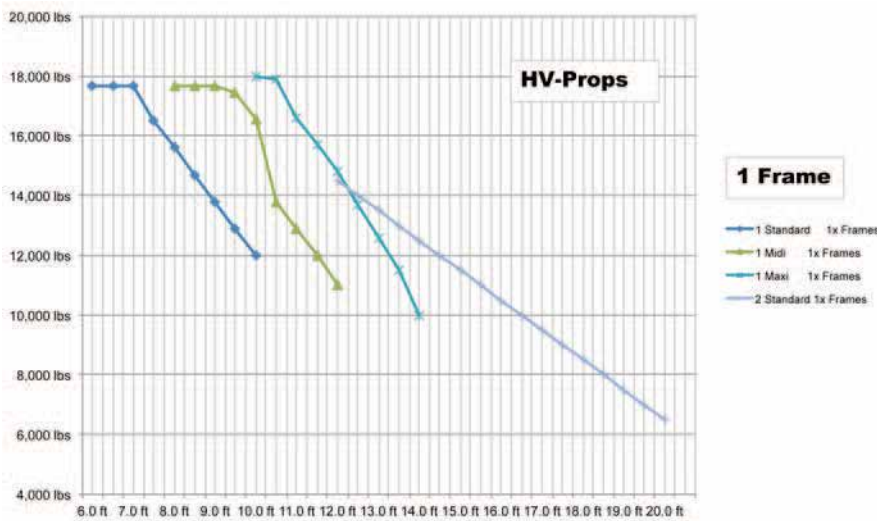
HV Leg Extension



HV Support System

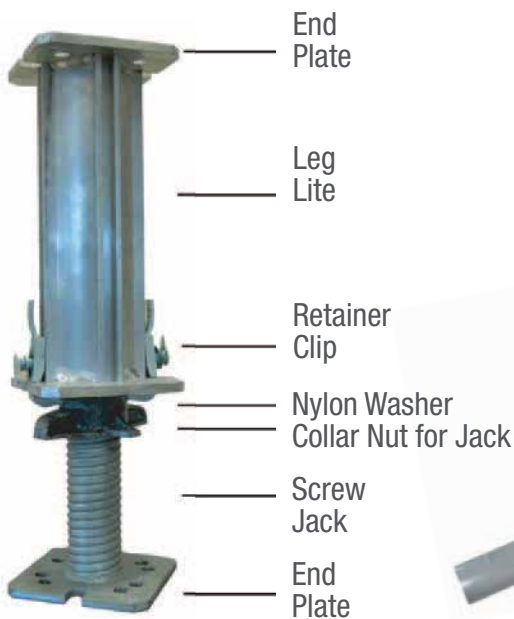
The HV Support System is the only system you will need on standard jobsites. Compatible with all CSS shoring systems, the HV Support System demonstrates added strength and ease due to its additional endplate. There is no right side up or down.

All leg sizes have a permissible load of 15,000 lbs. as a single post. With the addition of ledger frames the legs are capable of safely supporting up to 18,000 lbs. each.



Retainer Claw

The Retainer Claw or Clip is used at the endplate of the leg prop or extension legs to retain the screw jack. The retainer claw or clip is required when flying tables.

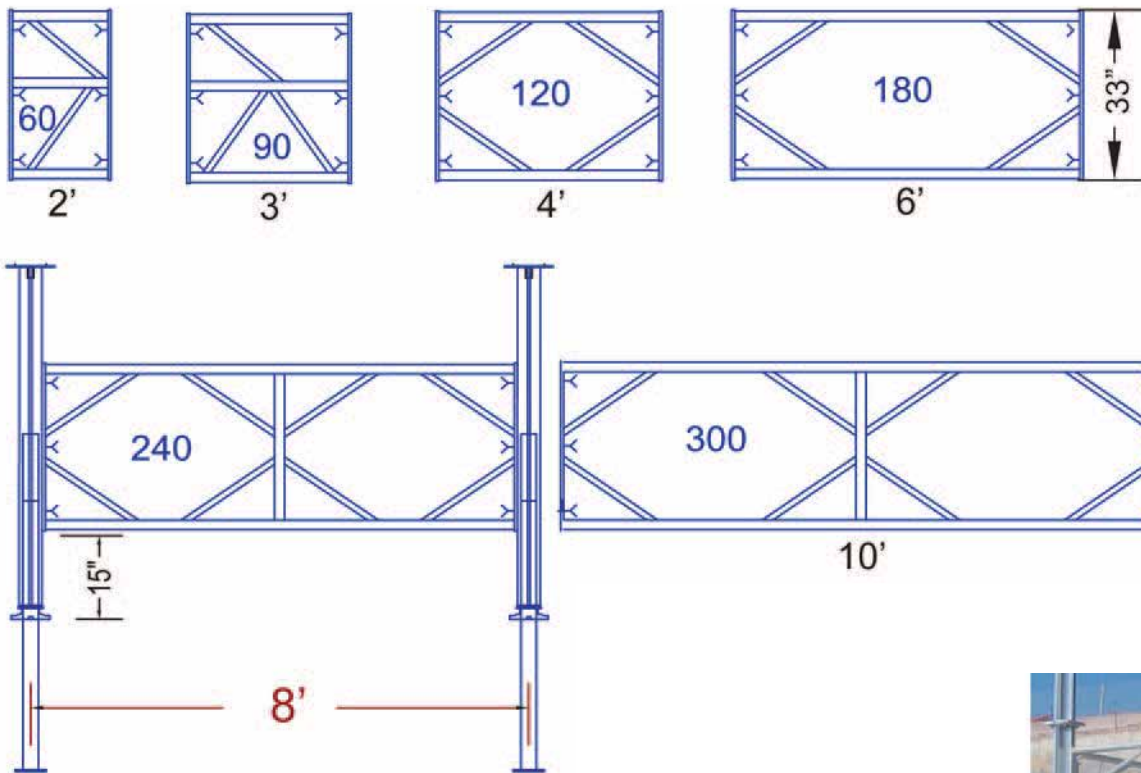


The Screw Jacks can be fitted on top or bottom of the leg for vertical adjustment. The spanner loosens the wing nut for stripping or to adjust height of the leg or table.

Ledger Frames

Ledger frames are the best bracing system for full leg support. The ledger frame is connected to the leg at three points with a spring loaded wing nut and t-bolt. Pushing the wing nut into the leg and turning 90 degrees, will allow the wing nut to be tightened. This three point frame connection is important to distribute the lateral load.

Ledger Frames: The ledger frame length is measured from leg center to leg center



Frame Connection



CSS uses a set spacing when connecting the frames to the leg. Directly on the leg is a mark, so no measurement is needed. Having this predetermined spacing for assembling shoring tables and towers, eliminates uncertainty of placement and eases training. When attaching the frame to the leg, the frame will be 15" above the lower endplate.



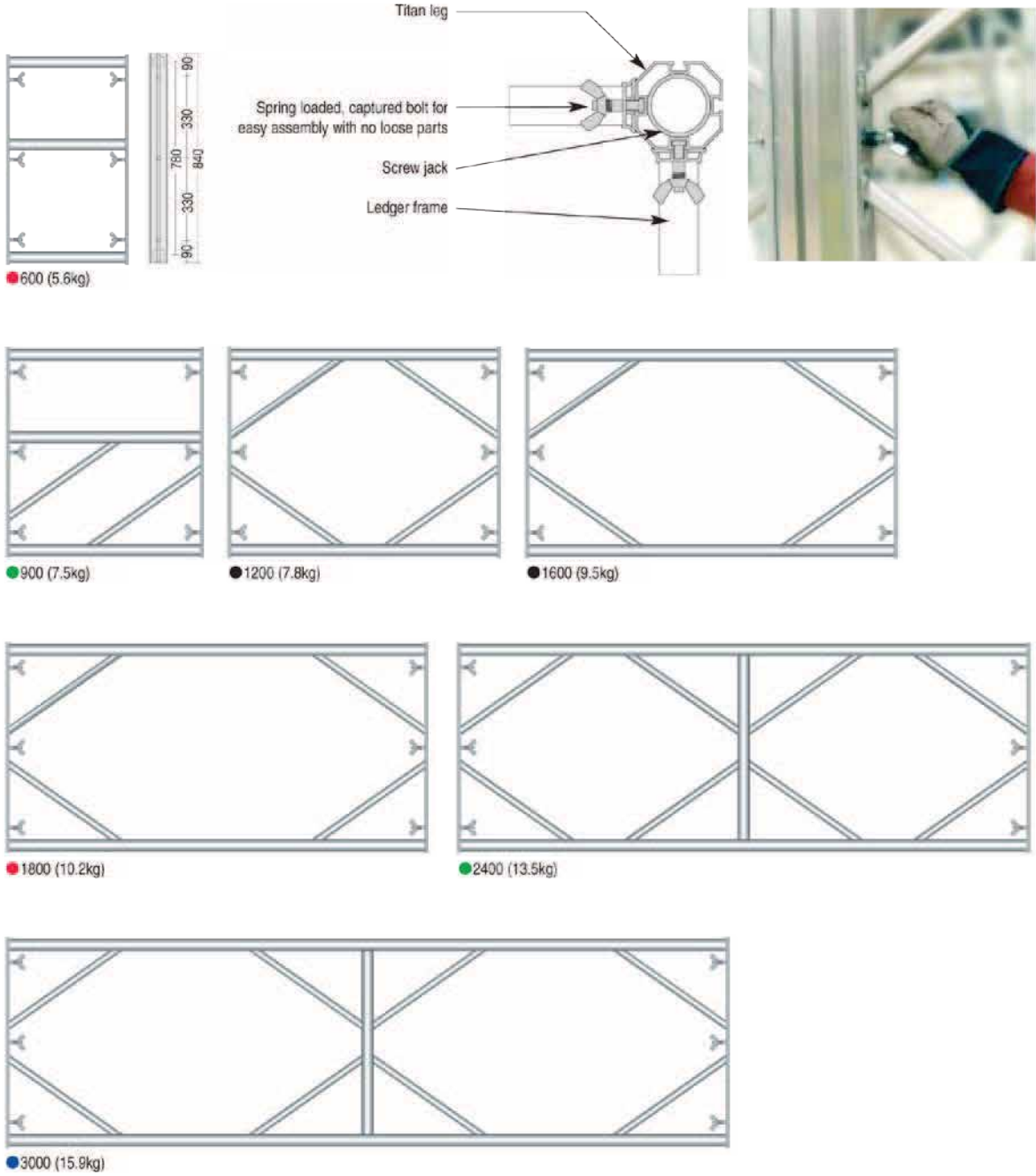
Use two connection brackets when connecting two legs at the end plates. This connection will insure full compression strength through the legs..



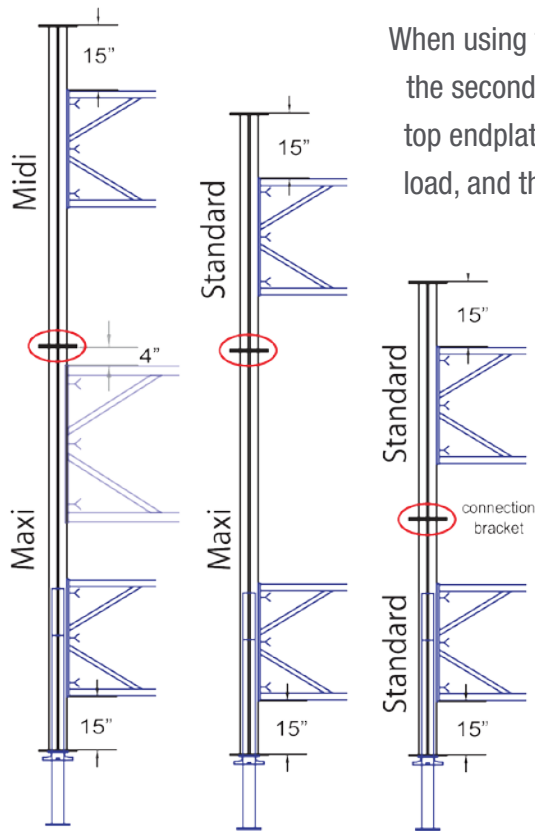
Ledger Frames

A range of seven ledger frames is available. All frames are shown colour coded in Concrete Support System design drawings.

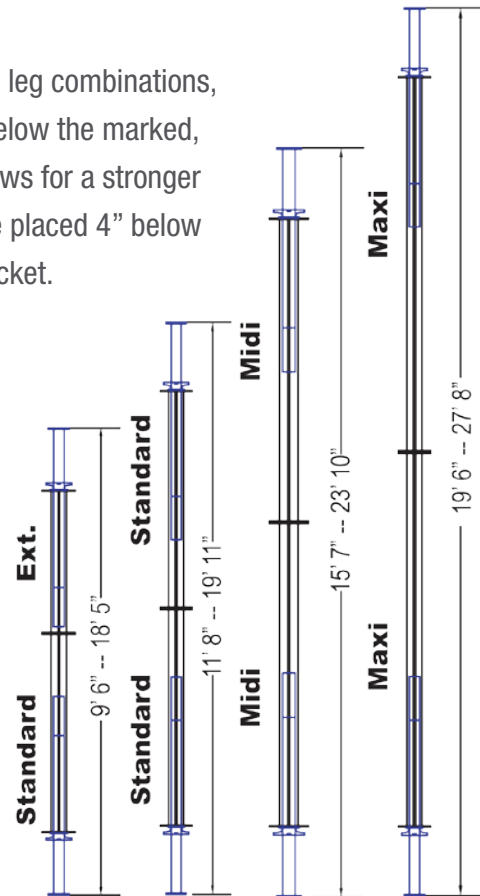
Note: Frame dimensions shown are in millimetres and center-to-center of legs.



Ledger Frames



When using two frames with two leg combinations, the second frame will go 15" below the marked, top endplate. Three Frames allows for a stronger load, and the third frame will be placed 4" below the connection bracket.



HV Support System Legs

Erection Sequence



1. Connect ledger frame horizontally between 2 legs. Predetermined ledger frame position measured from headplate.



2. Connect ledger frame vertically to leg.



3. Repeat 2 to form three sides to bay.



4. Repeat 1 to form 4th side of bay and then lift both sides of bay into position.



5. Connect both sides to form a 4 leg tower.



6. Now add additional frames and legs to form support structure.



7. Place intermediate transoms and scaffold boards in position for fixing of alu beams.



8. Fix primary beam to headplate by means of 2 R12 x 50 clamps.

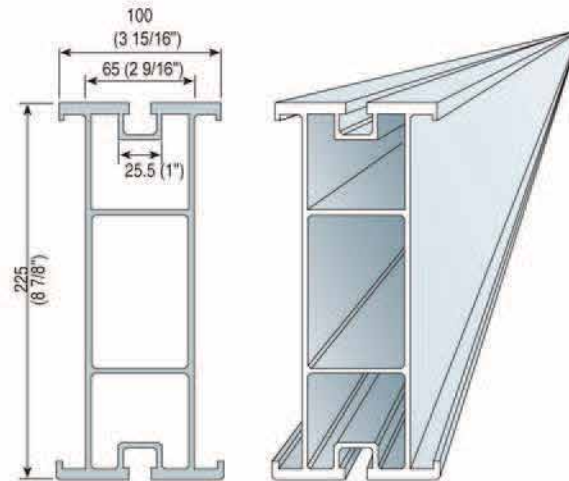


9. Position R12 x 100 and fix with a clamp at each intersection with a primary beam. Structure is now ready for fixing of plywood.

HV Support System Accessories

Component Beams

Manufactured from extruded aluminium section, Alu Beams offer a lightweight, easy to handle solution for decking/soffit applications.



Megashore 225 beam

	Area	5,057 in ²
Ixx	Moment of inertia	54.00 in ⁴
Zxx	Section modulus	12.16 in ³
E	Modulus of elasticity	9,799,883 lbs/in ²
E.I.	Bending stiffness	13,623 lbs/ft ²
W	Weight	5.94 lbs./ft
M	Resistance moment	21,020 lbs. ft
S	Allowable shear force	20,000 lbs.

length (m + feet)

1.2 = 3'-11"
 1.8 = 5'-11"
 2.4 = 7'-11"
 3.0 = 9'-10"
 3.6 = 11'-10"
 4.2 = 13'-9"
 4.8 = 15'-9"
 5.4 = 17'-9"
 6.0 = 19'-8"
 6.4 = 21'
 7.2 = 23'-7"

length (m + feet)

8.0 = 26'-3"
 9.0 = 29'-6"
 10.0 = 32'-10"
 11.0 = 36'-1"



Beam to beam fixing

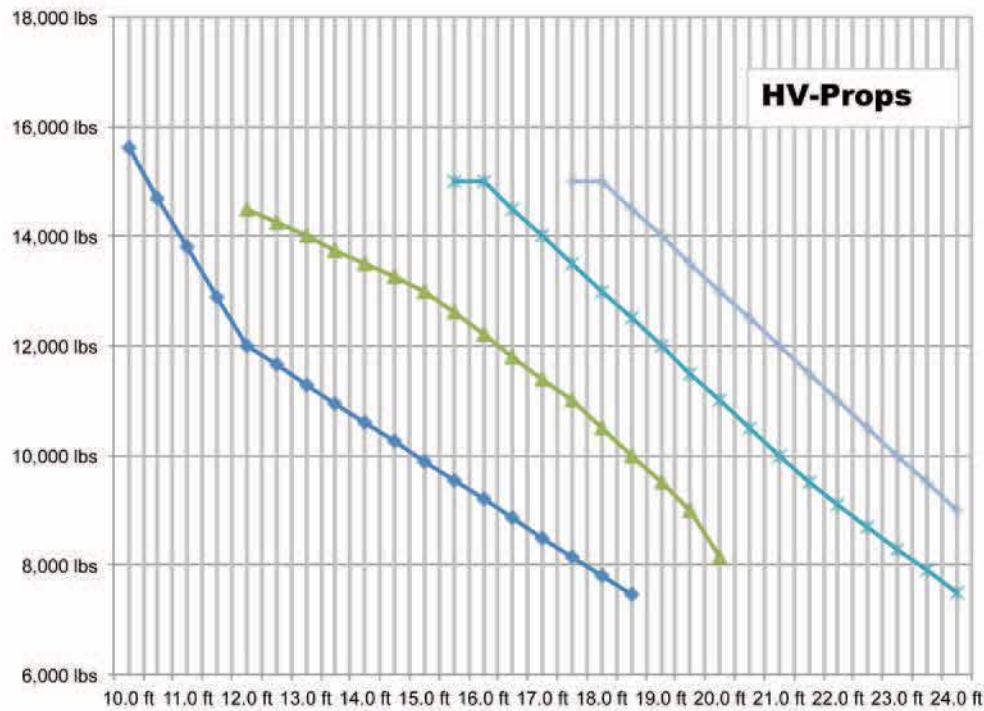
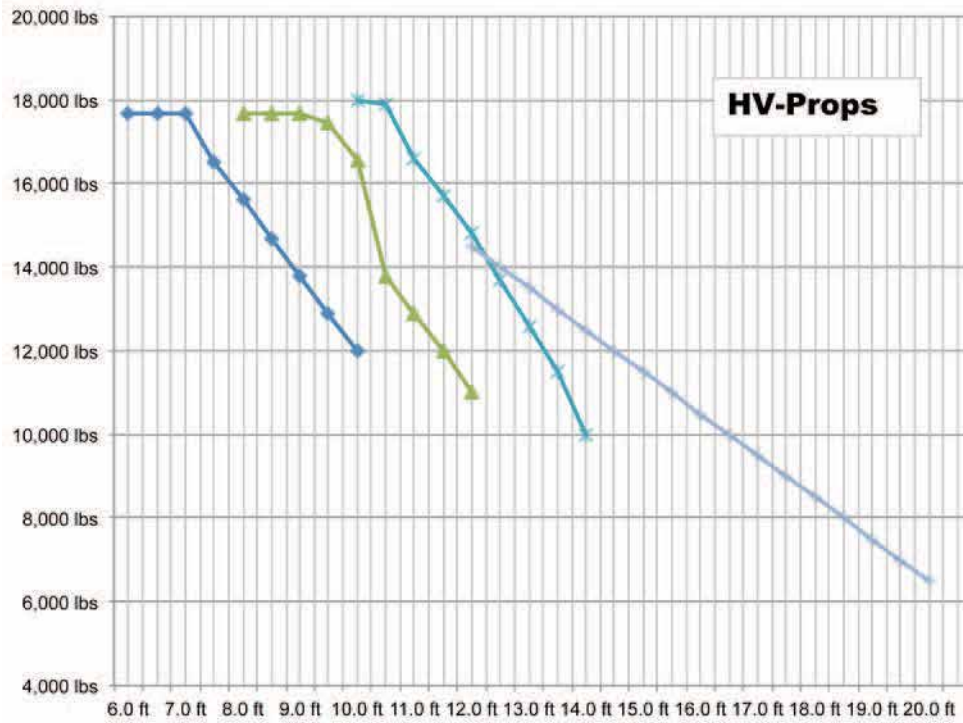


Megashore Clamp

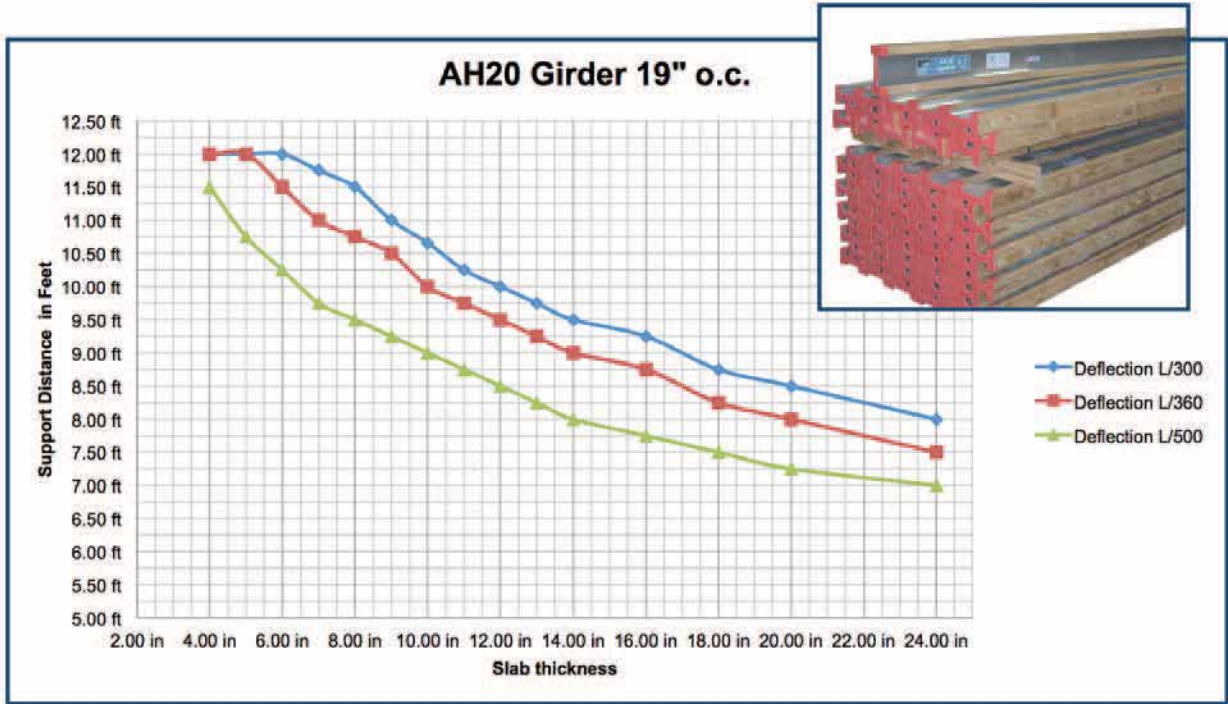


Headplate to beam fixing

HV Support System Load Charts



Timber Beam Load Charts



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