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.
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 permissable 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.

The HV Support System

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

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.
**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.
Component Beams
Manufactured from extruded aluminium section, Alu Beams offer a lightweight, easy to handle solution for decking/soffit applications.
HV Support System Load Charts

1 Frame

2 Frames
Timber Beam Load Charts

H20 Timber Girder

Support Distance in Feet

Slab thickness

AH20 Girder 19" o.c.

Support Distance in Feet

Slab thickness