



DeckFast™

# System Design



## **The two-component slab form system!**

DeckFast™ is as simple and quick as erecting two components to provide a ready-to-pour slab surface!

## **Slab forms of tomorrow, available today!**

DeckFast/Topec is the most efficient flat slab formwork system available. Just two basic components means superior labor savings and formwork productivity.

## **Super-sized panels yield high productivity**

The DeckFast panel productivity is increased further with the large 180 cm x 180 cm panel (nominal 6'x6'). This large-sized panel accelerates the set-up speed and overall labor savings of the system. The aluminum frame and high capacity galvanized post shore with drop-pin, yield amazing results when it comes to on-site productivity. When compared to the DeckFast slab formwork system, the conventional shoring's multitude of piece parts is antiquated.

## **Lower plywood costs**

Why purchase extra plywood? Use the DeckFast installed plywood. Obtain an excellent finish which nearly eliminates post pour cosmetics. Budgeted plywood costs remain in the pocket of the contractor.

## **Fewer accessories limit in-fill expenses**

The system features few, but functional, accessories to eliminate those costly in-fill areas. Adjustable panels have built-in nailers for odd incremental fills. Supported nailer strips and head support accessories are used for in-fill around columns and unusual fill areas. Reversible triangular panels allow for radius forming. Symons can even provide an in-slab beam bracket which supports your beam bottom and sides. The system's accessories make slab forming even quicker and more labor efficient.

### Easier preplanning and design

DeckFast is capable of form heights up to 18'-11" and a slab depth of 22"\*. Imagine pour heights in excess of 18' without "stacking" shore frames and slab depths up to 22"\* without the engineering required to position frames, stringers and joists.

### Reduced labor and increased productivity

The system excels beyond the productivity of conventional shore frame systems. It allows the erection or dismantling of an average of about 1000 ft<sup>2</sup> per person per day for most flat slab conditions! Numerous projects have achieved well beyond this average.

Compare this to an optimistic 450 ft<sup>2</sup> per person per day with conventional shoring systems. The repetitive erection/disassembly of the same two basic components equates to superior labor productivity.

### Excellent finish

The combination of the protective edge and special plywood provides a uniform, pleasing slab finish, in sharp contrast to the grainy results typical with conventional plywood and shoring systems.

### Less Re-shoring

When 100% re-shoring is required, you'll benefit from a spacious 180 cm x 180 cm panel (6' x 6' nom.) spacing with the DeckFast system. The same shore that supports the panel becomes the re-shore.

### Less Maintenance and Cleaning

The precision-manufactured panels fit so tightly together that only minimal amounts of slurry may adhere to the narrow top edge of the panels. Note the special edge profile protecting the plywood and frame.

### Modular flexibility

DeckFast is most commonly utilized to produce a flat-bottomed deck, but individual shore height can be adjusted slightly to produce vaulted ceilings. **Note:** Consult Technical Services for this application.

\* Maximum depth using 60 x 180 panels.



# Erection Procedures



## Set the frame

Workers position the 180 cm x 180 cm panel DeckFast™ panel onto the bearing from below. The almost 35 ft<sup>2</sup> panel with HDO plywood weighs only about 100 lbs and is easily set by two workers.

## Swing into place

The adjustable Erection Rod lifts the panel into a horizontal position and serves as a temporary support awaiting placement of the shore post.

## Shore it

Position the the pre-lengthened shore(s) to complete the erection process.



It's just that simple ... set, swing and shore. This repetitive yet elementary erection process yields productivity well beyond conventional handset shoring systems.

## Stripping is as easy as reversing the 3-step process

Lower the shore with the shore's quick release device, turn the collar down, support and swing the panel downward to the disassembly position. Slightly lift and remove the panel for its next use.

## Simply the Best...

In addition to supporting the panels, the post shores have the industry's quick release stripping mechanism which can save up to 50% of your labor cost when compared to other shores.



Two types of post shores are available. The 350 extends from 6'-8" to 11'-5" and weighs 46.5 lbs. The 550 extends from 9'-10" to 18'-0" and weighs 74.2 lbs.

Our quality post shores are hot-dipped galvanized, including the welds and threads, to prevent interior or exterior rust. In fact, all of the steel accessories are hot-dipped galvanized to ensure their longevity.

# The Post Shore

## Drop-pin, under-load stripping mechanism

Whether the post shore is supporting DeckFast, re-shoring or a conventional deck shoring system, its drop-pin can save you up to 50% of the dismantling labor.

### How it works

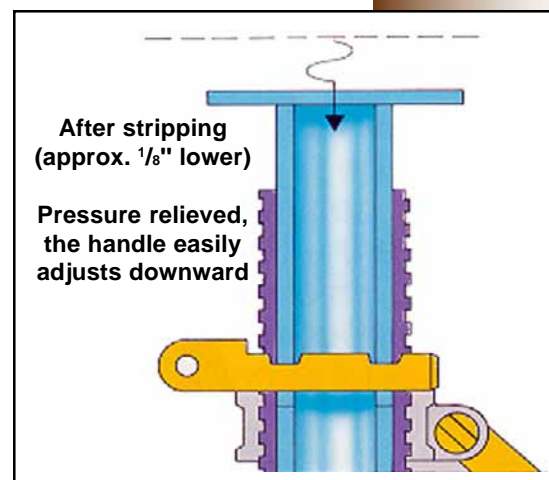
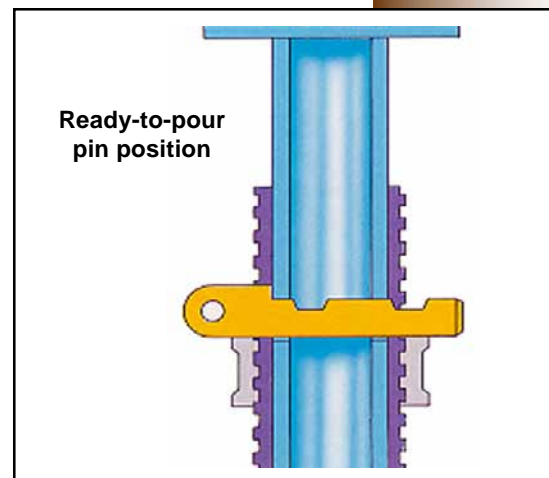
The pin is placed in the load position when the shore is set. Following the pour, the stripping pin is struck with a hammer, which causes the shore's upper staff to lower approximately  $\frac{1}{8}$ ". (The hardened pin is designed for this purpose.) The weight of the concrete pressure has now been relieved. The handle screws easily downward to facilitate the stripping function.

The single hammer blow to the end of the hardened stripping pin easily facilitates what is commonly the most difficult portion of the stripping process.

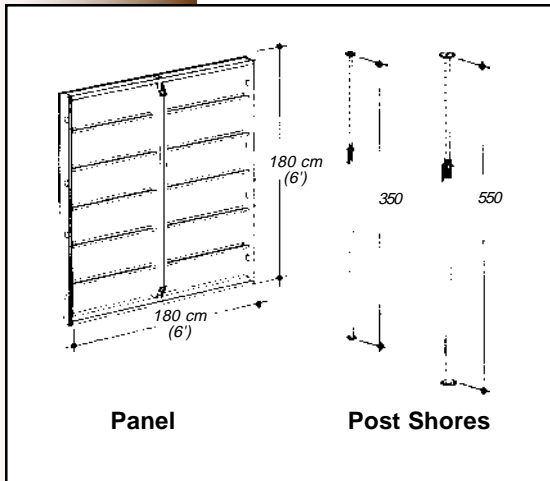
- ◆ You don't need to take the time for the consuming and costly efforts required in conventional shoring.
- ◆ You don't need a "cheater" bar (utilized to improve leverage to break the load pressure on other systems).
- ◆ You don't need to strike the metal casting collar or handle with a hammer until released. (This action can crack the casting or break the handle.)
- ◆ You don't need to strike the bottom of the shore with a sledge or large hammer until the shore falls. (This action can dent the lower outer tube so that the shore can not telescope.)

Our post shore eliminates the intensive labor and costly repairs typically associated with stripping competitive systems.

Because of its hot-dipped galvanized steel construction, high capacity and unique drop-pin stripping mechanism (while under load), we believe this shore to be the best in the industry.



# Components



## Basic Equipment

The number of components required for the DeckFast™ slab forming system is minimal.

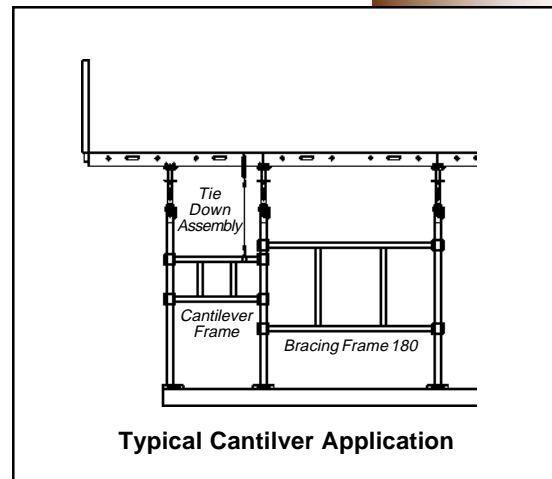
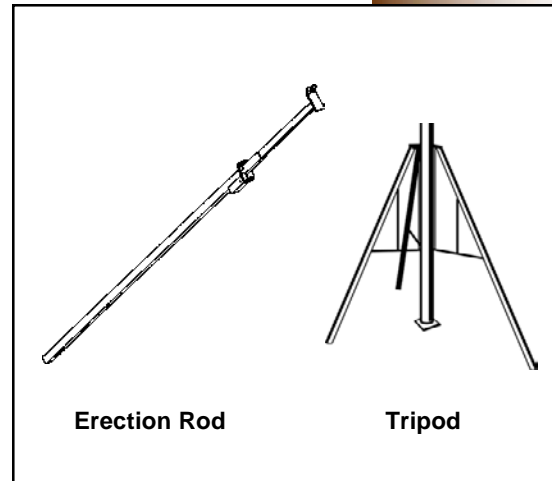
Basic Equipment	
180 cm x 180 cm Panel (approx. 6' x 6')	Square aluminum frame with 5-ply bonded plywood. The plywood edge is sealed and protected by the aluminum profile of the frame.
180 cm x 90 cm Panel (approx. 6' x 3')	Same great construction as the 180 cm x 180 cm panel, but with the additional benefit of higher capacity for high load applications.
Bearing Heads*	Mounted into the tubular steel shores, the symmetrically arranged cams of the bearing firmly engage four corners of the panels.
Edge Support Heads*	With an edge spacer to support the long sides of the panels along an existing wall.
Post Shores	<p>The 350 has a capacity of 4,631 lbs at 11'-11" to 7,733 lbs at 6'-8" with a 2.5:1 safety factor.</p> <p>The 550 has a capacity of 3,260 lbs at 18'-0" to 11,240 lbs at 9'-10" with a 2.5:1 safety factor.</p>

\* Items positively secured with the Spring Bolt.

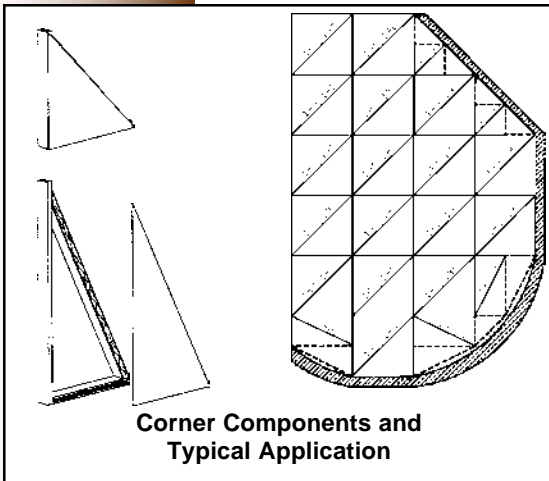
### Erection Aids

A number of components assist with erecting the DeckFast system or for handling special forming situations.

Erection Equipment	
Erection Rod	Facilitates the erection and stripping of the panels. The lightweight telescopic tube can be adjusted for slab heights up to 18'-11" with Extension Rod.
Tripods	Serve as erection aids during the initial setting of the system.
Bracing Frame 180	Can be used to space, support, and aid in the erection of the 180 cm x 180 cm panel. This frame attaches to the bottom portion of adjoining post shores. The Bracing Frame 180 can also be used in conjunction with the Cantilever Frame and Tie Down Assembly to allow cantilever applications.
Cantilever Frame and Tie Down Assembly	When used in conjunction with the Bracing Frame 180, the DeckFast system can be cantilevered up to a maximum of 29", providing a walkway of 26".



# Fill-In Components



## Versatility

In-fill areas can easily be formed with the DeckFast™ slab forming system using just a few components. Even complicated areas and curves can be accommodated. Corner Panels and Corner Frames are placed without additional shoring.

Panels and Frames	
Supplementary Panels 90x45/60/75/90 and 180x45/60/75/90	Panels 90 cm or 180 cm (35 <sup>3</sup> / <sub>8</sub> " or 70 <sup>7</sup> / <sub>8</sub> ") are available in widths of 45 cm to 75 cm (17 <sup>3</sup> / <sub>4</sub> " to 29 <sup>1</sup> / <sub>2</sub> ") at increments of 15 cm (5 <sup>7</sup> / <sub>8</sub> ").
Adjustment Panels 90x45-90	The sliding Adjustment Panel 90/180 can be adjusted from 45 cm to 90 cm (17 <sup>3</sup> / <sub>4</sub> " to 35 <sup>3</sup> / <sub>8</sub> "). The panel is equipped with built-in nailers and can be utilized with all other panel sizes.
90/90 Corner Panel	Triangular aluminum frame with attached multi-ply panel, 21 mm (13 <sup>1</sup> / <sub>16</sub> " thick).
180/90 Corner Frame	The lightweight aluminum frame is supplied without plywood that the frame is reversible.
180/90 Corner Sheet	The plywood for the Corner Frame, designed for use on either side of the frame. Two edges of the 21 mm (13 <sup>1</sup> / <sub>16</sub> " thick multi-ply sheet are protected by unique edge profiles.

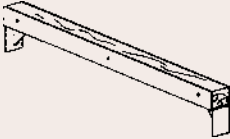


### Beams and Other Accessories

**Adjustment Beams**  
90 cm or 180 cm

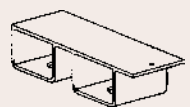
Aluminum profile with built-in nailer strips for forming in-fill areas.

**Transverse Beam**

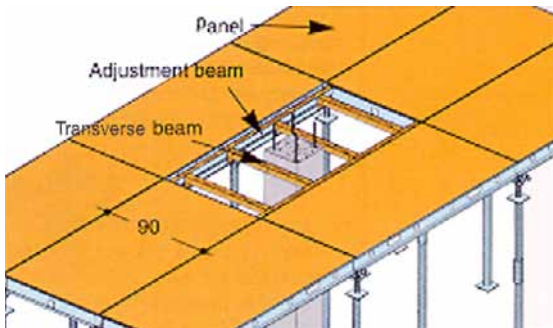


Similar to Adjustment Beam, but running transversely. Steel profile with a wooden nailer strip for plywood attachment. Use Adjustment and Transverse Beams together to fill in around columns.

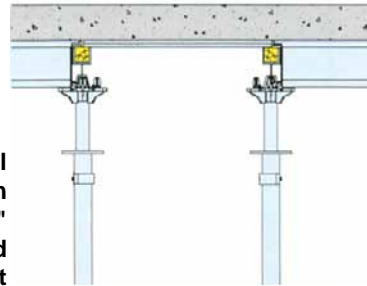
**Head Support Shoe**



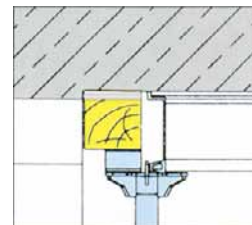
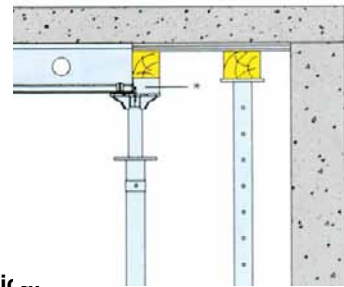
Top-mounted component for Bearing Heads or Edge Support Heads. They support 4x4 lumber and plywood to equal the DeckFast/Topec deck height.



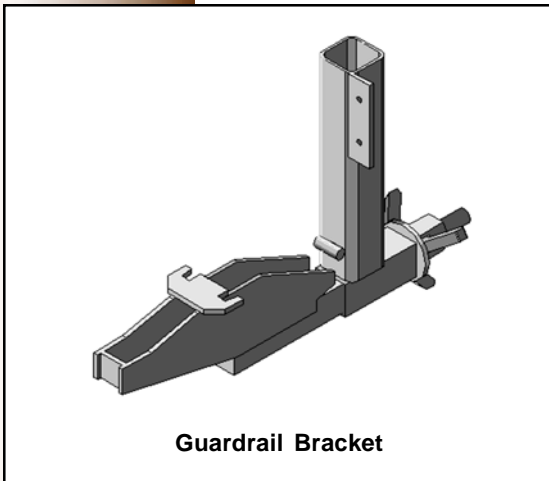
Typical application utilizing  $\frac{3}{4}$ " plywood and Adjustment Beam between panels



Typical applications along walls utilizing the Head Support Shoe, a 4x4 and  $\frac{3}{4}$ " plywood



# Safety and Stability



**Guardrail Bracket**



## Guard Rails and Walkways

**Guardrail Bracket** May be installed along edges or sides of the panels prior to lifting panel into position.

**Guardrail Bearing** Connects guardrails to sides and front of DeckFast™ deck panels.

**Guardrail Post** A safety post designed to support lumber guardrails.

**Tripods** Provide easy set-up and extra stability during erection process.

**Cantilever Support System** Safely supports the system in an extended slab/walkway condition. This system, comprised of the Bracing Frame 180 and Cantilever Frame with Tie Down Assembly, allows the system to be cantilevered a maximum of 29" with a 25" maximum walkway.

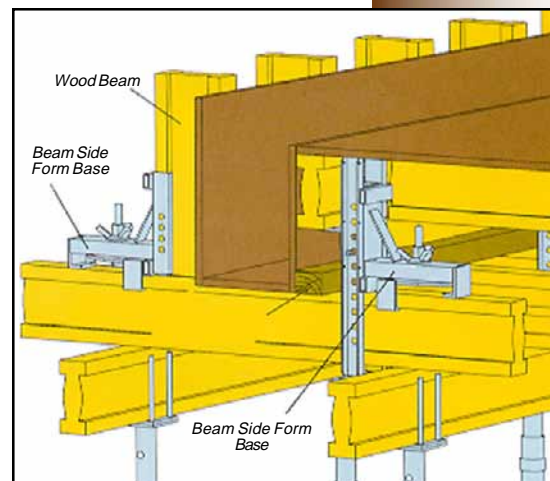
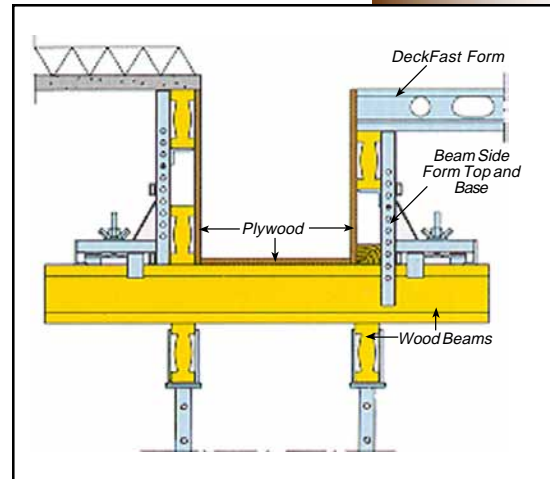
# System Compatibility

## Beam Formwork System

DeckFast can form slabs faster than any other system, especially when beams must be cast with the slab. The system includes a Beam Formwork System which forms and supports the deck, beam side and soffit with components from the Symons Wood Beam (formerly H20) Slab Support system.

Building beam sides and bottoms and tying across to create a straight and true 90° corner is one of the most labor-intensive functions in conventional beam forming. To simplify this operation, the system utilizes quick Beam Side Form Bases and Wood Beams to provide beam bottom and side support and ensure a 90° corner at the beam side. The combination reduces labor and build-up costs by up to 50%!

The Beam Formwork System can be supported by the same shores that support DeckFast or with conventional shoring. The Beam Side Base and Wood Beams lock in place without nuts, bolts, screws or wedges. Plywood combines with the Beam Side Form Base and Top to complete the assembly.



**Adjustable Column Form** — Form square or rectangular columns efficiently with a minimum number of steel panels.

**Alisply™** — Clamp-type metric dimension system is quickly assembled and reconfigured for fast-paced gangforming.

**Aluminum Beams and Joists** — Lightweight beams/ joists from 4' to 30' (122cm to 914cm) for deck or gangform applications.

**Box Culvert Traveler** — Rolling steel framework is compatible with Steel-Ply, Versiform and Max-A-Form systems.

**Chemicals** — Liquid, cement and epoxy products for concrete construction and repair.

**Flex-Form®** — Specially designed steel-faced system for forming curved walls and round tanks with no surface “chording”.

**Form Liner** — More than 30 standard patterns, in four different materials, create unique concrete textures.

**FrameFast™** — Provide 24,000 lb. (106kN) load capacity per shore frame with spacings from 3' to 15' (91.4cm to 457.2cm).

**Garage Beam System** — A complete system provides an economical, poured-in-place concrete parking garage.

**Max-A-Form®** — A durable, all-steel forming system that requires no walers. Ideal for pier caps and self-spanning applications.

**Resi-Ply™** — A low cost, 1<sup>1</sup>/<sub>8</sub>" (2.9cm) plywood forming system for residential construction. Available in 4-bar, 5-bar and 6-bar.

**Roller Deck** — Column mounted deck support system replaces conventional shoring, providing access for other trades.

**ShorFast™** — Aluminum leg and jack shoring system can support up to 30kips (133kN) per leg.

**Steel-Ply®** — The most popular modular system with more than 80 panel and filler sizes for handset or gangforming.

**Symons Soldier™** — The “next generation” construction beam that can be used as a brace, strongback, waler or shore.

**Street Smart™** — Reusable steel forms for residential curb and gutters, industrial slabs and highway paving applications.

**Symons Silver™** — A lightweight aluminum system that makes residential forming operations very efficient and productive.

**Versiform®** — Steel frame/plywood face gangforming system that provides a smooth concrete finish.

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