

PATENT

**HARSCO**  
INFRASTRUCTURE



**INTERFORM<sup>®</sup>**

Aluminum flying form system

**ROLL SHORE<sup>®</sup>**

Column mounted shoring system

# INTERFORM®

## Fully adjustable flying forming system

### **Saves time. Reduces costs. Increases productivity.**

- The most complete job-tailored flying forming system available.
- Fully adjustable system – table width, length, and height are easily adjusted to meet most job requirements.
- Lightweight aluminum trusses and joists – tables maneuver easily; flying time is reduced.
- All truss modules are delivered pre-assembled, resulting in less on-site erection time, thereby lowering labor costs.

### **Designed to make the job easier.**

- Each INTERFORM® table is a single, integral unit that can be moved and flown from one position to another with an average capacity tower crane. The flying table can be reused through the life of the project. Individual table size is dictated by the building module, and is usually only limited by crane capacity.
- The primary component of the INTERFORM® system is the high strength, lightweight, aluminum truss, with steel telescoping extension legs.

Depending upon the table width required, two or three trusses are used. Each truss unit is held in a fixed, rigid position by adjustable, heavy-duty, pivoted, diagonal steel bracing. Table trusses are then spanned laterally with high strength, extruded aluminum joists. The aluminum joists provide the basic surface on which the deck form is mounted. The result is a complete, durable, and easy-to-handle concrete forming system.



### **The system**

- Every INTERFORM® system is tailored to your particular job requirements. It's the only system that offers all the outstanding advantages:
- Greater range of high strength aluminum truss modules. Only 5' (1.5m) high for greater flexibility of use.
- Integral steel leg sockets built into each truss module, fitted with telescoping steel extension legs for shoring heights from 7' to 20' (2.1m. to 6.1m).
- Fully adjustable steel bracing to provide 6' to 20' (1.8m to 6.1m) of truss spacing.
- High strength, extruded aluminum joists, with standard 3" by 2" nailers (76.2mm by 50.8mm).
- Full range of accessories available to tailor the system to your needs.

# INTERFORM®

## How it works

Generally, an INTERFORM® table can be stripped, flown and reset in about 15 to 20 minutes, depending upon job conditions.

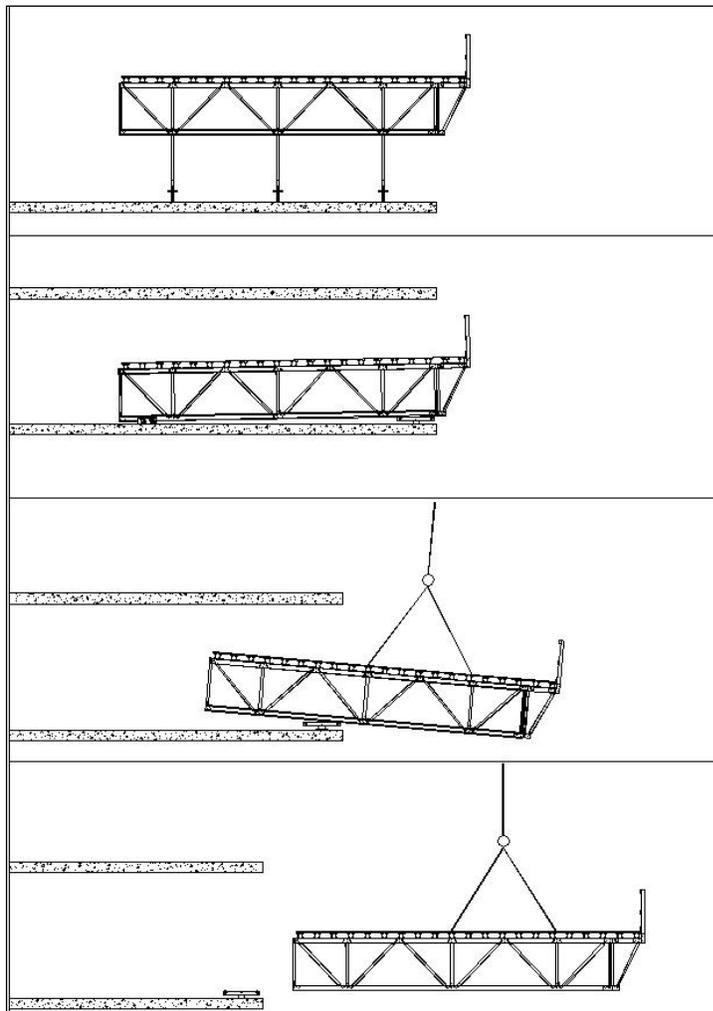


Pre-assembled truss modules are delivered to the site. Flying tables are placed into position and set to grade by adjustment of the extension legs and screw jacks. Fillers are placed in the column strips to complete the deck form.

The concrete is poured, and once the slab has attained adequate strength, the table is stripped and lowered onto roll-out units.

The table is slowly rolled out and the crane harness is attached.

The table is flown to its new position and reset to grade.



# INTERFORM®

Fully adjustable system for maximum versatility

## Modular truss units

Our modular truss units are available in a wide range of lengths. Individual truss modules may be joined together with splice sets to quickly construct a specific table length. The allowable working loading capacity of trusses, individually or joined, is 2000 lbs. (907 kg) per linear foot, with a 2.5:1 safety factor.

## High strength, extruded aluminum joists

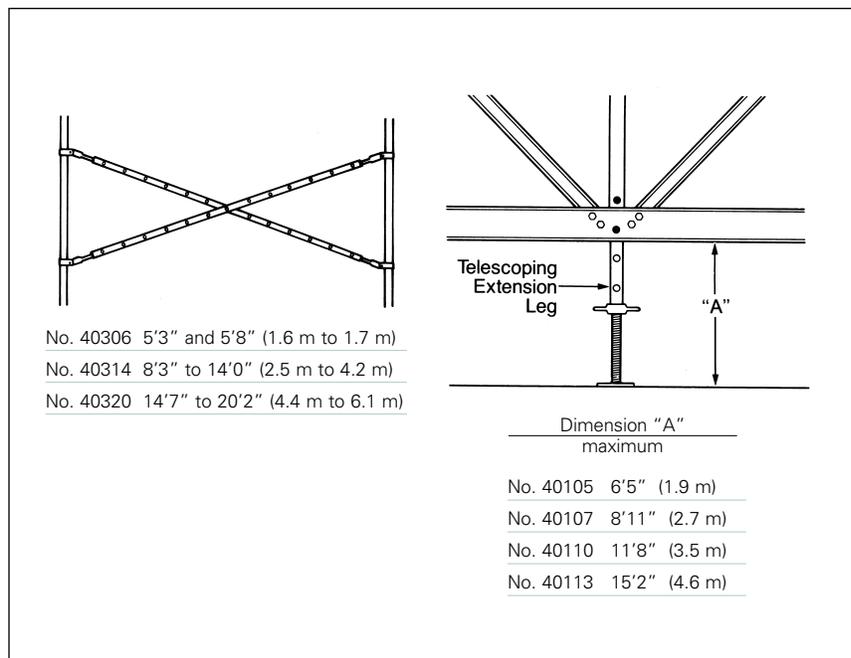
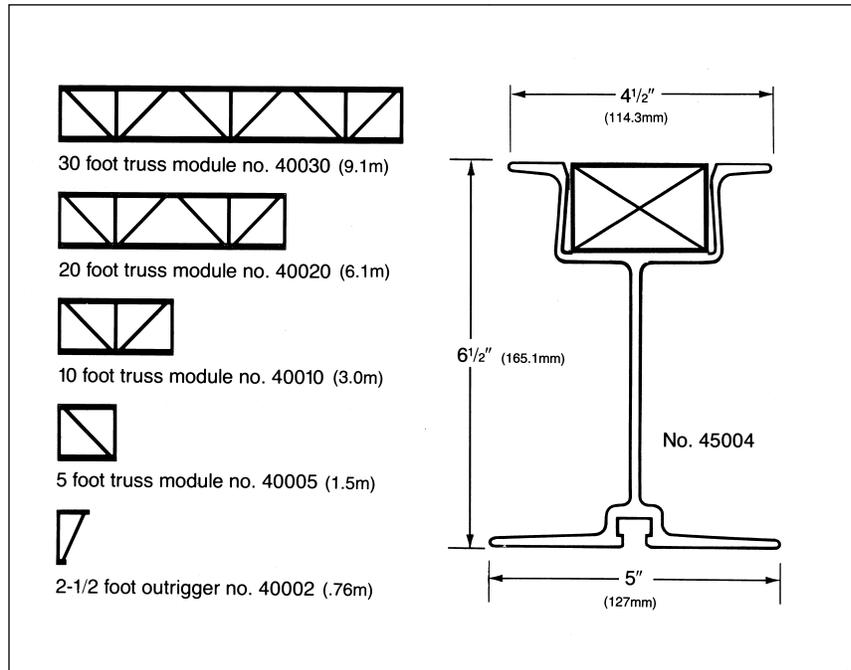
Lightweight aluminum joists construct the basic platform of the flying table. Each joist has a wide top flange with a 3" x 2" (76.2mm. to 50.8mm.) nailer flush to the top flange, providing an extremely rigid decking surface.

## Adjustable bracing

Truss units are held in rigid position with heavy-duty steel, pivoted, diagonal bracing. Each brace is provided with telescoping end sections to easily handle required truss spacings from 6' to 20' (1.8m to 6.1m)

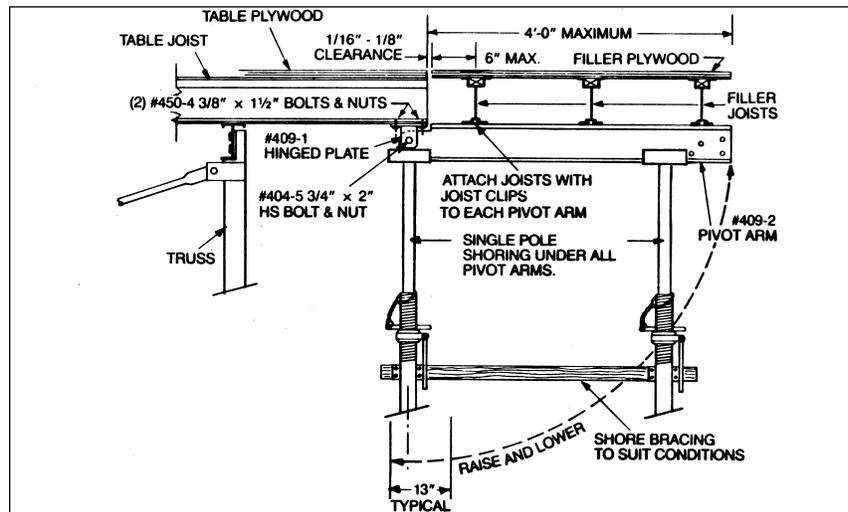
## Telescoping extension legs

Tubular steel legs can be telescoped, permitting rapid adjustment of the truss table attaining shoring heights of 7' to 20' (2.1m to 6.1m). Heavy-duty screw jacks with 18" adjustment (20Kips) or 30" adjustment (15Kips) are fitted to the base of each leg and used for final adjustments and leveling. The telescoping feature also eases table placement in grade change situations, such as ramps or sloping floors.



### Hinged filler panel assembly

Patent's hinged filler panel can be attached easily to the INTERFORM® flying table to a building edge, an interior shaft or well or to "close-up" a space. Hinged plates are attached to table joists at specified locations, with pivot arms which are raised for deck forming, or lowered for stripping and flying. The panel offers a maximum width of 4' (1.2 m), with lengths as required.



### Rollout equipment

Horizontal movement of the table is usually handled by rollout sets. These rollouts are positioned on the deck, directly under the trusses, and have wide-spaced flanges that easily fit the truss bottom chords. If tables must first be moved laterally, then post casters are furnished instead of rollout sets.

### Adjustable spandrel beam carrier

Patent's spandrel beam carrier is designed specifically to support spandrel beam formwork when used in conjunction with the INTERFORM® flying truss table. The carrier is vertically adjustable in 3" (76.2 mm) increments for placement at its desired level, since the spandrel beam carrier essentially bolts on to the existing truss. In many cases, additional shoring is not required due to the carrier's superior design.



Essentially a mini-truss, Patent's spandrel beam carrier can easily be attached to the end of our 10, 20, or 30' (3.0, 6.1, 9.1 m) INTERFORM® flying tables and allows a maximum total load on each spandrel beam carrier of 10,000 lbs (4536 kg).

# ROLL SHORE®

## Column mounted tables



In the construction of high-rise buildings designed with long spans between columns, long bays, and repetitive floors, Patent's ROLL SHORE® system offers maximum forming productivity. Based on a grid of castellated beams and joists, the system can create and support high strength tables as large as 20,000 sq. ft. or more.

At the heart of the system is the ROLL SHORE® bracket — a special, high strength jack which supports the tables. The ROLL SHORE® brackets are fastened to the columns with through-bolts. When each table is set, the main castellated beams on the sides rest on the jacks of the brackets. The jacks are then adjusted to the exact grade required for the floor being formed. After the concrete is placed and has attained stripping strength, the jacks are lowered, bringing the bottom flanges of the main beams to rest on rollers. The table is then quickly and easily rolled out of the floor with the crane, and flown to the next level to be poured. Cycling typically requires less than an hour of crane time per table.



Adjustable column jacks



Adjustable column jacks



A double tier of tables facilitates even faster cycling.



Special tables form scalloped underside of floors for new San Francisco Federal Building.

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## WARNING

Serious injury may result if you fail to use safe practice in the erecting, dismantling or use of scaffolding, shoring and/or forming equipment. Erectors, dismantlers and users must be familiar with and follow current laws and regulations, safe practice and the Safety Rules and Instructions. Individuals using this equipment must be instructed in these requirements. Safety Rules and Instructions pertaining to the products shown herein are provided upon sale or rental of equipment. Additional copies or further information shall be provided upon the customer's request.

It is important to note that current OSHA regulations require the use of guardrail systems and/or fall-protection devices at all working levels, open sides, and at all other openings on platforms and work areas above certain heights, as specified by OSHA. In all cases, where a worker is exposed to a fall hazard in the use of this equipment, guardrail systems, where appropriate, or other personal fall-protection devices, must be utilized. Means of access must be made available by the customer to all locations where people are expected to work. Materials for the provision of such means of access may be job-built by the customer or, at the customer's option, be obtained through Patent Construction Systems or other suppliers. Patent Construction Systems will, at the customer's request, consult on an alternative means of access.