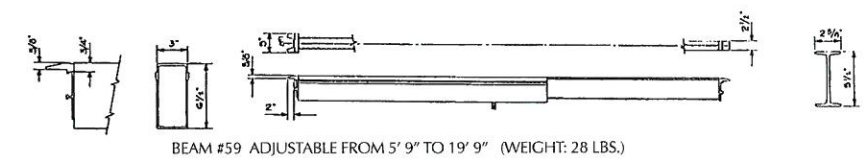
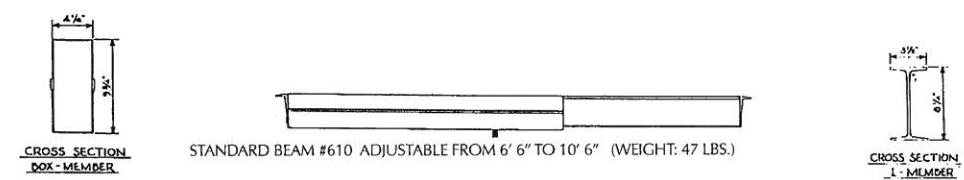
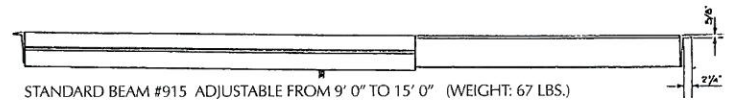




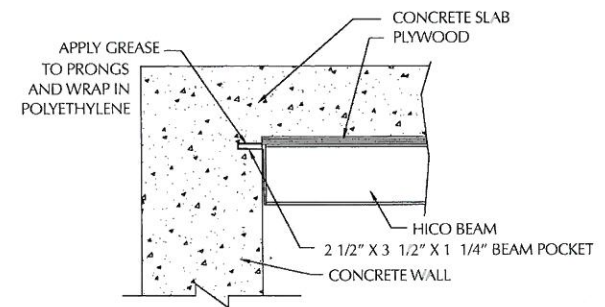
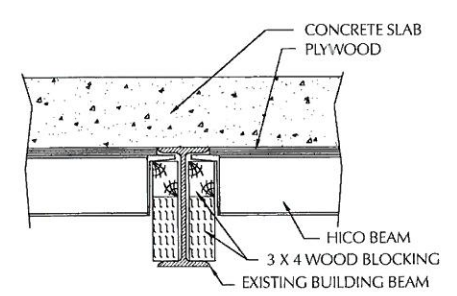
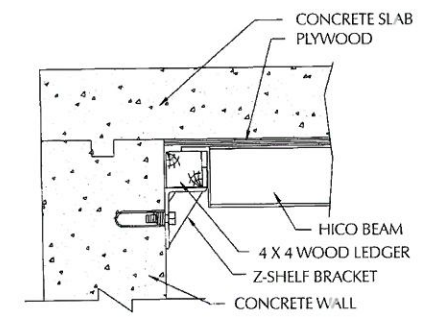
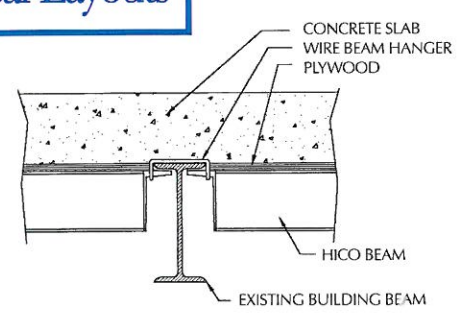
# Aluminum Adjustable Horizontal Shoring

## THE HICO BEAM

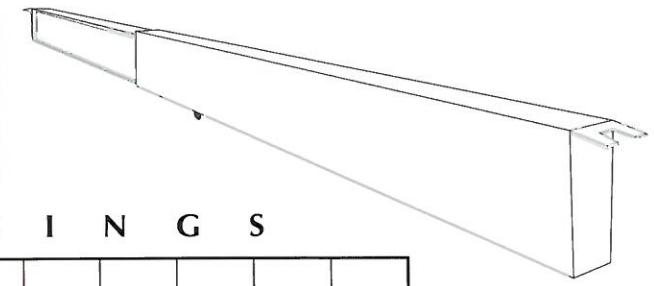


EDC Hico horizontal shoring beams can be used in conjunction with other EDC heavy duty shoring systems. For more information regarding shoring systems, refer to our 8-page Complete Shoring Systems catalog insert.

### Typical Layouts



### Load-Carrying Capacity of Hico 5' - 9' Beams



#### SPACINGS

30 lbs. per sq. ft.  
Bending Moment 3240 ft. lbs.  
End Reaction 1575 lbs.  
Average Safety Factor: 3.00

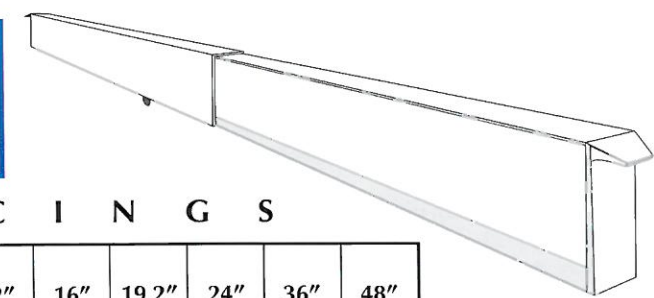
Thickness of Slab (inches)	Total Wt. incl. L.L.& Forms	8"	12"	16"	19.2"	24"	36"	48"
4	100	9'9"	9'9"	9'9"	9'9"	9'9"	9'4"	7'11"
5	113	9'9"	9'9"	9'9"	9'9"	9'9"	8'9"	7'0"
6	125	9'9"	9'9"	9'9"	9'9"	9'9"	8'4"	6'4"
7	138	9'9"	9'9"	9'9"	9'9"	9'9"	7'8"	5'9"
8	150	9'9"	9'9"	9'9"	9'9"	9'4"	7'0"	---
9	163	9'9"	9'9"	9'9"	9'9"	8'10"	6'6"	---
10	175	9'9"	9'9"	9'9"	9'9"	8'7"	6'0"	---
11	188	9'9"	9'9"	9'9"	9'9"	8'5"	---	---
12	200	9'9"	9'9"	9'9"	9'9"	7'10"	---	---

For specific applications, consult with EDC Engineering.

#### DESIGN NOTES

1. Total live load and form weight: 50 psf.
2. Maximum bending moment: 3240 ft. lbs.
3. Maximum end reaction: 1575 lbs.
4. 5' - 9' beam adjustment range: 5'9" minimum / 9'9" maximum

### Load-Carrying Capacity of Standard Hico Beams



#### SPACINGS

40 lbs. per sq. ft.  
Bending Moment 8640 ft. lbs.  
End Reaction 2700 lbs.  
Average Safety Factor: 2.28

Thickness of Slab (inches)	Total Wt. incl. L.L.& Forms	8"	12"	16"	19.2"	24"	36"	48"
4	100	21'0"	21'0"	21'0"	20'9"	18'7"	15'2"	13'2"
5	113	21'0"	21'0"	21'0"	19'5"	17'6"	14'4"	12'0"
6	125	21'0"	21'0"	20'4"	18'7"	16'8"	13'7"	10'10"
7	138	21'0"	21'0"	19'5"	17'9"	15'7"	13'1"	9'10"
8	150	21'0"	21'0"	18'7"	17'0"	15'2"	12'0"	9'0"
9	163	21'0"	20'8"	17'10"	16'4"	14'9"	11'1"	8'4"
10	175	21'0"	19'11"	17'3"	15'9"	14'0"	10'3"	7'9"
11	188	21'0"	19'2"	16'8"	15'2"	13'7"	9'7"	7'4"
12	200	21'0"	18'7"	16'1"	14'8"	13'2"	9'0"	6'9"

For specific applications, consult with EDC Engineering.

#### DESIGN NOTES

1. Total live load and form weight: 50 psf.
2. Maximum bending moment: 8640 ft. lbs.
3. Maximum end reaction: 2700 lbs.
4. Standard Hico beam adjustment ranges:

Type	Adjust. Range*
610	6'6" to 10'6"
915	9'0" to 15'0"
1119	11'0" to 19'0"
1321	13'0" to 21'0"
3-pc. beam	to 25'0"

\* approximate

Use of this product is subject but not limited to the requirements of ACI 1318 and 347

Note: Final shoring layouts should always be reviewed and approved by a Licensed Professional Engineer prior to installation.

## Horizontal Shoring Beam Safety Rules

As Recommended by the Scaffolding, Shoring & Forming Institute, Inc.

Following are some common sense rules designed to promote safety in the use of horizontal shoring beams. These rules are illustrative and suggestive only, and are intended to deal only with some of the many practices and conditions encountered in the use of horizontal shoring beams. The rules do not purport to be all-inclusive or to supplant or replace other additional safety and precautionary measures to cover usual or unusual conditions. They are not intended to conflict with, or supersede, any state, local, or federal statute or regulation; reference to such specific provisions should be made by the user.

### I. GENERAL GUIDELINES

- A. POST THESE SHORING SAFETY GUIDELINES in a conspicuous place and be sure that all persons who erect, dismantle or use shoring are aware of them.
  - B. FOLLOW ALL STATE, LOCAL AND FEDERAL CODES, ORDINANCES AND REGULATIONS pertaining to shoring.
  - C. INSPECT ALL EQUIPMENT BEFORE USING. Never use any equipment that is damaged or defective in any way.
  - D. A SHORING LAYOUT shall be available and used on the jobsite at all times.
  - E. INSPECT ERECTED SHORING AND FORMING FOR CONFORMITY WITH LAYOUT AND SAFETY PRACTICES: (a) immediately prior to concrete placement; (b) during concrete placement and while vibrating concrete, and (c) after concrete placement until concrete is set.
  - F. NEVER TAKE CHANCES! IF IN DOUBT REGARDING THE SAFETY OR USE OF THE SHORING, CONSULT YOUR SHORING SUPPLIER. USE SHORING EQUIPMENT only for the purposes or in ways for which it was intended. Use proper tools when installing equipment.
  - G. CONSULT STEEL FRAME SHORING SAFETY RULES, SINGLE POST SHORE SAFETY RULES, VERTICAL SHORING SAFETY CODE, AND FRAME SHORING ERECTION PROCEDURE, developed by the Scaffolding and Shoring Institute.
- A. USE MANUFACTURERS' RECOMMENDED SAFE WORKING LOADS AND PROCEDURES FOR:
    1. Span, spacing, and types of shoring beams.
    2. Types, sizes, heights, and spacing of vertical shoring supports.
  - B. USE LUMBER EQUIVALENT TO THE STRESS, species, grade and size used on the layout. Use only lumber that is in good condition. Do not splice between supports.
  - C. DO NOT MAKE UNAUTHORIZED CHANGES OR SUBSTITUTION OF EQUIPMENT; always consult your supplier prior to making changes necessitated by jobsite conditions.
  - D. PROVIDE AND MAINTAIN ADEQUATE SUPPORT TO properly distribute shoring loads. When supporting horizontal shoring beams on:
    1. Masonry walls, insure that masonry units have adequate strength. Brace walls as necessary.
    2. Ledgers supported by walls using bolts, or other means, they should be properly designed and installed per recommendation of supplier or job architect/engineer.
    3. Formwork, such formwork should be designed for the additional loads imposed by the shoring beams.
    4. Structural Steel Framework, the ability of the steel to support this construction loading should be checked and approved by the responsible project architect/engineer.
    5. When supporting horizontal beams on steel hangers, be sure that the bearing ends fully engage on the hangers. The hangers shall be designed to conform to the bearing end and shall have a rated strength to safely support the shoring loads imposed. (Follow hanger manufacturers' recommendations.)
    6. Vertical Shoring (see B and G from above Guidelines.)
  - E. SPECIAL CONSIDERATION MUST BE GIVEN TO THE INSTALLATION OF HORIZONTAL SHORING:
    1. When sloped or supported by sloping ledgers (stringers.)
    2. When ledger (stringer) height/width ration exceeds 2 1/2: 1. Under no circumstances shall horizontal shoring beams bear on a single "two-by" ledger (stringer.)
3. When eccentric loading conditions exist.
  4. When ledger (stringer) consists of multiple members. (i.e., double 2x6, 2x8, etc.)
  - F. ASSURE THAT BEARING ENDS OF SHORING BEAMS ARE PROPERLY SUPPORTED and that locking devices are properly engaged before placing any load on them.
  - G. IF MOTORIZED CONCRETE PLACEMENT EQUIPMENT IS TO BE USED, be sure that lateral and other forces have been considered and adequate precautions taken to assure stability.
  - H. HORIZONTAL SHORING BEAMS SHOULD NOT be supported other than at the bearing prongs unless recommended by supplier. Under no circumstances support or cantilever truss member of horizontal shore beam.
  - I. DO NOT NAIL BEAM BEARING PRONGS TO LEDGER
  - J. PLAN CONCRETE POURING METHODS AND SEQUENCES TO insure against unbalanced loading of the shoring equipment. Take all necessary precautions to avoid uplift of shoring components and formwork.
  - K. AVOID SHOCK OR IMPACT LOADS FOR which the shoring was not designed.
  - L. DO NOT PLACE ADDITIONAL, TEMPORARY LOADS (such as rebar bundles) on erected formwork or poured slabs, without checking the capacity of the shoring and/or structure to safely support such additional loads.
  - M. DO NOT RELEASE ANY PART OF THE FORMWORK OR SHORING until proper authority has been obtained. Particular consideration must be given to reshoring procedures.
  - N. RESHORING PROCEDURES SHOULD ALWAYS be approved by the responsible project architect/engineer.

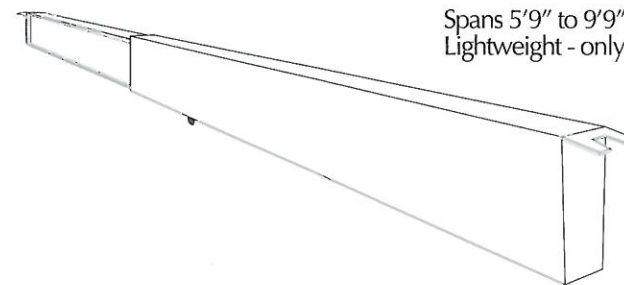
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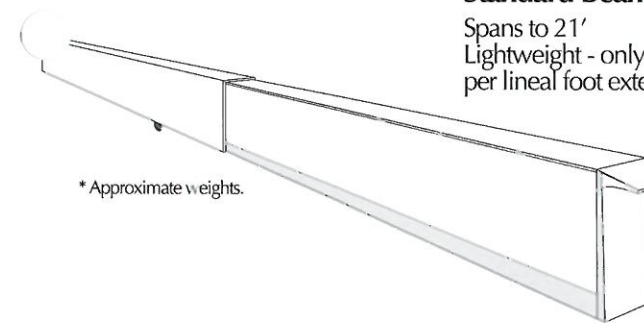
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**5' to 9' Beams**  
Spans 5'9" to 9'9"  
Lightweight - only 28 lbs!\*

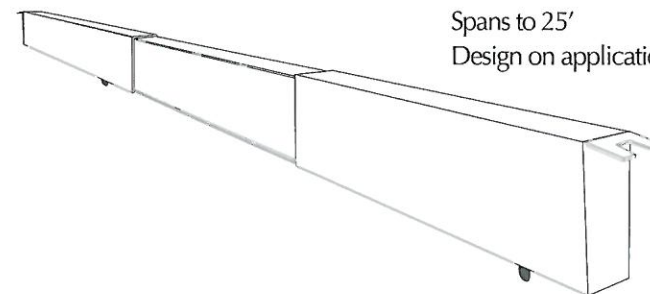


**Standard Beams**  
Spans to 21'  
Lightweight - only 4 lbs.  
per lineal foot extended.\*



\* Approximate weights.

**3-Piece Beams**  
Spans to 25'  
Design on application



# Aluminum Adjustable Horizontal Shoring

THE HICO BEAM

**Lightweight**

**Faster to Handle**

**Sturdy**

**High Strength Structural  
Aluminum Alloy**

**Supports Slabs of Any  
Size & Thickness**

**Saves Time & Money**

**Less Setup Time**

**Easily Adjusted to  
Required Length**

**Easy to Set**

**Easy to Strip**

**No Special Tools**

**Engineering & Field  
Service Available**

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