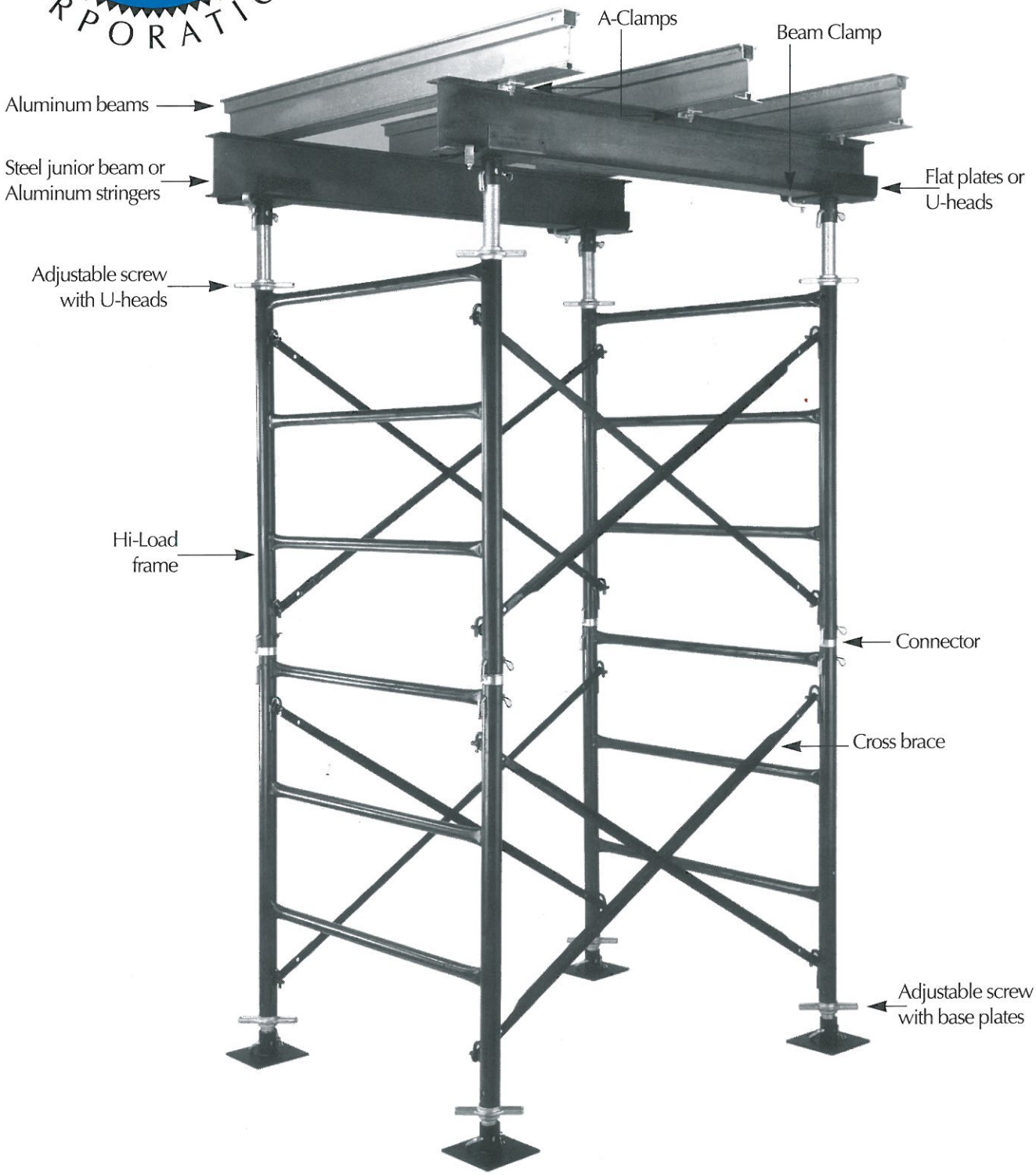
Complete Shoring Systems

3 EUCKER STREET
RIDGEFIELD PARK, NEW JERSEY 07660
www.edconline.com

Call toll free **877-SHORING**

Hi-Load Tower

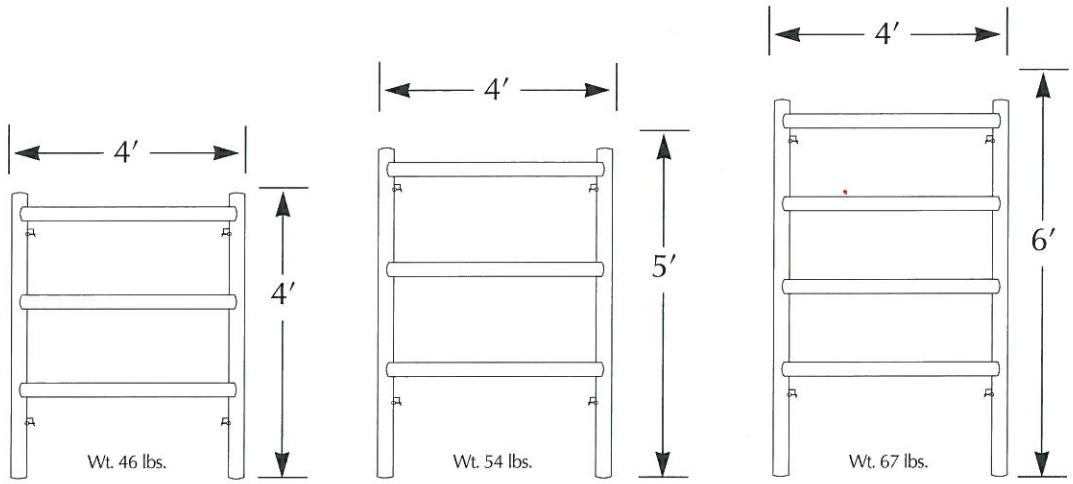


Hi-Load Frames

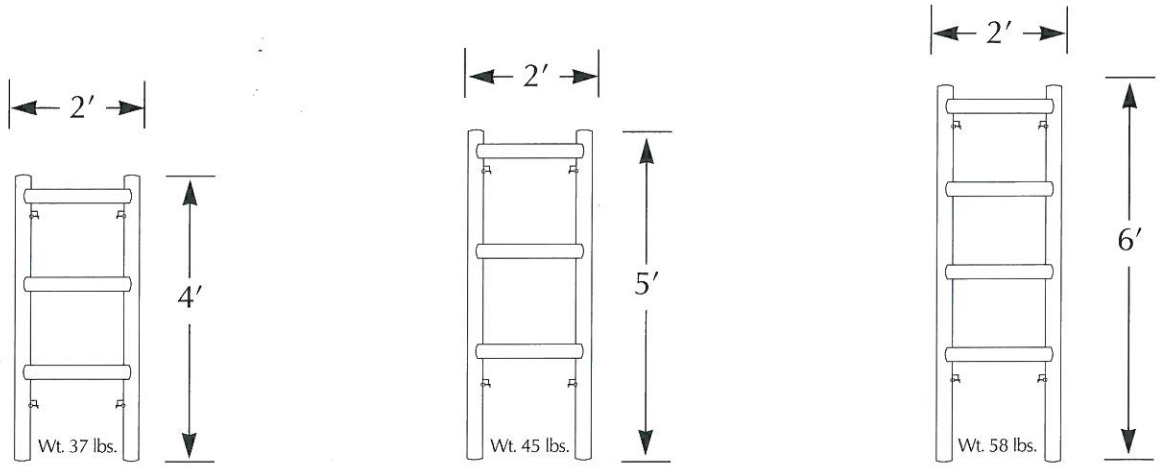
EDC Shoring features a selection of products focused on ease of use and wide ranges of adjustment. EDC provides the best, most economical, most versatile shoring frames available. They can be intermixed to achieve virtually any shoring configuration and are designed to provide the fastest possible erection, as well as ease in dismantling, storing and trucking.

Shoring Frames

10,000 lbs. per leg
20,000 lbs. per frame



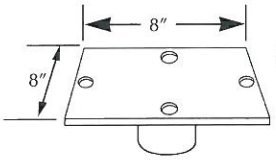
2′ frames cut down on timber requirements, and are especially suited for shoring beams and supporting horizontal shoring for slabs.



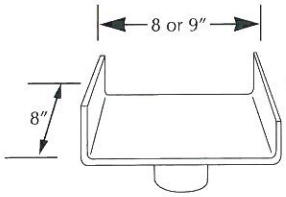
Complete Shoring Systems

Accessories

Interchangeable U-Heads and Base Plates



Wt. 7½ lbs.



Wt. 12½ lbs.

Beam Clamp

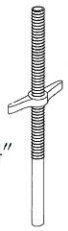
A - Clamp

Screws

Total Screw Height: 36″

Total Thread: 24″

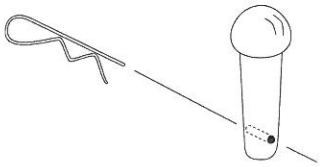
Wt. 10 lbs.



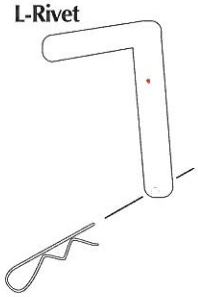
Connectors

Wt. 3/4 lb.

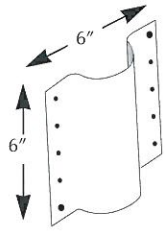
Hitch Pin & Rivet



L-Rivet

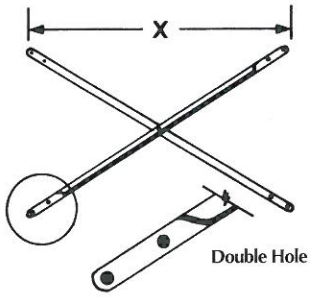


Nailing Plate

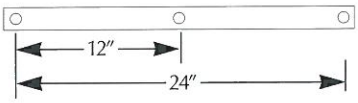


Cross Braces

X	Wt. (lbs.)
4′	12
5′	13½
6′	13
7′	16¾
8′	18½
10′	22¼



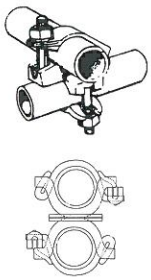
Bar Braces



Typical spacing: 12″ and 24″

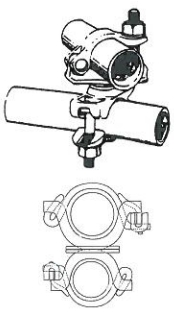
Rigid Clamp

Size	Wt.
2″ x 2″	2.9 lbs.
2″ x 2 3/8″	4.3 lbs.



Swivel Clamp

Size	Wt.
2″ x 2″	3 lbs.
2″ x 2 3/8″	4.4 lbs.



Steel Tubing

1.9″ O.D.

Wt. 2.72 lbs. per lineal foot

Typical lengths:
8′, 10′, 13′, 16′

Rigid and Swivel Clamps are used to connect two sections of tube or tube and frame leg.

Hi-Load Shoring

Allowable Suggested Working Loads (lbs./leg)

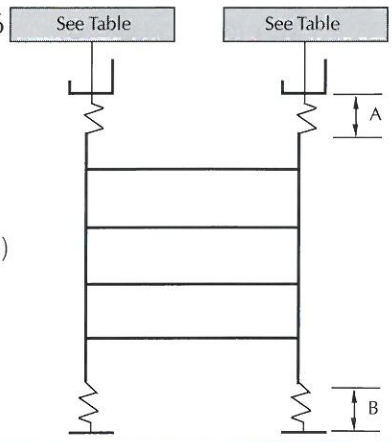
SUGGESTED MAXIMUM SAFE WORKING LEG LOADS FOR 412X-XX, 4144X-XX & 424X-XX SERIES FRAMES WITH 46XX-XX SCREWS												
Part No.	Description											
4143-00	4′ x 3′ Hi-Load Frame	Total adjustment top and bottom = A+B	12″	17,500*	16,600	13,400	10,600	10,200	10,000	9,900	9,800	9,700	9,600
4144-00	4′ x 4′ Frame		24″	14,800*	13,700	11,900	9,500	9,100	8,700	8,600	8,500	8,400	8,300
4123-00	2′ x 3′ Hi-Load Frame		36″	12,200	11,200	10,400	8,300	8,800	7,700	7,300	7,000	6,750	6,500
4124-00	2′ x 4′ Hi-Load Frame		48″	10,500	10,300	9,750	8,000	7,700	7,400	7,200	7,000	6,750	6,500
4145-00	4′ x 5′ Hi-Load Frame		12″	15,800*	14,900	13,400	10,600	10,200	9,900	9,900	9,800	9,700	9,600
4125-00	2′ x 5′ Hi-Load Frame		24″	14,100	12,400	11,900	9,500	9,100	8,600	8,600	8,500	8,400	8,300
4245-00	4′ x 5′ Ledger Bearing		36″	11,700	10,700	10,400	8,300	8,000	7,300	7,300	7,000	6,750	6,500
	Frame		48″	10,200	10,000	9,750	8,000	7,700	7,200	7,200	7,000	6,750	6,500
4246-00			12″	14,400	13,200	11,600	10,600	10,200	9,900	9,900	9,800	9,700	9,600
4146-00	4′ x 6′ Ledger Bearing		24″	12,400	11,100	10,800	9,500	9,100	8,600	8,600	8,500	8,400	8,300
4126-00	Frame		36″	10,000	9,000	8,600	8,300	8,000	7,300	7,300	7,000	6,750	6,500
4346-00	4′ x 6′ Hi-Load Frame		48″	8,500	8,400	8,200	8,000	7,700	7,200	7,200	7,000	6,750	6,500
	2′ x 6′ Hi-Load Frame												
No. of Tiers i.e. frames in tower				1	2	3	4	5	6	7	8	9	10

FOR SPECIFIC APPLICATIONS, ALWAYS CONSULT WITH EDC ENGINEERING

NOTES:

1. Use 4146 loading as above for combinations of 4144, 4145, 4146, 4124, 4125 and 4126 frames used in one tower.
2. Total screw jack adjustment is the sum of adjustment Top & Bottom = A+B.
3. The above allowable leg loads reflect a 2.5:1 safety factor.
4. Reduce the above allowable loads 10% when using 02xx-12, 13 or 15 cross braces (special application.)
5. Reduce the above allowable loads 20% when using 0215-07 straddle brace in one level of a tower - no reduction necessary for 0215-10 straddle braces (special application.)
6. When staffs are used, consult with EDC Engineering.
7. Final shoring layouts should always be reviewed and approved by a licensed professional engineer prior to installation.

* Check that screws do not meet inside of frame leg.



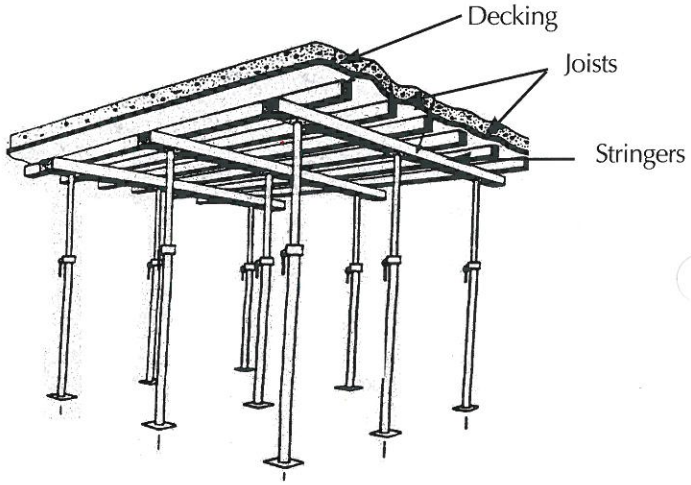
Complete Shoring Systems

Adjustable Steel Post Shores

Easy to handle. Quickly erected.
No tools required. Safer than wood.
Compact design for economical shipping and storage.

Adjustable Steel Shores provide an efficient and economical method of shoring. They are also very valuable for a wide variety of other applications in general building construction, repair and maintenance work.

- No loose parts
- Long lasting steel construction
- Weatherproof
- Rot proof
- Fireproof
- Self-cleaning collars
- High-load capacity at all heights.
- High safety factor
- Infinite height adjustment
- Head and base plates drilled for nailing.

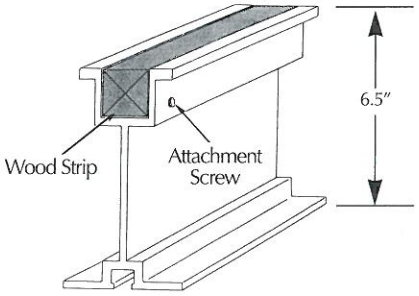


Capacities at safe loads — Factor of safety 2.5 to 1

Size	Wt.	Closed	Open	Capacity (lbs.)	
				Closed	Open
600	37	3′-6″	5′-6″	8000	7700
601	42	5′-10″	9′-10″	8300	6300
602	44	6′-10″	10′-10″	8000	5200
603	48	7′-3″	12′	8000	5000
603X	58	8′-9″	13′	8000	4700
606	64	9′-6″	16′	8000	4000

Approved NYC Board of Standard & Appeals Cal#122-63 SM

Aluminum Horizontal Shores



ALUMINUM JOIST

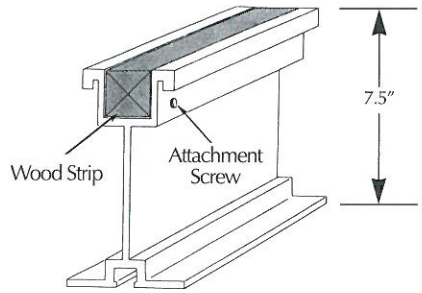
WT. PER LINEAL FOOT: 4 LBS.

ALUMINUM JOIST

Span	Allowable Deflection (inches)	Simple Span (lbs./ft.)
4′0″	0.13	3080R
4′6″	0.15	2740R
5′0″	0.17	2020*
5′6″	0.18	1510*
6′0″	0.20	1160*
6′6″	0.22	920*
7′0″	0.23	730*
7′6″	0.25	595*
8′0″	0.27	490*
8′6″	0.28	405*
9′0″	0.30	345*
9′6″	0.32	295*
10′0″	0.33	250*
	△=L/360	

Beam Load Span Table

R = Reaction Governs
* = Deflection Governs



ALUMINUM STRINGER BEAM

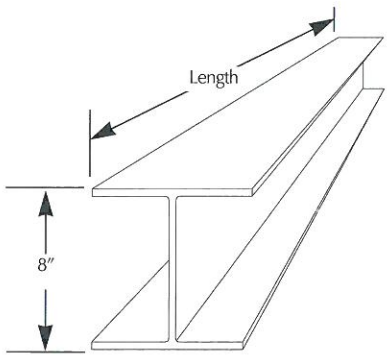
WT. PER LINEAL FOOT: 5.2 LBS.

ALUMINUM STRINGER BEAM

Span	Allowable Deflection (inches)	Simple Span (lbs./ft.)
4′0″	0.13	4050R
4′6″	0.15	3600R
5′0″	0.17	3240R
5′6″	0.18	2950R
6′0″	0.20	2333*
6′6″	0.22	1840*
7′0″	0.23	1465*
7′6″	0.25	1195*
8′0″	0.27	990*
8′6″	0.28	810*
9′0″	0.30	690*
9′6″	0.32	590*
10′0″	0.33	490*
	△=L/360	

Stringer Load Span Table

R = Reaction Governs
* = Deflection Governs



STEEL JUNIOR BEAM

W8X10 STEEL BEAM

WT. PER LINEAL FOOT: 10 LBS.

Guidelines for safe practices for Erecting & Dismantling of Frame Shoring*

It shall be the responsibility of all employers and users to read and comply with the following common sense guidelines which are designed to promote safety in the erection, dismantling and use of frame shoring. These guidelines are not all inclusive nor do they supplant or replace other additional safe and precautionary measures to cover usual or unusual conditions. If these guidelines conflict in any way with any state, local or federal statute or governmental regulation, said statute or regulation shall supersede these guidelines and it shall be the responsibility of each employee and user to comply therewith and also to be knowledgeable and understand all state, local or federal statutes or governmental regulations pertaining to frame shoring.

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. SURVEY THE JOB SITE. A survey by a qualified person shall be made of the job site for hazards, such as untamped earth fills, ditches, debris, high tension wires, unguarded openings, and other hazardous conditions. These conditions should be corrected or avoided as noted in the following sections.
D. PLAN SHORING ERECTION SEQUENCE in advance and obtain necessary access equipment to accomplish the work.
E. INSPECT ALL EQUIPMENT BEFORE USING. Never use any equipment that is damaged or defective in any way. Mark it or tag it as defective. Then remove it from the job site.
F. A SHORING DRAWING prepared by a person qualified to analyze the loading intended and consistent with the manufacturer's recommended safe working loads, shall be used on the job at all times.
G. ERECT, DISMANTLE OR ALTER SHORING only under the supervision of a qualified person.
H. DO NOT ABUSE OR MISUSE THE SHORING EQUIPMENT.
I. INSPECT ERECTED SHORING: (a) immediately prior to concrete placement; (b) during concrete placement and while vibrating concrete, and (c) after concrete placement until concrete is set.
J. NEVER TAKE CHANCES! IF IN DOUBT REGARDING THE SAFETY OR USE OF THE SHORING, CONSULT YOUR SHORING SUPPLIER.
K. USE SHORING EQUIPMENT only for the purposes or in ways for which it was intended. Use proper tools when installing equipment.
L. ERECTING AND DISMANTLING OF SHORING requires good physical condition. Do not work on shoring if you feel dizzy, unsteady in any way or are impaired in any way by drugs or any other substances.

GUIDELINES FOR ERECTION AND USE OF SHORING

A. PROVIDE AND MAINTAIN A SOLID FOOTING. The sills or cribbing for shoring shall be sound, rigid and capable of carrying the maximum design load without setting or moving.
B. ALWAYS USE BASE PLATES. When sills or cribbing are used, base plates must be centered on them.
C. ADJUSTING SCREWS SHALL BE USED to adjust to uneven grade conditions. Maintain all screw adjustments within the recommended height for the design load.
D. PLUMB AND LEVEL ALL SHORING FRAMES as the erection proceeds. DO NOT force braces on frames - level the shoring towers until proper fit can be made. Maintain all shoring towers plumb and level.
E. MAINTAIN THE SHORE FRAME SPACINGS OR TOWER HEIGHTS as shown on the shoring drawing. Where jobsite conditions require deviations from the shoring drawing, consult a qualified person.
F. IF MOTORIZED CONCRETE EQUIPMENT is to be used, be sure that the shoring layout has been designed for use with this equipment and such fact is noted on the layout.
G. USE CAUTION WHEN ERECTING FREE-STANDING TOWERS. Prevent tipping by guying or bracing when height exceeds 4 times the minimum base dimension.
H. GIVE SPECIAL CONSIDERATION TO TEMPORARY LOADING. Areas where re-bar, material or equipment is to be stored temporarily may need to be strengthened to meet these loads.
I. DO NOT CLIMB CROSS BRACES. Use proper access equipment.
J. USE SPECIAL PRECAUTIONS when shoring form or to sloped surfaces.
K. USE ADJUSTMENT DEVICE ON TOP OF LEG to position the falsework - not the bottom adjusting screw.
L. SHORING LOADS ARE INTENDED TO BE CARRIED BY VERTICAL LEGS. Horizontal loading may require special consideration. Consult your shoring supplier for allowable loads on horizontal members.
M. AVOID ECCENTRIC LOADS on U-heads, top plates and similar members by centering stringer loads on those members.

GUIDELINES FOR DISMANTLING SHORING

A. DO NOT REMOVE BRACES OR BACK OFF ON ADJUSTMENT SCREWS until proper authority is given.
B. DISMANTLED EQUIPMENT should be stockpiled in a planned manner and distributed to avoid concentrated loads on the partially cured concrete.
C. USE PROPER ACCESS EQUIPMENT in the dismantling process.

RESHORING

A. RESHORING PROCEDURE should be approved by a qualified professional engineer.

Reprinted from the Scaffold Industry Association.

*These guidelines set forth some common sense procedures for safely erecting, dismantling and using frame shoring equipment. Since equipment and shoring systems differ, reference must always be made to the instructions and procedures of the supplier and/or manufacturer of the equipment. Since field conditions vary, and are beyond the control of the Scaffolding, Shoring & Forming Institute and Scaffold Industry Association, safe and proper use of equipment is the sole responsibility of the employer and user.

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