

**Manufacturers Tabulated Data
SHORING PLATE-8'x14.69**

PANNEL LENGTH	14.67 FT
PANNEL DEPTH	8 FT
PANNEL THICKNESS	5 in
ALLOWABLE SHORING PLATE LOADING	2372 PSF
SOIL TYPE	ALLOWABLE DEPTH
SOIL TYPE A-25	95 FT
SOIL TYPE B-45	53 FT
SOIL TYPE C-60	40 FT
SOIL TYPE C-80	30 FT

SHORING PLATE DESIGN

MATERIAL American tube TS 7x5x1/2"

DEPTH	7 in	
WIDTH	5 in	
THICKNESS	0.375 IN	
Sy	12.3 IN ³	
Fy	42 ksi	USA A500 GR B

Fb= $1.33^* \times .66 \times Fy = 36.31$ * Uses 1/3 increase for use less than 6 months

WIDTH FACTOR (WF) 12/DEPTH 1.714286

M = 26.90111 w

Sy x Fb x WF = 64 K-FT

**SAN DIEGO
SHORING**

San Diego Shoring, Inc.
7304 Mission George Road

Phone (619) 286-9701
Toll Free (800) 321-5285

San Diego, CA. 92120

**J.M. TURNER ENGINEERING, INC.
CONSULTING ENGINEERS**



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4534 S.E. 17th AVE., PORTLAND, OR. 97202
(503) 234-2402 FAX (503) 234-2326

**SHORING PLATE TABULATED DATA
SHORING PLATE-8'x14.69**

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**Manufacturers Tabulated Data
SHORING PLATE-8'x16.4**

PANNEL LENGTH	16.4 FT
PANNEL DEPTH	8 FT
PANNEL THICKNESS	5 in
ALLOWABLE SHORING PLATE LOADING	
	1898 PSF
SOIL TYPE	ALLOWABLE DEPTH
SOIL TYPE A-25	76 FT
SOIL TYPE B-45	42 FT
SOIL TYPE C-60	32 FT
SOIL TYPE C-80	24 FT

SHORING PLATE DESIGN

MATERIAL American tube TS 7x5x1/2"

DEPTH	7 in	
WIDTH	5 in	
THICKNESS	0.375 IN	
Sy	12.3 IN ³	
Fy	42 ksi	USA A500 GR B

Fb= $1.33^* \times .66 \times Fy =$ 36.31

* Uses 1/3 increase for use less than 6 months

WIDTH FACTOR (WF) 12/DEPTH 1.714286

M = 33.62 w

Sy x Fb x WF = 64 K-FT

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**SHORING PLATE TABULATED DATA
SHORING PLATE-8'x16.4**

**Manufacturers Tabulated Data
SHORING PLATE-8'x18.04'**

PANNEL LENGTH	18.04 FT
PANNEL DEPTH	8 FT
PANNEL THICKNESS	5 in
ALLOWABLE SHORING PLATE LOADING	1568 PSF
SOIL TYPE	ALLOWABLE DEPTH
SOIL TYPE A-25	63 FT
SOIL TYPE B-45	35 FT
SOIL TYPE C-60	26 FT
SOIL TYPE C-80	20 FT

SHORING PLATE DESIGN

MATERIAL American tube TS 7x5x1/2"

DEPTH	7 in	
WIDTH	5 in	
THICKNESS	0.375 IN	
Sy	12.3 IN ³	
Fy	42 ksi	USA A500 GR B

Fb= 1.33* x .66 x Fy = 36.31

* Uses 1/3 increase for use less than 6 months

WIDTH FACTOR (WF) 12/DEPTH 1.714286

M = 40.6802 w


Sy x Fb x WF = 64 K-FT

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SHORING PLATE TABULATED DATA

SHORING PLATE-8'x18.04'

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**Manufacturers Tabulated Data
SHORING PLATE-8'x20.5'**

PANNEL LENGTH	20.5 FT
PANNEL DEPTH	8 FT
PANNEL THICKNESS	5 in
ALLOWABLE SHORING PLATE LOADING	1215 PSF
SOIL TYPE	ALLOWABLE DEPTH
SOIL TYPE A-25	49 FT
SOIL TYPE B-45	27 FT
SOIL TYPE C-60	20 FT
SOIL TYPE C-80	15 FT

SHORING PLATE DESIGN

MATERIAL American tube TS 7x5x1/2"

DEPTH	7 in	
WIDTH	5 in	
THICKNESS	0.375 IN	
Sy	12.3 IN ³	
Fy	42 ksi	USA A500 GR B

Fb= $1.33^* \times .66 \times Fy =$ 36.31 * Uses 1/3 increase for use less than 6 months

WIDTH FACTOR (WF) 12/DEPTH 1.714286

M = 52.53125 w

Sy x Fb x WF = 64 K-FT

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**SHORING PLATE TABULATED DATA
SHORING PLATE-8'x20.5'**

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**Manufacturers Tabulated Data
SHORING PLATE-8' & 4' pannels**

Load Rating (PSF)							
Length (FT)	width (FT)	Thickness (Inches)	PSF	Allowable Depth at Maximim Load (FT)			
				A-25	B-45	C-60	C-80
20.5	8	5	1215	49	27	20	15
18.04	8	5	1568	63	35	26	20
16.4	8	5	1898	76	42	32	24
14.67	8	5	2372	95	53	40	30
13.12	8	5	2965	119	66	49	37
20.5	4	5	1215	49	27	20	15
18.04	4	5	1568	63	35	26	20
16.4	4	5	1898	76	42	32	24
14.67	4	5	2372	95	53	40	30
13.12	4	5	2965	119	66	49	37

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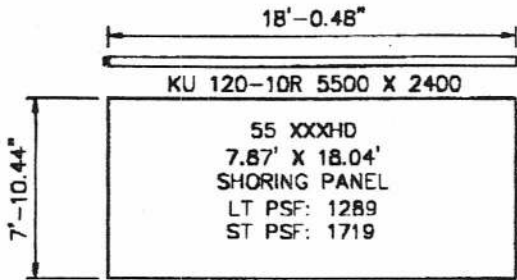
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**SHORING PLATE TABULATED DATA
SHORING PLATE-8' & 4' pannels**

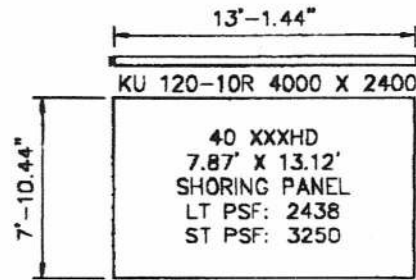
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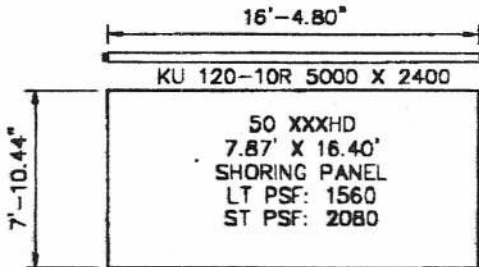
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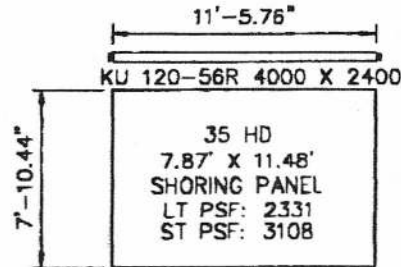
ALLOWABLE SOIL DEPTH:			LT	ST
TYPE A-25 SOIL	40 FT.	40 FT.		
TYPE B-45 SOIL	26 FT.	36 FT.		
TYPE C-60 SOIL	19 FT.	27 FT.		
TYPE C-80 SOIL	14 FT.	20 FT.		



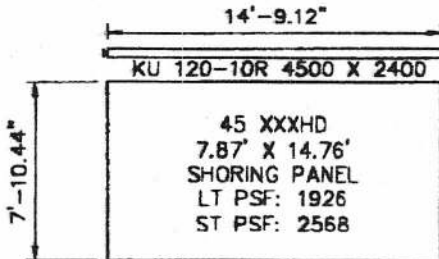
ALLOWABLE SOIL DEPTH:			LT	ST
TYPE A-25 SOIL	40 FT.	40 FT.		
TYPE B-45 SOIL	40 FT.	40 FT.		
TYPE C-60 SOIL	38 FT.	40 FT.		
TYPE C-80 SOIL	29 FT.	39 FT.		



ALLOWABLE SOIL DEPTH:			LT	ST
TYPE A-25 SOIL	40 FT.	40 FT.		
TYPE B-45 SOIL	33 FT.	40 FT.		
TYPE C-60 SOIL	24 FT.	33 FT.		
TYPE C-80 SOIL	18 FT.	25 FT.		



ALLOWABLE SOIL DEPTH:			LT	ST
TYPE A-25 SOIL	40 FT.	40 FT.		
TYPE B-45 SOIL	40 FT.	40 FT.		
TYPE C-60 SOIL	37 FT.	40 FT.		
TYPE C-80 SOIL	27 FT.	37 FT.		



ALLOWABLE SOIL DEPTH:			LT	ST
TYPE A-25 SOIL	40 FT.	40 FT.		
TYPE B-45 SOIL	40 FT.	40 FT.		
TYPE C-60 SOIL	30 FT.	40 FT.		
TYPE C-80 SOIL	22 FT.	30 FT.		

NOTES:

- ALL EXCAVATIONS SHALL BE IN CONFORMANCE WITH OSHA CFR 29, PART 1926, SUBPART P, MARCH 1992, AND CAL OSHA SAFETY ORDERS TITLE 8 SECTIONS 1504, 1539-1547.
- SOILS CLASSIFICATION SHALL BE IN COMPLIANCE WITH APPENDIX A IN OSHA CFR 29, PART 1926, SUBPART P. LATERAL EARTH PRESSURE SHALL BE DETERMINED AS FOLLOWS:

TYPE A-25 SOIL	25 PSF X DEPTH + SURCHARGE.
TYPE B-45 SOIL	45 PSF X DEPTH + SURCHARGE.
TYPE C-60 SOIL	60 PSF X DEPTH + SURCHARGE.
TYPE C-80 SOIL	80 PSF X DEPTH + SURCHARGE.
- SOIL ABOVE TOP OF SHORING PANEL TO BE SLOPED ACCORDING TO OSHA REGULATIONS.
- STRUTS MUST REMAIN IN PLACE WHILE SHORING PANEL IS IN EXCAVATION.
- SHORING PANEL MAY BE HELD 2' ABOVE THE BOTTOM OF THE TRENCH, HOWEVER LOADING SHALL BE DETERMINED FOR FULL TRENCH DEPTH.
- SURCHARGE LOAD TO BE DETERMINED BY A COMPETENT PERSON OR ENGINEER.
- SHORING PANEL LIFTING SYSTEMS SHALL BE DESIGNED FOR SHORING PANEL AND STRUT WEIGHT + AN APPROPRIATE FACTOR OF SAFETY.
- SHORT TERM IS LESS THAN 48 HOURS.

SPECIAL NOTES:

ALLOWABLE DEPTHS INCLUDE 100 PSF SURCHARGE.
 ALL MATERIAL; $F_y = 52$ KSI STEEL.
 THICKNESS OF PANELS = 4.72".

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DATE: 12/12/97	DRAWN BY: A.J.V.	CHK'D BY: J.M.T.	JOB NO: KRINGS-P1
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