

* FOR REACTION ≥ 1000 KIPS

USE 2" STIFFENERS.

400 K ≤ REACTION < 1000 K. USE ³/₈" WELD. 1000 K ≤ REACTION ≤ 1500 K. USE ³/₈" WELD.

TABLE OF DIMENSIONS

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REACTION (KIPS)	A	В	с	D	E	G VALUES											r		PINTLE						
						G=1'-7"		G=1'-9"		G=1'-11"		G=2'-1"		G=2'-3"		G=2'-5"		н	к	м	R	├ ── ┌ ──		↓	
						F	L	F	L	F	L	F	L	F	L	F	L					STEM	PLATE	P DIA.	Q
400-499	1 ¹⁵ / ₁₆ "	2 ¹⁵ / ₁₆ "	3"	1'-2"	27/8"	2'-0"	2'-11"	2'-2"	2'-11"	2'-4"	3'-0"	2'-6"	3'-2"		_	_	—	1'-7½"	1'-6"	27/8"	1'-1"	1 ¹ 1⁄16"	14%,"	2"	3½"
500-599	1 ¹⁵ / ₁₆ "	2 ¹⁵ / ₁₆ "	3"	1'-2"	27/8"	2'-1"	3'-4"	2'-2"	3'-4"	2'-4"	3'-4"	2'-6"	3'-4"	—	-	—	—	1'-8½"	1'-7"	27/8"	1'-2"	1 ¹ / ₁₆ "	14%4"	2"	3½"
600-699	1 ¹⁵ / ₁₆ "	2 ¹⁵ / ₁₆ "	3"	1'-2"	27/8"	-	-	2'-3"	3'-8"	2'-4"	3'-8"	2'-6"	3'-8"	2'-8"	3'-8"	—	—	1'-9½"	1'-8"	27/8"	1'-3"	1 ¹ / ₁₆ "	14%4"	2"	3½"
700-799	2¾6"	37⁄16"	3½"	1'-4"	3¾"	-	_	_	_	2'-6"	3'-10"	2'-6"	3'-10"	2'-8"	3'-10"	2'-10"	3'-10"	1'-11½"	1'-10"	3%"	1'-4"	1 ¹ 5⁄ ₁₆ "	1 ⁶ ‰"	2"	3½"
800-899	23⁄16"	37/16"	3½"	1'-4"	3%"	-	-	_	_	2'-7"	3'-11"	2'-7"	3'-11"	2'-8"	3'-11"	2'-10"	3'-11"	2'-0½"	2'-0"	3%"	1'-5"	11½"	1 ⁶ ‰"	2"	3½"
900-999	2 ³ ⁄16"	37⁄16"	31⁄2"	1'-4"	3%"	-	_		_	2'-11"	4'-0"	2'-11"	4'-0"	2'-11'	4'-0"	2'-11"	4'-0"	2'-1½"	2'-2"	3%"	1'-6"	11½"	1 ⁶¹ ⁄ ₆₄ "	2"	3½"
1000-1099	27/16"	3 ¹ 3⁄16"	4"	1'-6"	3%"	-	_	_	_	_	_	3'-1"	4'-1"	3'-1"	4'-1"	3'-1"	4'-1"	2'-3½"	2'-4"	37/8"	1'-7"	2¾ ₁₆ "	2 ¹³ ⁄ ₆₄ "	21⁄2"	3¾"
1100-1199	27/16"	3 ¹ 5⁄ ₁₆ "	4"	1'-6"	37/8"	-	-	—	-	—	-	3'-3"	4'-2"	3'-3"	4'-2"	3'-3"	4'-2"	2'-4½"	2'-6"	37/8"	1'-8"	2¾ ₁₆ "	2 ¹ ‰"	21⁄2"	3¾"
1200-1299	27/16"	3 ¹⁵ / ₁₆ "	4"	1'-6"	3%"	-	-	—	—	—	-	—	—	3'-5"	4'-4"	3'-5"	4'-4"	2'-5½"	2'-7"	3%"	1'-9"	23⁄16"	2 ¹ %4"	21/2"	3¾"
1300-1399	27/16"	3 ¹⁵ / ₁₆ "	4"	1'-6"	37/8"	-	-	—	-	—	—	—	—	3'-7"	4'-7"	3'-7"	4'-7"	2'-6½"	2'-8"	37/8"	1'-10"	2¾6"	2 ¹ ‰"	21⁄2"	3¾"
1400-1500	27/16"	3 ¹⁵ / ₁₆ "	4"	1'-6"	37/8"	_	_	_	_	_	-	_	_	3'-9"	4'-9"	3'-9"	4'-9"	2'-7½"	2'-9"	37/3"	1'-11"	23/16"	2 ¹ ‰4"	2½"	3¾"
						G=:	1'-2"			G=:	1'-3"			G=	1'-4"										
0-300	1 ¹⁵ / ₁₆ "	2 ¹⁵ / ₁₆ "	3"	1-0"	2¾"	1'-7"	2'-3"			1'-8"	2'-4"			1'-9"	2'-5"			1'-5"	1'-4"	2%"	11"	1 ¹ / ₁₆ "	145%4"	2"	3½"

NOTES

FABRICATOR MAY INCREASE 'BASE PLATE' THICKNESS AS AN ALTERNATE TO SHIMS.

ALL STRUCTURAL STEEL BEARING PLATES SHALL BE FLAT ROLLED STEEL PLATES WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT, AND VERTICAL.

ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS. ON WELDED BEARINGS, FINAL MACHINING CAN BE PERFORMED BEFORE WELDING IS COMPLETED.

ALL MATERIAL IN TYPE "B" ROCKER BEARINGS, INCLUDING SHIMS, SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "BEARING ASSEMBLIES EXPANSION B-_-_".

ALL MATERIALS FOR BEARINGS INCLUDING SHIMS BUT EXCLUDING PINTLES, ANCHOR BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM SPECIFICATION TYPE A709 GRADE 50W STEEL.

PINTLES SHALL CONFORM TO ASTM SPECIFICATION TYPE A449

ALL ANCHOR BOLTS, NUTS, AND WASHERS SHALL CONFORM TO ASTM SPECIFICATION TYPE A709 GROBS SEG STEEL ANOHOR BOLTS SHALL BE THERADED 3'. PROVIDE ONE STANDARD WROUGHT WASHER AND ONE HEX NUT FRE BOLT PROJECT ANOHOR BOLTS'''N "PATE THICKNESS + 2½" ABOVE TOP OF CONCRETE MASONRY. CHAMFER ANCHOR BOLTS PRIOR TO THERADING.

RADIAL SURFACES ON ROCKER SHALL BE MACHINE FINISHED AFTER WELDING.

ALL SURFACES MARKED " ${\cal S}^{\rm m}$ Shall be machine finished by an automatic process. The contact area of bottom surface of the girder flange shall be machine finished.

ANCHOR BOLT EDGE DISTANCE ALONG "L" MAY BE INCREASED FROM MINIMUM SHOWN WHEN A COMMON GRID DETAIL IS DESIRED FOR SEVERAL BEARINGS.

FOR UNPAINTED STRUCTURES THE UPPER 6" OF ANCHOR BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED AS REQUIRED BY ASTM DESIGNATION A153, CLASS C OR B633.

USE AASHTO LRFD SERVICE I LOADS FOR BEARING SELECTION. CONSIDER ONLY DEAD LOAD AND HL-93 LIVE LOADS INCLUDING 33% DYNAMIC LOAD ALLOWANCE. THE BEARINGS ON THIS STANDARD WERE DESIGNED USING THE STANDARD SPECIFICATION.

ROCKER SETTING DATA

MPERATURE TIME OF ETTING - "F												
S	PIER	PIER	PIER	PIER								
120												
100												
80												
60												
40												
20												
0												
-20												

ROCKER BEARING SHALL BE SET VERTICAL AT 45° F.

ROCKER BEARING SHALL BE USED WITH A MINIMUM FRICTION VALUE OF 2% AND A MAXIMUM FRICTION VALUE OF 4%.

MAXIMUM MOVEMENT FROM 45° F = (D - 1")/2 BUT ACTUAL MOVEMENT NOT TO EXCEED R/3.

 OR MATERIAL OF EQUIVALENT YIELD STRENGTH AND ELONGATION.



STANDARD 40.21