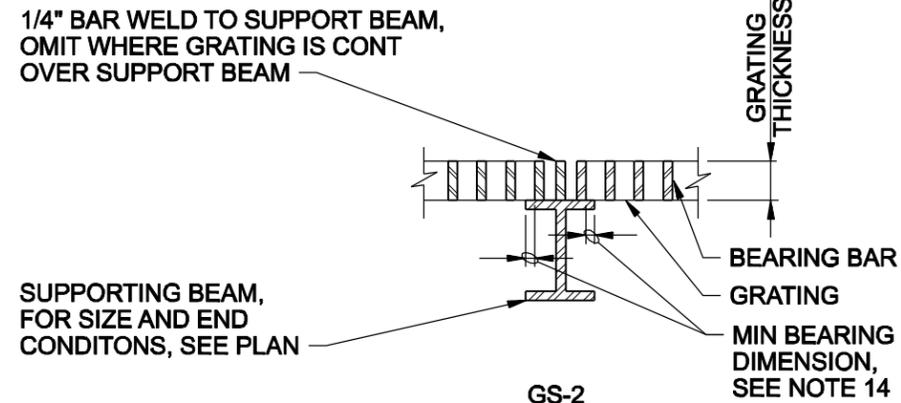
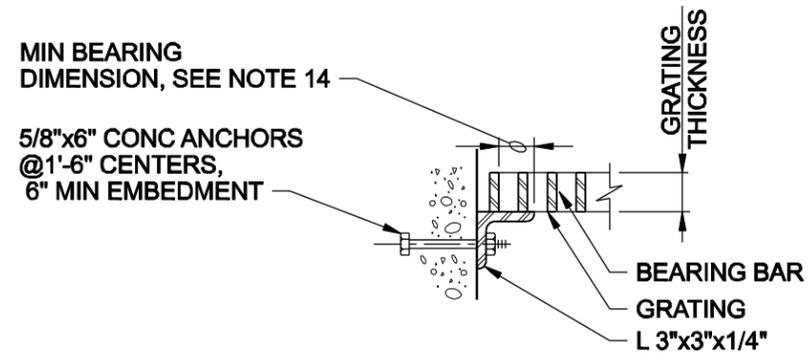


GS-1



GS-2

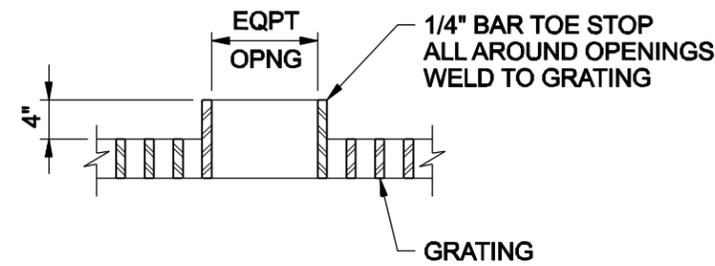


GS-3

NOTE:
USE GS-3 ONLY FOR FOOT TRAFFIC GRATING.

GENERAL NOTES:

1. EXTEND GRATING CONTINUOUSLY OVER GATE GUIDES AND GATES.
2. NOTCH GRATING SUPPORTS AT GATES AS REQUIRED.
3. GRATING SPAN ← SEE PLAN.
4. WIDTH OF GRATING SECTIONS SHALL NOT EXCEED 3'-0".
5. SHOP DRAWINGS BASED ON FIELD DIMENSIONS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO FABRICATION.
6. MATERIAL FOR SUPPORTS OF STEEL AND ALUMINUM GRATING TO BE SAME AS GRATING, EXCEPT METAL SUPPORTS THAT ARE TO BE EMBEDDED IN CONCRETE SHALL BE TYPE 316 STAINLESS STEEL.
7. UNLESS NOTED OTHERWISE ON PLANS, GRATING THICKNESS SHALL BE AS TABULATED IN "GRATING THICKNESS TABLE" FOR APPLICABLE TRAFFIC.
8. BEARING BAR THICKNESS FOR GRATING TO BE 3/16" MINIMUM.
9. BAND ALL EDGES WITH 3/16 x DEPTH OF BEARING BAR.
10. PROVIDE MISCELLANEOUS GRATING FASTENERS AS REQUIRED.
11. TYPE OF MATERIAL USED SHALL BE AS SHOWN ON PLANS OR AS SPECIFIED. THIS STANDARD DETAIL INCLUDES 2 TYPES, ALTHOUGH BOTH MAY NOT BE INCLUDED IN PROJECT.
12. THE HORIZONTAL CLEARANCE BETWEEN THE GRATING AND GRATING SUPPORTS SHALL NOT BE LESS THAN 1/4" NOR GREATER THAN 1/2" AND AS SPECIFIED.
13. ALL GRATING SECTIONS, WHEN IN PLACE, SHALL ALWAYS BE FIRMLY ANCHORED TO THEIR SUPPORTS AS SPECIFIED.
14. MIN BEARING HORIZONTAL DIMENSION = 1" FOR GRATING DEPTH 2 1/4" OR LESS, MIN BEARING HORIZONTAL = 2" FOR GRATING DEPTH GREATER THAN 2 1/4"



EQUIPMENT OPENINGS

FOOT TRAFFIC		
GRATING THICKNESS TABLE		
MAXIMUM SPAN	ALUMINUM	STEEL
3'-6"	1 1/4"	1"
4'-0"	1 1/2"	1"
4'-6"	1 3/4"	1"
5'-0"	1 3/4"	1 1/4"
5'-6"	2"	1 1/4"
6'-0"	2 1/4"	1 1/2"
6'-6"	2 1/4"	1 1/2"
7'-0"	2 1/2"	1 3/4"

HEAVY VEHICULAR TRAFFIC (HS 20-44)		
MAXIMUM SPAN	STEEL	ALUMINUM
1'-0"	2"x3/16"	DO NOT USE ALUMINUM GRATING
1'-8"	2 1/2"x1/4"	
2'-0"	2 1/2"x3/8" OR 3"x1/4"	
2'-6"	3"x3/8" OR 4"x1/4"	
3'-3"	3 1/2"x3/8"	
4'-0"	4"x3/8"	
5'-0"	4 1/2"x3/8"	

LIGHT VEHICULAR TRAFFIC (WHEEL LOAD = 2000 POUNDS OR LESS)		
MAXIMUM SPAN	STEEL	ALUMINUM
1'-0"	1 3/4"x3/16"	1 3/4"x3/16"
1'-6"	1 3/4"x3/16"	1 3/4"x3/16"
2'-0"	2"x3/16"	2"x3/16"
2'-6"	2 1/4"x3/16"	2 1/4"x3/16"
3'-0"	2 1/2"x3/16"	2 1/2"x3/16"
4'-0"	2 1/2"x1/4"	DO NOT USE ALUMINUM GRATING
5'-0"	2 1/2"x3/8"	
6'-0"	2 1/2"x3/8"	
7'-0"	3"x3/8"	

VEHICULAR TRAFFIC NOTE:

STEEL GRATING BEARING BARS FOR VEHICULAR TRAFFIC SHALL BE SPACED AT 1 7/8" OC; ALUMINUM GRATING BEARING BARS FOR VEHICULAR TRAFFIC SHALL BE SPACED AT 1 3/16" OC.

SERRATED BEARING BARS:

INCREASE GRATING THICKNESSES SHOWN IN TABLES BY 1/4" FOR GRATING WITH SERRATED SLIP RESISTANT SURFACES.

STANDARD GRATING

NTS