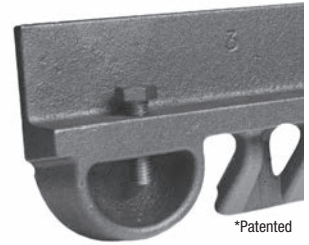


**R-4999**

**HEAVY DUTY BOLTED TRENCH WITH DEBRIS CHUTE**

Materials: All frames and grates/lids are furnished standard in gray iron, meeting ASTM A48 Class 35-B for heavy-duty use. For extra heavy-duty use or superior durability requirements, see our ductile iron Airport and Port Grating Series on pages 286.

Neenah recommends project designers avoid the use of light duty trench installations because it is likely that applications will be subjected to heavy delivery vehicle traffic at some time. Furthermore, the use of a site could be changed to heavy duty use patterns at some unanticipated future date.



\*Patented

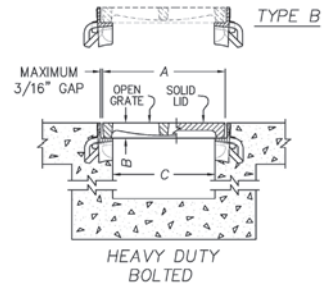
Dimensions in inches

Bolted Catalog No.	A	B	C	Type A	Type C	Type D	Type E	Type P	Type Q
R-4999-AX	8	1 1/2	6	x	x	x	x	x	
R-4999-BX	10	1 1/2	8	x	x	x	x	x	
R-4999-CX	12	1 1/2	10	x	x	x	x	x	x
R-4999-DX	14	1 1/2	12	x	x	x	x	x	x
R-4999-EX	17	1 1/2	15	x	x	x	x	x	
R-4999-FX	20	1 1/2	18	x	x	x	x	x	
R-4999-GX	23	1 1/2	21	x	x*	x			
R-4999-HX	26	1 1/2	24	x	x*	x	x		x
R-4999-JX	30	2	27	x	x	x			
R-4999-KX	33	2	30	x	x	x*	x		
R-4999-LX	36	2	33	x	x	x*			
R-4999-MX	39	2	36	x	x*	x			
R-4999-NX	45	2	42	x	x*	x			
R-4999-OX	51	2	48	x		x*			

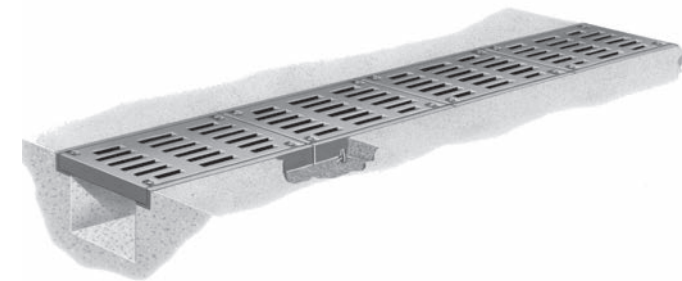
x - Indicates availability.

\* Deep Ribs (consult shop drawing for dimensions).

Deep Ribs = "B" dimension times 2 or greater.



General schematic shown may not apply to all designs. Bar and rib depths, plate thicknesses, and seating widths vary on different sizes and styles. If your project has design restrictions, contact your sales representative or product engineering.



Illustrating Type C bolted trench. Bolted trench sections are furnished in 24" standard lengths. When bolted trench is furnished, they are shipped assembled – AT NO TIME should the units be disassembled during installation. When removing covers, do not mix or rotate 180 degrees as bolt holes may lose alignment and improper bearing may occur.

Note: In Type A and P grates the slots are perpendicular to the trench run. In Type C and Q grates the slots are parallel to the trench run.

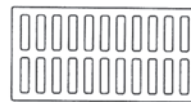
**Read Carefully Before Ordering**

The various standard trench drains are available with a number of alternatives. It is important to examine all of the variables carefully and specify your requirements fully. Your order will be entered correctly and promptly if it includes the following information:

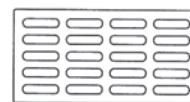
- Complete catalog number
- Frame end pieces, when required
- Type of Lid or Grate: A, C, D, E, P or Q
- Length of trench sections
- Angles and intersections \*
- Load requirements

\*Trenches with angles, intersections, size changes or other special requirements require detail drawings prior to ordering. Contact your sales representative or product engineering for assistance.

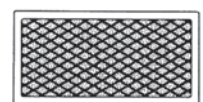
800-558-5075



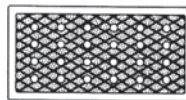
TYPE A GRATE OPENINGS



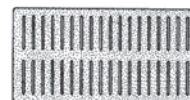
TYPE C GRATE OPENINGS



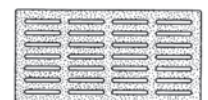
TYPE D SOLID LID



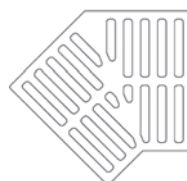
TYPE E VENTED LID



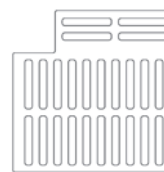
TYPE P GRATE OPENINGS



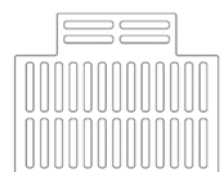
TYPE Q GRATE OPENINGS



TYPE A 45 DEGREE INTERSECTION PC.



TYPE A 90 DEGREE INTERSECTION PC.



TYPE A "T" INTERSECTION PC.

Note: 45°, 90° and "T" available in limited sizes and types.