

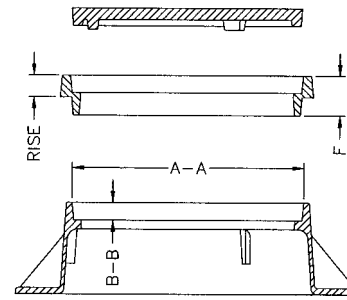
R-1979 Series Manhole Adjusting Rings

Heavy Duty

For raising manhole covers when pavement is resurfaced.

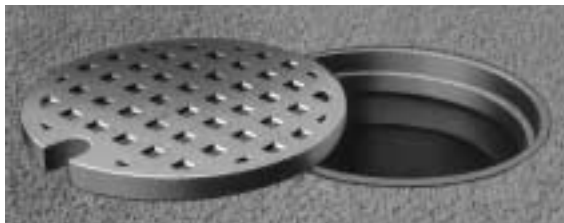
Adjusting rings or extension rings, as they are sometimes called, eliminate the necessity of raising or replacing existing manhole frame on resurfacing projects. The cover recess is the same depth and diameter as the existing manhole frame. Amount of raise coincides with thickness of resurfacing material, thereby bringing the manhole lid to new position flush with refinished roadway surfaces.

Manhole adjusting rings can be placed rapidly and are a permanent installation. Use of adjusting rings may reduce raising costs to as little as 20% of digging up the old manhole frame and resetting it to new grade.

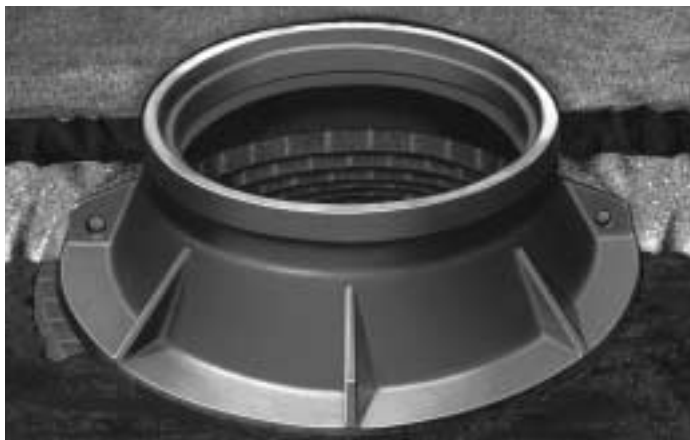


CAUTION-WHEN ORDERING.

Be sure existing lid diameters are smaller than "AA" dimension as shown in table. "AA" dimension in table is opening size in extension ring. Your lid should measure 1/4" to 3/8" less in diameter than this dimension.



Adjusting Ring Installed



Cutaway View of Adjusting Ring Installation

Dimensions in inches					
A-A	B-B	F	RISE	Reference No.	Previous Catalog No.
7 5/8	2	2 7/8	1	1913-7100	
7 5/8	2	3 3/8	1 1/2	1913-7150	
9 5/16	5/8	2 1/8	1 1/2	1979-0245	
9 5/16	5/8	2 5/8	2	1979-0246	
18 3/8	1	3	1 15/16	1979-0166	
18 3/8	1	4	2 15/16	1979-0167	
21 1/2	1	3	2	1979-0008	R-1979-A1
21 1/2	1	3 1/2	2 1/2	1979-0115	R-1979-A2
21 1/2	1	4	3	1979-0022	R-1979-A3
21 3/4	1	2 31/32	2	1915-7200	**
21 7/8	1 1/4	3 1/8	2	1692-7200	
22 1/8	1 1/8	3 1/8	2	1979-0223	
22 1/4	1 1/2	3 1/2	2	1500-7200	
22 1/4	1 1/2	3 1/2	2	1979-0035	*
22 1/4	1 1/2	4	2 1/2	1500-7250	
22 1/4	1 1/2	4	2 1/2	1979-0036	*
22 1/4	1 1/2	4 1/2	3	1500-7300	
22 1/4	1 1/2	4 1/2	3	1979-0119	*
22 5/16	1 1/2	3	1 1/2	1979-0270	*
22 3/8	1	3	2	1979-0258	
22 1/2	1	2 1/2	1 1/2	1979-0014	
22 1/2	1	5	4	1979-0215	
22 1/2	1 1/2	3 1/2	2	1979-0034	R-1979-C1
22 1/2	1 1/2	4 1/2	3	1979-0116	R-1979-C3
22 3/4	1 1/2	3 1/2	2	1979-0047	R-1979-D1
22 3/4	1 1/2	4	2 1/2	1979-0131	R-1979-D2
22 3/4	1 1/2	4 1/2	3	1979-0019	R-1979-D3
22 3/4	1 3/4	3 3/4	2	1979-0129	*
22 3/4	1 3/4	4 3/4	3	1979-0170	*
22 7/8	1 1/2	3 1/8	1 9/16	1661-7158	†
22 7/8	1 1/2	2 1/2	2	1661-7100	
23	1 1/2	3 1/2	2	1661-7200	
23	1 1/2	4	2 1/2	1979-0004	R-1979-E2
23	1 1/2	4 1/2	3	1979-0005	R-1979-E3
23	1 3/4	2 3/4	1	1713-7100	
23	1 3/4	3 1/4	1 1/2	1713-7150	
23	1 3/4	3 3/4	2	1713-7200	
23	1 3/4	4	2 3/16	1979-0177	
23	1 3/4	4 1/4	2 7/16	1979-0178	
23	1 3/4	4	2 1/2	1713-7250	

R-1979 Series Manhole Adjusting Rings (Continued)

Dimensions in inches				Reference No.	Previous Catalog No.
A-A	B-B	F	RISE		
23	1 3/4	4 3/4	2 15/16	1713-7300	
23 1/8	1 3/4	4 1/4	2 1/2	1979-0139 *	
23 1/8	1 3/4	4 3/4	3	1979-0146 *	
23 1/4	1	2 1/4	1	1979-0079	
23 1/4	1	2 1/2	1 1/4	1979-0080	
23 1/4	1	2 3/4	1 1/2	1979-0081	
23 1/4	1 1/2	3	1 1/2	1550-7150	
23 1/4	1 1/2	3	1 1/2	1550-7151 *	
23 1/4	1 1/2	3 1/2	2	1550-7200	R-1979-F1
23 1/4	1 1/2	3 1/2	2	1550-7201 *	
23 1/4	1 1/2	4	2 1/2	1979-0010	R-1979-F2
23 1/4	1 1/2	4 1/2	3	1979-0106	R-1979-F3
23 3/8	1 1/2	4	2 1/2	1979-0128 *	
23 3/8	1 3/4	3 3/4	2	1979-0181 *	
23 7/16	1 1/2	3 1/2	2	1979-0006 *	
23 7/16	1 1/2	4 1/2	3	1979-0023 *	
23 1/2	1	2 5/8	1 1/2	1979-0180	
23 1/2	1	4	3	1797-7300	
23 1/2	1 1/2	3 1/2	2	1979-0024	R-1979-G1
23 1/2	1 1/2	4	2 1/2	1979-0025	R-1979-G2
23 1/2	1 1/2	4 1/2	3	1979-0026	R-1979-G3
23 3/4	1	2 5/8	1 5/8	1979-0275	
23 3/4	1	3	2	1979-0150	
24	1	2 1/2	1 7/16	1979-0265	
24	1	2 1/2	1 1/2	1979-0253	
24	1	2 9/16	1 1/2	0000-0034	
24	1	4	1 1/2	1979-0241	
24	1	2 5/8	1 5/8	1979-0065	
24	1	3	1 15/16	1979-0264	
24	1	3	2	1979-0066	
24	1	3 1/16	2	0000-0545	
24	1	4 1/2	2	1979-0254	
24	1	3 9/16	2 1/2	0000-1309	
24	1	4 1/4	2 1/2	1979-0273	
24	1	4 1/16	3	0000-0814	
24	1	5 1/2	3	1979-0243	
24	1 1/2	3 1/2	2	1979-0012	R-1979-H1
24	1 1/2	3 1/2	2	1979-0042 *	
24	1 3/4	4 1/4	2 1/2	1979-0046	R-1979-H2
24	1 3/4	4 3/4	3	1979-0044	R-1979-H3
24 3/16	1 1/8	2 9/16	1 7/16	1979-0145	
24 1/4	1	2 1/2	1 1/2	1979-0141	
24 1/4	1	3	2	1979-0143	
24 1/2	1 1/2	3 1/2	2	1979-0033	R-1979-J1
24 1/2	1 3/4	4 1/4	2 1/2	1979-0040	R-1979-J2
24 1/2	1 3/4	4 3/4	3	1979-0041	R-1979-J3
25	1	2 1/2	1 1/2	1979-0160	
25	1	3	2	1979-0171	
25	1	3 1/2	2	1979-0272	
25	1 1/2	3 1/2	2	1979-0058	R-1979-K1
25	1 3/4	4 1/4	2 1/2	1979-0134	R-1979-K2
25	1 3/4	4 3/4	3	1979-0144	R-1979-K3
25 5/16	1 1/2	3	1 1/2	1979-0271 *	

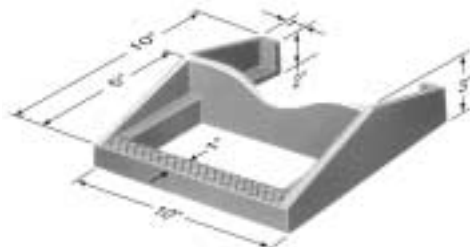
Dimensions in inches				Reference No.	Previous Catalog No.
A-A	B-B	F	RISE		
25 1/2	1 1/4	3 1/2	2	1979-0266	
25 1/2	1 1/4	4 1/4	2 3/8	1979-0158	
25 1/2	1 1/2	3 1/2	2	1979-0037	R-1979-L1
25 1/2	1 1/2	3 3/4	2	1979-0118 *	
25 1/2	1 1/2	4 3/4	3	1979-0117 *	
25 1/2	1 3/4	4 1/4	2 1/2	1979-0137	R-1979-L2
25 1/2	1 3/4	4 3/4	3	1979-0124	R-1979-L3
25 7/8	7/8	3 3/8	2 1/2	1979-0074	
25 7/8	7/8	4 3/8	3 1/2	1979-0076	
26	7/8	2 3/8	1 1/2	1979-0072	
26	7/8	2 7/8	2	1979-0073	
26	7/8	3 7/8	3	4353-0013	
26	1	2	1	1979-0278	
26	1	2 1/2	1 3/8	1979-0279	
26	1	3	1 7/8	1979-0280	
26	1 3/8	3 3/8	1 15/16	1979-0055	R-1979-M1
26	1 3/8	3 13/16	2 1/2	1979-0102	R-1979-M2
26	1 3/8	4 3/8	2 15/16	1979-0051	R-1979-M3
26	1 1/2	3 1/2	1 15/16	1979-0176	
26 1/8	1 1/2	3	1 1/2	1642-7150	
26 1/4	1 1/2	3 1/2	2	1642-7250	
26 1/4	1 1/2	4 1/2	3	1642-7300	
26 3/8	1 1/2	3 1/2	2	1642-7200	
26 3/8	1 1/2	3 1/2	2	1979-0207	
26 3/8	1 1/2	4 1/2	3	1979-0209	
27	1 3/8	3 3/8	2	1979-0062	
28	1	2 1/2	1 7/16	1979-0263	
28	1	3	1 15/16	1979-0250	
28	1	4	3	1979-0251	
28 1/4	1	3	2	1979-0091	
29	1 3/8	3 3/8	1 15/16	1979-0054	R-1979-N1
29	1 3/8	3 13/16	2 1/2	1979-0043	R-1979-N2
29	1 3/8	4 3/8	2 15/16	1979-0015	R-1979-N3
30 3/8	1 1/2	4 1/2	3	1979-0203	
31 15/16	1 3/4	3 3/4	2	1743-7200	
31 15/16	1 3/4	4 3/4	3	1743-7300	
32	1 3/8	3 3/8	1 15/16	1979-0053	R-1979-O1
32	1 3/8	4 3/8	2 15/16	1979-0052	R-1979-O3
32	1 3/4	3 1/4	1 1/2	1743-7150	
33 1/2	1 1/2	3 1/2	1 15/16	1979-0057	R-1979-P1
33 1/2	1 1/2	4 1/2	2 15/16	1979-0049	R-1979-P3
35 1/2	2	4 1/2	2 1/2	1979-0092	
36	1 1/4	2 1/4	1	1979-0268	
36	1 1/4	2 3/4	1 1/2	1979-0269	
36 1/2	1 1/2	3 1/2	1 15/16	1979-0056	R-1979-Q1
36 1/2	1 1/2	4 1/2	2 15/16	1979-0050	R-1979-Q3
38	1 1/2	3 1/2	2	1979-0093	
38 1/4	1 1/2	3 1/2	2	1979-0136	
39	1	3	2	1742-7200	
40 1/16	3	4 1/2	3 3/4	1979-0252	
SQUARE ADJUSTING RINGS					
16 3/4 x 22 1/4	1 3/4	4	2 1/4	3278-7225	
19 3/8 x 19 3/8	1 1/4	3 1/4	2	0000-1081	
22 3/4 x 45 3/8	2	4 7/16	2 1/2	3287-7250	

*Adjusting ring is for Non-Rocking feature.

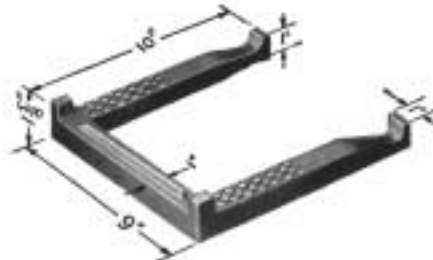
R-1980-1-2 Series Cast Iron Manhole Steps

Cast iron manhole steps shown in this series are designed for use in conical shaped sanitary sewer manholes equipped with standard cast iron frames and covers.

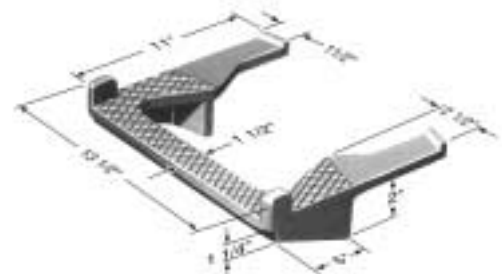
The R-1982-J and the R-1982-W steps can be used as a fixed ladder.



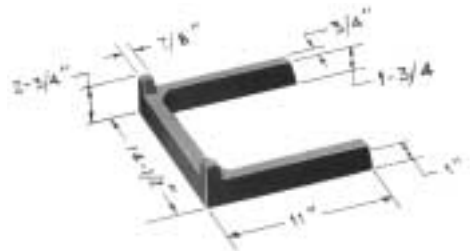
R-1980-E



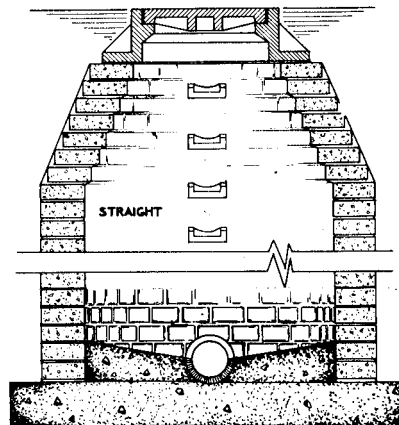
R-1980-C



R-1980-I For Circular Walls

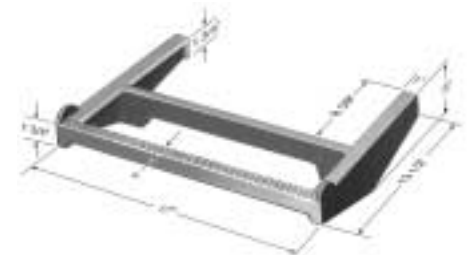


R-1980-J Heavy Construction

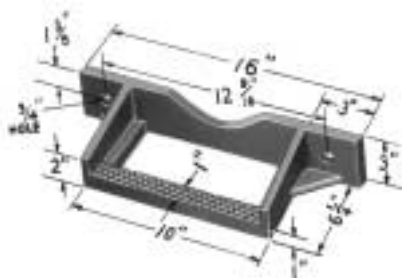


Steps should be installed in a vertical row on 16" centers.

Cast iron manhole steps are manufactured from high tensile iron which has a minimum **tensile strength of 35,000 lb. per square inch.** Actual load tests on castings have shown a generous safety factor. Cast iron steps remain permanently in service because of their inherent corrosion resistant qualities. Cast iron steps are easily installed in concrete, brick or block manholes. The tread is scored to meet safety requirements.



R-1980-M Note Wide Tread

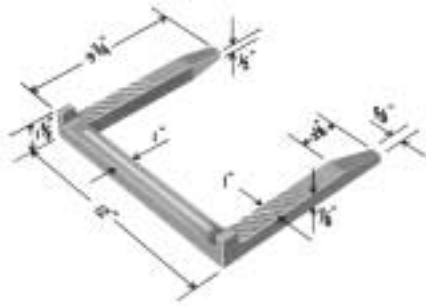


R-1980-T For Bolting

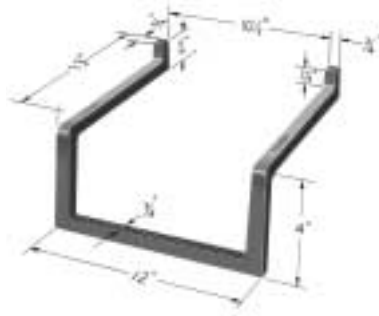


R-1981-J Wide Tread

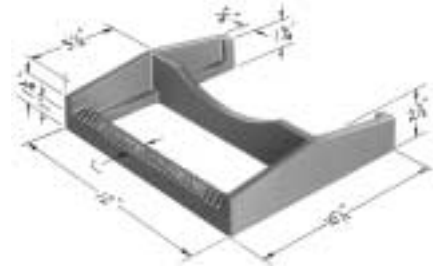
**R-1980-1-2 Series
Cast Iron Manhole Steps (Continued...)**



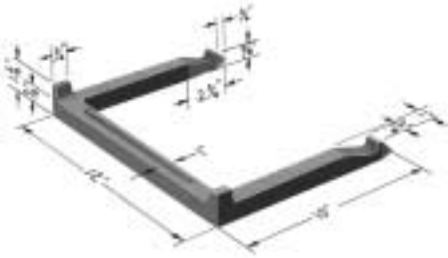
R-1981-N For Precast Manhole



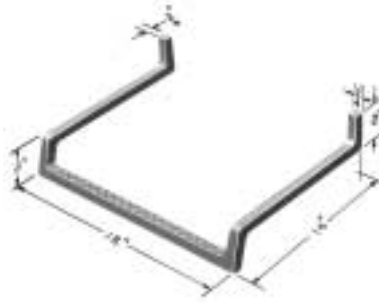
R-1981-W4 Ductile Iron For Precast Manhole



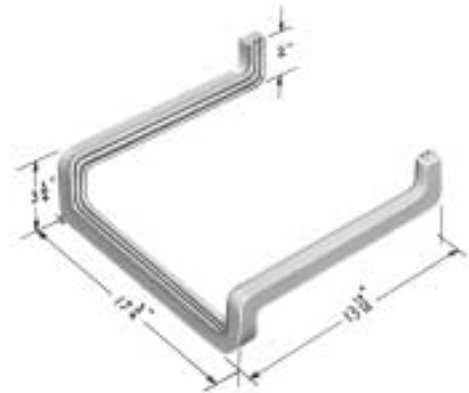
R-1981-Y For ALL Construction



R-1982-F For Precast Manhole



R-1982-J Ductile Iron



R-1982-W Extruded Aluminum