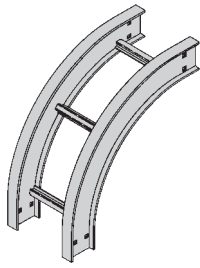
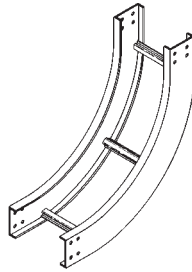


Vertical Bend 90° (VO, VI)

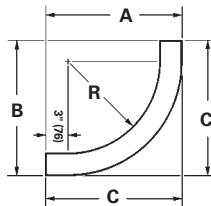
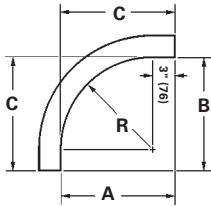
1 pair splice plates with hardware included.



90° Vertical Outside - VO



90° Vertical Inside - VI



Bend Radius R	Tray Width Insert	(*) Insert "VO" for Vert. Outside Bend "VI" for Vert. Inside Bend Catalog No.	VO Side Rail Height 4" - 7"			VI Side Rail Height													
						4"			5"			6"			7"				
			in./(mm)			in./(mm)			in./(mm)			in./(mm)			in./(mm)				
in./(mm)	in. (mm)		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C		
12 (305)	6 (152)	(Prefix)-06-90(*)12																	
	9 (228)	(Prefix)-09-90(*)12																	
	12 (305)	(Prefix)-12-90(*)12																	
	18 (457)	(Prefix)-18-90(*)12	15	15	15	19	19	19	20	20	20	21	21	21	22	22	22	22	
	24 (609)	(Prefix)-24-90(*)12	(381)	(381)	(381)	(483)	(483)	(483)	(508)	(508)	(508)	(533)	(533)	(533)	(559)	(559)	(559)	(559)	
	30 (762)	(Prefix)-30-90(*)12																	
	36 (914)	(Prefix)-36-90(*)12																	
42 (1067)	(Prefix)-42-90(*)12																		
24 (609)	6 (152)	(Prefix)-06-90(*)24																	
	9 (228)	(Prefix)-09-90(*)24																	
	12 (305)	(Prefix)-12-90(*)24																	
	18 (457)	(Prefix)-18-90(*)24	27	27	27	31	31	31	32	32	32	33	33	33	34	34	34	34	
	24 (609)	(Prefix)-24-90(*)24	(686)	(686)	(686)	(787)	(787)	(787)	(813)	(813)	(813)	(838)	(838)	(838)	(864)	(864)	(864)	(864)	
	30 (762)	(Prefix)-30-90(*)24																	
	36 (914)	(Prefix)-36-90(*)24																	
42 (1067)	(Prefix)-42-90(*)24																		
36 (914)	6 (152)	(Prefix)-06-90(*)36																	
	9 (228)	(Prefix)-09-90(*)36																	
	12 (305)	(Prefix)-12-90(*)36																	
	18 (457)	(Prefix)-18-90(*)36	39	39	39	43	43	43	44	44	44	45	45	45	46	46	46	46	
	24 (609)	(Prefix)-24-90(*)36	(991)	(991)	(991)	(1092)	(1092)	(1092)	(1118)	(1118)	(1118)	(1143)	(1143)	(1143)	(1168)	(1168)	(1168)	(1168)	
	30 (762)	(Prefix)-30-90(*)36																	
	36 (914)	(Prefix)-36-90(*)36																	
42 (1067)	(Prefix)-42-90(*)36																		
48 (1219)	6 (152)	(Prefix)-06-90(*)48																	
	9 (228)	(Prefix)-09-90(*)48																	
	12 (305)	(Prefix)-12-90(*)48																	
	18 (457)	(Prefix)-18-90(*)48	51	51	51	55	55	55	56	56	56	57	57	57	58	58	58	58	
	24 (609)	(Prefix)-24-90(*)48	(1295)	(1295)	(1295)	(1397)	(1397)	(1397)	(1422)	(1422)	(1422)	(1448)	(1448)	(1448)	(1473)	(1473)	(1473)	(1473)	
	30 (762)	(Prefix)-30-90(*)48																	
	36 (914)	(Prefix)-36-90(*)48																	
42 (1067)	(Prefix)-42-90(*)48																		

(Prefix) See page L-3 for catalog number prefix.

Width dimensions are to inside wall. For aluminum fittings add 1.5 inches (38mm) for total outside width.

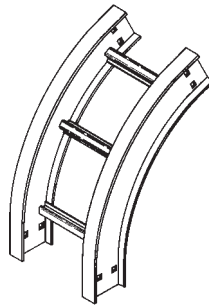
Manufacturing tolerances apply to all dimensions.

All dimensions in parentheses are millimeters unless otherwise specified.

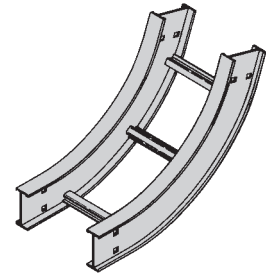
Series 2, 3, 4, & 5 - Fittings

Vertical Bend 60° (VO, VI)

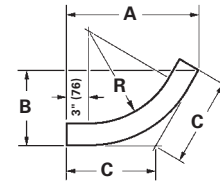
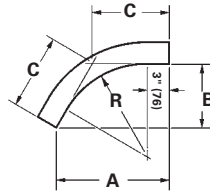
1 pair splice plates with hardware included.



60° Vertical Outside - VO



60° Vertical Inside - VI



Bend Radius R	Tray Width Insert	(*) Insert "VO" for Vert. Outside Bend "VI" for Vert. Inside Bend Catalog No.	VO Side Rail Height 4" - 7"			VI Side Rail Height											
			in./(mm)			4"			5"			6"			7"		
			A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
12 (305)	6 (152)	(Prefix)-06-60(*)12															
	9 (228)	(Prefix)-09-60(*)12															
	12 (305)	(Prefix)-12-60(*)12															
	18 (457)	(Prefix)-18-60(*)12	147/8	85/8	915/16	183/8	107/8	121/4	191/4	111/8	1213/16	201/16	115/8	133/8	2115/16	121/8	14
	24 (609)	(Prefix)-24-60(*)12	(378)	(219)	(253)	(467)	(270)	(311)	(489)	(283)	(326)	(510)	(296)	(340)	(557)	(308)	(356)
	30 (762)	(Prefix)-30-60(*)12															
	36 (914)	(Prefix)-36-60(*)12															
42 (1067)	(Prefix)-42-60(*)12																
24 (609)	6 (152)	(Prefix)-06-60(*)24															
	9 (228)	(Prefix)-09-60(*)24															
	12 (305)	(Prefix)-12-60(*)24															
	18 (457)	(Prefix)-18-60(*)24	255/16	145/8	167/8	283/4	165/8	193/16	295/8	171/8	193/4	301/2	175/8	205/16	313/8	181/8	207/8
	24 (609)	(Prefix)-24-60(*)24	(643)	(372)	(428)	(730)	(422)	(488)	(753)	(435)	(502)	(775)	(448)	(516)	(797)	(461)	(530)
	30 (762)	(Prefix)-30-60(*)24															
	36 (914)	(Prefix)-36-60(*)24															
42 (1067)	(Prefix)-42-60(*)24																
36 (914)	6 (152)	(Prefix)-06-60(*)36															
	9 (228)	(Prefix)-09-60(*)36															
	12 (305)	(Prefix)-12-60(*)36															
	18 (457)	(Prefix)-18-60(*)36	351/16	205/8	2313/16	391/8	225/8	261/8	40	231/8	2611/16	407/8	235/8	271/4	413/4	241/8	2713/16
	24 (609)	(Prefix)-24-60(*)36	(907)	(524)	(605)	(994)	(575)	(663)	(1016)	(587)	(687)	(1038)	(600)	(692)	(1060)	(613)	(706)
	30 (762)	(Prefix)-30-60(*)36															
	36 (914)	(Prefix)-36-60(*)36															
42 (1067)	(Prefix)-42-60(*)36																
48 (1219)	6 (152)	(Prefix)-06-60(*)48															
	9 (228)	(Prefix)-09-60(*)48															
	12 (305)	(Prefix)-12-60(*)48															
	18 (457)	(Prefix)-18-60(*)48	461/16	265/8	3011/16	499/16	285/8	33	503/8	291/8	335/8	511/4	295/8	343/16	521/8	301/8	343/4
	24 (609)	(Prefix)-24-60(*)48	(1170)	(676)	(780)	(1259)	(727)	(838)	(1280)	(740)	(854)	(1302)	(753)	(868)	(1324)	(765)	(883)
	30 (762)	(Prefix)-30-60(*)48															
	36 (914)	(Prefix)-36-60(*)48															
42 (1067)	(Prefix)-42-60(*)48																

(Prefix) See page L-3 for catalog number prefix.

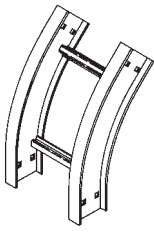
Width dimensions are to inside wall. For aluminum fittings add 1.5 inches (38mm) for total outside width.

Manufacturing tolerances apply to all dimensions.

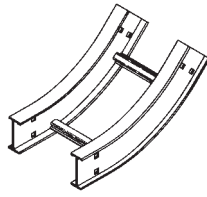
All dimensions in parentheses are millimeters unless otherwise specified.

Vertical Bend 45° (VO, VI)

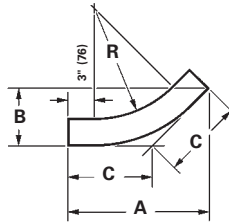
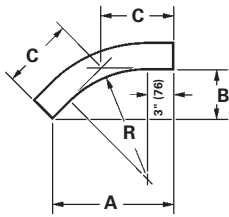
1 pair splice plates with hardware included.



45° Vertical Outside -VO



45° Vertical Inside -VI



Bend Radius R	Tray Width Insert	(*) Insert "VO" for Vert. Outside Bend "VI" for Vert. Inside Bend Catalog No.	VO Side Rail Height 4" - 7"			VI Side Rail Height											
			in./(mm)			4"			5"			6"			7"		
			A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
12 (305)	6 (152)	(Prefix)-06-45(*)12	13 ⁵ / ₈ (346)	5 ⁵ / ₈ (143)	8 (203)	16 ⁷ / ₁₆ (417)	6 ¹³ / ₁₆ (173)	9 ⁵ / ₈ (245)	17 ¹ / ₈ (435)	7 ¹ / ₈ (181)	10 ¹ / ₁₆ (256)	17 ⁷ / ₈ (454)	7 ³ / ₈ (188)	10 ⁷ / ₁₆ (265)	18 ⁹ / ₁₆ (471)	7 ¹¹ / ₁₆ (195)	10 ⁷ / ₈ (2176)
	9 (228)	(Prefix)-09-45(*)12															
	12 (305)	(Prefix)-12-45(*)12															
	18 (457)	(Prefix)-18-45(*)12															
	24 (609)	(Prefix)-24-45(*)12															
	30 (762)	(Prefix)-30-45(*)12															
	36 (914)	(Prefix)-36-45(*)12															
42 (1067)	(Prefix)-42-45(*)12																
24 (609)	6 (152)	(Prefix)-06-45(*)24	22 ¹ / ₁₆ (561)	9 ¹ / ₈ (232)	12 ¹⁵ / ₁₆ (329)	24 ¹⁵ / ₁₆ (634)	10 ⁵ / ₁₆ (262)	14 ⁵ / ₈ (372)	25 ⁵ / ₈ (651)	10 ⁵ / ₈ (270)	15 (381)	26 ⁵ / ₁₆ (668)	10 ¹⁵ / ₁₆ (278)	15 ⁷ / ₁₆ (392)	27 ¹ / ₁₆ (687)	11 ³ / ₁₆ (284)	15 ¹³ / ₁₆ (402)
	9 (228)	(Prefix)-09-45(*)24															
	12 (305)	(Prefix)-12-45(*)24															
	18 (457)	(Prefix)-18-45(*)24															
	24 (609)	(Prefix)-24-45(*)24															
	30 (762)	(Prefix)-30-45(*)24															
	36 (914)	(Prefix)-36-45(*)24															
42 (1067)	(Prefix)-42-45(*)24																
36 (914)	6 (152)	(Prefix)-06-45(*)36	30 ⁹ / ₁₆ (776)	12 ¹¹ / ₁₆ (323)	17 ¹⁵ / ₁₆ (456)	33 ³ / ₈ (848)	13 ¹³ / ₁₆ (351)	19 ⁹ / ₁₆ (497)	34 ¹ / ₈ (867)	14 ¹ / ₈ (359)	20 (508)	34 ¹³ / ₁₆ (885)	14 ⁷ / ₁₆ (367)	20 ³ / ₈ (518)	35 ¹ / ₂ (902)	14 ¹¹ / ₁₆ (284)	20 ¹³ / ₁₆ (402)
	9 (228)	(Prefix)-09-45(*)36															
	12 (305)	(Prefix)-12-45(*)36															
	18 (457)	(Prefix)-18-45(*)36															
	24 (609)	(Prefix)-24-45(*)36															
	30 (762)	(Prefix)-30-45(*)36															
	36 (914)	(Prefix)-36-45(*)36															
42 (1067)	(Prefix)-42-45(*)36																
48 (1219)	6 (152)	(Prefix)-06-45(*)48	39 ¹ / ₁₆ (992)	16 ³ / ₁₆ (411)	22 ⁷ / ₈ (581)	41 ⁷ / ₈ (1064)	17 ³ / ₈ (441)	24 ⁹ / ₁₆ (624)	42 ⁵ / ₈ (1083)	17 ⁵ / ₈ (448)	24 ¹⁵ / ₁₆ (633)	43 ⁵ / ₁₆ (1100)	17 ¹⁵ / ₁₆ (456)	25 ³ / ₈ (645)	44 (1118)	18 ¹ / ₄ (464)	25 ¹³ / ₁₆ (656)
	9 (228)	(Prefix)-09-45(*)48															
	12 (305)	(Prefix)-12-45(*)48															
	18 (457)	(Prefix)-18-45(*)48															
	24 (609)	(Prefix)-24-45(*)48															
	30 (762)	(Prefix)-30-45(*)48															
	36 (914)	(Prefix)-36-45(*)48															
42 (1067)	(Prefix)-42-45(*)48																

(Prefix) See page L-3 for catalog number prefix.

Width dimensions are to inside wall. For aluminum fittings add 1.5 inches (38mm) for total outside width.

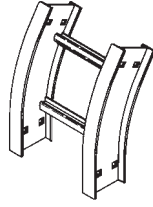
Manufacturing tolerances apply to all dimensions.

All dimensions in parentheses are millimeters unless otherwise specified.

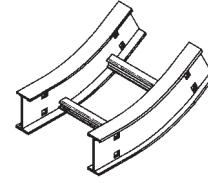
Series 2, 3, 4, & 5 - Fittings

Vertical Bend 30° (VO, VI)

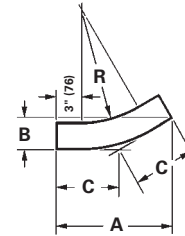
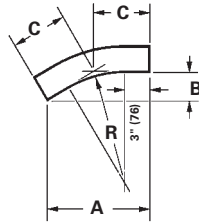
1 pair splice plates with hardware included.



30° Vertical Outside -VO



30° Vertical Inside -VI



Bend Radius R	Tray Width Insert	(*) Insert "VO" for Vert. Outside Bend "VI" for Vert. Inside Bend Catalog No.	VO Side Rail Height 4" - 7"			VI Side Rail Height											
			in./(mm)			4"			5"			6"			7"		
			A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
12 (305)	6 (152)	(Prefix)-06-30(*)12	11 ⁵ / ₈ (296)	3 ¹ / ₈ (79)	6 ³ / ₁₆ (157)	13 ⁵ / ₈ (346)	3 ⁵ / ₈ (92)	7 ⁹ / ₁₆ (186)	14 ¹ / ₈ (359)	3 ³ / ₄ (95)	7 ⁹ / ₁₆ (192)	14 ⁵ / ₈ (372)	3 ¹⁵ / ₁₆ (100)	7 ¹³ / ₁₆ (199)	15 ¹ / ₈ (384)	4 ¹ / ₁₆ (103)	8 ¹ / ₁₆ (205)
	9 (228)	(Prefix)-09-30(*)12															
	12 (305)	(Prefix)-12-30(*)12															
	18 (457)	(Prefix)-18-30(*)12															
	24 (609)	(Prefix)-24-30(*)12															
	30 (762)	(Prefix)-30-30(*)12															
	36 (914)	(Prefix)-36-30(*)12															
42 (1067)	(Prefix)-42-30(*)12																
24 (609)	6 (152)	(Prefix)-06-30(*)24	17 ⁵ / ₈ (448)	4 ¹¹ / ₁₆ (120)	9 ⁷ / ₁₆ (240)	19 ⁵ / ₈ (499)	5 ¹ / ₄ (133)	10 ¹ / ₂ (267)	20 ¹ / ₈ (511)	5 ³ / ₈ (137)	10 ³ / ₄ (273)	20 ⁵ / ₈ (524)	5 ¹ / ₂ (140)	11 ¹ / ₁₆ (282)	21 ¹ / ₈ (537)	5 ⁵ / ₈ (143)	11 ⁵ / ₁₆ (287)
	9 (228)	(Prefix)-09-30(*)24															
	12 (305)	(Prefix)-12-30(*)24															
	18 (457)	(Prefix)-18-30(*)24															
	24 (609)	(Prefix)-24-30(*)24															
	30 (762)	(Prefix)-30-30(*)24															
	36 (914)	(Prefix)-36-30(*)24															
42 (1067)	(Prefix)-42-30(*)24																
36 (914)	6 (152)	(Prefix)-06-30(*)36	23 ⁵ / ₈ (600)	6 ⁵ / ₁₆ (160)	12 ⁵ / ₈ (321)	25 ⁵ / ₈ (651)	6 ⁷ / ₈ (174)	13 ¹¹ / ₁₆ (348)	26 ¹ / ₈ (663)	7 (175)	14 (356)	26 ⁵ / ₈ (676)	7 ¹ / ₈ (181)	14 ¹ / ₄ (362)	27 ¹ / ₈ (689)	7 ¹ / ₄ (184)	14 ¹ / ₂ (287)
	9 (228)	(Prefix)-09-30(*)36															
	12 (305)	(Prefix)-12-30(*)36															
	18 (457)	(Prefix)-18-30(*)36															
	24 (609)	(Prefix)-24-30(*)36															
	30 (762)	(Prefix)-30-30(*)36															
	36 (914)	(Prefix)-36-30(*)36															
42 (1067)	(Prefix)-42-30(*)36																
48 (1219)	6 (152)	(Prefix)-06-30(*)48	29 ⁵ / ₈ (753)	7 ¹⁵ / ₁₆ (202)	15 ⁷ / ₈ (403)	31 ⁵ / ₈ (803)	8 ⁷ / ₁₆ (214)	16 ¹⁵ / ₁₆ (430)	32 ¹ / ₈ (816)	8 ⁵ / ₈ (219)	17 ³ / ₁₆ (437)	32 ⁵ / ₈ (829)	8 ³ / ₄ (222)	17 ¹ / ₂ (445)	33 ¹ / ₈ (842)	8 ⁷ / ₈ (226)	17 ³ / ₄ (451)
	9 (228)	(Prefix)-09-30(*)48															
	12 (305)	(Prefix)-12-30(*)48															
	18 (457)	(Prefix)-18-30(*)48															
	24 (609)	(Prefix)-24-30(*)48															
	30 (762)	(Prefix)-30-30(*)48															
	36 (914)	(Prefix)-36-30(*)48															
42 (1067)	(Prefix)-42-30(*)48																

(Prefix) See page L-3 for catalog number prefix.

Width dimensions are to inside wall. For aluminum fittings add 1.5 inches (38mm) for total outside width.

Manufacturing tolerances apply to all dimensions.

All dimensions in parentheses are millimeters unless otherwise specified.