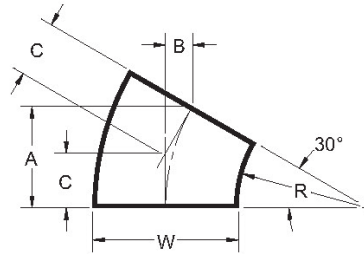
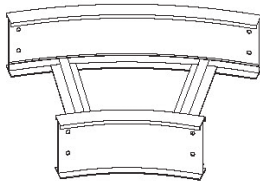


30° HORIZONTAL ELBOW



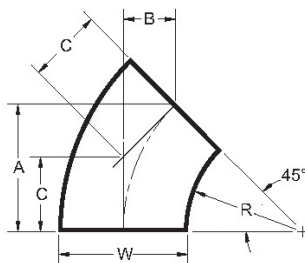
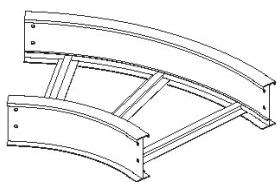
To complete catalogue number insert the appropriate prefixes (2) in place of asterisks.

3	H	A	—	*	6	5	**
BASIC PART		MATERIAL FINISH		SIDERAIL HEIGHT	RADIUS	WIDTH	RUNG SPACING
3H - 30° Horizontal		A - Aluminum		1 - C / 90mm (3.5") 2 - C / 152mm (6.0") 4 - D / 114mm (4.5") 5 - D / 152mm (6.0") 7 - E / 114mm (4.5") 8 - E / 152mm (6.0") H - E / 160mm (6.3") 9 - E / 203mm (8.0")	3 - 305mm (12") 6 - 610mm (24") 9 - 915mm (36") * - 1220mm (48")	2 - 150mm (6")† 3 - 203mm (8") 5 - 300mm (12") 6 - 450mm (18") 7 - 600mm (24") 8 - 750mm (30") 9 - 900mm (36")	1 - Solid 2 - Ventilated 4 - Ladder

† - Not available in 9 series.

BEND RADIUS		TRAY WIDTH		CATALOGUE NUMBER		DIMENSIONS					
R		W		* SIDERAIL HEIGHT		A		B		C	
mm	(in)	mm	(in)	** RUNG SPACING		mm	(in)	mm	(in)	mm	(in)
305mm	(12")	150	(6)	3HA-(*)32(**)	190	(7.5)	51	(2.0)	102	(4.0)	
		203	(8)	3HA-(*)33(**)	209	(8.2)	56	(2.2)	112	(4.4)	
		300	(12)	3HA-(*)35(**)	228	(9.0)	61	(2.4)	122	(4.8)	
		450	(18)	3HA-(*)36(**)	265	(10.4)	71	(2.8)	142	(5.6)	
		600	(24)	3HA-(*)37(**)	303	(11.9)	81	(3.2)	162	(6.4)	
		750	(30)	3HA-(*)38(**)	340	(13.4)	91	(3.6)	182	(7.2)	
		900	(36)	3HA-(*)39(**)	378	(14.9)	101	(4.0)	202	(8.0)	
610mm	(24")	150	(6)	3HA-(*)62(**)	343	(13.5)	92	(3.6)	184	(7.2)	
		203	(8)	3HA-(*)63(**)	361	(14.2)	97	(3.8)	194	(7.6)	
		300	(12)	3HA-(*)65(**)	380	(15.0)	102	(4.0)	204	(8.0)	
		450	(18)	3HA-(*)66(**)	418	(16.4)	112	(4.4)	224	(8.8)	
		600	(24)	3HA-(*)67(**)	455	(17.9)	122	(4.8)	244	(9.6)	
		750	(30)	3HA-(*)68(**)	493	(19.4)	132	(5.2)	264	(10.4)	
		900	(36)	3HA-(*)69(**)	530	(20.9)	142	(5.6)	284	(11.2)	
915mm	(36")	150	(6)	3HA-(*)92(**)	495	(19.5)	133	(5.2)	265	(10.4)	
		203	(8)	3HA-(*)93(**)	514	(20.2)	138	(5.4)	275	(10.8)	
		300	(12)	3HA-(*)95(**)	533	(21.0)	143	(5.6)	285	(11.2)	
		450	(18)	3HA-(*)96(**)	570	(22.4)	153	(6.0)	305	(12.0)	
		600	(24)	3HA-(*)97(**)	608	(23.9)	163	(6.4)	326	(12.8)	
		750	(30)	3HA-(*)98(**)	645	(25.4)	173	(6.8)	346	(13.6)	
		900	(36)	3HA-(*)99(**)	683	(26.9)	183	(7.2)	366	(14.4)	
1220mm	(48")	150	(6)	3HA-(*)2(**)	648	(25.5)	174	(6.9)	347	(13.7)	
		203	(8)	3HA-(*)3(**)	667	(26.3)	179	(7.0)	357	(14.1)	
		300	(12)	3HA-(*)5(**)	686	(27.0)	184	(7.2)	367	(14.4)	
		450	(18)	3HA-(*)6(**)	723	(28.5)	194	(7.6)	387	(15.2)	
		600	(24)	3HA-(*)7(**)	761	(30.0)	204	(8.0)	408	(16.1)	
		750	(30)	3HA-(*)8(**)	798	(31.4)	214	(8.4)	428	(16.9)	
		900	(36)	3HA-(*)9(**)	836	(32.9)	224	(8.8)	448	(17.6)	

45° HORIZONTAL ELBOW



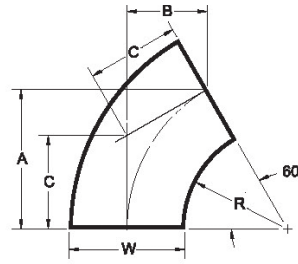
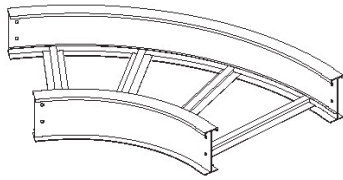
To complete catalogue number insert the appropriate prefixes (2) in place of asterisks.

4	H	A	—	*	9	3	**
BASIC PART		MATERIAL FINISH		SIDERAIL HEIGHT	RADIUS	WIDTH	RUNG SPACING
4H - 45° Horizontal		A - Aluminum		1 - C / 90mm (3.5") 2 - C / 152mm (6.0") 4 - D / 114mm (4.5") 5 - D / 152mm (6.0") 7 - E / 114mm (4.5") 8 - E / 152mm (6.0") H - E / 160mm (6.3") 9 - E / 203mm (8.0")	3 - 305mm (12") 6 - 610mm (24") 9 - 915mm (36") * - 1220mm (48")	2 - 150mm (6")† 3 - 203mm (8") 5 - 300mm (12") 6 - 450mm (18") 7 - 600mm (24") 8 - 750mm (30") 9 - 900mm (36")	1 - Solid 2 - Ventilated 4 - Ladder

† - Not available in 9 series.

BEND RADIUS		TRAY WIDTH		CATALOGUE NUMBER		DIMENSIONS					
R		W		* SIDERAIL HEIGHT ** RUNG SPACING		A		B		C	
mm	(in)	mm	(in)			mm	(in)	mm	(in)	mm	(in)
305mm	(12")	150	(6)	4HA-(*)32(**)	269	(10.6)	111	(4.4)	157	(6.2)	
		203	(8)	4HA-(*)33(**)	295	(11.6)	122	(4.8)	173	(6.8)	
		300	(12)	4HA-(*)35(**)	322	(12.7)	133	(5.2)	188	(7.4)	
		450	(18)	4HA-(*)36(**)	375	(14.8)	155	(6.1)	220	(8.6)	
		600	(24)	4HA-(*)37(**)	428	(16.8)	177	(7.0)	251	(9.9)	
		750	(30)	4HA-(*)38(**)	481	(18.9)	199	(7.8)	282	(11.1)	
		900	(36)	4HA-(*)39(**)	534	(21.0)	221	(8.7)	313	(12.3)	
610mm	(24")	150	(6)	4HA-(*)62(**)	484	(19.1)	201	(7.9)	284	(11.2)	
		203	(8)	4HA-(*)63(**)	511	(20.1)	212	(8.3)	299	(11.8)	
		300	(12)	4HA-(*)65(**)	537	(21.2)	223	(8.8)	315	(12.4)	
		450	(18)	4HA-(*)66(**)	590	(23.2)	245	(9.6)	346	(13.6)	
		600	(24)	4HA-(*)67(**)	643	(25.3)	267	(10.5)	377	(14.8)	
		750	(30)	4HA-(*)68(**)	697	(27.4)	288	(11.4)	408	(16.1)	
		900	(36)	4HA-(*)69(**)	750	(29.5)	310	(12.2)	439	(17.3)	
915mm	(36")	150	(6)	4HA-(*)92(**)	700	(27.6)	290	(11.4)	410	(16.1)	
		203	(8)	4HA-(*)93(**)	727	(28.6)	301	(11.8)	426	(16.8)	
		300	(12)	4HA-(*)95(**)	753	(29.6)	312	(12.3)	441	(17.4)	
		450	(18)	4HA-(*)96(**)	806	(31.7)	334	(13.1)	472	(18.6)	
		600	(24)	4HA-(*)97(**)	859	(33.8)	356	(14.0)	503	(19.8)	
		750	(30)	4HA-(*)98(**)	912	(35.9)	378	(14.9)	534	(21.0)	
		900	(36)	4HA-(*)99(**)	965	(38.0)	400	(15.7)	565	(22.3)	
1220mm	(48")	150	(6)	4HA-(*)2(**)	916	(36.1)	380	(15.0)	535	(21.1)	
		203	(8)	4HA-(*)3(**)	943	(37.1)	391	(15.4)	551	(21.7)	
		300	(12)	4HA-(*)5(**)	969	(38.1)	402	(15.8)	566	(22.3)	
		450	(18)	4HA-(*)6(**)	1022	(40.2)	424	(16.7)	598	(23.5)	
		600	(24)	4HA-(*)7(**)	1075	(42.3)	446	(17.6)	629	(24.8)	
		750	(30)	4HA-(*)8(**)	1128	(44.4)	468	(18.4)	660	(26.0)	
		900	(36)	4HA-(*)9(**)	1181	(46.5)	490	(19.3)	691	(27.2)	

60° HORIZONTAL ELBOW



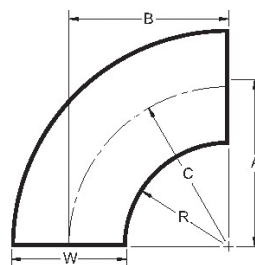
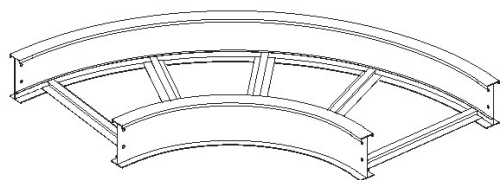
To complete catalogue number insert the appropriate prefixes (2) in place of asterisks.

6	H	A	—	*	3	5	**
BASIC PART		MATERIAL FINISH		SIDERAIL HEIGHT	RADIUS	WIDTH	RUNG SPACING
6H - 60° Horizontal		A - Aluminum		1 - C / 90mm (3.5") 2 - C / 152mm (6.0") 4 - D / 114mm (4.5") 5 - D / 152mm (6.0") 7 - E / 114mm (4.5") 8 - E / 152mm (6.0") H - E / 160mm (6.3") 9 - E / 203mm (8.0")	3 - 305mm (12") 6 - 610mm (24") 9 - 915mm (36") * - 1220mm (48")	2 - 150mm (6")† 3 - 203mm (8") 5 - 300mm (12") 6 - 450mm (18") 7 - 600mm (24") 8 - 750mm (30") 9 - 900mm (36")	1 - Solid 2 - Ventilated 4 - Ladder

† - Not available in 9 series.

BEND RADIUS		TRAY WIDTH		CATALOGUE NUMBER		DIMENSIONS					
R		W		* SIDERAIL HEIGHT ** RUNG SPACING		A		B		C	
mm	(in)	mm	(in)			mm	(in)	mm	(in)	mm	(in)
305mm	(12")	150	(6)	6HA-(*)32(**)	329	(13.0)	190	(7.5)	219	(8.6)	
		203	(8)	6HA-(*)33(**)	362	(14.2)	209	(8.2)	241	(9.5)	
		300	(12)	6HA-(*)35(**)	394	(15.5)	228	(9.0)	263	(10.3)	
		450	(18)	6HA-(*)36(**)	459	(18.1)	265	(10.4)	306	(12.0)	
		600	(24)	6HA-(*)37(**)	524	(20.6)	303	(11.9)	349	(13.8)	
		750	(30)	6HA-(*)38(**)	589	(23.2)	340	(13.4)	393	(15.5)	
		900	(36)	6HA-(*)39(**)	654	(25.7)	378	(14.9)	436	(17.2)	
610mm	(24")	150	(6)	6HA-(*)62(**)	593	(23.4)	343	(13.5)	395	(15.6)	
		203	(8)	6HA-(*)63(**)	626	(24.6)	361	(14.2)	417	(16.4)	
		300	(12)	6HA-(*)65(**)	658	(25.9)	380	(15.0)	439	(17.3)	
		450	(18)	6HA-(*)66(**)	723	(28.5)	418	(16.4)	482	(19.0)	
		600	(24)	6HA-(*)67(**)	788	(31.0)	455	(17.9)	525	(20.7)	
		750	(30)	6HA-(*)68(**)	853	(33.6)	493	(19.4)	569	(22.4)	
		900	(36)	6HA-(*)69(**)	918	(36.1)	530	(20.9)	612	(24.1)	
915mm	(36")	150	(6)	6HA-(*)92(**)	857	(33.8)	495	(19.5)	572	(22.5)	
		203	(8)	6HA-(*)93(**)	890	(35.0)	514	(20.2)	593	(23.4)	
		300	(12)	6HA-(*)95(**)	922	(36.3)	533	(21.0)	615	(24.2)	
		450	(18)	6HA-(*)96(**)	987	(38.9)	570	(22.4)	658	(25.9)	
		600	(24)	6HA-(*)97(**)	1052	(41.4)	608	(23.9)	701	(27.6)	
		750	(30)	6HA-(*)98(**)	1117	(44.0)	645	(25.4)	745	(29.3)	
		900	(36)	6HA-(*)99(**)	1182	(46.5)	683	(26.9)	788	(31.0)	
1220mm	(48")	150	(6)	6HA-(*)2(**)	1121	(44.1)	649	(25.6)	747	(29.4)	
		203	(8)	6HA-(*)3(**)	1154	(45.4)	668	(26.3)	769	(30.3)	
		300	(12)	6HA-(*)5(**)	1186	(46.7)	687	(27.0)	791	(31.1)	
		450	(18)	6HA-(*)6(**)	1251	(49.3)	724	(28.5)	834	(32.8)	
		600	(24)	6HA-(*)7(**)	1316	(51.8)	762	(30.0)	877	(34.5)	
		750	(30)	6HA-(*)8(**)	1381	(54.4)	699	(27.5)	921	(36.3)	
		900	(36)	6HA-(*)9(**)	1446	(56.9)	837	(33.0)	964	(38.0)	

90° HORIZONTAL ELBOW



To complete catalogue number insert the appropriate prefixes (2) in place of asterisks.

9	H	A	—	*	9	6	**
BASIC PART		MATERIAL FINISH		SIDERAIL HEIGHT	RADIUS	WIDTH	RUNG SPACING
9H - 90° Horizontal		A - Aluminum		1 - C / 90mm (3.5") 2 - C / 152mm (6.0") 4 - D / 114mm (4.5") 5 - D / 152mm (6.0") 7 - E / 114mm (4.5") 8 - E / 152mm (6.0") H - E / 160mm (6.3") 9 - E / 203mm (8.0")	3 - 305mm (12") 6 - 610mm (24") 9 - 915mm (36") * - 1220mm (48")	2 - 150mm (6")† 3 - 203mm (8") 5 - 300mm (12") 6 - 450mm (18") 7 - 600mm (24") 8 - 750mm (30") 9 - 900mm (36")	1 - Solid 2 - Ventilated 4 - Ladder

† - Not available in 9 series.

BEND RADIUS		TRAY WIDTH		CATALOGUE NUMBER		DIMENSIONS					
R		W		* SIDERAIL HEIGHT		A		B		C	
mm	(in)	mm	(in)	** RUNG SPACING		mm	(in)	mm	(in)	mm	(in)
305mm	(12")	150	(6)	9HA-(*)32(**)		380	(15.0)	380	(15.0)	380	(15.0)
		203	(8)	9HA-(*)33(**)		418	(16.4)	418	(16.4)	418	(16.4)
		300	(12)	9HA-(*)35(**)		455	(17.9)	455	(17.9)	455	(17.9)
		450	(18)	9HA-(*)36(**)		530	(20.9)	530	(20.9)	530	(20.9)
		600	(24)	9HA-(*)37(**)		605	(23.8)	605	(23.8)	605	(23.8)
		750	(30)	9HA-(*)38(**)		680	(26.8)	680	(26.8)	680	(26.8)
		900	(36)	9HA-(*)39(**)		755	(29.7)	755	(29.7)	755	(29.7)
610mm	(24")	150	(6)	9HA-(*)62(**)		685	(27.0)	685	(27.0)	685	(27.0)
		203	(8)	9HA-(*)63(**)		723	(28.4)	723	(28.4)	723	(28.4)
		300	(12)	9HA-(*)65(**)		760	(29.9)	760	(29.9)	760	(29.9)
		450	(18)	9HA-(*)66(**)		835	(32.9)	835	(32.9)	835	(32.9)
		600	(24)	9HA-(*)67(**)		910	(35.8)	910	(35.8)	910	(35.8)
		750	(30)	9HA-(*)68(**)		985	(38.8)	985	(38.8)	985	(38.8)
		900	(36)	9HA-(*)69(**)		1060	(41.7)	1060	(41.7)	1060	(41.7)
915mm	(36")	150	(6)	9HA-(*)92(**)		990	(39.0)	990	(39.0)	990	(39.0)
		203	(8)	9HA-(*)93(**)		1028	(40.5)	1028	(40.5)	1028	(40.5)
		300	(12)	9HA-(*)95(**)		1065	(41.9)	1065	(41.9)	1065	(41.9)
		450	(18)	9HA-(*)96(**)		1140	(44.9)	1140	(44.9)	1140	(44.9)
		600	(24)	9HA-(*)97(**)		1215	(47.8)	1215	(47.8)	1215	(47.8)
		750	(30)	9HA-(*)98(**)		1290	(50.8)	1290	(50.8)	1290	(50.8)
		900	(36)	9HA-(*)99(**)		1365	(53.7)	1365	(53.7)	1365	(53.7)
1220mm	(48")	150	(6)	9HA-(*)2(**)		1295	(51.0)	1295	(51.0)	1295	(51.0)
		203	(8)	9HA-(*)3(**)		1333	(52.5)	1333	(52.5)	1333	(52.5)
		300	(12)	9HA-(*)5(**)		1370	(53.9)	1370	(53.9)	1370	(53.9)
		450	(18)	9HA-(*)6(**)		1445	(56.9)	1445	(56.9)	1445	(56.9)
		600	(24)	9HA-(*)7(**)		1520	(59.8)	1520	(59.8)	1520	(59.8)
		750	(30)	9HA-(*)8(**)		1595	(62.8)	1595	(62.8)	1595	(62.8)
		900	(36)	9HA-(*)9(**)		1670	(65.7)	1670	(65.7)	1670	(65.7)