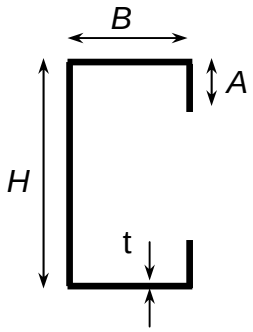
PHYSICAL PROPERTIES
C - SECTION PURLIN

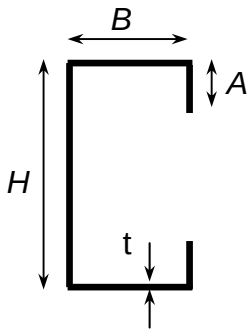


C *H* x *B* x *A* x t

H (mm)	B (mm)	A (mm)	t (mm)	Weight (kg/m)	Area (mm^2)	I_{xx} (cm^4)	I_{yy} (cm^4)	Z_{xx} (cm^3)	Z_{yy} (cm^3)
50	40	10	1.6	1.9	240	11	6	4	2
50	40	10	2	2.4	300	14	7	5	3
75	40	15	1.6	2.3	296	28	8	7	3
75	50	15	2	3.2	410	41	16	11	5
100	45	15	1.6	2.8	352	58	11	12	4
100	50	15	1.6	2.9	368	62	14	12	4
100	50	15	2	3.6	460	78	18	16	5
110	45	15	1.6	2.9	368	72	12	13	4
110	45	15	2	3.6	460	90	14	16	5
110	50	15	2	3.8	480	96	18	18	6
120	50	15	2	3.9	500	117	19	20	6
120	60	15	2	4.2	540	132	29	22	7
140	50	15	2	4.2	540	167	20	24	6
140	60	15	2	4.6	580	187	30	27	7
150	50	20	2	4.6	580	203	23	27	7
150	60	20	2	4.9	620	225	34	30	8
160	60	20	2	5.0	640	261	35	33	9
160	70	20	2	5.3	680	287	50	36	11
180	60	20	2	5.3	680	343	36	38	9
180	70	20	2	5.7	720	375	52	42	11
200	70	20	2	6.0	760	478	54	48	11

200	80	20	2.5	7.9	1000	648	92	65	16
200	80	20	2.8	8.8	1120	726	103	73	18
200	80	20	3	9.4	1200	778	110	78	20
200	90	20	3	9.9	1260	838	145	84	23
220	70	20	2.5	7.9	1000	746	69	68	14
220	80	20	2.5	8.2	1050	806	94	73	17
220	70	20	2.8	8.8	1120	835	77	76	15
220	80	20	2.8	9.2	1176	903	106	82	19
220	70	20	3	9.4	1200	895	83	81	16
220	80	20	3	9.9	1260	967	113	88	20
220	90	20	3	10.4	1320	1040	150	95	24
220	100	20	3	10.8	1380	1113	192	101	28
250	70	20	2.5	8.4	1075	1005	72	80	14
250	80	20	2.5	8.8	1125	1083	98	87	17
250	70	20	2.8	9.5	1204	1126	80	90	15
250	80	20	2.8	9.9	1260	1213	110	97	19
250	70	20	3	10.1	1290	1206	86	96	17
250	80	20	3	10.6	1350	1300	118	104	20
250	100	20	3	11.5	1470	1487	200	119	28
300	70	20	2.5	9.4	1200	1546	75	103	14
300	80	20	2.5	9.8	1250	1659	103	111	17
300	70	20	2.8	10.6	1344	1732	84	115	16
300	80	20	2.8	11.0	1400	1858	116	124	19
300	70	20	3	11.3	1440	1856	90	124	17
300	80	20	3	11.8	1500	1991	124	133	20
300	90	20	3	12.2	1560	2126	164	142	24
300	100	20	3	12.7	1620	2261	211	151	29
300	110	20	3	13.2	1680	2396	266	160	33
300	120	20	3	13.7	1740	2531	328	169	38

STANDARD PURLIN SELECTION
C - SECTION

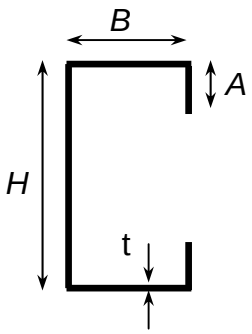


C *H* x *B* x *A* x t

Slope 10 to 14 Degree
Yield Stress of Material = 2400 kg/cm^2
Roof = G.I. Sheets (Dead load = 20 kg/m^2)
Purlin Spacing = 1.6m
Young's Modulus = 200 GPa
Deflection Limit = Span/150 (IS 800 – 2007)

Span (m)	No of Sag rods	Wind Load = 100 kg/m^2	Wind Load = 150 kg/m^2
3	-	C 100 x 45 x 15 x 1.6	C 100 x 50 x 15 x 2
3.5	-	C 100 x 50 x 15 x 2	C 120 x 60 x 15 x 2
4	-	C 120 x 50 x 15 x 2	C 140 x 60 x 15 x 2
4.5	1	C 140 x 60 x 15 x 2	C 160 x 70 x 20 x 2
5	1	C 160 x 60 x 20 x 2	C 200 x 70 x 20 x 2
5.5	1	C 180 x 60 x 20 x 2	C 200 x 70 x 20 x 2.5
6	1	C 200 x 70 x 20 x 2	C 200 x 80 x 20 x 2.5
6.5	2	C 200 x 80 x 20 x 2.5	C 220 x 80 x 20 x 2.5
7	2	C 200 x 80 x 20 x 2.5	C 220 x 80 x 20 x 3
7.5	2	C 200 x 80 x 20 x 2.8	C 250 x 80 x 20 x 2.8
8	2	C 200 x 80 x 20 x 3	C 300 x 80 x 20 x 2.5
8.5	2	C 220 x 80 x 20 x 3	C 300 x 70 x 20 x 3
9	3	C 220 x 100 x 20 x 3	C 300 x 90 x 20 x 3
9.5	3	C 250 x 100 x 20 x 3	C 300 x 110 x 20 x 3
10	3	C 300 x 80 x 20 x 2.8	C 300 x 120 x 20 x 3

STANDARD PURLIN SELECTION
C - SECTION

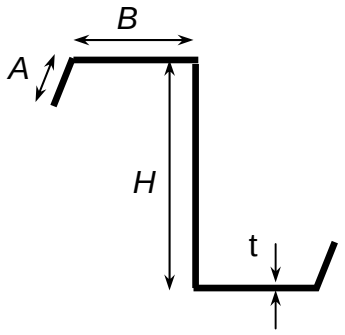


C *H* x *B* x *A* x t

Slope 10 to 14 Degree
Yield Stress of Material = 3400 kg/cm^2
Roof = G.I. Sheets (Dead load = 20 kg/m^2)
Purlin Spacing = 1.6m
Young's Modulus = 200 GPa
Deflection Limit = Span/150 (IS 800 – 2007)

Span (m)	No of Sag rods	Wind Load = 100 kg/m^2	Wind Load = 150 kg/m^2
3	-	C 100 x 45 x 15 x 1.6	C 100 x 45 x 15 x 1.6
3.5	-	C 100 x 50 x 15 x 1.6	C 100 x 50 x 15 x 2
4	-	C 100 x 50 x 15 x 2	C 120 x 50 x 15 x 2
4.5	1	C 120 x 50 x 15 x 2	C 140 x 50 x 15 x 2
5	1	C 140 x 50 x 15 x 2	C 160 x 60 x 20 x 2
5.5	1	C 150 x 60 x 20 x 2	C 180 x 60 x 20 x 2
6	1	C 160 x 70 x 20 x 2	C 200 x 70 x 20 x 2
6.5	2	C 180 x 60 x 20 x 2	C 200 x 80 x 20 x 2.5
7	2	C 200 x 70 x 20 x 2	C 200 x 80 x 20 x 2.5
7.5	2	C 200 x 80 x 20 x 2.5	C 200 x 80 x 20 x 3
8	2	C 200 x 80 x 20 x 2.5	C 220 x 80 x 20 x 3
8.5	2	C 200 x 80 x 20 x 3	C 250 x 70 x 20 x 2.8
9	3	C 220 x 80 x 20 x 3	C 250 x 80 x 20 x 3
9.5	3	C 200 x 80 x 20 x 3	C 300 x 80 x 20 x 2.5
10	3	C 220 x 80 x 20 x 3	C 300 x 80 x 20 x 2.8

PHYSICAL PROPERTIES
Z - SECTION PURLIN

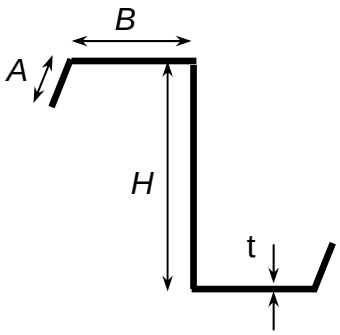


Z *H* x *B* x *A* x t

H (mm)	B (mm)	A (mm)	t (mm)	Weight (kg/m)	Area (mm^2)	I_{xx} (cm^4)	I_{yy} (cm^4)	Z_{xx} (cm^3)	Z_{yy} (cm^3)
50	40	10	1.6	1.9	240	11	7	5	2
50	40	10	2	2.4	300	14	9	6	2
75	40	15	1.6	2.3	296	29	7	8	2
75	50	15	2	3.2	410	41	17	11	3
100	45	15	1.6	2.8	352	59	10	12	2
100	50	15	1.6	2.9	368	63	14	13	3
100	50	15	2	3.6	460	79	17	16	3
110	45	15	1.6	2.9	368	74	10	14	2
110	45	15	2	3.6	460	92	12	17	3
110	50	15	2	3.8	480	98	17	18	3
120	50	15	2	3.9	500	120	17	20	3
120	60	15	2	4.2	540	134	30	23	5
140	50	15	2	4.2	540	171	17	25	3
140	60	15	2	4.6	580	191	30	28	5
150	50	20	2	4.6	580	207	17	28	3
150	60	20	2	4.9	620	230	30	31	5
160	60	20	2	5.0	640	267	30	34	5
160	70	20	2	5.3	680	293	47	37	7
180	60	20	2	5.3	680	350	30	39	5
180	70	20	2	5.7	720	383	47	43	7
200	70	20	2	6.0	760	488	47	50	7

200	80	20	2.5	7.9	1000	661	87	67	11
200	80	20	2.8	8.8	1120	740	98	75	12
200	80	20	3	9.4	1200	793	105	81	13
200	90	20	3	9.9	1260	854	149	87	17
220	70	20	2.5	7.9	1000	761	59	70	8
220	80	20	2.5	8.2	1050	822	87	76	11
220	70	20	2.8	8.8	1120	852	66	79	10
220	80	20	2.8	9.2	1176	921	98	85	12
220	70	20	3	9.4	1200	913	70	84	10
220	80	20	3	9.9	1260	987	105	91	13
220	90	20	3	10.4	1320	1061	149	98	17
220	100	20	3	10.8	1380	1135	205	105	21
250	70	20	2.5	8.4	1075	1025	59	83	8
250	80	20	2.5	8.8	1125	1105	87	90	11
250	70	20	2.8	9.5	1204	1148	66	93	10
250	80	20	2.8	9.9	1260	1237	98	100	12
250	70	20	3	10.1	1290	1230	70	100	10
250	80	20	3	10.6	1350	1326	105	108	13
250	100	20	3	11.5	1470	1517	205	123	21
300	70	20	2.5	9.4	1200	1577	59	107	8
300	80	20	2.5	9.8	1250	1692	87	114	11
300	70	20	2.8	10.6	1344	1767	66	120	10
300	80	20	2.8	11.0	1400	1895	98	128	12
300	70	20	3	11.3	1440	1893	70	128	10
300	80	20	3	11.8	1500	2030	105	137	13
300	90	20	3	12.2	1560	2168	149	147	17
300	100	20	3	12.7	1620	2306	205	156	21
300	110	20	3	13.2	1680	2444	273	165	25
300	120	20	3	13.7	1740	2581	354	175	30

STANDARD PURLIN SELECTION
Z - SECTION

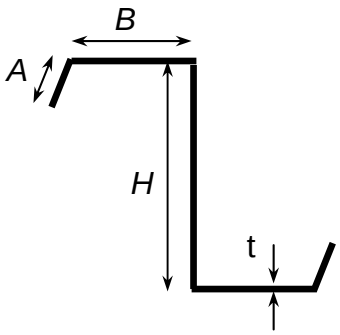


Z *H* x *B* x *A* x t

Slope 10 to 14 Degree
Yield Stress of Material = 2400 kg/cm^2
Roof = G.I. Sheets (Dead load = 20 kg/m^2)
Purlin Spacing = 1.6m
Young's Modulus = 200 GPa
Deflection Limit = Span/150 (IS 800 – 2007)

Span (m)	No of Sag rods	Wind Load = 100 kg/m^2	Wind Load = 150 kg/m^2
3	-	Z 100 x 45 x 15 x1.6	Z 100 x 50 x 15 x 2
3.5	-	Z 100 x 50 x 15 x 2	Z 120 x 60 x 15 x 2
4	-	Z 120 x 50 x 15 x 2	Z 140 x 60 x 15 x 2
4.5	1	Z 140 x 60 x 15 x 2	Z 160 x 70 x 20 x 2
5	1	Z 160 x 60 x 20 x 2	Z 200 x 70 x 20 x 2
5.5	1	Z 180 x 60 x 20 x 2	Z 200 x 70 x 20 x 2.5
6	1	Z 200 x 70 x 20 x 2	Z 200 x 80 x 20 x 2.5
6.5	2	Z 200 x 80 x 20 x 2.5	Z 220 x 80 x 20 x 2.5
7	2	Z 200 x 80 x 20 x 2.5	Z 220 x 80 x 20 x 3
7.5	2	Z 200 x 80 x 20 x 2.8	Z 250 x 80 x 20 x 2.8
8	2	Z 200 x 80 x 20 x 3	Z 300 x 80 x 20 x 2.5
8.5	2	Z 220 x 80 x 20 x 3	Z 300 x 70 x 20 x 3
9	3	Z 220 x 100 x 20 x 3	Z 300 x 90 x 20 x 3
9.5	3	Z 250 x 100 x 20 x 3	Z 300 x 110 x 20 x 3
10	3	Z 300 x 80 x 20 x 2.8	Z 300 x 120 x 20 x 3

STANDARD PURLIN SELECTION
Z - SECTION



Z *H* x *B* x *A* x t

Slope 10 to 14 Degree
Yield Stress of Material = 3400 kg/cm^2
Roof = G.I. Sheets (Dead load = 20 kg/m^2)
Purlin Spacing = 1.6m
Young's Modulus = 200 GPa
Deflection Limit = Span/150 (IS 800 – 2007)

Span (m)	No of Sag rods	Wind Load = 100 kg/m^2	Wind Load = 150 kg/m^2
3	-	C 100 x 45 x 15 x 1.6	Z 100 x 45 x 15 x 1.6
3.5	-	C 100 x 50 x 15 x 1.6	Z 100 x 50 x 15 x 2
4	-	Z 100 x 50 x 15 x 2	Z 120 x 50 x 15 x 2
4.5	1	Z 120 x 50 x 15 x 2	Z 140 x 50 x 15 x 2
5	1	Z 140 x 50 x 15 x 2	Z 160 x 60 x 20 x 2
5.5	1	Z 150 x 60 x 20 x 2	Z 180 x 60 x 20 x 2
6	1	Z 160 x 70 x 20 x 2	Z 200 x 70 x 20 x 2
6.5	2	Z 180 x 60 x 20 x 2	Z 200 x 80 x 20 x 2.5
7	2	Z 200 x 70 x 20 x 2	Z 200 x 80 x 20 x 2.5
7.5	2	Z 200 x 80 x 20 x 2.5	Z 200 x 80 x 20 x 3
8	2	Z 200 x 80 x 20 x 2.5	Z 220 x 80 x 20 x 3
8.5	2	Z 200 x 80 x 20 x 3	Z 250 x 70 x 20 x 2.8
9	3	Z 220 x 80 x 20 x 3	Z 250 x 80 x 20 x 3
9.5	3	Z 200 x 80 x 20 x 3	Z 300 x 80 x 20 x 2.5
10	3	Z 220 x 80 x 20 x 3	Z 300 x 80 x 20 x 2.8