

MacGruber Consultants

Aluminum Member Design - ADM 2010
Member Shapes

Job Name: _____ Eng: mac
Client Name: _____ Report Date: 9/1/2017
Job #: 17323

Member	Type	Section	Total Length	Y-Depth	X-Width	Outer Diameter	Inner Diameter	Gross Section Area	Axis x-x	Axis y-y						Notes
			L (in)	d (in)	b (in)	do (in)	di (in)	Ag (in ²)	Ix (in ⁴)	Sx (in ³)	rx (in)	Iy (in ⁴)	Sy (in ³)	ry (in)	J (in ⁴)	
1	RT.	2x4x1/4		4	2	0	0	2.75	5.31	2.65	1.39	1.68	1.68	0.782	3.92	Roof Canopy Purlin (flat laid)
2	RT.	6x6x1/4		6	6	0	0	5.75	31.7	10.6	2.35	31.7	10.6	2.35	47.5	Level 3/4 Canopy Column
3	RT.	4x8x1/4		8	4	0	0	5.75	47.6	11.9	2.88	15.9	7.93	1.66	36.7	Level 3/4 Canopy Arch Member
4	RT.	6x12x1/4		12	6	0	0	8.64	163	27	4.34	55.6	18.53	2.54	132	Level 3/4 Canopy Girder
5	RT.	4x6x1/4		6	4	0	0	4.75	23.5	7.82	2.22	12.3	6.17	1.61	24.5	Roof Canopy Main Frame Member
6	RT.	2x4x1/4		4	2	0	0	2.75	5.31	2.65	1.39	1.68	1.68	0.782	3.92	Level 3/4 Canopy Purlin
7	CT.	8.0 ODx0.125		0	0	8	7.75	3.09	24	5.99	2.78	24	5.99	2.78	47.9	Roof Canopy Fascia Member
8	RT.			0	0	0	0	0	0	0	0	0	0	0	0	
9	RT.			0	0	0	0	0	0	0	0	0	0	0	0	
10	RT.			0	0	0	0	0	0	0	0	0	0	0	0	
11	RT.			0	0	0	0	0	0	0	0	0	0	0	0	
12	RT.			0	0	0	0	0	0	0	0	0	0	0	0	
13	RT.			0	0	0	0	0	0	0	0	0	0	0	0	
14	RT.			0	0	0	0	0	0	0	0	0	0	0	0	
15	RT.			0	0	0	0	0	0	0	0	0	0	0	0	
16	RT.			0	0	0	0	0	0	0	0	0	0	0	0	
17	RT.			0	0	0	0	0	0	0	0	0	0	0	0	
18	RT.			0	0	0	0	0	0	0	0	0	0	0	0	
19	NPS.	6-SCH40		0	0	6.625	6.065	5.58	28.1	8.5	2.25	28.1	8.5	2.25	0	Example 5
20	RT.	3x3x1/8		3	3	0	0	1.44	1.98	1.32	1.17	1.98	1.32	1.17	2.97	Example 4

Notes:

1. Designation of flanges and webs is based on strong axis .
2. Properties shown are for section identification only. See Calculations for relevant section properties.
3. Input total length of member for reference only - not used in calculations