





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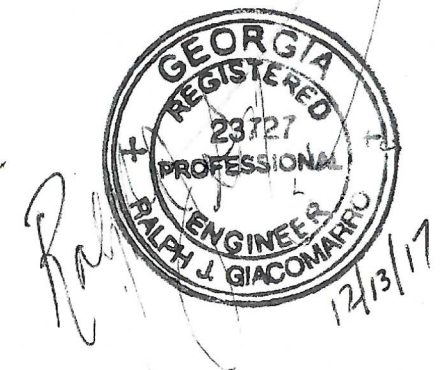
3"x12" & 3"x16"x0.040" ALUMINUM CANOPY PANELS SECTION PROPERTIES													
PROFILE VIEW (DIMENSIONS IN INCHES)	DEC ALUM	WEIGHT (PSF)	ALLOW SHEAR (KIPS)	ALLOW BEARING		TOP OF PANEL IN COMPRESSION				BOTTOM OF PANEL IN COMPRESSION			
				END 2" (KIPS)	INTERIOR 3" (KIPS)	Ix (in4)	Sx (in3)	Fba (KSI)	ALLOW MOMENT (in-KIPS)	Ix (in4)	Sx (in3)	Fba (KSI)	ALLOW MOMENT (in-KIPS)
3  12 	0.040	0.930	1.4384	0.2533	0.5373	0.9090	0.4006	9.76	3.910	0.5898	0.4531	16.46	7.460
3  16 	0.040	0.838	1.4384	0.2533	0.5373	0.9780	0.4092	9.66	3.953	0.6227	0.5007	14.13	7.076

DATA ON OTHER PANEL STYLES IS AVAILABLE ON REQUEST, CALL OR EMAIL : benhouston@bellsouth.net
 METALWORKS, P.O. BOX 2009 - 4409 MCBRAYER RD, OAKWOOD, GA 30566, PHONE (678) 960 - 3109, FAX (678) 960 - 3108

GENERAL NOTES:


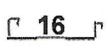
- 1) ALUMINUM CANOPY PANEL SECTION PROPERTIES HAVE BEEN DETERMINED IN ACCORDANCE WITH THE ALUMINUM ASSOCIATION ALUMINUM DESIGN MANUAL 2015 "SPECIFICATION FOR ALUMINUM STRUCTURES".
- 2) Ix IS THE EFFECTIVE MOMENT OF INERTIA CALCULATED ACCORDING TO SPECIFICATION SECTION L.3.
- 3) Sx IS THE ELASTIC SECTION MODULUS OF THE EFFECTIVE SECTION CALCULATED ACCORDING TO SPECIFICATION SECTION F.3.1.
- 4) Fba IS THE WEIGHTED AVERAGE ALLOWABLE COMPRESSIVE STRESS OF THE SECTION CALCULATED ACCORDING TO SPECIFICATION SECTION F.3.1.
- 5) ALUMINUM UTILIZED FOR ALL PANELS CONFORMS TO ALUMINUM ASSOCIATION ALLOY & TEMPER 3105-H14 (Ftu= 25 KSI, Fty= 22 KSI & Fcy= 19.8 KSI).

EFF 12/17





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ALUMINUM CANOPY PANELS -- RIBS UP -- PANELS HUNG BENEATH SUPPORTING STRUCTURE -- GRAVITY LOADING

LIVE LOAD DATA : MAXIMUM ALLOWABLE UNIFORM LOADING IN POUNDS PER SQUARE FOOT															
PROFILE VIEW (DIMENSIONS IN INCHES)	DEC ALUM	SUPPORT CONDITION	SPAN LENGTH (FEET)												
			3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0
3 	0.040	1 SPAN	289	162	103	71	52	39	27	19	14	11	---	---	---
		2 SPAN	447	273	182	128	94	71	56	45	36	27	21	17	13
		3 SPAN	452	254	162	112	82	63	49	37	28	21	16	13	10
		4 SPAN	468	263	168	116	85	65	51	40	29	22	17	14	11
3 	0.040	1 SPAN	219	123	78	54	39	30	22	15	11	---	---	---	---
		2 SPAN	324	196	130	92	68	53	42	34	28	22	17	13	11
		3 SPAN	342	192	123	85	62	47	37	30	22	17	13	10	---
		4 SPAN	355	199	127	88	64	49	39	31	24	18	14	11	---

ALUMINUM CANOPY PANELS -- RIBS UP -- PANELS HUNG BENEATH SUPPORTING STRUCTURE -- UPLIFT LOADING (ALLOWABLE LOADS HAVE NOT BEEN FACTORED UP 33% DUE TO WIND INDUCED UPLIFT)

UPLIFT DATA : MAXIMUM ALLOWABLE UNIFORM LOADING IN POUNDS PER SQUARE FOOT															
			3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0
3 	0.040	1 SPAN	169*	127*	101*	61	38	26	18	13	---	---	---	---	---
		2 SPAN	143*	107*	86*	71	53	40	32	26	21	18	14	11	---
		3 SPAN	163*	122*	98*	81*	65	48	34	25	19	14	11	---	---
		4 SPAN	157*	117*	94*	78*	61	47	36	26	20	15	12	---	---
3 	0.040	1 SPAN	127*	95*	76*	48	30	20	14	10	---	---	---	---	---
		2 SPAN	107*	81*	64*	54*	40	31	24	20	16	14	11	---	---
		3 SPAN	122*	92*	73*	61*	49	38	27	20	15	11	---	---	---
		4 SPAN	117*	88*	70*	59*	46	36	28	21	16	12	---	---	---

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GENERAL NOTES:

- 1) ALUMINUM CANOPY PANEL SECTION PROPERTIES HAVE BEEN DETERMINED IN ACCORDANCE WITH THE ALUMINUM ASSOCIATION ALUMINUM DESIGN MANUAL 2015 "SPECIFICATION FOR ALUMINUM STRUCTURES".
- 2) USE "1 SPAN" LOAD TABLE VALUES FOR SIMPLY - SUPPORTED SPANS ONLY.
- 3) USE "2 SPAN", "3 SPAN" OR "4 SPAN" LOAD TABLE VALUES ONLY FOR 2 OR MORE EQUAL LENGTH SPANS COVERED WITH COMPLETE PANEL SECTION.
- 4) ALL LOADS ARE LIVE LOADS (DEAD WEIGHT OF PANEL HAS ALREADY BEEN SUBTRACTED).
- 5) LOADS TO LEFT OF HEAVY LINE WITH "*" ARE CONTROLLED BY BEARING CAPACITY (DEFLECTION < L/240).
- 6) LOADS TO LEFT OF HEAVY LINE WITHOUT "*" ARE CONTROLLED BY BENDING STRENGTH (DEFLECTION < L/240).
- 7) LOADS TO RIGHT OF HEAVY LINE ARE CONTROLLED BY DEFLECTION (DEFLECTION = L/240).
- 8) " --- " INDICATES THAT LIVE LOAD/UPLIFT CAPACITY IS LESS THAN 10 PSF. IT IS NOT RECOMMENDED THAT THIS SECTION BE UTILIZED AT THIS LENGTH.
- 9) ALUMINUM UTILIZED FOR ALL SECTIONS CONFORMS TO ALUMINUM ASSOCIATION ALLOY & TEMPER 3105-H14 (Ftu= 25 KSI, Fty= 22 KSI & Fcy= 19.8 KSI).

