

FOR USE ONLY WITH SUPPLY BRIGHT'S AWNING PROFILES



Awning Profile Engineering Properties

Profile	Material	Yield Strength	Moment of Inertia		Section Modulus				Polar Moment	
			xx	yy	xx Bottom	xx Top	yy Left	yy Right	of Inertia	Area
MP-1	6063-T5	27,000 psi	0.0455 in ⁴	0.0591 in ⁴	0.0982 in ³	0.0849 in ³	0.1182 in ³		0.1182 in ⁴	.436 in ²
MP-1A	6063-T5	27,000 psi	0.0393 in ⁴	0.0508 in ⁴	0.0801 in ³	0.0770 in ³	0.1015 in ³		0.0900 in ⁴	.358 in ²
MP-2	6063-T5	27,000 psi	0.0637 in ⁴	0.2344 in ⁴	0.1617 in ³	0.1052 in ³	0.2623 in ³	0.1459 in ³	0.2981 in ⁴	.478 in ²
MP-2A	6063-T5	27,000 psi	0.0532 in ⁴	0.1062 in ⁴	0.1142 in ³	0.0996 in ³	0.1623 in ³	0.0789 in ³	0.1594 in ⁴	.408 in ²
MP-2B	6063-T5	27,000 psi	0.0596 in ⁴	0.0890 in ⁴	0.1377 in ³	0.1052 in ³	0.1265 in ³	0.0687 in ³	0.1486 in ⁴	.401 in ²
MP-3	6063-T5	27,000 psi	0.1938 in ⁴	0.0702 in ⁴	0.1947 in ³	0.1929 in ³	0.1403 in ³		0.2640 in ⁴	.416 in ²
MP-3A	6063-T5	27,000 psi	0.3471 in ⁴	0.2916 in ⁴	0.2933 in ³	0.4252 in ³	0.1702 in ³	0.3706 in ³	0.6387 in ⁴	.657 in ²
MP3S	6063-T5	27,000 psi	0.2305 in ⁴	0.0730 in ⁴	0.2279 in ³	0.2332 in ³	0.1521 in ³	0.1377 in ³	0.3035 in ⁴	.525 in ²
MP3H	6063-T5	27,000 psi	0.2707 in ⁴	0.1012 in ⁴	0.2891 in ³	0.2545 in ³	0.2024 in ³		0.3719 in ⁴	.640 in ²
MP3HS	6063-T5	27,000 psi	0.3107 in ⁴	0.0945 in ⁴	0.3143 in ³	0.3072 in ³	0.2332 in ³	0.1589 in ³	0.4052 in ⁴	.737 in ²
MP-4	6005-T6	35,000 psi	1.6942 in ⁴	0.1694 in ⁴	0.8545 in ³	0.8399 in ³	0.3275 in ³	0.3508 in ³	1.8636 in ⁴	1.086 in ²
MI4	6063-T5	27,000 psi	0.0544 in ⁴	0.0544 in ⁴	0.1088 in ³		0.1088 in ³		0.1088 in ⁴	.427 in ²
MI09	6063-T5	27,000 psi	0.0437 in ⁴	0.0437 in ⁴	0.0874 in ³		0.0874 in ³		0.0874 in ⁴	.319 in ²
MI3H	6063-T5	27,000 psi	0.3172 in ⁴	0.1017 in ⁴	0.3172 in ³		0.2034 in ³		0.4188 in ⁴	.672 in ²
MI-56	6063-T5	27,000 psi	0.0516 in ⁴	0.0908 in ⁴	0.1256 in ³	0.0878 in ³	0.0726 in ³		0.1424 in ⁴	.341 in ²
MI 2x2	6063-T5	27,000 psi	0.5445 in ⁴	0.5445 in ⁴	0.5440 in ³		0.5440 in ³		1.1091 in ⁴	.930 in ²
MP 2x2	6063-T5	27,000 psi	0.5372 in ⁴	0.5572 in ⁴	0.5324 in ³	0.5421 in ³	0.5573 in ³		1.0964 in ⁴	.964 in ²

Elastic Modulus	9.91 x 10 ⁶ psi Tension 3.75 x 10 ⁶ psi Shear
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Density	0.097 lb/inch ³
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Note: The Awning Profile Engineering Properties are valid ONLY for the profiles supplied by and made for Supply Bright. Due to variances from other manufacturers this information CANNOT be used for any reliable testing data or reliable engineering data. Engineering properties MUST be obtained from the supplier of that specific profile.

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Profile Engineering Properties


GENERAL PROPERTIES		Elastic Modulus	9.91 x 10 ⁶ psi Tension		3.75 x 10 ⁶ psi Shear		Density 0.97 lb/inch ⁴			
Profile	Material Extruded Aluminum	Yield Strength	Moment of Inertia		Section Modulus				Polar Moment of Inertia	Area
			xx	yy	xx Bottom	xx Top	yy Left	yy Right		
MP1	6063-T5	27,000 psi	0.0465 in ⁴	0.0603 in ⁴	0.0983 in ³	0.0881 in ³	0.1206 in ³		0.1068 in ⁴	.451 in ²
MP1A	6063-T5	27,000 psi	0.0393 in ⁴	0.0508 in ⁴	0.0801 in ³	0.0770 in ³	0.1015 in ³		0.0900 in ⁴	.358 in ²
MP2	6063-T5	27,000 psi	0.0637 in ⁴	0.2344 in ⁴	0.1617 in ³	0.1052 in ³	0.2623 in ³	0.1459 in ³	0.2981 in ⁴	.478 in ²
MP2A	6063-T5	27,000 psi	0.0532 in ⁴	0.1062 in ⁴	0.1142 in ³	0.0996 in ³	0.1623 in ³	0.0789 in ³	0.1594 in ⁴	.408 in ²
MP2B	6063-T5	27,000 psi	0.0596 in ⁴	0.0890 in ⁴	0.1373 in ³	0.1052 in ³	0.1265 in ³	0.0687 in ³	0.1486 in ⁴	.401 in ²
MP3	6063-T5	27,000 psi	0.1938 in ⁴	0.0702 in ⁴	0.1947 in ³	0.1929 in ³	0.1403 in ³		0.2640 in ⁴	.416 in ²
MP3A	6063-T5	27,000 psi	0.3471 in ⁴	0.2916 in ⁴	0.2933 in ³	0.4252 in ³	0.1702 in ³	0.3706 in ³	0.6387 in ⁴	.657 in ²
MP3B	6063-T5	27,000 psi	0.2305 in ⁴	0.0730 in ⁴	0.2279 in ³	0.2332 in ³	0.1521 in ³	0.1377 in ³	0.3035 in ⁴	.525 in ²
MP3H	6063-T5	27,000 psi	0.2707 in ⁴	0.1012 in ⁴	0.2891 in ³	0.2545 in ³	0.2024 in ³		0.3719 in ⁴	.640 in ²
MP3HS	6063-T5	27,000 psi	0.3107 in ⁴	0.0945 in ⁴	0.3143 in ³	0.3072 in ³	0.2332 in ³	0.1589 in ³	0.4052 in ⁴	.737 in ²
MP4	6005-T6	35,000 psi	1.6942 in ⁴	0.1694 in ⁴	0.8545 in ³	0.8399 in ³	0.3275 in ³	0.3508 in ³	1.8636 in ⁴	1.086 in ²
MI4	6063-T5	27,000 psi	0.0544 in ⁴	0.0544 in ⁴	0.1088 in ³		0.1088 in ³		0.1088 in ⁴	.427 in ²
MI09	6063-T5	27,000 psi	0.0437 in ⁴	0.0437 in ⁴	0.0874 in ³		0.0874 in ³		0.0874 in ⁴	.319 in ²
MI10	6063-T5	27,000 psi	0.0485 in ⁴	0.0485 in ⁴	0.0969 in ³		0.0969 in ³		0.0969 in ⁴	.357 in ²
MI3H	6063-T5	27,000 psi	0.3172 in ⁴	0.1017 in ⁴	0.3172 in ³		0.2034 in ³		0.4188 in ⁴	.672 in ²
MI56	6063-T5	27,000 psi	0.0516 in ⁴	0.0908 in ⁴	0.1255 in ³	0.0878 in ³	0.0726 in ³		0.1424 in ⁴	.341 in ²
MP5	6063-T5	27,000 psi	0.0708 in ⁴	0.2869 in ⁴	0.1102 in ³	0.1978 in ³	0.1878 in ³	0.1949 in ³	0.3577 in ⁴	.557 in ²
MP5A	6063-T5	27,000 psi	0.2020 in ⁴	0.5332 in ⁴	0.4036 in ³	0.2021 in ³	0.3025 in ³	0.3068 in ³	0.7352 in ⁴	.860 in ²
MP-5B	6063-T5	27,000 psi	0.1575 in ⁴	0.3429 in ⁴	0.2881 in ³	0.1901 in ³	0.2311 in ³	0.2666 in ³	0.5005 in ⁴	.828 in ²
MP-5H	6063-T5	27,000 psi	0.1560 in ⁴	0.3568 in ⁴	0.2855 in ³	0.1882 in ³	0.2655 in ³	0.2743 in ³	0.5129 in ⁴	.840 in ²
SB6	6063-T5	27,000 psi	0.3858 in ⁴	9.7668 in ⁴	0.3535 in ³	0.7300 in ³	2.8328 in ³	2.8581 in ³	10.1526 in ⁴	1.6962 in ²
SB6S	6063-T5	27,000 psi	0.3583 in ⁴	9.0268 in ⁴	0.3084 in ³	0.7820 in ³	2.8257 in ³	2.4593 in ³	9.3851 in ⁴	1.5016 in ²
SB12	6063-T5	27,000 psi	0.4466 in ⁴	22.7673 in ⁴	0.3833 in ³	0.9815 in ³	4.7814 in ³	4.8227 in ³	23.2419 in ⁴	2.018 in ²
SBJS1	6063-T5	27,000 psi	0.0252 in ⁴	0.2912 in ⁴	0.0744 in ³	0.0896 in ³	0.2934 in ³	0.2934 in ³	0.3164 in ⁴	.5487 in ²
SBR1	6063-T5	27,000 psi	0.0750 in ⁴	0.0750 in ⁴	0.1788 in ³	0.0694 in ³	0.1788 in ³	0.0694 in ³	0.1500 in ⁴	.3456 in ²

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 <small>AWNING • EXTRUSIONS • SIDING</small>		Sign Profile Engineering Properties								
Profile	Material	Yield	Moment of Inertia		Section Modulus				Polar Moment	
	Extruded Aluminum	Strength	xx	yy	xx Bottom	xx Top	yy Left	yy Right	of Inertia	Area
MP-5	6063-T5	27,000 psi	0.0708 in ⁴	0.2869 in ⁴	0.1102 in ³	0.1978 in ³	0.1878 in ³	0.1949 in ³	0.3577 in ⁴	.559 in ²
MP5B	6063-T5	27,000 psi	0.1575 in ⁴	0.3429 in ⁴	0.2881 in ³	0.1901 in ³	0.2311 in ³	0.2666 in ³	0.5005 in ⁴	.828 in ²
MP5H	6063-T5	27,000 psi	0.1560 in ⁴	0.3568 in ⁴	0.2855 in ³	0.1882 in ³	0.2655 in ³	0.2743 in ³	0.5129 in ⁴	.840 in ²
MP5CH	6063-T5	27,000 psi	0.2000 in ⁴	0.6648 in ⁴	0.1957 in ³	0.4187 in ³	0.3735 in ³	0.4167 in ³	0.8648 in ⁴	.9507 in ²
SB6	6063-T5	27,000 psi	0.3858 in ⁴	9.7868 in ⁴	0.3535 in ³	0.7300 in ³	2.8328 in ³	2.8581 in ³	10.1526 in ⁴	1.6962 in ²
SB6S	6063-T5	27,000 psi	0.3583 in ⁴	9.0268 in ⁴	0.3084 in ³	0.7820 in ³	2.8257 in ³	2.4593 in ³	9.3851 in ⁴	1.5016 in ²
SB12	6063-T5	27,000 psi	0.4466 in ⁴	22.7973 in ⁴	0.3833 in ³	0.9815 in ³	4.7814 in ³	4.8227 in ³	23.2419 in ⁴	2.0118 in ²
SB12S	6063-T5	27,000 psi	0.4033 in ⁴	15.399 in ⁴	0.3371 in ³	0.9520 in ³	3.8731 in ³	3.4074 in ³	15.8023 in ⁴	1.7049 in ²
SFR1	6063-T5	27,000 psi	0.2584 in ⁴	0.2850 in ⁴	0.1520 in ³	0.3488 in ³	0.3739 in ³	0.1599 in ³	0.5434 in ⁴	.3717 in ²
SBR1	6063-T5	27,000 psi	0.0750 in ⁴	0.0750 in ⁴	0.1788 in ³	0.0694 in ³	0.1788 in ³	0.0694 in ³	0.1500 in ⁴	.3456 in ²
RFR1	6063-T5	27,000 psi	0.5507 in ⁴	0.6383 in ⁴	0.3757 in ³	0.7024 in ³	0.6664 in ³	0.3596 in ³	1.1890 in ⁴	1.0732 in ²
RFHR1	6063-T5	27,000 psi	0.5489 in ⁴	0.8539 in ⁴	0.3741 in ³	0.7011 in ³	0.6748 in ³	0.3991 in ³	1.4029 in ⁴	1.0822 in ²
RH1	6063-T5	27,000 psi	0.2353 in ⁴	0.7026 in ⁴	0.2442 in ³	0.4390 in ³	0.5917 in ³	0.4547 in ³	0.9380 in ⁴	1.0709 in ²
RH2	6063-T5	27,000 psi	0.2319 in ⁴	0.8887 in ⁴	0.2418 in ³	0.4291 in ³	0.5829 in ³	0.4804 in ³	1.1207 in ⁴	1.0783 in ²
SBR2	6063-T5	27,000 psi	0.0005 in ⁴	0.4111 in ⁴	0.0088 in ³	0.0088 in ³	0.2413 in ³	0.2413 in ³	0.4116 in ⁴	.4255 in ²
RFDR1	6063-T5	27,000 psi	0.2720 in ⁴	0.2390 in ⁴	0.2532 in ³	0.3398 in ³	0.3343 in ³	0.1701 in ³	0.5111 in ⁴	.7945 in ²
RFDR1	6063-T5	27,000 psi	0.2758 in ⁴	0.2565 in ⁴	0.2541 in ³	0.3492 in ³	0.3480 in ³	0.2039 in ³	0.5323 in ⁴	.8130 in ²
MI-21	6063-T5	27,000 psi	0.0396 in ⁴	0.1294 in ⁴	0.1058 in ³	0.1058 in ³	0.1726 in ³	0.1726 in ³	0.1691 in ⁴	.4993 in ²
RETROH	6063-T5	27,000 psi	0.0522 in ⁴	0.4364 in ⁴	0.1540 in ³	0.1289 in ³	0.3483 in ³	0.3649 in ³	0.4887 in ⁴	.7265 in ²
MI-20	6063-T5	27,000 psi	17.074 in ⁴	6.4867 in ⁴	4.6471 in ³	4.0643 in ³	2.6397 in ³	4.2047 in ³	23.5607 in ⁴	3.5623 in ²
SBHR1	6063-T5	27,000 psi	0.0015 in ⁴	0.0099 in ⁴	0.0049 in ³	0.0091 in ³	0.0242 in ³	0.0166 in ³	0.0115 in ⁴	.1262 in ²
SBJS1	6063-T5	27,000 psi	0.0252 in ⁴	0.2912 in ⁴	0.0744 in ³	0.0896 in ³	0.2934 in ³	0.2934 in ³	0.3164 in ⁴	.5487 in ²

Elastic Modulus	9.91 x 10 ⁶ psi Tension 3.75 x 10 ⁶ psi Shear
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Density	0.097 lb/inch ³
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