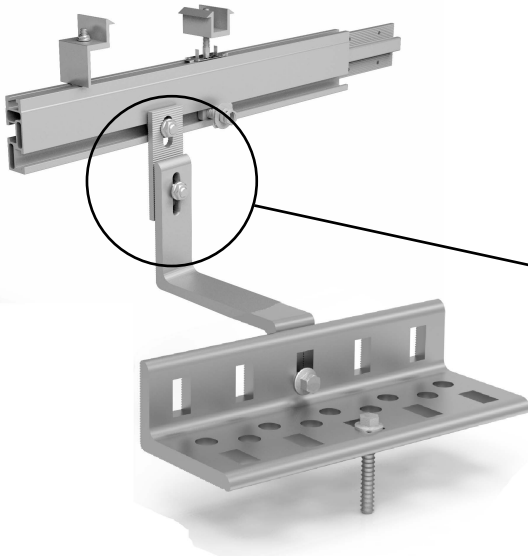


SWH Solar Mount Roof Hook

Part No. MR-SW-RF5.8LPB, MR-SW5.8LP



Roof hook material: 6005-T5 extruded aluminum alloy

Finish: Clear or black anodized

Bolt & nut material: 304 stainless steel

Roof hook weight: 0.674 lbs

Attach Roof Hook Part A to Part B with one 5/16" x 1" carriage bolt and one 5/16" ASTM F594 serrated flange nut.

Optional Extension Plate: MR-SW-EP-32, MR-SW-EP-32B

1.2"W X 3.2"H SS 3/8" X 1" hex bolts and flange nuts

CONFORMS TO
UL 2703

ETL CLASSIFIED



Intertek
4009330

Optional Sub Flashing: MR-SW-RF140906G-

14"W X 9"D X 1"H Galvanized Steel Roof Sub-Flashing, Mill Finish

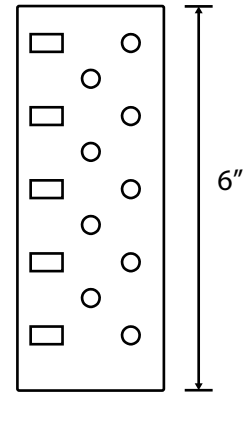
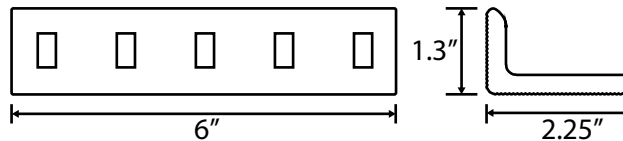
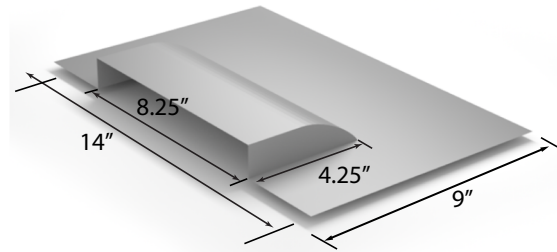
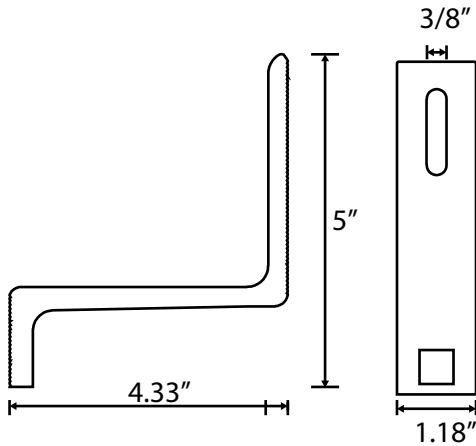


Table 11: Lag- pull-out (withdrawal) capacities (lbs) in typical roof lumber (ASD)

Sources: American Wood Council, NDS 2018, Table 12.2A and 12.3.3A.

Courtesy, American Wood Council, Leesburg, VA.

AWC Table 12.2A Lag Screw Reference Withdrawal Values, W¹

Tabulated withdrawal design values (W) are in pounds per inch of thread penetration into side grain of wood member. Length of thread penetration in main member shall not include the length of the tapered tip (see 12.2.1.1).

Specific Gravity, G ²	Lag Screw Diameter, D									
	1/4"	5/16"	3/8"	7/16"	1/2"	5/8"	3/4"	7/8"	1"	1-1/8"
0.73	397	469	538	604	668	789	905	1016	1123	1226
0.71	381	450	516	579	640	757	868	974	1077	1176
0.68	357	422	484	543	600	709	813	913	1009	1103
0.67	349	413	473	531	587	694	796	893	987	1078
0.58	281	332	381	428	473	559	641	719	795	869
0.55	260	307	352	395	437	516	592	664	734	802
0.51	232	274	314	353	390	461	528	593	656	716
0.50	225	266	305	342	378	447	513	576	636	695
0.49	218	258	296	332	367	434	498	559	617	674
0.47	205	242	278	312	345	408	467	525	580	634
0.46	199	235	269	302	334	395	453	508	562	613
0.44	186	220	252	283	312	369	423	475	525	574
0.43	179	212	243	273	302	357	409	459	508	554
0.42	173	205	235	264	291	344	395	443	490	535
0.41	167	198	226	254	281	332	381	428	473	516
0.40	161	190	218	245	271	320	367	412	455	497
0.39	155	183	210	236	261	308	353	397	438	479
0.38	149	176	202	227	251	296	340	381	422	461
0.37	143	169	194	218	241	285	326	367	405	443
0.36	137	163	186	209	231	273	313	352	389	425
0.35	132	156	179	200	222	262	300	337	373	407
0.31	110	130	149	167	185	218	250	281	311	339

1. Tabulated withdrawal design values, W, for lag screw connections shall be multiplied by all applicable adjustment factors (see Table 11.3.1).
2. Specific gravity, G, shall be determined in accordance with Table 12.3.3A.

AWC Table 12.3.3A Assigned Specific Gravities

Species Combination	Specific Gravity, G	Species Combination of MSR and MEL Lumber	Specific Gravity, G
Albino Cedar	0.47	Douglas Fir-Larch	0.50
Albino Hemlock	0.46	Eastern Hemlock	0.50
Albino Spruce	0.41	Engelmann Spruce-Lodgepole Pine	0.50
Albino Yellow Cedar	0.46	European Larch	0.50
Aspen	0.39	Heart Pine	0.50
Balsam Fir	0.36	Hemlock	0.50
Beech-Birch-Hickory	0.71	Hemlock-Timber	0.50
Coastal Spruce	0.39	Hemlock-Timber	0.50
Cottonwood	0.41	Hemlock-Timber	0.50
Douglas Fir-Larch	0.50	Hemlock-Timber	0.50
Douglas Fir-Larch (North)	0.49	Hemlock-Timber	0.50
Douglas Fir-Larch (South)	0.46	Hemlock-Timber	0.50
Eastern Hemlock	0.41	Hemlock-Timber	0.50
Eastern Hemlock-Balsam Fir	0.36	Hemlock-Timber	0.50
Eastern Hemlock-Timber	0.41	Hemlock-Timber	0.50
Eastern Hemlock-Timber (North)	0.47	Hemlock-Timber	0.50
Eastern Hemlock-Timber (South)	0.36	Hemlock-Timber	0.50
Eastern Spruce	0.41	Hemlock-Timber	0.50
Eastern White Pine	0.36	Hemlock-Timber	0.50
Engelmann Spruce-Lodgepole Pine	0.38	Hemlock-Timber	0.50
Heart Pine	0.41	Hemlock-Timber	0.50
Hem-Fir (North)	0.46	Hemlock-Timber	0.50
Mixed Maple	0.55	Hemlock-Timber	0.50
Mixed Oak	0.68	Hemlock-Timber	0.50
Mixed Southern Pine	0.51	Hemlock-Timber	0.50
Mountain Hemlock	0.47	Hemlock-Timber	0.50
Northern Pine	0.42	Hemlock-Timber	0.50
Northern Red Oak	0.68	Hemlock-Timber	0.50
Northern Spruce	0.35	Hemlock-Timber	0.50
Northern White Cedar	0.31	Hemlock-Timber	0.50
Parish Pine	0.41	Hemlock-Timber	0.50
Red Maple	0.58	Hemlock-Timber	0.50
Red Pine	0.44	Hemlock-Timber	0.50
Redwood	0.37	Hemlock-Timber	0.50
White Spruce	0.35	Hemlock-Timber	0.50
Southern Pine	0.51	Hemlock-Timber	0.50
Spruce-Pine-Fir	0.42	Hemlock-Timber	0.50
Spruce-Pine-Fir (North)	0.36	Hemlock-Timber	0.50
Western Cedar	0.36	Hemlock-Timber	0.50
Western Cedar (North)	0.35	Hemlock-Timber	0.50
Western Hemlock	0.47	Hemlock-Timber	0.50
Western Hemlock (North)	0.46	Hemlock-Timber	0.50
Western Juniper	0.42	Hemlock-Timber	0.50
Western White Pine	0.40	Hemlock-Timber	0.50
Western White Pine	0.38	Hemlock-Timber	0.50
White Oak	0.73	Hemlock-Timber	0.50
Yellow Pine	0.40	Hemlock-Timber	0.50

1. Specific gravity, G, based on weight and volume when oven-dry. Different specific gravities, G, are possible for different grades of MSR and MEL lumber (see Table 4C, Footnote 2).