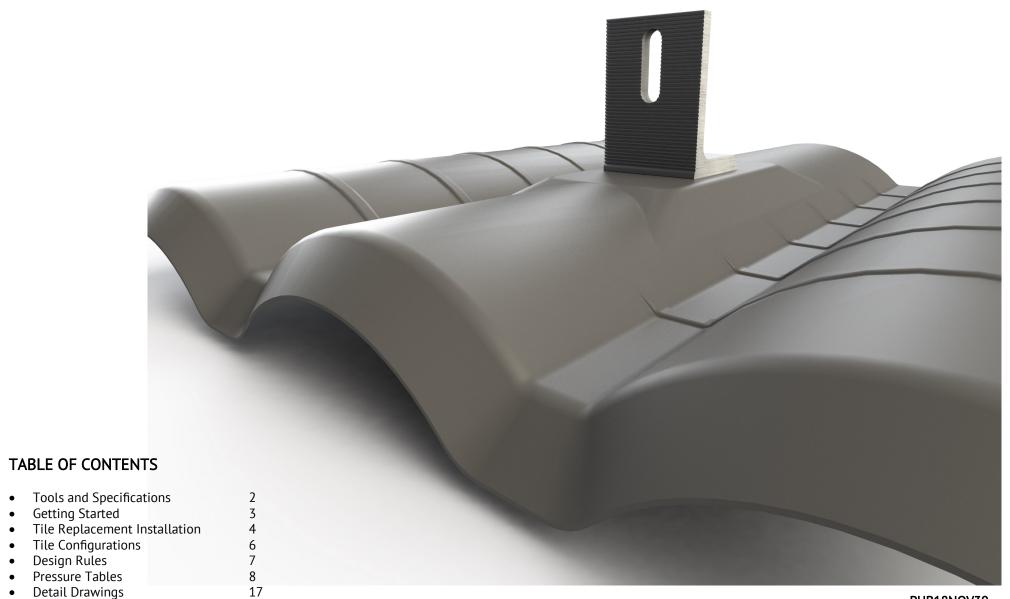
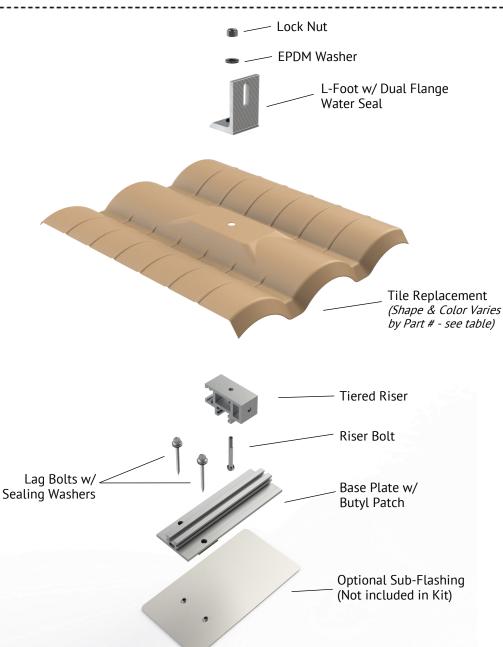


INSTALLATION & APPLICATION GUIDE





TOOLS & SPECIFICATIONS | 2 PAGE



TECHNICAL SPECIFICATIONS

MATERIAL TYPES

All Extruded Components: 6005A-T61 or 6061-T6 Aluminum

Tile Flashing & Subflashing (Optional):

5000 Series Aluminum Sheet

Hardware: 300 Series Stainless Steel

TOOLS REQUIRED OR RECOMMENDED FOR LAYOUT:

- Marker/Crayon
- String Line
- Measuring Tape
- Drill
- Pilot Drill Bit
- Ratchet/Driver-1/2"

SAFETY: All applicable OSHA safety guidelines should be observed when working on a PV installation job site. The installation and handling of of PV solar modules, electrical installation, and PV racking systems involves handling components with sharp metal edges. Rules regarding the use of gloves and other personal protective equipment (PPE) should observed,

PART #	TILE SHAPE	TILE COLOR
004TRFA	Flat	Adobe
004TRFD	Flat	Charcoal
004TRFM	Flat	Mill
004TRSA	Spanish	Adobe
004TRSD	Spanish	Charcoal
004TRSM	Spanish	Mill
004TRWA	W	Adobe
004TRWD	W	Charcoal
004TRWM	W	Mill



TILE REPLACEMENT CAPACITIES AND ENGINEERING

Refer to engineering report tables for tested allowable loads. Refer to local AHJ to determine the correct code (ASCE 7-05 or 7-10), wind speed and snow load. It is the responsibility of the installer to ensure these mounting attachments are appropriate for the application. Please contact your 3rd party engineer for more information.

ENGINEERING GUIDE LIMITATIONS

- Flush roof installations only
- Roof slope must be 0-45 degrees (0/12 12/12 pitch)
- Surrounding ground area must not slope more than 10 degrees
- Location must fall into Exposure Category B or C

Please refer to the Solarmount Installation Manual for proper installation of the Solarmount system. Unirac Flashkit Tile Replacements are intended to replace L-feet in the system and the rail connection should be torqued to the appropriate L-foot to rail torque specification from the Solarmount Manual.

Please refer to www.unirac.com in the Technical Support section for the Solarmount D&E guide which should be used in installations that do not comply with the limitations above.

FIGURE 1: Lag pull-out (withdrawal)	capacities (lbs)	in typical roof lumber (ASD)
	Specific Gravity	Lag Screw Specifications 5/16" shaft," per inch thread depth
Douglas Fir, Larch	0.50	266
Douglas Fir, South	0.46	235
Engelmann Spruce, Lodgepole Pine (MSR 1650f & higher)	0.46	235
Hem. Fir, Redwood (Close Grain)	0.43	212
Southern Pine	0.55	307
Spruce, Pine, Fir	0.42	205
Spruce, Pine, Fir (E of 2million PSI & higher grades of MSR & MEL)	0.50	266
SOURCES: AMERICAN WOOD COUN	CIL, NDS 2005, 7	TABLE 1

Figure 1 (for reference only) Refer to latest AWC, NDS data to select a lag bolt embedment depth to satisfy your Uplift Point Load Force (lbs), requirements. It is the installer's responsibility to verify that the substructure and attachment method is strong enough to support the maximum point loads calculated.

NOTES:

- (1) Thread must be embedded in the side grain of a rafter or other structural member integral with the building structure.
- (2) Lag bolts must be located in the middle third of the structural member.
- (3) This table does not include shear capacities. If necessary, contact a local engineer to specify lag bolt size with regard to shear forces.
- (4) Install lag bolts with head and washer flush to surface (no gap). Do not over torque.
- (5) Withdrawal design values for lag screw connections shall be multiplied by applicable adjustment factors if necessary. See table 10.3 in the American Wood Council NDS for Wood Construction



TILE REPLACEMENT INSTALLATION | 4 | PAGE



LAYOUT:

Locate rail attachment locations and remove corresponding tile that will be replaced by Unirac Tile Replacement.

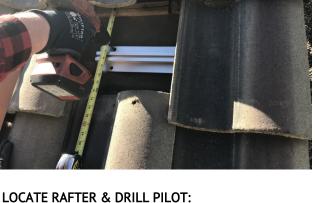


INSTALL BASE:

Optional: Place Tile Replacement Sub Flashing Align base over pilot holes and install base using supplied lag screws and sealing washers.



Locate rafter where tile was removed and align tile replacement base mounting holes over rafter and vertically. Mark and drill pilot holes.



PREPARE UNDERLAYMENT & BUTYL:

Clear any pilot hole debris from underlayment and peel to remove sealing patch release liner.



RISER CONFIGURATION:

The Universal Tile Base can be configured for all three tile types. See: Tile Configurations Page



PREPARE RISER:

Assemble tile replacement riser and bolt using the correct configuration for tile type.

(Can be completed before Base Installation; S-Tile Configuration Shown)



TILE REPLACEMENT INSTALLATION SUIDE PAGE





PLACE RISER:

Position riser on correct mating rail surfaces of base for tile type. Rotate bolt to slide as necessary. Align position of riser with crown of tile course.

(Can be completed before base installation; S-Tile Configuration Shown; See Also: Riser Configuration)



INSERT TILE FLASHING:

Lift upslope and adjacent tile to insert tile flashing into tile course. Position replacement flashing over riser and insert into replacement flashing. Riser can be freely slid to position with mating flashing hole.

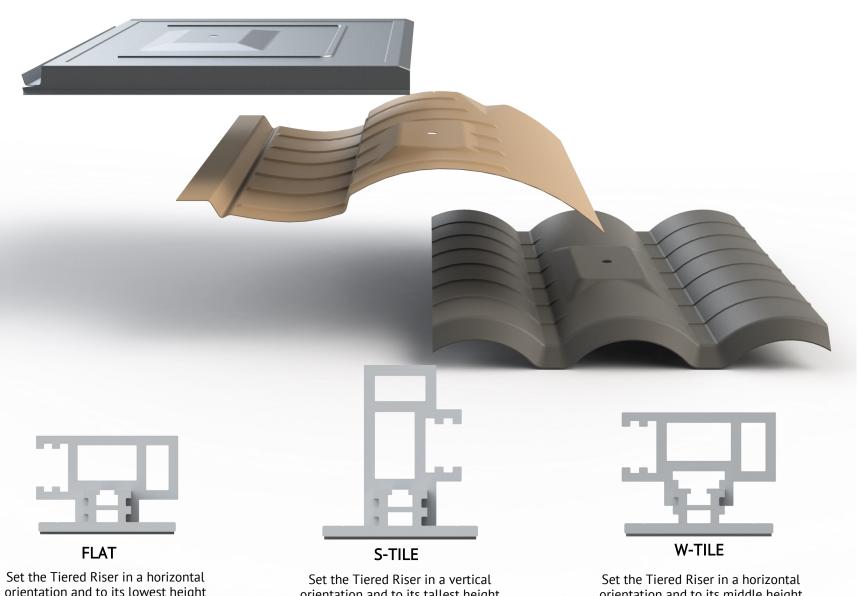


ATTACH L-FOOT:

Install sealing L-Foot, Washer and Locknut. Fastening assembly locks flashing, riser, and base together to achieve full capacity. Tighten to 20ft-lbs torque.



TILE CONFIGURATIONS INSTALLATION GUIDE PAGE



Set the Tiered Riser in a horizontal orientation and to its lowest height setting on the Base Plate to mount Flat Tile Replacements.

Set the Tiered Riser in a vertical orientation and to its tallest height setting on the Base Plate to mount Spanish Tile Replacements.

Set the Tiered Riser in a horizontal orientation and to its middle height setting on the Base Plate to mount W-Shaped Tile Replacements.





			Pressure L	imits (psf)	
Allewahle Chane (in)	Po	ortrait	Modules*	Lan	dscape	Modules*
Allowable Spans (in.)	Up	Down	Downslope	Up	Down	Downslope
72	31.1	43.2	16.0	51.2	71.3	26.3
60	37.3	51.9	19.1	61.5	85.6	31.6
48	46.6	64.8	23.9	76.9	107.0	39.5
36	62.1	86.4	31.9	102.5	142.6	52.6
24	93.2	129.7	47.9	153.7	213.9	78.9
12	186.4	259.3	95.7	307.5	427.9	157.9

ASSUMPTIONS & USE DETAILS:

- Pressure Limits refer to Up, Down, Downslope, and Lateral PSF
- Pressure Limits apply to all roof zones
- See Pressure Table Appendix for representative geographic pressures ore refer to Unirac Pressure Tables for Flush Mounted Systems on Unirac.com

LOAD CAPACITIES:

		Allowa	able	Ultimate	9
•	Tension Up	631	lbs	1433	lbs
•	Compression Down	878	lbs	2285	lbs
•	Downslope	324	lbs	803	lbs
•	Axial	473	lbs	1163	lbs

*PRESSURE LIMIT MODIFICATION GUIDELINES:

- Portrait Module Height 65 inchesLandscape Module Width 39.4 inches
- Pressure Limits provided may be linearly interpolated
- To Modify:
 - For Portrait Modules: multiply given pressure limit by (65"/ New Module Height)
 - For Landscape Modules: multiply given pressure limit by (39.5/ New Module Width)



PRESSURE TABLES | 8 | PAGE

	8 9	Bldg. Height = 15	= 15 f	ft. Down (psf)	B 9	Bldg. Height = 30 ft	ht = 30	ft. Down (psf)	8 9	Bldg. Height	Bldg. Height = 60 ft	T. Down (psf
Roof Pitch	Zone 1	Zone 2	Zone 3		Zone 1	Zone 2	Zone 3		Zone 1	Zone 2	Zone 3	
1:12	-9.7	-18.5	-29.5	15.1	-9.7	-18.5	-29.5	15.1	-12.1	-22.8	-36.1	15.1
2:12	-8.7	-17.4	-27.3	14.7	-8.7	-17.4	-27.3	14.7	-10.8	-21.5	-33.5	14.7
3:12	8.8	-17.5	-27.4	14.3	œ. %	-17.5	-27.4	14.3	-10.8	-21.5	-33.5	14.3
4:12	8.8	-17.5	-27.4	13.6	8. 8.	-17.5	-27.4	13.6	-10.8	-21.5	-33.5	13.6
5:12	8.8	-17.5	-27.4	13.6	œ. %	-17.5	-27.4	13.6	-10.8	-21.5	-33.6	13.6
6:12	-8.9	-17.6	-27.5	13.4	-8.9	-17.6	-27.5	13.4	-10.9	-21.6	-33.6	13.4
7:12	-9.9	-12.1	-12.1	13.3	-9.9	-12.1	-12.1	13.3	-12.3	-14.9	-14.9	15.4
8:12	-9.9	-12.1	-12.1	13.2	-9.9	-12.1	-12.1	13.2	-12.3	-15.0	-15.0	15.2
9:12	-10.0	-12.2	-12.2	13.1	-10.0	-12.2	-12.2	13.1	-12.3	-15.0	-15.0	15.1
10:12	-10.0	-12.2	-12.2	13.0	-10.0	-12.2	-12.2	13.0	-12.4	-15.0	-15.0	15.0
11:12	-10.1	-12.3	-12.3	12.8	-10.1	-12.3	-12.3	12.8	-12.4	-15.1	-15.1	14.9
12:12	-10.1	-12.3	-12.3	12.7	-10.1	-12.3	-12.3	12.7	-12.5	-15.1	-15.1	14.7
1:12	-12.1	-22.8	-36.1	15.1	-14.1	-26.5	-41.9	15.1	-16.5	-30.7	-48.5	15.1
2:12	-10.8	-21.5	-33.5	14.7	-12.6	-24.9	-38.8	14.7	-14.7	-28.9	-44.9	14.7
3:12	-10.8	-21.5	-33.5	14.3	-12.6	-24.9	-38.8	14.3	-14.7	-29.0	-44.9	14.3
4:12	-10.8	-21.5	-33.5	13.6	-12.6	-25.0	-38.8	13.6	-14.8	-29.0	-45.0	13.6
5:12	-10.8	-21.5	-33.6	13.6	-12.7	-25.0	-38.9	13.6	-14.8	-29.0	-45.0	13.6
6:12	-10.9	-21.6	-33.6	13.4	-12.7	-25.0	-38.9	13.4	-14.8	-29.1	-45.0	13.4
7:12	-12.3	-14.9	-14.9	15.4	-14.3	-17.4	-17.4	17.2	-16.7	-20.2	-20.2	19.3
8:12	-12.3	-15.0	-15.0	15.2	-14.3	-17.4	-17.4	17.1	-16.7	-20.2	-20.2	19.2
9:12	-12.3	-15.0	-15.0	15.1	-14.4	-17.5	-17.5	16.9	-16.7	-20.3	-20.3	19.1
10:12	-12.4	-15.0	-15.0	15.0	-14.4	-17.5	-17.5	16.8	-16.8	-20.3	-20.3	18.9
11:12	-12.4	-15.1	-15.1	14.9	-14.5	-17.5	-17.5	16.7	-16.8	-20.4	-20.4	18.8
12:12	-12.5	-15.1	-15.1	14.7	-14.5	-17.6	-17.6	16.6	-16.9	-20.4	-20.4	18.7
1:12	-14,9	-27.9	-44.1	15.1	-17.0	-31.5	-49.8	15.1	-19.3	-35.8	-56.4	15.1
2:12	-13.3	-26.3	-40.8	14.7	-15.1	-29.7	-46.1	14.7	-17.3	-33.7	-52.3	14.9
3:12	-13.3	-26.3	-40.9	14.3	-15.2	-29.8	-46.2	14.3	-17.3	-33.8	-52.3	14.5
4:12	-13.4	-26.3	-40.9	13.6	-15.2	-29.8	-46.2	13.6	-17.3	-33.8	-52.3	13.9
5:12	-13.4	-26.3	-40.9	13.6	-15.2	-29.8	-46.2	13.6	-17.4	-33.8	-52.4	13.8
6:12	-13.4	-26.4	-41.0	13.4	-15.3	-29.9	-46.3	13.4	-17.4	-33.9	-52.4	13.7
7:12	-15.1	-18.3	-18.3	17.9	-17.1	-20.8	-20.8	19.7	-19.5	-23.6	-23.6	21.9
8:12	-15.1	-18.4	-18.4	17.8	-17.2	-20.8	-20.8	19.6	-19.5	-23.6	-23.6	21.7
9:12	-15.2	-18.4	-18.4	17.7	-17.2	-20.9	-20.9	19.5	-19.6	-23.7	-23.7	21.6
10:12	-15.2	-18.4	-18.4	17.5	-17.3	-20.9	-20.9	19.4	-19.6	-23.7	-23.7	21.5
11:12	-15.2	-18.5	-18.5	17.4	-17.3	-20.9	-20.9	19.2	-19.6	-23.8	-23.8	21.4
12:12	-15.3	-18.5	-18.5	17.3	-17.3	-2T.0	-21.0	2	-19.7	-73.8	-23.8	ZI.3
Roof Pitch	55 = 0.0	SS = 0.1	55=0.2	SS = 0.3	55=0.4	SS = 0.5	58 = 1.0	SS = 1.25	55=1.5	Ss = 2.0	55 = 2.5	SS = 3.3
2 0		0.0		1.1	T.0	1.4	L.C		2.0	3.0	0.4	0, 1
2.12	101	101	D.1	7.7	7.7 7.4	0.2	7.4			0.0	4.0	ם מ
3:12	2.0	2.0	2.0	2.2	2.4		2.7	3.7	υ, α 4 π	0.0	4.0	u n
5:12	2.2	2.4	2.5	2.7	2.8	2.9	3.4	i K	0 00	4.4	£ 5	90.0
6:12	2.7	2.7		2.9		3.2	3.6	3,8	4.0	4.6	5.3	6.2
7:12	2.9	2.9	3.0	3.1	3.3	3.4	3.8	4.0	4.2	4.8	5.5	6.3
8:12	3.0	3.0	3.1	3.3	3.4	3.5	4.0	4.1	4.4	4.9	5.6	6.5
9:12	3.2	3.2	3.3	3.4	3.6		4.1	4.2	4.5	5.0	5.7	6.5
10:12	3.3	3.3		3.5	3.7	3.8	4.2	4.3	4.6	5.1	5.8	9.9
11:12	3.3	3.3	3.5	3.6	3.7	3.8	4.2	4.4	4.6	5.2	5.9	9.9
				1	0	0						

California*

ASCE

7-05

85 mph

Basic Wind Speed

5 psf

Ground Snow Load



PRESSURE TABLES | 9 | PAGE

	8	Bidg. Height	= 15	ft. Down (nef)	<u> </u>	Bldg. Height = 50 ft.	Jef = 30	Down (nef)	<u> </u>	DIGE HEIGH	bidg, neignt = ou it.	L. Down (nef
Roof Pitch	Zone 1	Zone 2	Zone 3		Zone 1	Zone 2	Zone 3		Zone 1	Zone 2	Zone 3	
1:12	-11.1	-20.9	-33.3	15.1	-11.1	-20.9	-33.3	15.1	-13.7	-25.7	-40.7	15.1
2:12	-9.8	-19.7	-30.8	14.7	-9.8	-19.7	-30.8	14.7	-12.2	-24.2	-37.7	14.7
3:12	-9.9	-19.7	-30.8	14.3	6.6-	-19.7	-30.8	14.3	-12.2	-24.2	-37.7	14.3
4:12	-9.9	-19.8	-30.9	13.6	-9.9	-19.8	-30.9	13.6	-12.3	-24.3	-37.7	13.6
5:12	-9.9	-19.8	-30.9	13.6	-9.9	-19.8	-30.9	13.6	-12.3	-24.3	-37.8	13.6
6:12	-10.0	-19.8	-30.9	13.4	-10.0	-19.8	-30.9	13.4	-12.3	-24.3	-37.8	13.4
7:12	-11.2	-13.7	-13.7	14.4	-11.2	-13.7	-13.7	14.4	-13.9	-16.9	-16.9	16.8
8:12	-11.3	-13.7	-13.7	14.3	-11.3	-13.7	-13.7	14.3	-13.9	-16.9	-16.9	16.7
9:12	-11.3	-13.8	-13.8	14.2	-11.3	-13.8	-13.8	14.2	-14.0	-17.0	-17.0	16.6
10:12	-11.4	-13.8	-13.8	14.1	-11.4	-13.8	-13.8	14.1	-14.0	-17.0	-17.0	16.4
11:12	-11.4	-13.9	-13.9	13.9	-11.4	-13.9	-13.9	13.9	-14.0	-17.0	-17.0	16.3
12:12	-11.4	-13.9	-13.9	13.8	-11.4	-13.9	-13.9	13.8	-14.1	-17.1	-17.1	16.2
1:12	-13.7	-25.7	-40.7	15.1	-16.0	-29.8	-47.1	15.1	-18.6	-34.6	-54.5	15.1
2:12	-12.2	-24.2	-37.7	14.7	-14.3	-28.1	-43.6	14.7	-16.7	-32.6	-50.5	14.7
3:12	-12.2	-24.2	-37.7	14.3	-14.3	-28.1	-43.7	14.3	-16.7	-32.6	-50.5	14.3
4:12	-12.3	-24.3	-37.7	13.6	-14.3	-28.1	-43.7	13.6	-16.7	-32.6	-50.6	13.6
5:12	-12.3	-24.3	-37.8	13.6	-14.4	-28.2	-43.7	13.6	-16.7	-32.7	-50.6	13.6
6:12	-12.3	-24.3	-37.8	13.4	-14.4	-28.2	-43.8	13.4	-16.8	-32.7	-50.6	13.4
7:12	-13.9	-16.9	-16.9	16.8	-16.2	-19.6	-19.6	18.9	-18.8	-22.8	-22.8	21.2
8:12	-13.9	-16.9	-16.9	16.7	-16.2	-19.7	-19.7	18.7	-18.8	-22.8	-22.8	21.1
9:12	-14.0	-17.0	-17.0	16.6	-16.2	-19.7	-19.7	18.6	-18.9	-22.9	-22.9	21.0
10:12	-14.0	-17.0	-17.0	16.4	-16.3	-19.7	-19.7	18.5	-18.9	-22.9	-22.9	20.9
11:12	-14.0	-17.0	-17.0	16.3	-16.3	-19.8	-19.8	18.4	-19.0	-23.0	-23.0	20.8
12:12	-14.1	-17.1	-17.1	16.2	-16.4	-19.8	-19.8	18.3	-19.0	-23.0	-23.0	20.6
1:12	-16.9	-31.4	-49.6	15.1	-19.2	-35.5	-56.0	15.1	-21.8	-40.3	-63.4	15.1
2:12	-15.1	-29.6	-45.9	14.7	-17.1	-33.5	-51.9	14.9	-19.5	-38.0	-58.8	15.9
3:12	-15.1	-29.6	-46.0	14.3	-17.2	-33.5	-51.9	14.4	-19.5	-38.0	-58.8	15.4
4:12	-15.1	-29.6	-46.0	13.6	-17.2	-33.5	-51.9	13.9	-19.6	-38.0	-58.8	15.2
5:12	-15.2	-29.7	-46.0	13.6	-17.2	-33.6	-52.0	13.8	-19.6	-38.1	-58.8	15.1
6:12	-15.2	-29.7	-46.1	13.4	-17.3	-33.6	-52.0	13.7	-19.6	-38.1	-58.9	15.0
7:12	-17.0	-20.7	-20.7	19.7	-19.3	-23.4	-23.4	21.7	-22.0	-26.6	-26.6	24.1
8:12	-17.1	-20.7	-20.7	19.5	-19.4	-23.5	-23.5	21.6	-22.0	-26.6	-26.6	24.0
9:12	-17.1	-20.8	-20.8	19.4	-19.4	-23.5	-23.5	21.5	-22.1	-26.7	-26.7	23.9
10:12	-17.2	-20.8	-20.8	19.3	-19.5	-23.5	-23.5	21.4	-22.1	-26.7	-26.7	23.7
11:12	-17.2	-20.8	-20.8	19.2	-19.5	-23.6	-23.6	21.2	-22.1	-26.8	-26.8	23.6
12:12	-17.2	-20.9	-20.9	19.1	-19.5	-23.6	-23.6	21.1	-22.2	-26.8	-26.8	23.5
Roof Pitch	Ss = 0.0	Ss = 0.1	Ss = 0.2	Ss = 0.3	Ss = 0.4	Ss = 0.5	Ss = 1.0	Ss = 1.25	Ss = 1.5	Ss = 2.0	Ss = 2.5	Ss = 3.1
1:12	0.7	8.0	1.0	1.1	1.3	1.4	1.9	2.1	2.5	3.2	4.0	4.8
2:12	1.4	1.4	1.6	1.7	1.9	2.0	2.4	2.6	2.9	3.6	4.3	5.2
3:12	1.9	1.9	2.0	2.2	2.4	2.5	2.9	3.1	3.4	3,9	4.6	5.5
4:12	2.0	2.0	2.2	2.4	2.5	5.6	3.1	3.2	3.5	4.2	4.9	5.8
5:12	2.4	2.4	2.5	2.7	2.8	2.9	3.4	3.5	3.8	4.4	5.1	0.9
6:12	2.7	2.7	2.8	2.9	3.1	3.2	3.6	3.8	4.0	4.6	5.3	6.2
7:12	2.9	2.9	3.0	3.1	3.3	3.4	3.8	4.0	4.2	4.8	5.5	6.3
8:12	3.0	3.0	3.1	3.3	3.4	3.5	4.0	4.1	4.4	4.9	5.6	6.5
9:12	3.2	3.2	3.3	3.4	3.6	3.7	4.1	4.2	4.5	5.0	5.7	6.5
10:12	3.3	3.3	3.4	3.5	3.7	3,8	4.2	4.3	4.6	5.1	5.8	9.9
11:12		3.3	3.5	3.6	3.7	3.8	4.2	4.4	4.6	5.2		9

Southwest*

ASCE

7-05

90 mph

Basic Wind Speed

5 psf

Ground Snow Load

* This table is not inclusive of all areas within the state or region. The local wind speeds and snow loads should be independently verified for the specific install location.

Southwest includes Arizona, New Mexico, Nevada and similar regions.



t.		26.2	24.9	23.4	20.5	19.2	18.0	19.4	18.4	17.5	16.7	16.3	16.2	26.2	24.9	23.4	20.5	19.2	18.0	22.8	21.7	21.0	20.9	20.8	20.6	26.2	26.0	24.5	20.7	19.5	18.4	24.0	23.9	23.7	23.6	23.5	= 3.1	0	6.3	7.4	7.8	m 0	Ø,0	, a	8.7	8.6	8.4
<u>ئ</u>	3	56	2,	23	20	13	15	13	18	1	1(1(1(2(2,	23	2(ï	18	2	2	2	5 5	7 6	7	56	7	7	7	H	2 6	2,	2	23	23	23	SS	ιŲ	9	_	7	00 0	x 0 0	0 0	0 00	00	00
ht = 60	Zone 3	40.7	-37.7	-37.7	-37.7	-37.8	-37.8	-16.9	-16.9	-17.0	-17.0	-17.0	-17.1	-54.5	-50.5	-50.5	-50.6	-50.6	-50.6	-22.8	-22.8	-22.9	-22.9	-73.0	-23.0	-63.4	28.8	28.8	× × ×	28.8	26.5	-26.6	-26.7	-26.7	-26.8	-26.8	Ss = 2.5	4.3	5.7	6.7	7.1	7.6	6.7	0.1	8.1	8.0	7.8
Bldg. Height = 60 ft.	Zone 2	-25.7	-24.2	-24.2	-24.3	-24.3	-24.3	-16.9	-16.9	-17.0	-17.0	-17.0	-17.1	-34.6	-32.6	-32.6	-32.6	-32.7	-32.7	-22.8	-22.8	-22.9	-22.9	23.0	-23.0	-40.3	-38.0	-38.0	-38.0	-38.1	1.85-	-26.6	-26.7	-26.7	-26.8	-26.8	Ss = 2.0	3.8	5.1	6.2	9.9	7.1	7.6	7.6	7.6	7.5	7.3
Ble	Zone 1	-13.7	-12.2	-12.2	-12.3	-12.3	-12.3	-13.9	-13.9	-14.0	-14.0	-14.0	-14.1	-18.6	-16.7	-16.7	-16.7	-16.7	-16.8	-18.8	-18.8	-18.9	-18.9	-19.0	-19.0	-21.8	-19.5	-19.5	-19.6	19.6	22.0	-22.0	-22.1	-22.1	-22.1	-22.2	Ss = 1.5	3.2	4.6	9.6		6.5	0.0	7.1	7.1	7.0	8.9
t.	(led) IIIAO	26.2	24.9	23.4	20.5	19.2	18.0	17.6	16.6	15.7	14.9	14.2	13.8	26.2	24.9	23.4	20.5	19.2	18.0	21.0	19.9	19.0	18.5	18.4	18.3	26.2	25.1	23.6	19.8	18.6	17.4	21.6	21.5	21.4	21.2	21.1	Ss = 1.25	5.9	4.3	5.4	5.7	6.2	9.9	0 0	0.8	6.7	9.9
= 301	Zone 3	-33.3	-30.8	-30.8	-30.9	-30.9	-30.9	-13.7	-13.7	-13.8	-13.8	-13.9	-13.9	-47.1	-43.6	-43.7	-43.7	-43.7	-43.8	-19.6	-19.7	-19.7	-19.7	× 5	-19.8	-56.0	-51.9	-51.9	615-	-52.0	0.26-	-33.5	-23.5	-23.5	-23.6	-23.6	Ss = 1.0	2.8	4.1	5.2	9.5	6.1	6.4	0.0	9.9	9.9	6.4
Bidg. Height	Zone 2	-20.9	-19.7	-19.7	-19.8	-19.8	-19.8	-13.7	-13.7	-13.8	-13.8	-13.9	-13.9	-29.8	-28.1	-28.1	-28.1	-28.2	-28.2	-19.6	-19.7	-19.7	-19.7	-19.8	-19.8	-35.5	-33.5	-33.5	-33.5	-33.6	23.0	-23.5	-23.5	-23.5	-23.6	-23.6	Ss = 0.5	2.3	3.7	2.0	5.4	0.9	6.6	0.0	9.9	6.5	6.3
Blo	Zone 1	-11.1	8.6-	6.6-	6.6-	6.6-	-10.0	-11.2	-11.3	-11.3	-11.4	-11.4	-11.4	-16.0	-14.3	-14.3	-14.3	-14.4	-14.4	-16.2	-16.2	-16.2	-16.3	-TD.3	-16.4	-19.2	-17.1	-17.2	77.7	17.2	-17.3	-19.4	-19.4	-19.5	-19.5	-19.5	Ss = 0.4	2.2	3.7	2.0	5.4	0.9	6.6	0.0	9.9	6.5	6.3
T.	(Isd) IIMO	26.2	24.9	23.4	20.5	19.2	18.0	17.6	16.6	15.7	14.9	14.2	13.8	26.2	24.9	23.4	20.5	19.2	18.0	19.4	18.4	17.5	16.7	10.3	16.2	26.2	24.9	23.4	19.6	18.4	21.0	20.0	19.4	19.3	19.2	19.1	Ss = 0.3	2.1	3.7	2.0	5.4	0.9	6.4	0.0	6.6	6.5	6.3
= 15 1	Zone 3	-33.3	-30.8	-30.8	-30.9	-30.9	-30.9	-13.7	-13.7	-13.8	-13.8	-13.9	-13.9	40.7	-37.7	-37.7	-37.7	-37.8	-37.8	-16.9	-16.9	-17.0	-17.0	17.0	-1/.1	-49.6	45.9	46.0	46.0	46.0	20.7	-20.7	-20.8	-20.8	-20.8	-20.9	Ss = 0.2	2.0	3.7	2.0	5.4	0.9	6.6	0.0	9.9	6.5	6.3
Bldg. Height = 15	Zone 2	-20.9	-19.7	-19.7	-19.8	-19.8	-19.8	-13.7	-13.7	-13.8	-13.8	-13.9	-13.9	-25.7	-24.2	-24.2	-24.3	-24.3	-24.3	-16.9	-16.9	-17.0	-17.0	17.0	-1/.1	-31.4	-29.6	-29.6	9.67-	700	7.67-	-20.7	-20.8	-20.8	-20.8	-20.9	Ss = 0.1	2.0	3.7	2.0	5.4	0.9	6.4	0.0	9.9	6.5	6.3
BIC	Zone 1	-11.1	8.6-	6.6-	6.6-	-9.9	-10.0	-11.2	-11.3	-11.3	-11.4	-11.4	-11.4	-13.7	-12.2	-12.2	-12.3	-12.3	-12.3	-13.9	-13.9	-14.0	-14.0	-14.0	-14.1	-16.9	-15.1	-15.1	12.1	15.2	17.0	-17.1	-17.1	-17.2	-17.2	-17.2	Ss = 0.0	2.0	3.7	2.0	5.4	0.9	6.4	0.0	9.9	6.5	6.3
	Roof Pitch	1:12	2:12	3:12	4:12	5:12	6:12	7:12	8:12	9:12	10:12	11:12	12:12	1:12	2:12	3:12	4:12	5:12	6:12	7:12	8:12	9:12	10:12	77:17	12:12	1:12	2:12	3:12	4:12	5:12	2:12	8:12	9:12	10:12	11:12	12:12	Roof Pitch	1:12	2:12	3:12	4:12	5:12	5:12	8-12	9:12	10:12	11:12
	Н	_		Ex	pos	sur	e C	ate	ego	rv E	3					Fx	pos	SUL	e C	ate	gor	v C			7			Evn	OSI	Iro	Cat	tego	Vrv.	D						-	Dr	wn	Slo	ne			

Mid US*

ASCE

7-05

90 mph

Basic Wind Speed

25 psf

Ground Snow Load

* This table is not inclusive of all areas within the state or region. The local wind speeds and snow loads should be independently verified for the specific install location.

Mid US—Medium Snow Load



L. Down(psf		13.8	17.1	17.0	17.0	16.9	16.8	27.3	27.2	27.0	26.9	26.8	26.7	14.5	21.5	21.4	21.4	21.3	21.1	35.2	35.1	34.9	34.8	34.7	34.6	16.1	24.3	24.3	24.2	24.1	24.0	40.3	40.0	39.9	39.8	39.7	Ss = 3.1	4.8	5.2	5.5	5.8	0.0	6.3	6.5	6.5	9.9	9.9
8	one 3	-73.3	-68.0	-68.0	-68.0	-68.1	-68.1	-30.9	-30.9	-30.9	-31.0	-31.0	-31.1	-97.9	-90.8	-90.8	-90.8	6:06-	6.06-	-41.4	-41.4	-41.5	-41.5	41.5	41.6	-113.7	-105.5	-105.5	-105.5	-105.5	-105.6	48.1	48.2	-48.3	-48.3	-48.3	Ss = 2.5	4.0	4.3	4.6	4.9	5.1	, r	5.6	5.7	5.8	5.9
Up Pressures (psf) D	Zone 2	-46.7	-44.0	-44.0	-44.1	-44.1	-44.1	-30.9	-30.9	-30.9	-31.0	-31.0	-31.1	-62.5	-58.9	-58.9	-59.0	-59.0	-59.0	-41.4	-41.4	-41.5	-41.5	41.5	41.6	-72.6	-68.5	-68.5	-68.6	-68.6	-68.6	48.1	48.2	-48.3	-48.3	-48.3	Ss = 2.0	3.2	3.6	3.9	4.2	4.4	4.6	4.9	5.0	5.1	5.2
an n	Zone 1	-25.4	-22.7	-22.7	-22.8	-22.8	-22.8	-25.5	-25.6	-25.6	-25.6	-25.7	-25.7	-34.1	-30.6	-30.6	-30.6	-30.7	-30.7	-34.3	-34.3	-34.4	-34.4	-34.5	-34.5	-39.8	-35.7	-35.7	-35.7	-35.8	-35.8	-39.9	40.0	-40.1	-40.1	-40.1	Ss = 1.5	2.5	2.8	3.2	3.4	3.7	5.9	4.2	4.4	4.5	4.6
Down (psf)		13.8	14.8	14.7	14.6	14.5	14.4	23.1	22.9	22.8	22.7	22.6	22.5	13.8	19.1	19.1	19.0	18.9	18.8	31.0	30.8	30.7	30.6	30.5	30.4	14.7	22.0	21.9	21.8	21.7	21.6	36.0	35.8	35.7	35.5	35.4	Ss = 1.25	2.1		2.8			3.5	3.9	4.0	4.1	4.2
000	one 3	-60.1	-55.8	-55.8	-55.8	-55.8	-55.9	-25.2	-25.3	-25.3	-25.3	-25.4	-25.4	-84.7	-78.6	-78.6	-78.6	-78.7	-78.7	-35.7	-35.8	-35.8	-35.9	-35.9	-35.9	-100.5	-93.2	-93.3	-93.3	-93.3	-93.4	42.5	-42.6	-42.6	-42.7	-42.7	Ss = 1.0	1.9	2.3	5.6	2.8	3.1	3.5	3.7	3.8	3.9	4.0
Up Pressures (psf)	Zone 2	-38.2	-36.0	-36.0	-36.1	-36.1	-36.1	-25.2	-25.3	-25.3	-25.3	-25.4	-25.4	-54.0	-50.9	-51.0	-51.0	-51.0	-51.1	-35.7	-35.8	-35.8	-35.9	-35.9	-35.9	-64.1	-60.5	-60.5	9.09-	9.09-	9.09-	42.5	42.6	-42.6	-42.7	-42.7	Ss = 0.5	1.3	1.7	2.0	2.3	2.5	7.7	3.1	3.3	3.4	3.5
O O	Zone 1	-20.7	-18.5	-18.5	-18.5	-18.6	-18.6	-20.8	-20.9	-20.9	-20.9	-21.0	-21.0	-29.4	-26.4	-26.4	-26.4	-26.5	-26.5	-29.6	-29.6	-29.7	-29.7	-29.8	-29.8	-35.1	-31.4	-31.5	-31.5	-31.5		-35.2	35.3	-35.4	-35.4	-35.4	Ss = 0.4	1.2	1.5	1.8	2.1	2.3	2.0	3.0	3.1	3.3	3.4
Down (psf)		13.8	14.8	14.7	14.6	14.5	14.4	23.1	22.9	22.8	22.7	22.6	22.5	13.8	17.1	17.0	17.0	16.9	16.8	27.3	27.2	27.0	26.9	26.8	26.7	13.8	19.9	19.9	19.8	19.7	19.6	32.4	32.7	32.0	31.9	31.8	Ss = 0.3	1.0	1.3	1.6	1.9	2.2	2.4	2.8	2.9	3.1	3.2
2	Zone 3	-60.1	-55.8	-55.8	-55.8	-55.8	-55.9	-25.2	-25.3	-25.3	-25.3	-25.4	-25.4	-73.3	-68.0	-68.0	-68.0	-68.1	-68.1	-30.9	-30.9	-30.9	-31.0	-31.0	-31.1	-89.1	-82.6	-82.7	-82.7	-82.7	-82.8	-37.6	-37.7	-37.7	-37.8	-37.8	Ss = 0.2	8.0	1.1	1.4	1.7	1.9	2.7	2.6	2.7	5.9	3.0
Up Pressures (psf)	Zone 2	-38.2	-36.0	-36.0	-36.1	-36.1	-36.1	-25.2	-25.3	-25.3	-25.3	-25.4	-25.4	-46.7	-44.0	-44.0	-44.1	-44.1	-44.1	-30.9	-30.9	-30.9	-31.0	-31.0	-31.1	-56.8	-53.6	-53.6	-53.6	-53.7	-53.7	-37.6	-37.7	-37.7	-37.8	-37.8	Ss = 0.1	9.0	6.0	1.2	1.5	1.7	2.0	2.4	2.5	2.7	2.8
Jan	Zone 1	-20.7	-18.5	-18.5	-18.5	-18.6	-18.6	-20.8	-20.9	-20.9	-20.9	-21.0	-21.0	-25.4	-22.7	-22.7	-22.8	-22.8	-22.8	-25.5	-25.6	-25.6	-25.6	-25.7	-25.7	-31.0	-27.8	-27.8	-27.8	-27.9	-27.9	-31.2	-31.2	-31.3	-31.3	-31.4	Ss = 0.0	0.3	9.0	6.0		1.5	1.0	2.1	2.3	2.5	5.6
	Roof Pitch	1:12	2:12	3:12	4:12	5:12	6:12	7:12	8:12	9:12	10:12	11:12	12:12	1:12	2:12	3:12	4:12	5:12	6:12	7:12	8:12	9:12	10:12	11:12	12:12	1:12	2:12	3:12	4:12	5:12	6:12	7:12	9-12	10:12	11:12	12:12	Roof Pitch	1:12	2:12	3:12	4:12	5:12	7:12	8:12	9:12	10:12	11:12
	۲	_		Fx	po	sun	e C	ate	200	ry I	В			_		Fy	ф	SHIP	e C	ate	gor	v C			7	ш		Evi	205	ure	Ca	tog	orv	D							Do	wn	Slo	no			

Louisiana*

ASCE

7-05

120 mph

Basic Wind Speed

0 psf

Ground Snow Load



)sd	<u> </u>			~				00						_	~																0 15		01			1									0.0
نی	Down (pst	14.7	21.9	21.9	21.8	21.7	21.6	36.0	35.8	35.7	35.6	35.5	35.3	18.3	27.9	27.8	27.7	27.6	27.5	46.7	46.6	46.5	46.3	46.2	46.1	20.6	31.7	31.7	31.6	31.5	31.4	53.5	53.4	53.2	53.1	53.0	4.8	5.2	5.5	5.8	6.0	6.2	6.3	6.5	6.5	9.0
ht = 60	zone3	-100.2	-93.0	-93.0	-93.0	-93.1	-93.1	-42.4	-42.4	-42.5	-42.5	-42.6	-42.6	-133.7	-124.0	-124.1	-124.1	-124.1	-124.2	-56.7	-56.8	-56.8	-56.8	-56.9	-56.9	-155.2	-144.0	-144.0	-144.0	-144.1	-144.1	-65.9	-66.0	-66.1	-66.1	-66.1	1.0		4.6	4.9	5.1	5.3		9.9	5.7	o.
Bldg. Height = 60 ft.	Up Pressures (psf)	-64.0	-60.4	-60.4	-60.4	-60.4	-60.5	-42.4	-42.4	-42.5	-42.5	-42.6	-42.6	-85.5	-80.7	-80.7	-80.7	-80.7	-80.8	-56.7	-56.8	-56.8	-56.8	-56.9	-56.9	-99.3	-93.7	-93.7	-93.8	-93.8	93.8	-65.9	-66.0	-66.1	-66.1	-66.1	3.2		3.9	4.2	4.4	4.6	4.8	4.9	5.0	5.1
8	Zone 1	-35.0	-31.4	-31.4	-31.4	-31.4	-31.5	-35.1	-35.2	-35.2	-35.3	-35.3	-35.3	-46.9	-42.1	-42.1	-42.2	-42.2	-42.2	-47.1	-47.1	-47.2	-47.2	47.2	47.3	-54.6	-49.0	-49.0	-49.1	-49.1	49.1	-54.8	-54.8	-54.9	-54.9	-55.0	2.5		3.2	3.4	3.7	3.9	4.1	4.2	4.4	J. 7
نه	Down (psf)	13.8	18.7	18.7	18.6	18.5	18.4	30.2	30.1	29.9	29.8	29.7	29.6	16.4	24.7	24.6	24.5	24.4	24.3	40.9	40.8	40.7	40.6	40.5	40.3	18.7	28.5	28.5	28.4	28.3	28.2	47.7	47.6	47.5	47.4	47.2	2.1				3.3	3.5	3.7	3.9	4.0	4.1
= 30 (cone 3	-82.3		-76.4	-76.4	-76.4	-76.5	-34.7	-34.8	-34.8	-34.8	-34.9	-34.9	-115.8	-107.4	-107.4	-107.5	-107.5	-107.5	-49.0	-49.1	-49.1	-49.2	-49.2	-49.2	-137.2	-127.4	-127.4	-127.4	-127.4		583	-58.3	-58.4	-58.4	-58.5	1.9	2.3	2.6	2.8	3.1	3.3	3.5	3.7	w 0	J. 7
dg. Heig	Up Pressures (psf)	-52.5		-49.5	-49.5	-49.6	-49.6	-34.7	-34.8	-34.8	-34.8	-34.9	-34.9	-74.0	8.69-	8.69-	8.69-	6.69-	6.69-	-49.0	-49.1	-49.1	-49.2	49.2	-49.2	-87.8	-82.8	-82.9	-82.9	-82.9	-83.0	58.3	-58.3	-58.4	-58.4	-58.5	1.3		2.0	2.3	2.5	2.7	5.9	3.1	E .	4.5
BIG	Zone 1	-28.6	-25.6	-25.6	-25.7	-25.7	-25.7	-28.7	-28.8	-28.8	-28.9	-28.9	-28.9	-40.5	-36.4	-36.4	-36.4	-36.4	-36.5	-40.7	-40.7	40.8	40.8	40.8	-40.9	-48.2	-43.3	43.3	-43.3	-43.3	43.4	48.4	-48.4	-48.5	-48.5	48.6	1.2	1.5	1.8	2.1	2.3	5.6	2.8	3.0	3.1	77
ند	Down (pst)	13.8		18.7	18.6	18.5	18.4	30.2	30.1	29.9	29.8	29.7	29.6	14.7	21.9	21.9	21.8	21.7	21.6	36.0	35.8	35.7	35.6		35.3	17.0	25.8	25.7	25.6	25.5	25.4	42.7	42.6	42.5	42.4	42.3	1.0	1.3	1.6	1.9	2.2	2.4	2.6	2.8	2.9	3.T
= 15 f	cone 3	-82.3	-76.4	-76.4	-76.4	-76.4	-76.5	-34.7	-34.8	-34.8	-34.8	-34.9	-34.9	-100.2	-93.0	-93.0	-93.0	-93.1	-93.1	-42.4	-42.4	42.5	-42.5	42.6	-42.6	-121.7	-112.9	-113.0	-113.0	-113.0	-113.1	-51.6	-51.7	-51.7	-51.8	-51.8	0.8		1.4	1.7	1.9	2.2	2.4	2.6	2.7	6.3
Bldg. Height = 15 ft.	Up Pressures (psf)	-52.5	-49.5	-49.5	-49.5	-49.6	-49.6	-34.7	-34.8	-34.8	-34.8	-34.9	-34.9	-64.0	-60.4	-60.4	-60.4	-60.4	-60.5	-42.4	-42.4	-42.5	-42.5	42.6	-42.6	-77.8	-73.4	-73.4	-73.5	-73.5	-73.5	-51.6	-51.7	-51.7	-51.8	-51.8	0.6			1.5	1.7	2.0			2.5	7.7
B	Zone 1	-28.6	-25.6	-25.6	-25.7	-25.7	-25.7	-28.7	-28.8	-28.8	-28.9	-28.9	-28.9	-35.0	-31.4	-31.4	-31.4	-31.4	-31.5	-35.1	-35.2	-35.2	-35.3	-35.3	-35.3	-42.6	-38.3	-38.3	-38.3	-38.4	-38.4	42.8	-42.9	-42.9	43.0	-43.0	0.3		6.0	1.2	1.5	1.7	1.9	2.1	2.3	5.5
	Roof Pitch	1:12	2:12	3:12	4:12	5:12	6:12	7:12	8:12	9:12	10:12	11:12	12:12	1:12	2:12	3:12	4:12	5:12	6:12	7:12	8:12	9:12	10:12	11:12	12:12	1:12	2:12	3:12	4:12	5:12	6:12	8:12	9:12	10:12	11:12	12:12	1:12	2:12	3:12	4:12	5:12	6:12	7:12	8:12	9:12	71:01
				Ex	(po	sur	e C	ate	ego	ry I	В					Ex	(po	sur	e C	ate	goi	v (;		Ť			Ex	005	ure	Ca	tego	ory I	D		\dashv				D	ow	n S	lope	2		

Florida*

ASCE

7-05

140 mph

Basic Wind Speed

0 psf

Ground Snow Load



	<u>a</u>	Bldg. Height	= 15 f	t.	B =	Bldg. Height = 30 ft.	ht = 30	ft.	20 5	Bldg. Height = 60 ft.	zht = 60	Tr.
Roof Pitch	Zone1	Zone 2	cone 3		Zone 1	Zone 2	Zone 3	in the second	Zone 1	Zone 2	Zone3	
1:12	-9.8	-18.6	-29.7	14.8	8.6-	-18.6	-29.7	14.8	-12.1	-22.9	-36.3	14.8
2:12	-8.7	-17.5	-27.5	14.4	-8.7	-17.5	-27.5	14.4	-10.8	-21.6	-33.6	14.4
3:12	-8.7	-17.6	-27.5	14.0	-8.7	-17.6	-27.5	14.0	-10.8	-21.6	-33.7	14.0
	-8.7	-17.6	-27.5	13.2	-8.7	-17.6	-27.5	13.2	-10.9	-21.6	-33.7	13.2
	8.8	-17.6	-27.6	13.2	8.8	-17.6	-27.6	13.2	-10.9	-21.6	-33.7	13.2
	8.8	-17.7	-27.6	13.0	8,	-17.7	-27.6	13.0	-10.9	-21.7	-33.8	13.0
	6.6-	-12.2	-12.2	13.3	6.6-	-12.2	-12.2	13.3	-12.3	-15.0	-15.0	15.4
	-10.0	-12.2	-12.2	13.2	-10.0	-12.2	-12.2	13.2	-12.4	-15.0	-15.0	15.3
\neg	-10.0	-12.2	-12.2	13.0	-10.0	-12.2	-12.2	13.0	-12.4	-15.1	-12.1	15.2
10:12	-10.1	-12.3	-12.3	12.9	-10.1	-12.3	-12.3	12.9	-12.4	-15.1	-12.1	15.0
11:12	-10.1	-12.3	-12.3	12.8	-10.1	-12.3	-12.3	12.8	-12.5	-15.2	-15.2	14.9
12:12	-10.2	-12.4	-12.4	12.7	-10.2	-12.4	-12.4	12.7	-12.5	-15.2	-15.2	14.8
Г	-12.1	-22.9	-36.3	14.8	-14.2	-26.6	-42.1	14.8	-16.6	-30.9	-48.7	14.8
	-10.8	-21.6	-33.6	14.4	-12.7	-25.1	-39.0	14.4	-14.8	-29.1	-45.1	14.4
	-10.8	-21.6	-33.7	14.0	-12.7	-25.1	-39.0	14.0	-14.8	-29.1	-45.2	14.0
4:12	-10.9	-21.6	-33.7	13.2	-12.7	-25.1	-39.0	13.2	-14.8	-29.1	-45.2	13.2
5:12	-10.9	-21.6	-33.7	13.2	-12.7	-25.1	-39.1	13.2	-14.9	-29.2	-45.2	13.2
6:12	-10.9	-21.7	-33.8	13.0	-12.8	-25.2	-39.1	13.0	-14.9	-29.2	-45.3	13.0
7:12	-12.3	-15.0	-15.0	15.4	-14.4	-17.5	-17.5	17.3	-16.7	-20.3	-20.3	19.4
8:12	-12.4	-15.0	-15.0	15.3	-14.4	-17.5	-17.5	17.1	-16.8	-20.4	-20.4	19.3
9:12	-12.4	-15.1	-15.1	15.2	-14.5	-17.6	-17.6	17.0	-16.8	-20.4	-20.4	19.1
10:12	-12.4	-15.1	-15.1	15.0	-14.5	-17.6	-17.6	16.9	-16.9	-20.4	-20.4	19.0
11:12	-12.5	-15.2	-15.2	14.9	-14.5	-17.6	-17.6	16.8	-16.9	-20.5	-20.5	18.9
12:12	-12.5	-15.2	-15.2	14.8	-14.6	-17.7	-17.7	16.7	-16.9	-20.5	-20.5	18.8
1:12	-15.0	-28.0	-44.3	14.8	-17.0	-31.7	-50.0	14.8	-19.4	-36.0	-56.7	14.8
	-13.4	-26.4	-41.0	14.4	-15.2	-29.9	-46.4	14.4	-17.4	-33.9	-52.5	15.0
3:12	-13.4	-26.4	-41.1	14.0	-15.2	-29.9	-46.4	14.0	-17.4	-33,9	-52.6	14.5
	-13.4	-26.4	-41.1	13.2	-15.3	-29.9	-46.4	13.2	-17.4	-34.0	-52.6	14.0
5:12	-13.5	-26.5	-41.1	13.2	-15.3	-30.0	-46.5	13.2	-17.4	-34.0	-52.6	13.9
6:12	-13.5	-26.5	-41.2	13.0	-15.3	-30.0	-46.5	13.0	-17.5	-34.0	-52.7	13.8
7:12	-15.2	-18.4	-18.4	18.0	-17.2	-20.9	-20.9	19.8	-19.6	-23.7	-23.7	21.9
8:12	-15.2	-18.5	-18.5	17.8	-17.3	-20.9	-20.9	19.7	-19.6	-23.8	-23.8	21.8
9:12	-15.2	-18.5	-18.5	17.7	-17.3	-21.0	-21.0	19.6	-19.7	-23.8	-23.8	21.7
10:12	-15.3	-18.5	-18.5	17.6	-17.3	21.0	0.12-	19.4	10.7	-23.8	23.8	21.6
12:12	-15.4	-18.6	-18.6	17.4	-17.4	-21.1	-21.1	19.2	-19.8	-23.9	-23.9	213
Roof Pitch	Ss = 0.0	Ss = 0.1	Ss = 0.2	Ss = 0.3	Ss = 0.4	Ss = 0.5	Ss = 1.0	Ss = 1.25	Ss = 1.5	Ss = 2.0	Ss = 2.5	Ss = 3.1
1:12	0.7	0.8	1.0	1.1	1.3	1.4	1.9	2.1	2.5	3.2	4.0	4.8
2:12	1.4	1.4	1.6	1.7		2.0	2.4				4.3	5.2
3:12	1.9	1.9	2.0	2.2	2.4	2.5	2.9		3.4		4.6	5.5
4:12	2.0	2.0	2.2	2.4	2.5	5.6	3.1	3.2	3.5	4.2	4.9	5.8
5:12	2.4	2.4	2.5	2.7	2.8	2.9	3.4		3.8	4.4	5.1	6.0
6:12	2.7	2.7	2.8	2.9	3.1	3.2	3.6	3.8	4.0	4.6	5.3	6.2
7:12	2.9	2.9	3.0	3.1	3.3	3.4	3.8	4.0	4.2	4.8	5.5	6.3
8:12	3.0	3.0	3.1	3.3	3.4	3.5	4.0	4.1	4.4	4.9	5.6	6.5
9:12	3.2	3.2	3.3	3.4	3.6	3.7	4.1	4.2	4.5	5.0	5.7	6.5
10:12	3.3	3.3	3.4	3.5	3.7	3.8	4.2	4.3	4.6	5.1	5.8	9.9
11:12	3.3	3.3	3.5	3.6	3.7	3.8	4.2	4.4	4.6		5.9	9.9
			0	0 1	0	0		* *				

California*

ASCE

7-10

110 mph

Basic Wind Speed

5 psf

Ground Snow Load



ft.	Down (psf)	14.8	14.4	14.0	13.2	13.2	13.0	16.5	16.4	16.3	16.2	16.0	15.9	14.8	14.5	14.1	13.4	13.3	13.2	20.9	20.8	20.6	20.5	20.4	20.3	14.8	15.7	15.3	15.0	14.9	14.8	23.7	23.6	23.4	23.3	23.2	$\dashv\vdash$	SS = 3.1		5.5	5.8	6.0	6.2	6.3	6.5	6.5	9.9	
tht = 60	zone3	-39.8	-36.9	-36.9	-36.9	-37.0	-37.0	-16.5	-16.5	-16.6	-16.6	-16.7	-16.7	-53.4	-49.5	-49.5	-49.5	-49.5	-49.6	-22.3	-22.3	-22.4	-22.4	-22.5	-22.5	-62.1	-57.5	-57.6	-57.6	-57.6	-57.7	-26.0	-26.1	-26.1	-26.2	7.07-	7.07-	SS = 2.5	2 4	4.6	4.9	5.1	5.3	5.5	5.6	5.7	5.8	
Bldg. Height = 60 ft.	Up Pressures (psf)	-25.1	-23.7	-23.7	-23.7	-23.8	-23.8	-16.5	-16.5	-16.6	-16.6	-16.7	-16.7	-33.8	-31.9	-31.9	-32.0	-32.0	-32.0	-22.3	-22.3	-22.4	-22.4	-22.5	-22.5	-39.4	-37.2	-37.2	-37.2	-37.3	-37.3	-26.0	-26.1	-26.1	-26.2	7.07-	7.07-	3.2		3.9	4.2	4.4	4.6	4.8	4.9	2.0	5.1	
8	Up Zone 1	-13.4	-11.9	-12.0	-12.0	-12.0	-12.1	-13.6	-13.6	-13.6	-13.7	-13.7	-13.8	-18.2	-16.3	-16.3	-16.3	-16.4	-16.4	-18.4	-18.4	-18.5	-18.5	-18.6	-18.6	-21.3	-19.1	-19.1	-19.1	-19.2	-19.2	-21.5	-21.6	-21.6	-21.6	7.17-	-717-	55 = 1.5			3.5	3.8	4.0	4.2	4.4	4.5	4.6	
t.	Down (psf)	14.8	14.4	14.0	13.2	13.2	13.0	14.2	14.1	14.0	13.8	13.7	13.6	14.8	14.4	14.0	13.2	13.2	13.0	18.6	18.4	18.3	18.2	18.1	17.9	14.8	14.7	14.3	13.7	13.6	13.5	21.3	21.2	21.1	20.0	20.3	7.07	55=1.25			3.2	3.5	3.8	4.0	4.1	4.2	4.3	
= 30 f	Zone 3	-32.6	-30.2	-30.2	-30.2	-30.2	-30.3	-13.4	-13.4	-13.5	-13.5	-13.6	-13.6	-46.1	-42.7	-42.7	-42.8	-42.8	-42.8	-19.2	-19.2	-19.3	-19.3	-19.4	-19.4	-54.8	-50.8	-50.8	-50.9	-50.9	-50.9	-22.9	-23.0	-23.0	-23.0	1.52-1	-73.I	55 = 1.0	2.4	2.9	3.1	3.4	3.6	3.8	4.0	4.1	4.2	
lg. Heigh	Up Pressures (psf)	-20.5	-19.3	-19.3	-19.3	-19.4	-19.4	-13.4	-13.4	-13.5	-13.5	-13.6	-13.6	-29.2	-27.5	-27.5	-27.5	-27.6	-27.6	-19.2	-19.2	-19.3	-19.3	-19.4	-19.4	-34.8	-32.8	-32.8	-32.8	-32.9	-32.9	-22.9	-23.0	-23.0	-23.0	1.52-	-23.1	55 = 0.5	2.0	2.5	5.6	2.9	3.2	3.4	3.5	3.7	3.8	
Ble	Up F Zone 1	-10.8	9.6-	9.6-	-9.7	-9.7	-9.7	-11.0	-11.0	-11.1	-11.1	-11.1	-11.2	-15.6	-14.0	-14.0	-14.0	-14.0	-14.1	-15.8	-15.9	-15.9	-15.9	-16.0	-16.0	-18.7	-16.8	-16.8	-16.8	-16.8	-16.9	-18.9	-19.0	-19.0	-19.0	1.61-	-19.1	55 = 0.4	10	2.4	2.5	2.8	3.1	3.3	3.4	3.6	3.7	
	Down (psf)	14.8	14.4	14.0	13.2	13.2	13.0	14.2	14.1	14.0	13.8	13.7	13.6	14.8	14.4	14.0	13.2	13.2	13.0	16.5	16.4	16.3	16.2	16.0	15.9	14.8	14.4	14.0	13.2	13.2	13.0	19.3	19.2	19.1	19.0	10.0	18./	SS = 0.3	17	2.2	2.4	2.7	2.9	3.1	3.3	3.4	3.5	
= 15 f	cone 3	-32.6	-30.2	-30.2	-30.2	-30.2	-30.3	-13.4	-13.4	-13.5	-13.5	-13.6	-13.6	-39.8	-36.9	-36.9	-36.9	-37.0	-37.0	-16.5	-16.5	-16.6	-16.6	-16.7	-16.7	-48.5	-45.0	-45.0	-45.0	-45.1	-45.1	-20.2	-20.3	-20.3	-20.4	-20.4	-20.4	SS = 0.2		2.0	2.2	2.5	2.8	3.0	3.1	3.3		
Bldg. Height = 15	Up Pressures (psf)	-20.5	-19.3	-19.3	-19.3	-19.4	-19.4	-13.4	-13.4	-13.5	-13.5	-13.6	-13.6	-25.1	-23.7	-23.7	-23.7	-23.8	-23.8	-16.5	-16.5	-16.6	-16.6	-16.7	-16.7	-30.7	-29.0	-29.0	-29.0	-29.0	-29.1	-20.2	-20.3	-20.3	-20.4	-20.4	-20.4	SS = 0.1	0.0	1.9	2.0	2.4	2.7	5.9	3.0	3.2	3.3	
Blc	Zone 1	-10.8	9.6-	9.6-	-9.7	-9.7	-9.7	-11.0	-11.0	-11.1	-11.1	-11.1	-11.2	-13.4	-11.9	-12.0	-12.0	-12.0	-12.1	-13.6	-13.6	-13.6	-13.7	-13.7	-13.8	-16.5	-14.7	-14.8	-14.8	-14.8	-14.9	-16.7	-16.7	-16.8	-16.8	-10.0	-16.9	SS = 0.0	1.4	1.9	2.0	2.4	2.7	5.9	3.0	3.2	3.3	
	Roof Pitch	1:12	2:12	3:12	4:12	5:12	6:12	7:12	8:12	9:12	10:12	11:12	12:12	1:12	2:12	3:12	4:12	5:12	6:12	7:12	8:12	9:12	10:12	11:12	12:12	1:12	2:12	3:12	4:12	5:12	6:12	7:12	8:12	9:12	10:12	21:11	12:12	1.12	2.12	3:12	4:12	5:12	6:12	7:12	8:12	9:12	10:12	
				Ex	pos	sur	e C	ate	pσn	rv	R			_		F	ро	SHIP	۵.0	ate	OTO!	24.6			7	ш		Ev	no	SUE	0.0	ato	gor	ry D			+				D	014	ın C	lop	ie.			-

Southwest*

ASCE

7-10

115 mph

Basic Wind Speed

5 psf

Ground Snow Load

* This table is not inclusive of all areas within the state or region. The local wind speeds and snow loads should be independently verified for the specific install location.

Southwest includes Arizona, New Mexico, Nevada and similar regions.



	St)																							·													н	·									=
نپ	Down (psf	25.9	24.6	23.1	20.2	18.9	17.7	19.2	18.2	17.3	16.5	16.0	15.9	25.9	24.7	23.2	20.3	19.0	17.8	22.5	21.4	20.6	20.5	20.4	20.3	25.9	25.9	24.4	20.6	19.4	18.2	24.0	23.4	23.3	23.2	23.1	Ss = 3.1	2.0	6.3	7.4	7.8	× ×	8 7	80	8.7	8.6	
ht = 60 f	zone3	-39.8	-36.9	-36.9	-36.9	-37.0	-37.0	-16.5	-16.5	-16.6	-16.6	-16.7	-16.7	-53.4	-49.5	-49.5	-49.5	-49.5	-49.6	-22.3	-22.3	-22.4	-22.4	-22.5	-22.5	-62.1	-57.5	-57.6	-57.6	-57.6	-57.7	-26.0	-26.1	-26.2	-26.2	-26.2	Ss = 2.5	4.3	5.7	6.7	7.1	7.6	0.7	8.1	8.1	8.0	0
Bldg. Height = 60 ft.	Up Pressures (psf)	-25.1	-23.7	-23.7	-23.7	-23.8	-23.8	-16.5	-16.5	-16.6	-16.6	-16.7	-16.7	-33.8	-31.9	-31.9	-32.0	-32.0	-32.0	-22.3	-22.3	-22.4	-22.4	-22.5	-22.5	-39.4	-37.2	-37.2	-37.2	-37.3	-37.3	-26.0	-26.1	-26.2	-26.2	-26.2	Ss = 2.0	3.8	5.1	6.2	9.9	7.1	7.6	7.6	9.7	7.5	
B	Up Zone 1	-13.4	-11.9	-12.0	-12.0	-12.0	-12.1	-13.6	-13.6	-13.6	-13.7	-13.7	-13.8	-18.2	-16.3	-16.3	-16.3	-16.4	-16.4	-18.4	-18.4	-18.5	-18.5	-18.6	-18.6	-21.3	-19.1	-19.1	-19.1	-19.2	-19.2	-21.5	-21.6	-21.6	-21.7	-21.7	Ss = 1.5	3.2	4.6	5.6		6.5	7.0	7.1	7.1	7.0	
ند	Down (psf)	25.9	24.6	23.1	20.2	18.9	17.7	17.5	16.4	15.5	14.7	14.0	13.6	25.9	24.6	23.1	20.2	18.9	17.7	20.7	19.7	18.8	18.2	18.1	17.9	25.9	24.9	23.4	19.6	18.4	17.3	22.2	21.1	21.0	20.9	20.7	Ss = 1.25	5.9	4.3	5.4	5.7	6.2	0.0	8.9	8.9	6.7	,
= 30 1	cone 3	-32.6	-30.2	-30.2	-30.2	-30.2	-30.3	-13.4	-13.4	-13.5	-13.5	-13.6	-13.6	-46.1	-42.7	-42.7	-42.8	-42.8	-42.8	-19.2	-19.2	-19.3	-19.3	-19.4	-19.4	-54.8	-50.8	-50.8	-50.9	-50.9	-50.9	-22.9	-23.0	-23.0	-23.1	-23.1	Ss = 1.0	2.8	4.1	5.2	2.6	6.1	6.6	6.7	9.9	9.9	
dg. Heigh	Up Pressures (psf) Zone 2 Z	-20.5	-19.3	-19.3	-19.3	-19.4	-19.4	-13.4	-13.4	-13.5	-13.5	-13.6	-13.6	-29.2	-27.5	-27.5	-27.5	-27.6	-27.6	-19.2	-19.2	-19.3	-19.3	-19.4	-19.4	-34.8	-32.8	-32.8	-32.8	-32.9	-32.9	-22.9	-23.0	-23.0	-23.1	-23.1	Ss = 0.5	2.3	3.7	2.0	5.4	0.9	99	9.9	9.9	6.5	
Blc	Up F Zone 1	-10.8	9.6-	9.6-	-9.7	-9.7	-9.7	-11.0	-11.0	-11.1	-11.1	-11.1	-11.2	-15.6	-14.0	-14.0	-14.0	-14.0	-14.1	-15.8	-15.9	-15.9	-15.9	-16.0	-16.0	-18.7	-16.8	-16.8	-16.8	-16.8	-16.9	-18.9	-19.0	-19.0	-19.1	-19.1	Ss = 0.4	2.2	3.7	2.0	5.4	6.0	1.0	9.9	9.9	6.5	
i,	Down (psf)	25.9	24.6	23.1	20.2	18.9	17.7	17.5	16.4	15.5	14.7	14.0	13.6	25.9	24.6	23.1	20.2	18.9	17.7	19.2	18.2	17.3	16.5	16.0	15.9	25.9	24.6	23.1	19.3	18.1	17.0	19.8	19.1	19.0	18.8	18.7	Ss = 0.3	2.1	3.7	2.0	5.4	0.0	6.6	9.9	9.9	6.5	
= 15 f	cone 3	-32.6	-30.2	-30.2	-30.2	-30.2	-30.3	-13.4	-13.4	-13.5	-13.5	-13.6	-13.6	-39.8	-36.9	-36.9	-36.9	-37.0	-37.0	-16.5	-16.5	-16.6	-16.6	-16.7	-16.7	-48.5	-45.0	-45.0	-45.0	-45.1	-45.1	-20.2	-20.3	-20.4	-20.4	-20.4	Ss = 0.2	2.0	3.7	2.0	5.4	0.9	9.9	9.9	9.9	6.5	
Bldg. Height = 15 ft.	Up Pressures (psf)	-20.5	-19.3	-19.3	-19.3	-19.4	-19.4	-13.4	-13.4	-13.5	-13.5	-13.6	-13.6	-25.1	-23.7	-23.7	-23.7	-23.8	-23.8	-16.5	-16.5	-16.6	-16.6	-16.7	-16.7	-30.7	-29.0	-29.0	-29.0	-29.0	-29.1	-20.2	-20.3	-20.4	-20.4	-20.4	Ss = 0.1	2.0	3.7		5.4	0.9	6.6	9.9	9.9	6.5	
Blc	Up P Zone 1	-10.8	9.6-	9.6-	-9.7	-9.7	-9.7	-11.0	-11.0	-11.1	-11.1	-11.1	-11.2	-13.4	-11.9	-12.0	-12.0	-12.0	-12.1	-13.6	-13.6	-13.6	-13.7	-13.7	-13.8	-16.5	-14.7	-14.8	-14.8	-14.8	-14.9	-16.7	-16.8	-16.8	-16.8	-16.9	Ss = 0.0	2.0	3.7		5.4	0.9	6.6	9.9	9.9	6.5	
	Roof Pitch	1:12	2:12	3:12	4:12	5:12	6:12	7:12	8:12	9:12	10:12	11:12	12:12	1:12	2:12	3:12	4:12	5:12	6:12	7:12	8:12	9:12	10:12	11:12	12:12	1:12	2:12	3:12	4:12	5:12	6:12	7:12	9:12	10:12	11:12	12:12	Roof Pitch	1:12	2:12	3:12	4:12	5:12	7:12	8:12	9:12	10:12	
	\dashv			Ex	ро	sur	e C	ate	ego	ry E	3					Ex	ро	sur	e C	ate	ego	ry (;		T			Ex	005	ure	Ca	iteg	ory	D	ш						Do	wn	Slo	pe	_		-

Up and Down (psf)

Mid US*

ASCE

CE 7-10

115 mph

Basic Wind Speed

25 psf

Ground Snow Load

* This table is not inclusive of all areas within the state or region. The local wind speeds and snow loads should be independently verified for the specific install location.

Mid US-Medium Snow Load

Side Load (psf)



TL.	cowin (psi)	14.0	20.8	20.7	20.6	20.5	20.4	33.9	33.8	33.7	33.5	33.4	33.3	17.4	26.4	26.3	26.2	26.1	26.0	44.0	43.9	43.7	43.6	43.5	43.4	19.5	30.0	29.9	29.8	29.7	29.6	50.5	50.3	50.2	50.1	50.0	49.9		4.8	5.2	5.5	5.8	6.0	5.2	0.0	6.5	9.9	9.9	,
8	Zone 3	-93.9	-87.1	-87.1	-87.1	-87.2	-87.2	-39.7	-39.7	-39.8	-39.8	-39.8	-39.9	-125.2	-116.2	-116.2	-116.3	-116.3	-116.3	-53.1	-53.1	-53.2	-53.2	-53.3	-53.3	-145.4	-134.9	-134.9	-135.0	-135.0	-135.0	-61.7	-61.8	-61.8	-61.9	-61.9	-61.9	Ss = 2.5	4.0	4.3	4.6	4.9		5.3	U. R	5.7	5.8	5.9	0
bidg. Height =	Zone 2 Z	-59.9	-56.5	-56.5	-56.6	-56.6	-56.6	-39.7	-39.7	-39.8	-39.8	-39.8	-39.9	-80.0	-75.5	-75.6	-75.6	-75.6	-75.7	-53.1	-53.1	-53.2	-53.2	-53.3	-53.3	-93.0	-87.8	-87.8	-87.8	-87.9	-87.9	-61.7	-61.8	-61.8	-61.9	-61.9	-61.9			3.6	3.9	4.2		4.6	0.4	5.0	5.1	5.2	(
	Zone 1	-32.7	-29.3	-29.3	-29.4	-29.4	-29.4	-32.9	-32.9	-33.0	-33.0	-33.0	-33.1	43.9	-39.4	-39.4	-39.4	-39.5	-39.5	-44.1	-44.1	-44.2	-44.2	44.2	-44.3	-51.1	-45.9	-45.9	-45.9	-46.0	-46.0	-51.3	-51.3	-51.4	-51.4	-51.4	-51.5			2.8	3.2	3.4	3.7	y. v	4.1	4.4	4.5	4.6	
L.	(leaf)	13.4	17.8	17.7	17.6	17.5	17.4	28.5	28.4	28.3	28.1	28.0	27.9	15.6	23.4	23.3	23.2	23.1	23.0	38.6	38.5	38.3	38.2	38.1	38.0	17.7	27.0	26.9	26.8	26.7	56.6	45.1	44.9	44.8	44.7	44.6	44.5		2.1	2.5	2.8	3.1	m. 1	3.5	2.0	4.0	4.1	4.2	
= 301	cone 3	-77.1	-71.5	-71.5	-71.6	-71.6	-71.6	-32.5	-32.5	-32.6	-32.6	-32.6	-32.7	-108.4	-100.6	-100.6	-100.7	-100.7	-100.7	-45.9	-46.0	-46.0	-46.0	-46.1	-46.1	-128.6	-119.3	-119.3	-119.4	-119.4	-119.4	-54.5	-54.6	-54.6	-54.7	7:4:	-54.7	Ss = 1.0	1.9	2.3	5.6	2.8	3.1	n c	0 K	8.00	3.9	4.0	
ug. Heigi	Zone 2 Z	-49.1	-46.3	-46.3	-46.4	46.4	46.4	-32.5	-32.5	-32.6	-32.6	-32.6	-32.7	-69.3	-65.3	-65.4	-65.4	-65.4	-65.5	45.9	-46.0	-46.0	-46.0	-46.1	-46.1	-82.2	-77.6	-77.6	9.77-	77.7-	7.77-	-54.5	-54.6	-54.6	-54.7	-54.7	-54.7	Ss = 0.5	1.3	1.7	2.0	2.3	2.5	7.7	2.3	: C	3.4	3.5	(
0	Zone 1	-26.7	-23.9	-23.9	-24.0	-24.0	-24.0	-26.9	-26.9	-27.0	-27.0	-27.0	-27.1	-37.9	-34.0	-34.0	-34.0	-34.1	-34.1	-38.1	-38.1	-38.2	-38.2	-38.2	-38.3	-45.1	-40.5	-40.5	-40.5	-40.6	-40.6	-45.3	45.3	45.4	45.4	45.4	-45.5	Ss = 0.4	1.2	1.5	1.8	2.1	2.3	9.7	0.0	3.1	3.3	3.4	
Tr.	(Isd)	13.4	17.8	17.7	17.6	17.5	17.4	28.5	28.4	28.3	28.1	28.0	27.9	14.0	20.8	20.7	50.6	20.5	20.4	33.9	33.8	33.7	33.5	33.4	33.3	16.2	24.4	24.3	24.2	24.1	24.0	40.4	40.3	40.1	40.0	39.9	39.8	Ss = 0.3	1.0	1.3	1.6	1.9	2.2	2.4	0.7	2.9	3.1	3.2	(
CT	cone 3	-77.1	-71.5	-71.5	-71.6	-71.6	-71.6	-32.5	-32.5	-32.6	-32.6	-32.6	-32.7	-93.9	-87.1	-87.1	-87.1	-87.2	-87.2	-39.7	-39.7	-39.8	-39.8	-39.8	-39.9	-114.0	-105.8	-105.8	-105.9	-105.9	-105.9	-48.3	48.4	48.4	48.4	48.5	-48.5		0.8	1.1	1.4	1.7	1.9	7.7	2.4	2.7	2.9	3.0	
blug. neignt = 13	Zone 2 Z	-49.1	-46.3	-46.3	-46.4	-46.4	-46.4	-32.5	-32.5	-32.6	-32.6	-32.6	-32.7	-59.9	-56.5	-56.5	-56.6	-56.6	-56.6	-39.7	-39.7	-39.8	-39.8	-39.8	-39.9	-72.9	-68.7	-68.8	-68.8	-68.8	-68.9	-48.3	48.4	-48.4	48.4	48.5	-48.5	Ss = 0.1	9.0	6.0	1.2	1.5	1.7	2.0	2.2	2.5	2.7	2.8	0
Ja Ja	Zone 1	-26.7	-23.9	-23.9	-24.0	-24.0	-24.0	-26.9	-26.9	-27.0	-27.0	-27.0	-27.1	-32.7	-29.3	-29.3	-29.4	-29.4	-29.4	-32.9	-32.9	-33.0	-33.0	-33.0	-33.1	-39.9	-35.8	-35.8	-35.8	-35.9	-35.9	-40.1	-40.1	-40.2	40.2	40.7	-40.3		0.3	9.0	6.0	1.2	1.5	1.7	2.1	2.3	2.5	5.6	
	Roof Pitch	1:12	2:12	3:12	4:12	5:12	6:12	7:12	8:12	9:12	10:12	11:12	12:12	1:12	2:12	3:12	4:12	5:12	6:12	7:12	8:12	9:12	10:12	11:12	12:12	1:12	2:12	3:12	4:12	5:12	6:12	7:12	8:12	9:12	10:12	71:17	12:12	Roof Pitch	1:12	2:12	3:12	4:12	5:12	5:12	8-12	9:12	10:12	11:12	
				Exposure Category B Exposure Category C									Exposure Category D								-	Down Slope																											

Florida / Louisiana*

ASCE 7-10

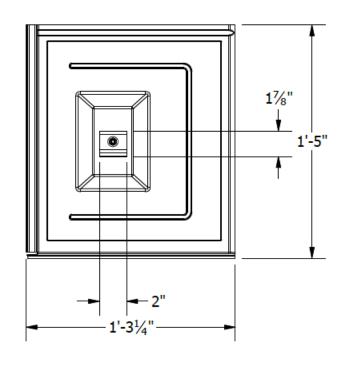
176 mph

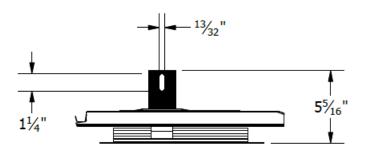
Basic Wind Speed

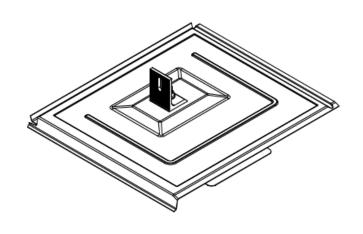
0 psf

Ground Snow Load

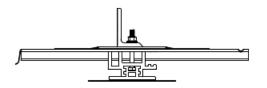




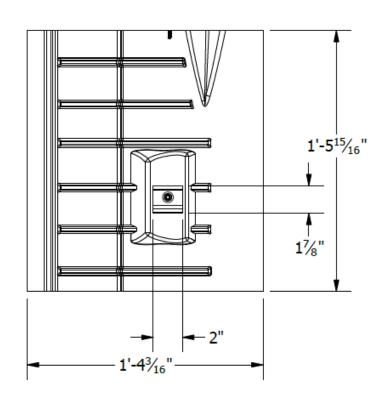


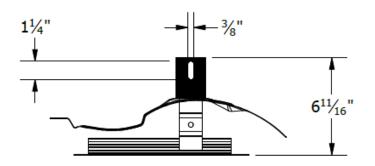


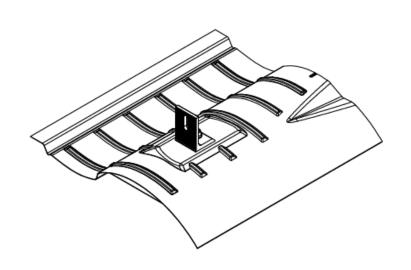
	PART # TABLE
P/N	DESCRIPTION
004TRFD	FLASHKIT TR FLAT-TILE CHARCOAL
004TRFM	FLASHKIT TR FLAT-TILE MILL
004TRFA	FLASHKIT TR FLAT-TILE ADOBE



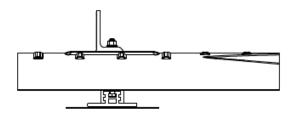




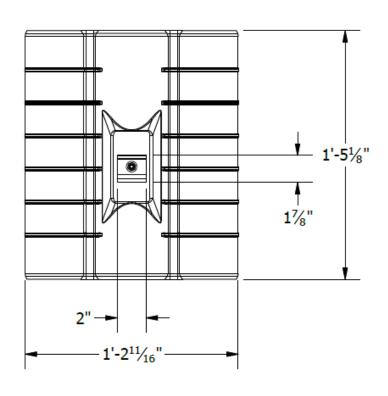


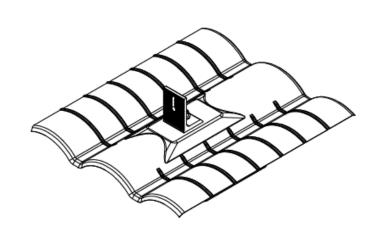


	PART # TABLE
P/N	DESCRIPTION
004TRSD	FLASHKIT TR SPAN-TILE CHARCOAL
004TRSM	FLASHKIT TR SPAN-TILE MILL
004TRSA	FLASHKIT TR SPAN-TILE ADOBE

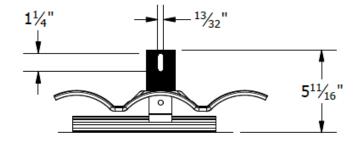


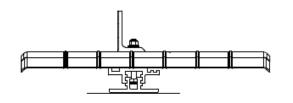




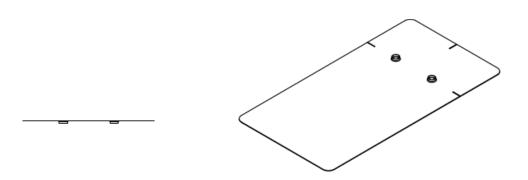


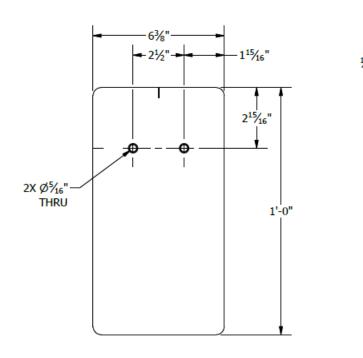
	PART # TABLE
P/N	DESCRIPTION
004TRWD	FLASHKIT TR W-TILE CHARCOAL
004TRWM	FLASHKIT TR W-TILE MILL
004TRWA	FLASHKIT TR W-TILE ADOBE











	PART # TABLE
P/N	DESCRIPTION
004TRSF	TR UNIV SUB-FLASHING