# **OUTPUT SUMMARY**

Date of Report: Data Input by:	12-01-2014/Rev A Tom Milner tom@solar- roof-check.com 530-878-0755	Job Name: Job Number:	103-zep <u>103</u>
Contact E-mail:		Job Address:	123 Main Street
Contact Phone:			Auburn, CA 95603
CALCULATIO	ONS	C	COMPLIANCY TEST RESULT
Loading Combination #1: (% of Code Compliancy=318.6 %) Wind Uplift on standoff- 0.6 DL Solar			PASS
Loading Combination #2: (% of Code Compliancy=1001.8 %) DL Rf + DL Solar + Roof Live Load			PASS
Loading Combination #3: (% of Code Compliancy=642.6 %) DL Rf + DL Solar + Wind Down			PASS
Loading Combination #4: (% of Code Compliancy=207.1 %) DL Rf + DL Solar + Snow			PASS
Loading Combination #5: (% of Code Compliancy=286.9 %) DL Rf + DL Solar + .75 Wind + .75 Snow:			PASS
Loading Combination #6: (% Increase of Seismic Load=6.1 %) Check Additional Seismic Load			PASS
Loading Combination #7: (% of Code Compliancy=1166.1 %) DL Rf + DL Solar + Wind Up			PASS

This Report is based on Code required Engineering Calculations using the data which has been input by the User. This Report indicates the Code compliance or Code non-compliance of the Solar Panels proposed for the Selected Roof Type. This Report has not been reviewed by a licensed Professional Engineer.

Date of Report: 12-01-2014/Rev A Data Input by: Tom Milner Contact E-mail: tom@solar-roof-check.com Contact Phone: 530-878-0755

Job Name: 103-zep Job Number: 103 Job Address: 123 Main Street Auburn, CA 95603

Data Input By:

Job Number:

Job Address:

City, State:

Job Name:

# ABSTRACT

This Report is based on Engineering calculations using the input data supplied by the User, listed above. The User's input has not been independently reviewed by a licensed Professional Engineer for appropriateness or accuracy. This Report indicates Compliance/Non-Compliance with the reference Codes listed below. The following items have been checked for Code Compliance:

- Load Combination#1: Wind Uplift on the Standoff attachment to the Roof Framing members: Wind Uplift - 0.6DL Solar
- Load Combination#2: Supporting Rafter Strength with: DL Rf + DL Solar + Roof Live Load
- Load Combination#3: Supporting Rafter Strength with: DL Rf + DL Solar + Wind Down
- Load Combination#4: Supporting Rafter Strength with: DL Rf + DL Solar + Snow
- Load Combination#5: Supporting Rafter Strength with: DL Rf + DL Solar + .75Wind + .75Snow
- Load Combination #6: Check Additional Seismic Load
- Load Combination #7: Supporting Rafter Strength with: DL Rf + DL Solar + Wind Up

### Job Information

Tom Milner 103 103-zep 123 Main Street Auburn, CA 95603

## **Current Input Data**

Payment Method	Invoice	
Roof Type	Truss	
Ceiling Type	None	
Collar Tie Space	0	
Coverage %	20	
Frame Size	2x8@12	
Ground Snow (psf)	30	
Sloped Roof Snow Load	30	
(psf)	30	
Lag Screw Diam. (in)	3/8	
Lag Screw Embed. (in)	2	
Overall Span (ft)	7	
PV Weight (psf)	4	
PV Width (ft)	4	
Rafter Span (ft)	7	
Roof Mean Height (ft)	20	
Roof Slope (degrees)	20	
Roofing Type	Asphalt Shingles	
Sloped Ceiling	Yes	
Standoff Spacing (ft)	4	
Standoff Staggered	Yes	
Wind Exposure	В	
Wind Speed (mph)	110	

Legend: DL=Dead Load Rf=Roof

#### **Reporting and Analysis Orgainization**

Solar-Roof-Check www.solar-roof-check.com Email: service@solar-roof-check.com

#### **Reference Codes**

International Building Code (IBC latest edition) American Society of Civil Engineers (ASCE/SEI 7-05, 7-10) National Design Spec. for Wood Constr. (NDS latest edition) CBC and NJ Edition