STRUCTURAL CRITERIA FOR RESIDENTIAL FLUSH-MOUNTED SOLAR ARRAYS

1. ROOF CHECKS			
A. Visual Review/Contractor's Site Audit of Existing Conditions:			
1) Is the roof a single roof without a reroof overlay?		☐ Y	
2) Does the roof structure appear structurally sound, without si		-	-
or significant structural deterioration or sagging, as illustrate B. Roof Structure Data:	d in Figure 1?	□ Y	
1) Measured roof slope (e.g. 6:12):			.12
2) Measured rafter spacing (center-to-center):			:12 inch
3) Type of roof framing (rafter or manufactured truss):		□ Rafter □	ilicii] Truss
of type of the manning frances of managed earth assy.		L Narter L	11033
2. SOLAR ARRAY CHECKS			
A. Flush-mounted Solar Array:			
1) Is the plane of the modules (panels) parallel to the plane of t	he roof?	□ Y	\square N
2) Is there a 2" to 10" gap between underside of module and the		□ Y	\square N
Modules do not overhang any roof edges (ridges, hips, gable	ends, eaves)?	□ Y	\square N
B. Do the modules plus support components weigh no more than:			
4 psf for photovoltaic arrays or 5 psf for solar thermal arrays?		□ Y	
C. Does the array cover no more than half of the total roof area (all roof planes)?		□ Y	
D. Are solar support component manufacturer's project-specific completed worksheets,			
tables with relevant cells circled, or web-based calculator results attached? E. Is a roof plan of the module and anchor layout attached? (see Figure 2)		□ Y	
F. Downward Load Check (Anchor Layout Check):		□ Y	
1) Proposed anchor horizontal spacing (see Figure 2):		,_	"ft-in
2) Horizontal anchor spacing per Table 1:		—, ₋	rft-in
3) Is proposed anchor horizontal spacing equal to or less than T	able 1 spacing?	Y	_ N
G. Wind Uplift Check (Anchor Fastener Check):	, ,		
1) Anchor fastener data (see Figure 3):			
 a. Diameter of lag screw, hanger bolt or self-drilling screw: 			inch
b. Embedment depth of rafter:			inch
c. Number of screws per anchor (typically one):			
d. Are 5/16" diameter lag screws with 2.5" embedment into			
used, OR does the anchor fastener meet the manufacture	r's guidelines?	□ Y	□ N
3. SUMMARY			
☐ A. All items above are checked YES. No additional calculations are red			
☐ B. One or more items are checked NO. Attach project-specific drawin California-licensed civil or structural engineer.	gs and calculations stam	nped and signed	by a
Job Address:	Permit #:		-
Contractor/Installer:	License # & Class:		
Signature: Date:	Phone #:		
Ontional Additional Bufton Sugar Charle Cutonia			
Optional Additional Rafter Span Check Criteria [At option of CBO, insert rows (4) to (7) below into table above after row	1 D /2\1		
	W 1.B.(3)]		•
1. ROOF CHECKS			
B. Roof Structure Data:			
4) Measured rafter size (e.g. 13/4 x 33/4, not 2x4):		x	inch
5) Measured rafter horizontal span (see Figure 4):			"ft-in
6) Horizontal rafter span per Table 2:		′	"ft-in
7) Is measured horizontal rafter span less than Table 2 span?		□ Y □ N	Truss

(Jurisdictions may delete "Optional Additional Rafter Span Check" at bottom of this page, or incorporate into main list of Structural Criteria above.)