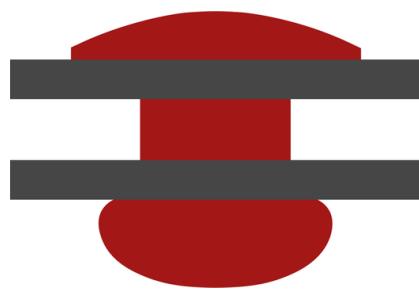


My Report 1

written by R Holland



bottom text

My Report 1

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[1] Project Summary

[1] Project Summary

This report **describes** the structural design of a solar canopy *covering* a residential patio located in the City of Larkspur, California. It includes the design of a concrete slab and *stem* wall, steel tube frame, and clip attachments of solar panels to the frame.

center this text

Table 01 - Title of table [file: ins/i01/project-data.csv]

Client	Aaron Kahn
Address	10 Fairfield Ave
City	Corte Madera
State	California
Zip	94947
County	Marin
Project Name	Solar Canopy
Project Number	24-001
Contract Amount	"\$1
Total Amount	"\$1
Building Code	2015 CRC
Date Started	01-01-2020
Date Completed	01-01-2021
Construction Started	06-01-2022
Construction Completed	06-01-2023
Materials	"steel

[2] Overview and Codes

This report **describes** the structural design of a solar canopy *covering* a residential patio located in the City of Larkspur, California. It includes the design of a concrete slab and *stem* wall, steel tube frame, and clip attachments of solar panels to the frame.xxxx

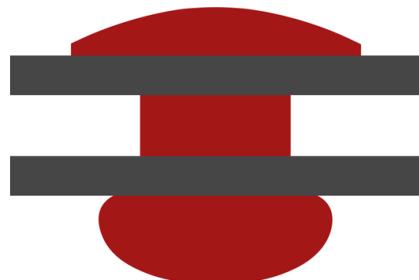


Fig. 1 - Wind Load 1

[1] Project Summary

some text between

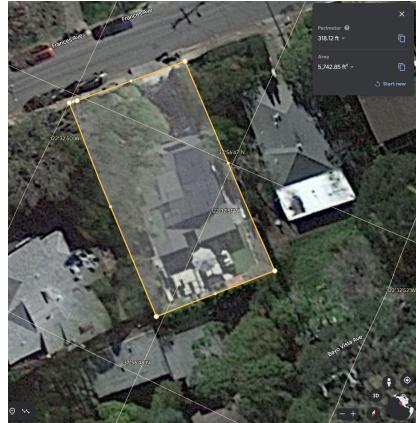


Fig. 2 - Wind Load 2

some more text

$$wt_2 = \frac{a_2 \cdot dl_2}{2} + 4$$

Table 02: New Table

col1	col2	col3
A1	23	10
B1	11.1	15.0

Building Codes and Jurisdiction

- City of Larkspur, California
- 2019 California Building Code [CBC]
- 2019 California Residential Code [CRC]

Table 03 - My Table [file: ins/i01/cbc2019A_stds.csv]

Category	Standard	Year
Loading	ASCE-7	2016
Concrete	ACI-318	2014
Wood-National Design Specifications	AWC-NDS	2018
Wood-Special Design Provisions for Wind and Seismic	AWC-SDPWS	2015
Wood Frame Construction Manual	AWC-WFCM	2018

Design loads for the project are from the California Building and Residential Codes and are summarized in the following tables.

[3] Gravity Loads and Seismic Mass

Table 04 - Another Table Title [file: ins/i01/load_types01.csv]

Var	Load Effect	Notes
D	Dead load	See IBC 1606 and Chapter 3 of this publication
E	Combined effect of horizontal and vertical earthquake-induced forces as defined in ASCE/SEI 12.4.2	See IBC 1613, ASCE/SEI 12.4.2 and Chapter 6 of this publication
Em	Maximum seismic load effect of horizontal and vertical forces as set forth in ASCE/SEI 12.4.3	See IBC 1613, ASCE/SEI 12.4.3 and Chapter 6 of this publication
H	Load due to lateral earth pressures, ground water pressure or pressure of bulk materials	See IBC 1610 for soil lateral loads
L	Live load, except roof live load, including any permitted live load reduction	See IBC 1607 and Chapter 3 of this publication
Li	Roof live load including any permitted live load reduction	See IBC 1607 and Chapter 3 of this publication
R	Rain load	See IBC 1611 and Chapter 3 of this publication
W	Load due to wind pressure	See IBC 1609 and Chapter 5 of this publication

Table 05 - xxx [file: ins/i01/asce7_load_comb.csv]

CBC 2019 reference	Equation
Equation 16-1	$1.4(D + F)$
Equation 16-2	$1.2(D + F) + 1.6(L + H) + 0.5(L \text{ or } S \text{ or } R)$
Equation 16-3	$1.2(D + F) + 1.6(Lr \text{ or } S \text{ or } R) + 1.6H + (f1L \text{ or } 0.5W)$
Equation 16-4	$1.2(D + F) + 1.0W + f1L + 1.6H + 0.5(Lr \text{ or } S \text{ or } R)$
Equation 16-5	$1.2(D + F) + 1.0E + f1L + 1.6H + f2S$
Equation 16-6	$0.9D + 1.0W + 1.6H$
Equation 16-7	$0.9(D + F) + 1.0E + 1.6H$

[3] Gravity Loads and Seismic Mass

A line of text - and some more.

Value Table 01: First floor dimensions

variable	value	[value]	description
area1	10700.00 sf	994.06 SM	roof area
area2	100000.00 sf	9290.30 SM	floor area
area3	25.00 sf	2.32 SM	floor area

[3] Gravity Loads and Seismic Mass

ht1	9.00 ft	2.74 m	wall height
len1	110.00 ft	33.53 m	interior wall length
len2	155.00 ft	47.24 m	exterior wall length
udl1	12.20 psf	584.14 Pa	description

A line of extended text - not formatted

Value Table 01 - Another values table [from file: vals/v01/test1.csv]

variable	value	[value]	description
floordl1	50.00 psf	2394.01 Pa	interior wall length
floordl2	10.00 psf	478.80 Pa	exterior wall length

E01 - Equation for floor area

$$wt_2 = area_2 \cdot floordl_1 \quad ACI-315-05$$

wt2	area2	floordl1
5000.00 kips	100000.00 sf	50.00 psf
22241108.00 N	9290.30 SM	2394.01 Pa

E02 - Equation for wall area

$$wt_3 = area_3 \cdot floordl_2 \cdot 0.1 \quad ACI-315-05$$

wt3	floordl2	area3
25.0 lbs	10.00 psf	25.00 sf
111.2 N	478.80 Pa	2.32 SM

Value Table 02 - Exterior wall - total area load [from file: vals/v01/test2.csv]

variable	value	[value]	description
len1	410.00 ft	124.97 m	interior wall length
len2	455.00 ft	138.68 m	exterior wall length