

Demand Calculation Sheet

Job Details

Name: Daniel and Candice Sanson

Street and Number: 46 Pelorus Avenue

Lot and DP Number: Lot 135 City/Town/District: Napier

Designer: Gordon Sanson
Company: Homeworx

Date: Sunday, June 17, 2018

Building Specification

Number of Storeys 1
Floor Loading 2 kPa
Foundation Type Slab

Single

Cladding Weight

Roof Weight

Light

Room in Roof Space

Roof Pitch (degrees)

Roof Height above Eaves (m)

Building Height to Apex (m)

Ground to Lower Floor (m)

Light

Light

Light

No

3.9

0.2

Average Stud Height (m) 2.4
Building Length (m) 18.56
Building Width (m) 12.8
Building Plan Area (m²) 174.2

Building Location

Wind Zone = High Earthquake Zone 3

Soil Type D & E (Deep to Very Soft)

Annual Prob. of Exceedance: 1 in 500 (NZS3604:2011 Default)

Bracing Units required for Wind

	Along	Across
Single Level	529	639

Bracing Units required for Earthquake

Along & Across
Single Level 904



Single Level Along Resistance Sheet

Job N	lame: Danie	el and Can	dice Sanso	n					Wind	EQ
									Den	nand
									529	904
									Achi	eved
Line	Element	Length	Angle	Stud Ht.	Туре	Supplier	Wind	EQ	1822	1615
		(m)	(degrees)	(m)			(BUs)	(BUs)	344%	179%
	1	1.00		2.4	GS1-N	GIB®	65	60		
а	2	1.00		2.4	GS1-N	GIB®	65	60		
				Externa	l Lenath =	4.6			130 OK	119 OK
	1	3.20		2.4	GS1-N	GIB®	221	192		
	2	0.51		2.4	GS1-N	GIB®	28	30		
b	3	0.60		2.4	GS1-N	GIB®	34	35		
	4	0.70		2.4	GS1-N	GIB®	41	41		
	External Length = 11.5									298 OK
	1	5.80		2.4	GS1-N	GIB®	400	348		
С	2	1.20		2.4	GS1-N	GIB®	83	72		
C	3	2.20		2.4	GS1-N	GIB®	152	132		
									635 OK	552 OK
d	1	1.10		2.4	GS1-N	GIB®	74	66		
	2	2.10		2.4	GS1-N	GIB®	145	126		
ď	3	1.80		2.4	GS2-N	GIB®	176	155		
									395 OK	347 OK
	1	2.00		2.4	GS1-N	GIB®	138	120		
	2	1.20		2.4	GS1-N	GIB®	83	72		
е	3	1.20		2.4	GS1-N	GIB®	83	72		
	4	0.60		2.4	GS1-N	GIB®	34	35		
				Externa	l Lenath =	18.5			338 OK	299 OK



Single Level Across Resistance Sheet

Job N	ame: Danie	l and Can	dice Sanso	n					Wind	EQ
									Der	nand
									639	904
									Ach	eved
Line	Element	Length	Angle	Stud Ht.	Туре	Supplier	Wind	EQ	1497	1320
		(m)	(degrees)	(m)			(BUs)	(BUs)	234%	146%
	1	0.45		2.4	GS1-N	GIB®	24	26		
	2	0.45		2.4	GS1-N	GIB®	24	26		
m	3	1.15		2.4	BL1-H	GIB®	144	119		
	4	1.15		2.4	BL1-H	GIB®	144	119		
	External Length = 12.7								337 OK	291 OK
n	1	1.70		2.4	GS1-N	GIB®	117	102		
	2	0.51		2.4	GS1-N	GIB®	28	30		
	External Length = 3							145 OK	132 OK	
	1	1.25		2.4	GS1-N	GIB®	86	75		
0	2	0.65		2.4	GS1-N	GIB®	38	38		
	3	0.45		2.4	GS1-N	GIB®	24	26		
				Externa	al Lenath =	1.3			148 OK	139 OK
р	1	2.00		2.4	GS1-N	GIB®	138	120		
	2	2.10		2.4	GS1-N	GIB®	145	126		
	External Length = .6							283 OK	246 OK	
q	1	3.00		2.4	GS1-N	GIB®	207	180		
	2	3.30		2.4	GS1-N	GIB®	228	198		
								435 OK	378 OK	
	1	1.80		2.4	GS1-N	GIB®	124	108		
r	2	0.45		2.4	GS1-N	GIB®	24	26		
				Externa	al Length =	7.6			149 OK	134 OK



Custom Wall Elements

Supplier	System	Min. Length	Wind	EQ
		m	BUs/m	BUs/m
Ecoply	EP1 0.4	.4	80	95
		I	I	1