



Deck Designer Specification Kit For
AZEK

Deck layout diagram



Top view without planks

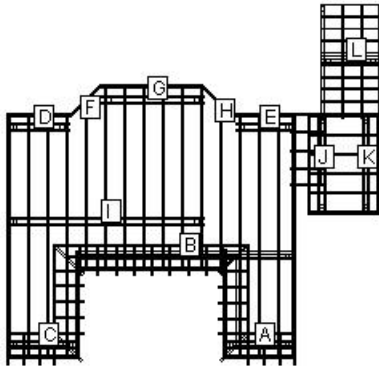


Bottom view with planks



Top view with planks

Permit Page: Level 1



LOAD AND SUPPORT:

Your deck will support a 54 PSF live load.
Posts have 36" below ground support.

DECK AND POST HEIGHT:

You selected a height of 96" from the top of the decking to the ground level. The top of the deck support posts will therefore be 87" above ground level.

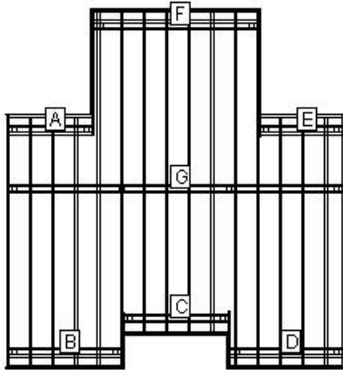
Joists:

Set joists on top of beams, 16"; center to center.

Stress Analysis: Level 1

Joist Deflection	13988
Joist Bending	729
Joist Shear	434
Joist Compression	434
Beam Deflection	351
Beam Bending	78
Beam Shear	64
Post Stability	121

Permit Page: Level 2



LOAD AND SUPPORT:

Your deck will support a 42 PSF live load.
Posts have 36" below ground support.

DECK AND POST HEIGHT:

You selected a height of 117" from the top of the decking to the ground level. The top of the deck support posts will therefore be 108" above ground level.

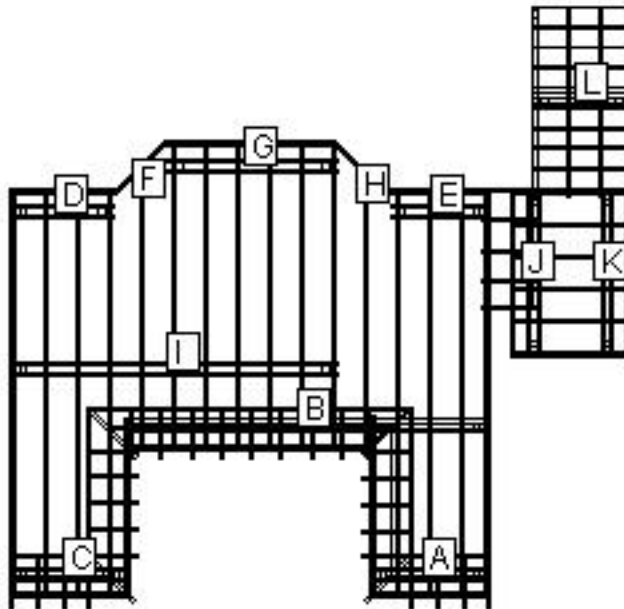
Joists:

Set joists on top of beams, 16"; center to center.

Stress Analysis: Level 2

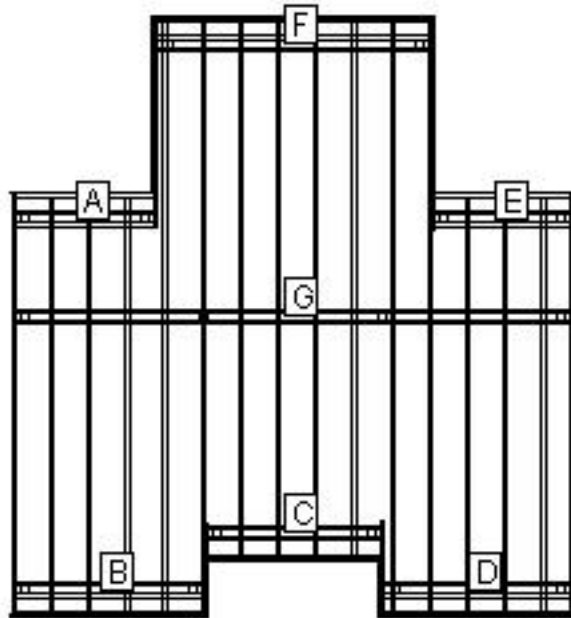
Joist Deflection	143
Joist Bending	52
Joist Shear	94
Joist Compression	94
Beam Deflection	190
Beam Bending	66
Beam Shear	58
Post Stability	106

Beam Layout Level 1



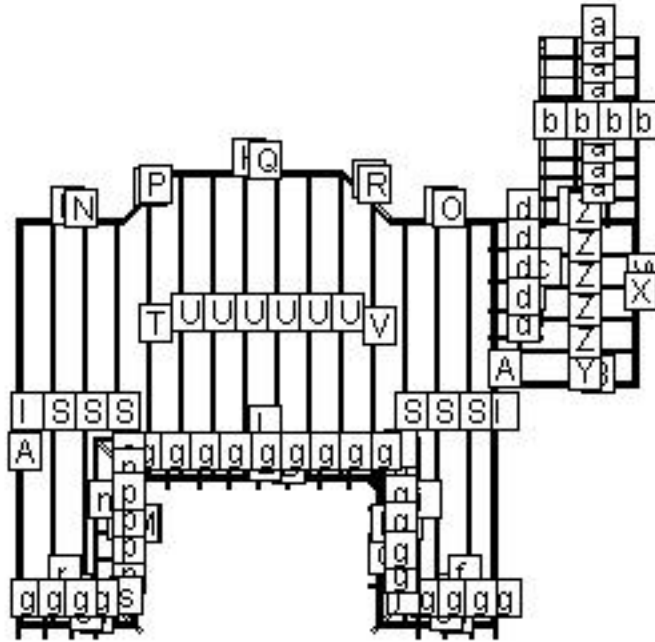
BEAM LABEL	BEAM LENGTH	POST COUNT	POST SPACING
A	4' 10 1/4"	2	3' 10 3/4"
B	15' 1 1/2"	3	7' 1"
C	4' 10 1/4"	2	3' 10 3/4"
D	4' 3"	2	3' 3 1/2"
E	4' 1 1/4"	2	3' 2"
F	3 1/2"	1	0
G	7' 1"	2	6' 1 1/2"
H	3 1/2"	1	0
I	13' 7"	3	6' 4"
J	6' 10 1/4"	2	5' 10 3/4"
K	6' 10 1/4"	2	5' 10 3/4"
L	4' 1/4"	2	3' 3/4"

Beam Layout Level 2



BEAM LABEL	BEAM LENGTH	POST COUNT	POST SPACING
A	5' 1 1/2"	2	4' 2"
B	6' 10 1/4"	2	5' 10 3/4"
C	6' 4 3/4"	2	5' 5 1/4"
D	6' 10 1/4"	2	5' 10 3/4"
E	5' 1 1/2"	2	4' 2"
F	9' 10 1/4"	2	8' 10 3/4"
G	19' 10 1/4"	4	6' 3 1/2"

Materials Cut List: Level 1



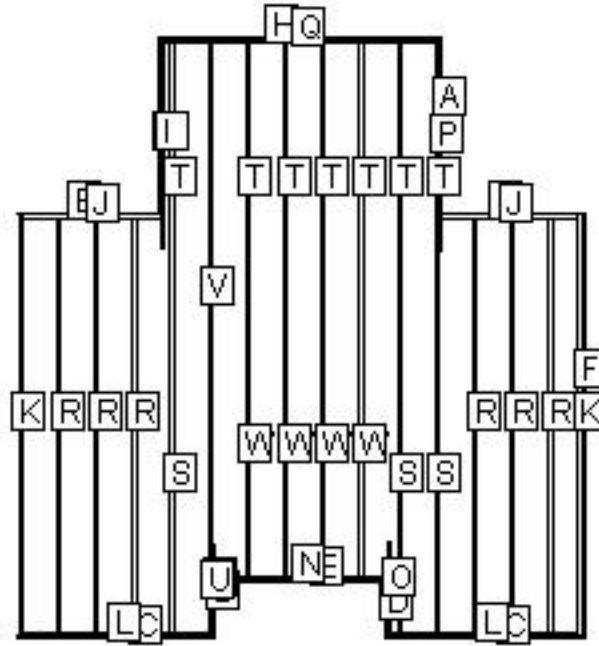
LABEL	NAME	QTY	LENGTH	BEVELS	LABEL	NAME	QTY	LENGTH	BEVELS
A	Cladding	2	17'	45, 45	X	Header	2	6' 7 1/4"	0, 0
B	Cladding	4	5'	45, 45	Y	Rim Joist	2	4' 10 1/4"	0, 0
C	Cladding	2	6' 3"	45, 45	Z	Internal Joist	5	4' 7 1/4"	0, 0
D	Cladding	1	10' 2"	45, 45	a	Riser	9	4' 1/4"	0, 0
E	Cladding	1	4' 5 1/4"	23, 45	b	Stringer	4	9' 4 1/2"	0, 0
F	Cladding	1	4' 5 1/4"	45, 23	c	Riser	2	5'	0, 0
G	Cladding	2	2' 10 1/4"	23, 23	d	Stringer	5	2' 3 1/2"	0, 0
H	Cladding	1	7' 2"	23, 23	e	Riser	1	4' 2"	0, 45
I	Rim Joist	2	16' 10 1/4"	0, 0	f	Riser	1	3' 4"	0, 45
J	Header	2	4' 7 1/4"	0, 0	g	Stringer	22	2' 1"	0, 0
K	Rim Joist	1	7' 5 3/4"	0, 0	h	Riser	1	6' 3"	45, 45
L	Header	1	10' 4 3/4"	0, 0	i	Riser	1	6' 3"	45, 45

Cut Angles: L=Left, R=Right, F=Front, S=Side

LABEL	NAME	QTY	LENGTH	BEVELS	LABEL	NAME	QTY	LENGTH	BEVELS
M	Rim Joist	1	7' 4 3/4"	0, 0	j	Stringer	2	2' 8"	0, 0
N	Header	1	4' 3"	0, 0	k	Riser	1	11' 10"	45, 45
O	Header	1	4' 3"	0, 0	l	Riser	1	13' 6"	45, 45
P	Header	1	2' 10"	0, 0	m	Riser	1	6' 3"	45, 45
Q	Header	1	7' 1 1/4"	0, 0	n	Riser	1	6' 3"	45, 45
R	Header	1	2' 10"	0, 0	o	Stringer	1	2' 8"	0, 0
S	Internal Joist	6	16' 7 1/4"	0, 0	p	Stringer	5	2' 1"	0, 0
T	Internal Joist	1	11' 5 3/4"	45, 0	q	Riser	1	4' 2"	45, 0
U	Internal Joist	6	12' 5 1/4"	0, 0	r	Riser	1	3' 4"	45, 0
V	Internal Joist	1	11' 2 1/2"	45, 0	s	Stringer	1	2' 8"	0, 0
W	Cladding	2	7'	45, 45					

Cut Angles: L=Left, R=Right, F=Front, S=Side

Materials Cut List: Level 2



LABEL	NAME	QTY	LENGTH	BEVELS	LABEL	NAME	QTY	LENGTH	BEVELS
A	Cladding	2	6' 3"	45, 45	M	Rim Joist	1	3' 2 3/4"	0, 0
B	Cladding	1	5' 1"	45, 45	N	Header	1	6' 4 3/4"	0, 0
C	Cladding	2	7'	45, 45	O	Rim Joist	1	3' 3 3/4"	0, 0
D	Cladding	2	2' 1"	45, 45	P	Rim Joist	1	7' 5 3/4"	0, 0
E	Cladding	1	6' 2"	45, 45	Q	Header	1	9' 7 1/4"	0, 0
F	Cladding	1	15'	45, 45	R	Internal Joist	6	14' 7 1/4"	0, 0
G	Cladding	1	5' 1"	45, 45	S	Internal Joist	3	10' 4 1/2"	0, 0
H	Cladding	1	10'	45, 45	T	Internal Joist	7	10' 4 3/4"	0, 0
I	Rim Joist	1	7' 4 3/4"	0, 0	U	Internal Joist	1	2' 9 1/2"	0, 0
J	Header	2	5'	0, 0	V	Internal Joist	1	17' 11 3/4"	0, 0
K	Rim Joist	2	14' 10 1/4"	0, 0	W	Internal Joist	4	8' 4 1/2"	0, 0
L	Header	2	6' 7 1/4"	0, 0					

Cut Angles: L=Left, R=Right, F=Front, S=Side

Component Descriptions

These recommendations are for railing with a 4" gap from deck surface to the bottom of the bottom rail. Always refer to your local building codes to determine if other requirements must be met. Canadian requirements may vary.

TimberTech RadianceRail and AZEK Black and White rail sections are available in 10 ft. sections. See your local TimberTech or AZEK Dealer for more information.

Lumber Materials

COMPONENT	QTY	DESCRIPTION	WOOD TYPE
Rim Joist	19	2X8X18 Treated	TREATED
Internal Joist	11	2X8X12 Treated	TREATED
Internal Joist	8	2X8X14 Treated	TREATED
Beam	4	2X10X16 Treated	TREATED
Beam	16	2X10X8 Treated	TREATED
Beam	4	2X10X14 Treated	TREATED
Railing Post	1	4X4X14 Treated	TREATED
Railing Post	5	4X4X18 Treated	TREATED
Railing Section	6	AZEK 6' Premier Custom Rail Pack - Kona® - 6'	AZEK
Railing Section	11	AZEK 8' Premier Custom Rail Pack - Kona® - 8'	AZEK
Railing Section	14	TT/AZEK 31" Square Aluminum Baluster - Black - 31"	AZEK
Cladding	17	AZEK Harvest Collection® Rim Joist Covers/Fasica - Brownstone - 12'	AZEK
Decking	16	AZEK Arbor Collection® Deck Plank, Square Shouldered - Hazelwood® - 12'	AZEK
Decking	35	AZEK Arbor Collection® Deck Plank, Square Shouldered - Hazelwood® - 16'	AZEK
Decking	52	AZEK Arbor Collection® Deck Plank, Square Shouldered - Hazelwood® - 20'	AZEK
Header	6	2X8X8 Treated	TREATED
Header	12	2X8X16 Treated	TREATED
Beam	1	2X10X18 Treated	TREATED
Post	22	4X4X8 Treated	TREATED
Riser	11	AZEK Harvest Collection® Rim Joist Covers/Fasica - Brownstone - 12'	AZEK
Stringer	6	2X8X10 Treated	TREATED
Beam	3	2X10X10 Treated	TREATED
Railing Section	3	TT/AZEK 31" Square Aluminum Stair Baluster - Black - 31"	TIMBERTECH
Railing Post	1	4X4X12 Treated	TREATED
Post	16	4X4X10 Treated	TREATED



To find an AZEK and/or TimberTech Dealer or Contractor in your area, please go to www.azek.com

Other Materials

Qty	Description
5	1 LB. 10D X1 1/2" Nail
1	5 LB. 10D Hot-Dip Galvanized Nail
7	1 LB. 10D Hot-Dip Galvanized Nail
64	2x8-10" Triple Zinc Joist Hanger JUS28-TZ
1	1LB. 16D Galvanized Common Nail
1	2x6-8" Triple Zinc Left Skewed Joist Hanger SKH26L-TZ
1	2x6-8" Triple Zinc Right Skewed Joist Hanger SKH26R-TZ
18	7" Triple Zinc Angle Clip AC7-TZ
6	1LB. 8D Galvanized Common Nail
4	1 LB. 1-1/2" Joist Hanger Nail
123	Triple Zinc Rafter Tie RT7-TZ
40	Anchor Bolt AB128
40	4X4 Triple Zinc Deck Post Anchor PA44E-TZ
63	80 L.B. Basic Concrete Mix
2	60 L.B. Basic Concrete Mix
30	8" X 48" Concrete Form Tube
640	1/2 Galvanized Flat Washer
13	1/2 Galvanized Hex Nut
320	1/2 X 8" Galvanized Carriage Bolt
40	7" Triple Zinc Angle Clip AC7-TZ
64	4X4 Triple Zinc Deck Post Tie SDPT7-TZ
1	1 LB. 8X3" Philips Head Stainless Deck Screws
32	AZEK 5 1/2" Post Skirt - Kona®
128	3/8 Galvanized Hex Nut
256	3/8 Galvanized Flat Washer
128	3/8 X 8" Galvanized Carriage Bolt
32	AZEK 5 1/2" LED Lighted Island Cap - Kona®
32	AZEK 5.5" x 5.5" Post Sleeve - Kona® - 39"
1	TT/AZEK Transformer - 12 Volt 150 W
1	TT/AZEK Decklites Dimmer
1	TT/AZEK 100' wire 16/2
66	TT/AZEK LED Riser Light - Architectural Bronze
8	AZEK Cortex - 100 LF Arbor Collection® - Hazelwood
30	1/2 X 6" Galvanized Lag Screw
1	10 LB. Basic Concrete Mix
8	2 Pieces of Joist Material Nailed to Each Joist Splice

LEGAL DISCLAIMER: The suggested design is a construction guide and is **NOT** a finished building plan. It is your responsibility to verify its accuracy, completeness, suitability for your particular site conditions, and compliance with local building codes and practices. Please consult your local building codes for requirements for deck lighting, railing, and stairs.

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You are responsible for ensuring that all measurements are correct. Due to the size, shape, location or other considerations, your design may require supporting structures, such as knee braces and bridging between joists and posts and are not included on the materials list and other information provided. YOU ARE RESPONSIBLE FOR ENSURING THAT YOUR DESIGN IS SAFE AND STRUCTURALLY SOUND FOR ITS SIZE, LOCATION AND ANTICIPATED USE. You are also responsible for verifying that the design and any substitutions or modifications you make meet all local building codes and regulations.

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