

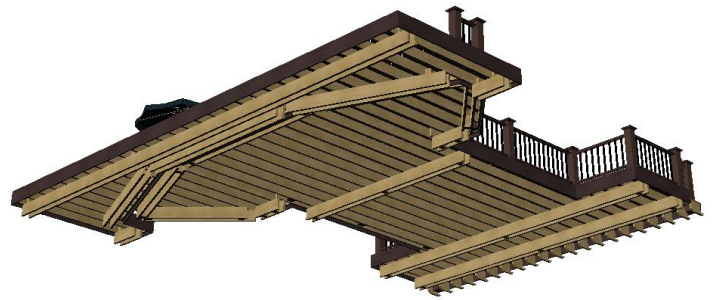


Deck Designer Specification Kit For
AZEK

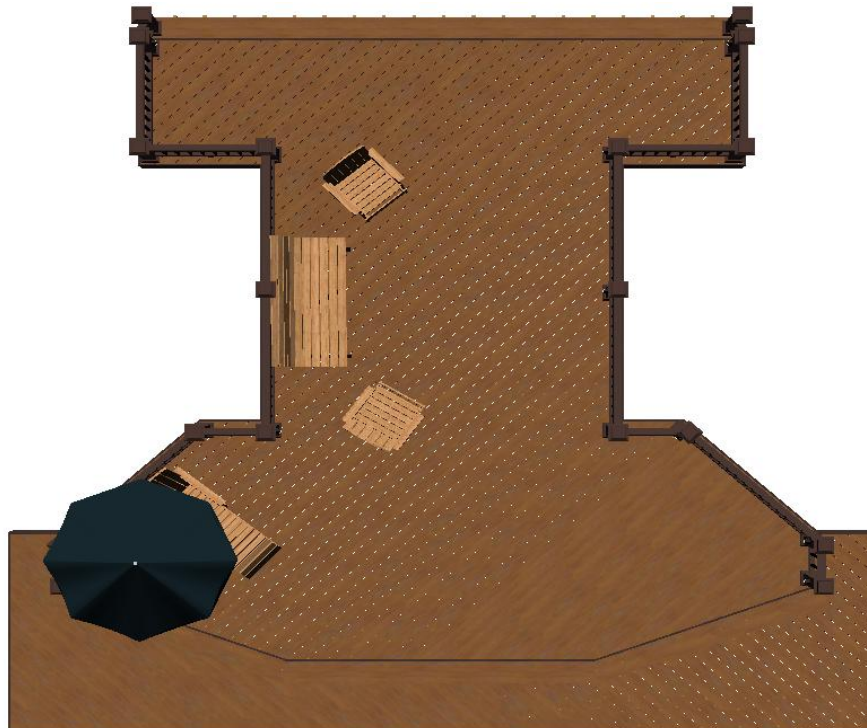
Deck layout diagram



Top view without planks

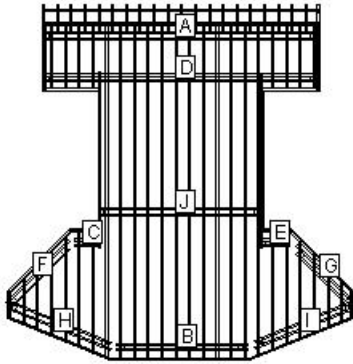


Bottom view with planks



Top view with planks

Permit Page: Level 1



LOAD AND SUPPORT:

Your deck will support a 41 PSF live load.
Posts have 36" below ground support.

DECK AND POST HEIGHT:

You selected a height of 18" from the top of the decking to the ground level. The top of the deck support posts will therefore be 9" above ground level.

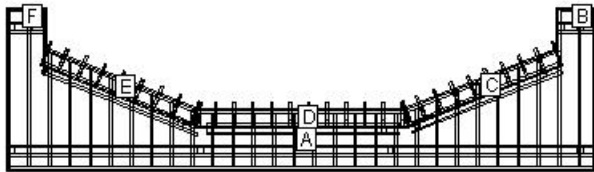
Joists:

Set joists on top of beams, 12"; center to center.

Stress Analysis: Level 1

Joist Deflection	179
Joist Bending	67
Joist Shear	123
Joist Compression	123
Beam Deflection	130
Beam Bending	51
Beam Shear	52
Post Stability	107

Permit Page: Level 2



LOAD AND SUPPORT:

Your deck will support a 76 PSF live load.
Posts have 36" below ground support.

DECK AND POST HEIGHT:

You selected a height of 4" from the top of the decking to the ground level. The top of the deck support posts will therefore be -4" above ground level.

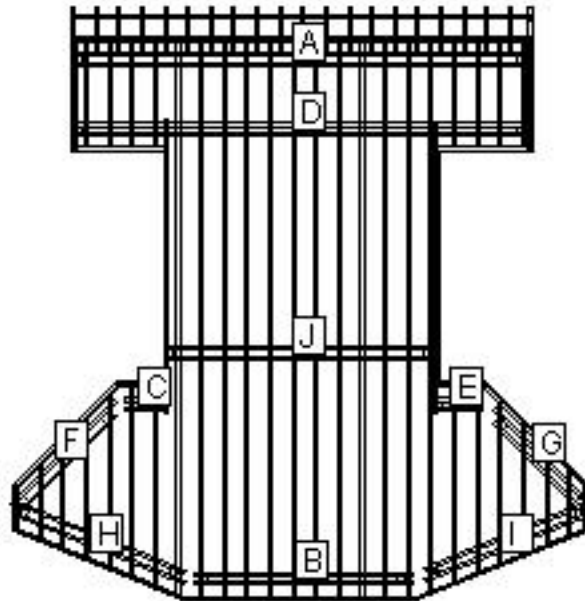
Joists:

Set joists on top of beams, 12"; center to center.

Stress Analysis: Level 2

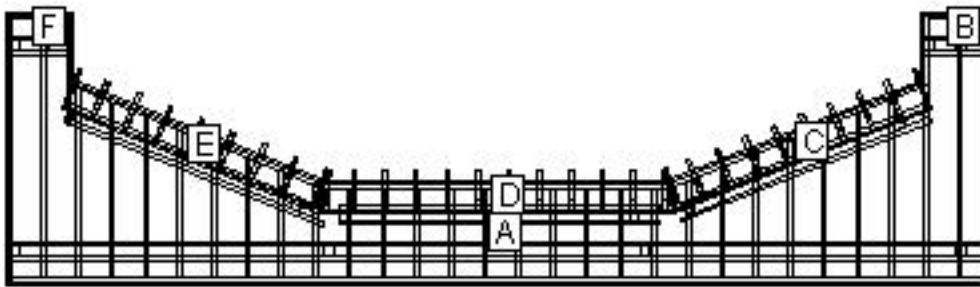
Joist Deflection	1214
Joist Bending	226
Joist Shear	218
Joist Compression	218
Beam Deflection	227
Beam Bending	86
Beam Shear	87
Post Stability	177

Beam Layout Level 1



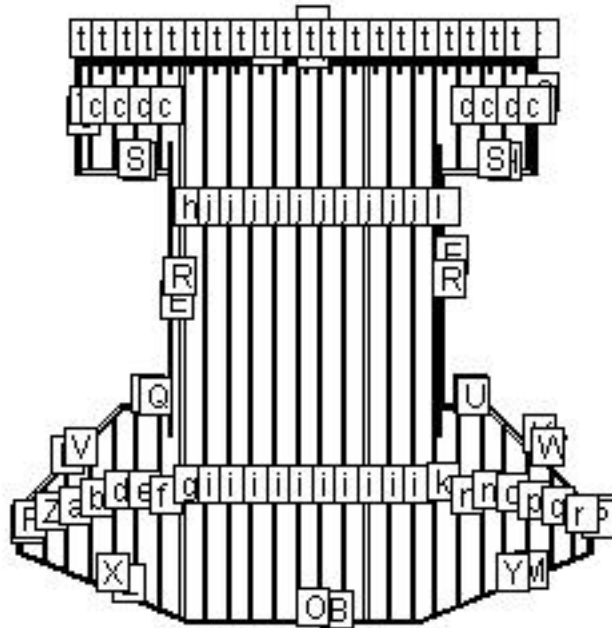
BEAM LABEL	BEAM LENGTH	POST COUNT	POST SPACING
A	19' 10 1/4"	3	9' 5 1/2"
B	9' 6"	2	8' 6 1/2"
C	1' 10 1/2"	2	11"
D	19' 10 1/4"	3	9' 5 1/2"
E	2' 1/4"	2	1' 3/4"
F	6' 4 1/4"	2	5' 1 1/4"
G	6'	2	4' 9"
H	8' 1"	2	7'
I	7' 9"	2	6' 8 1/4"
J	11' 10 1/4"	3	5' 5 1/2"

Beam Layout Level 2



BEAM LABEL	BEAM LENGTH	POST COUNT	POST SPACING
A	28' 10 1/4"	4	9' 3 1/2"
B	1' 10 1/4"	2	10 3/4"
C	7' 9"	2	6' 8"
D	9' 6"	2	8' 6 1/2"
E	8' 1/2"	2	6' 11 3/4"
F	1' 10 1/4"	2	10 3/4"

Materials Cut List: Level 1



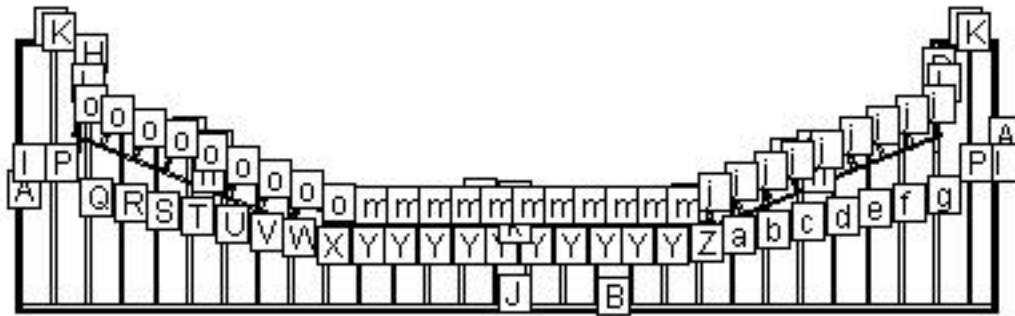
LABEL	NAME	QTY	LENGTH	BEVELS	LABEL	NAME	QTY	LENGTH	BEVELS
A	Cladding	1	20'	45, 45	X	Header	1	7' 11 1/4"	0, 0
B	Cladding	1	10' 1"	11, 11	Y	Header	1	8' 1/4"	0, 0
C	Cladding	1	2'	23, 34	Z	Internal Joist	1	3' 2 1/4"	45, 22
D	Cladding	1	2' 1"	45, 23	a	Internal Joist	1	4' 7"	45, 22
E	Cladding	2	10' 2"	45, 45	b	Internal Joist	1	6'	45, 22
F	Cladding	1	4' 1"	45, 45	c	Internal Joist	8	4' 7 1/4"	0, 0
G	Cladding	2	5'	45, 45	d	Internal Joist	1	7' 5"	45, 22
H	Cladding	1	4' 1"	45, 45	e	Internal Joist	1	8' 2 1/4"	0, 22
I	Cladding	1	2' 1"	23, 45	f	Internal Joist	1	8' 7 1/4"	0, 22
J	Cladding	1	2'	34, 23	g	Internal Joist	1	10' 5 1/2"	0, 22
K	Cladding	2	6' 4 1/4"	23, 23	h	Internal Joist	1	13' 6 1/2"	0, 22
L	Cladding	1	8'	34, 11	i	Internal Joist	10	10' 6 1/2"	0, 0

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

LABEL	NAME	QTY	LENGTH	BEVELS	LABEL	NAME	QTY	LENGTH	BEVELS
M	Cladding	1	8' 1"	11, 34	j	Internal Joist	10	13' 6 3/4"	0, 0
N	Header	1	19' 7 1/4"	0, 0	k	Internal Joist	1	10' 3 3/4"	0, 22
O	Header	1	10' 3/4"	0, 0	l	Internal Joist	1	13' 6 3/4"	0, 22
P	Rim Joist	2	1' 11"	0, 0	m	Internal Joist	1	8' 5 1/2"	0, 22
Q	Header	1	2' 2"	0, 0	n	Internal Joist	1	8' 3/4"	0, 22
R	Rim Joist	2	12' 8 1/4"	0, 0	o	Internal Joist	1	7'	45, 22
S	Header	2	4'	0, 0	p	Internal Joist	1	5' 7 1/4"	45, 22
T	Rim Joist	2	4' 10 1/4"	0, 0	q	Internal Joist	1	4' 2 1/2"	45, 22
U	Header	1	2' 2"	0, 0	r	Internal Joist	1	2' 9 3/4"	45, 22
V	Header	1	6' 3 3/4"	0, 0	s	Riser	1	20'	0, 0
W	Header	1	6' 3 3/4"	0, 0	t	Pre Cut Stringer	21	1' 8"	0, 0

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	8'	45, 45	V	Internal Joist	1	3' 6 1/2"	22, 0
B	Cladding	1	29'	45, 45	W	Internal Joist	1	3' 1 1/2"	22, 0
C	Cladding	2	2'	45, 45	X	Internal Joist	1	2' 8 3/4"	22, 0
D	Cladding	1	2' 1/2"	45, 34	Y	Internal Joist	10	2' 7 1/4"	0, 0
E	Cladding	1	8' 1 3/4"	34, 11	Z	Internal Joist	1	2' 10 1/2"	22, 0
F	Cladding	1	10' 1 1/4"	11, 11	a	Internal Joist	1	3' 3 1/4"	22, 0
G	Cladding	1	8' 1"	11, 34	b	Internal Joist	1	3' 8"	22, 0
H	Cladding	1	2' 1/2"	34, 45	c	Internal Joist	1	4' 1"	22, 0
I	Rim Joist	2	7' 10 1/4"	0, 0	d	Internal Joist	1	4' 5 1/2"	22, 0
J	Header	1	28' 7 1/4"	0, 0	e	Internal Joist	1	4' 10 1/2"	22, 0
K	Header	2	1' 7 1/4"	0, 0	f	Internal Joist	1	5' 3 1/4"	22, 0
L	Rim Joist	2	3' 2 1/2"	0, 0	g	Internal Joist	1	5' 8"	22, 0

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

LABEL	NAME	QTY	LENGTH	BEVELS	LABEL	NAME	QTY	LENGTH	BEVELS
M	Header	1	8' 1 3/4"	0, 0	h	Riser	1	8' 3"	11, 0
N	Header	1	10' 1 1/4"	0, 0	i	Stringer	1	1' 1 1/2"	0, 0
O	Header	1	8' 1"	0, 0	j	Stringer	10	1' 1 1/4"	0, 0
P	Internal Joist	2	7' 7 1/4"	0, 0	k	Riser	1	10' 5 1/4"	11, 11
Q	Internal Joist	1	5' 6 3/4"	22, 0	l	Stringer	1	1' 1 1/2"	0, 0
R	Internal Joist	1	5' 2"	22, 0	m	Stringer	12	1' 1 1/4"	0, 0
S	Internal Joist	1	4' 9"	22, 0	n	Riser	1	8' 2"	0, 11
T	Internal Joist	1	4' 4 1/4"	22, 0	o	Stringer	9	1' 1 1/4"	0, 0
U	Internal Joist	1	3' 11 1/4"	22, 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	16	2X8X14 Treated	TREATED
Internal Joist	14	2X8X12 Treated	TREATED
Beam	22	2X10X10 Treated	TREATED
Beam	8	2X10X8 Treated	TREATED
Beam	2	2X10X12 Treated	TREATED
Pre Cut Stringer	21	2-Step Treated Stair Stringer	TREATED
Railing Post	1	4X4X14 Treated	TREATED
Railing Post	3	4X4X18 Treated	TREATED
Railing Section	2	AZEK 6' Premier Custom Rail Pack - Kona® - 6'	AZEK
Railing Section	6	AZEK 8' Premier Custom Rail Pack - Kona® - 8'	AZEK
Railing Section	8	TT/AZEK 31" Round Aluminum Baluster - Black - 31"	AZEK
Cladding	18	AZEK Harvest Collection® Rim Joist Covers/Fasica - Kona® - 12'	AZEK
Decking	8	AZEK XLM® Deck Plank, Grooved - Harvest Bronze - 12'	AZEK
Decking	20	AZEK XLM® Deck Plank, Grooved - Harvest Bronze - 16'	AZEK
Decking	46	AZEK XLM® Deck Plank, Grooved - Harvest Bronze - 20'	AZEK
Header	6	2X8X8 Treated	TREATED
Header	17	2X8X18 Treated	TREATED
Internal Joist	1	2X8X10 Treated	TREATED
Post	4	4X4X8 Treated	TREATED
Beam	1	2X10X18 Treated	TREATED
Riser	5	AZEK Harvest Collection® Rim Joist Covers/Fasica - Kona® - 12'	AZEK
Railing Section	1	TT/AZEK 31" Round Aluminum Stair Baluster - Black - 31"	AZEK
Rim Joist	3	2X8X16 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
2	5 LB. 10D Hot-Dip Galvanized Nail
5	1 LB. 10D Hot-Dip Galvanized Nail
1	1LB. 16D Galvanized Common Nail
4	2x6-8" Triple Zinc Left Skewed Joist Hanger SKH26L-TZ
58	5" Triple Zinc Angle Clip MP5-TZ
6	1 LB. 10D X1 1/2" Nail
83	2x8-10" Triple Zinc Joist Hanger JUS28-TZ
4	2x6-8" Triple Zinc Right Skewed Joist Hanger SKH26R-TZ
6	5" Triple Zinc Angle Clip MP5-TZ
10	7" Triple Zinc Angle Clip AC7-TZ
1	5 LB. 8D Galvanized Nail
6	1 LB. 1-1/2" Joist Hanger Nail
164	Triple Zinc Rafter Tie RT7-TZ
37	Anchor Bolt AB128
37	4X4 Triple Zinc Deck Post Anchor PA44E-TZ
59	80 L.B. Basic Concrete Mix
3	10 LB. Basic Concrete Mix
28	8" X 48" Concrete Form Tube
592	1/2 Galvanized Flat Washer
12	1/2 Galvanized Hex Nut
296	1/2 X 8" Galvanized Carriage Bolt
54	7" Triple Zinc Angle Clip AC7-TZ
38	4X4 Triple Zinc Deck Post Tie SDPT7-TZ
1	1 LB. 8X3" Philips Head Stainless Deck Screws
19	AZEK 5 1/2" Post Skirt - Kona®
76	3/8 Galvanized Hex Nut
152	3/8 Galvanized Flat Washer
76	3/8 X 8" Galvanized Carriage Bolt
19	AZEK 5 1/2" LED Lighted Island Cap - Kona®
19	AZEK 5.5" x 5.5" Post Sleeve - Kona® - 39"
1	TT/AZEK Decklites Dimmer
1	TT/AZEK Wire Guide - 60 Packs of 12 ea.
2	TT/AZEK 100' wire 16/2
16	TT/AZEK LED Accent Light - Architectural Bronze
1	TT/AZEK Transformer - 12 Volt 150 W
12	2 Pieces of Joist Material Nailed to Each Joist Splice
1	AZEK Cortex - 100 LF XLM® Harvest Bronze - Harvest Bronze
6	TimberTech CONCEALoc Hidden Fastener - Unit = 8 retail cartons @ 100 sq.ft. coverage each (175 CONCEALoc fasteners, 184 Screws and drive bit) - Brown

Qty	Description
3	1LB. 8D Galvanized Common Nail
1	40 LB. Basic Concrete Mix

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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