



Deck Designer Specification Kit For
AZEK

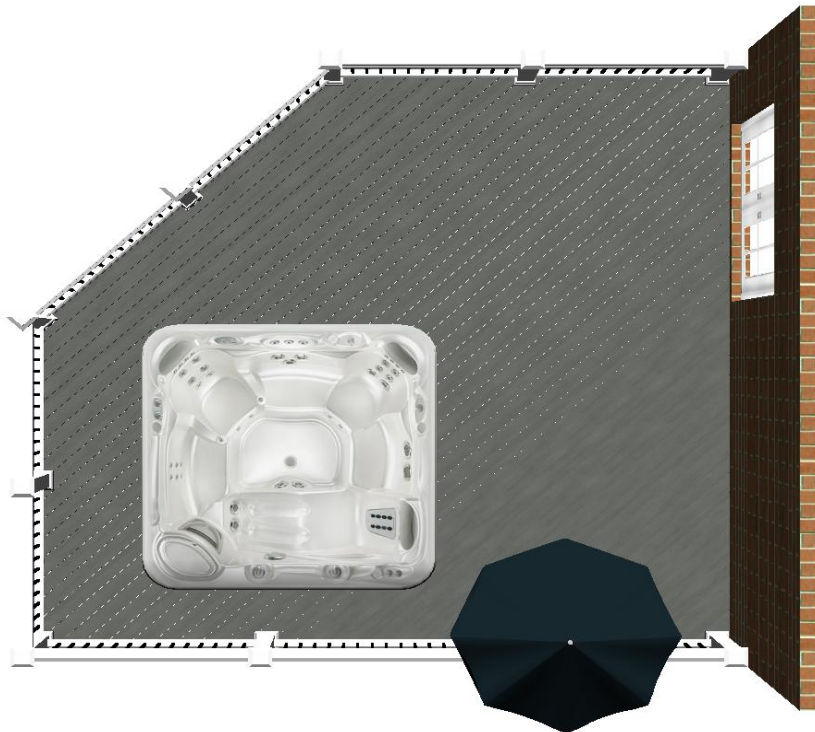
Deck layout diagram



Top view without planks

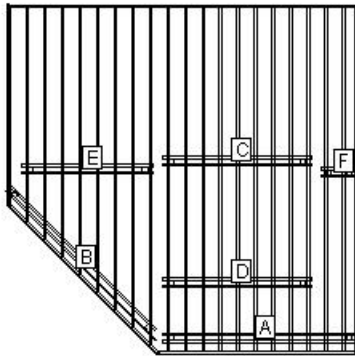


Bottom view with planks



Top view with planks

Permit Page: Level 1



LOAD AND SUPPORT:

Your deck will support a 40 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.

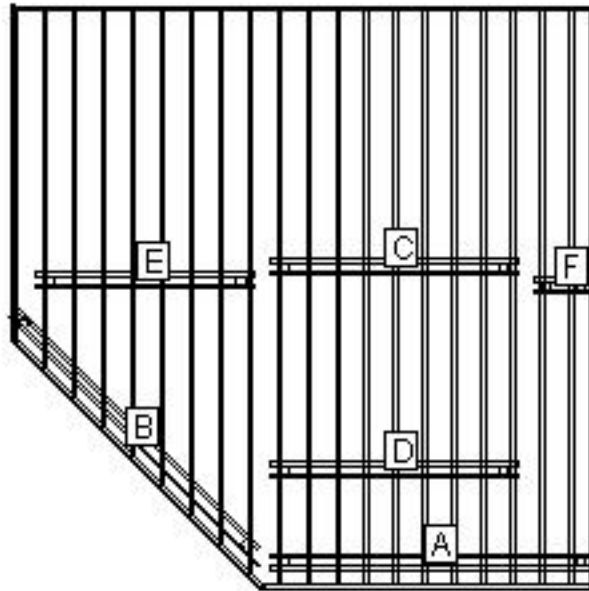
Joists:

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

Stress Analysis: Level 1

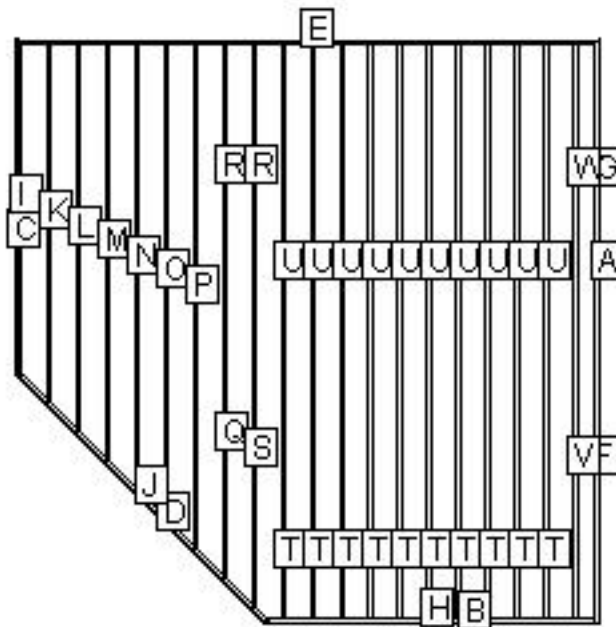
Joist Deflection	145
Joist Bending	58
Joist Shear	115
Joist Compression	115
Beam Deflection	112
Beam Bending	50
Beam Shear	55
Post Stability	188

Beam Layout Level 1



BEAM LABEL	BEAM LENGTH	POST COUNT	POST SPACING
A	11' 1 1/4"	2	10' 1 3/4"
B	12' 1/4"	3	5' 4 1/2"
C	8' 6"	2	7' 6 1/2"
D	8' 6"	2	7' 6 1/2"
E	7' 6"	2	6' 6 1/2"
F	2' 1 1/4"	2	1' 1 3/4"

Materials Cut List: Level 1



LABEL	NAME	QTY	LENGTH	BEVELS	LABEL	NAME	QTY	LENGTH	BEVELS
A	Cladding	1	20'	45, 45	M	Internal Joist	1	14' 2 3/4"	0, 45
B	Cladding	1	11' 6"	23, 45	N	Internal Joist	1	15' 2 3/4"	0, 45
C	Cladding	1	11' 6"	45, 23	O	Internal Joist	1	16' 2 3/4"	0, 45
D	Cladding	1	12' 1/4"	23, 23	P	Internal Joist	1	17' 2 3/4"	0, 45
E	Header	1	19' 7 1/4"	0, 0	Q	Internal Joist	1	9' 1"	0, 45
F	Rim Joist	1	10' 5 1/4"	0, 0	R	Internal Joist	2	9' 1 1/2"	0, 45
G	Rim Joist	1	9' 5"	0, 0	S	Internal Joist	1	10' 1"	0, 45
H	Header	1	11' 3 1/4"	0, 0	T	Internal Joist	10	3' 11 1/2"	0, 0
I	Rim Joist	1	11' 5"	0, 0	U	Internal Joist	10	15' 7 3/4"	0, 0
J	Header	1	11' 11 1/2"	0, 0	V	Internal Joist	1	10' 3 1/2"	0, 0
K	Internal Joist	1	12' 2 3/4"	0, 45	W	Internal Joist	1	9' 3 3/4"	0, 0
L	Internal Joist	1	13' 2 3/4"	0, 45					

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
Beam	4	2X10X10 Treated	TREATED
Internal Joist	4	2X8X14 Treated	TREATED
Internal Joist	12	2X8X16 Treated	TREATED
Internal Joist	3	2X8X18 Treated	TREATED
Internal Joist	5	2X8X10 Treated	TREATED
Internal Joist	5	2X8X12 Treated	TREATED
Internal Joist	10	2X8X8 Treated	TREATED
Beam	2	2X10X12 Treated	TREATED
Beam	2	2X10X14 Treated	TREATED
Beam	3	2X10X8 Treated	TREATED
Hand Rail	1	AZEK 5.5" Top Rail - White - 8'	AZEK
Hand Rail	4	AZEK 5.5" Top Rail - White - 12'	AZEK
Railing Post	2	6X6X18 Treated	TREATED
Railing Section	9	AZEK 6' Reserve Custom Rail Pack - White - 6'	AZEK
Railing Section	9	TT/AZEK 31" Square Aluminum Baluster - Black - 31"	AZEK
Cladding	5	AZEK Arbor Collection® Rim Joist Covers/Fasica - Hazelwood® - 12'	AZEK
Decking	2	AZEK Terra Collection Deck Plank, Square Shouldered - Tahoe® - 12'	AZEK
Decking	39	AZEK Terra Collection Deck Plank, Square Shouldered - Tahoe® - 20'	AZEK
Post	2	4X4X8 Treated	TREATED

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

Other Materials

Qty	Description
2	1 LB. 10D X1 1/2" Nail
4	1 LB. 10D Hot-Dip Galvanized Nail
30	2x8-10" Triple Zinc Joist Hanger JUS28-TZ
1	1LB. 16D Galvanized Common Nail
8	2x6-8" Triple Zinc Right Skewed Joist Hanger SKH26R-TZ
3	7" Triple Zinc Angle Clip AC7-TZ
1	5" Triple Zinc Angle Clip MP5-TZ
2	THR128-HDG Threaded Rod
4	DTB-TZ Deck Tie Bracket
13	Anchor Bolt AB128
13	4X4 Triple Zinc Deck Post Anchor PA44E-TZ
21	80 L.B. Basic Concrete Mix
10	8" X 48" Concrete Form Tube
208	1/2 Galvanized Flat Washer
5	1/2 Galvanized Hex Nut
104	1/2 X 8" Galvanized Carriage Bolt
3	1LB. 8D Galvanized Common Nail
3	1 LB. 1-1/2" Joist Hanger Nail
50	Triple Zinc Rafter Tie RT7-TZ
20	4X4 Triple Zinc Deck Post Tie SDPT7-TZ
1	1 LB. 8X3" Philips Head Stainless Deck Screws
10	AZEK 6" Post Skirt - White
40	3/8 Galvanized Hex Nut
80	3/8 Galvanized Flat Washer
40	3/8 X 8" Galvanized Carriage Bolt
10	AZEK 6" Island Cap - White
10	AZEK 6" x 6" Post Sleeve - White - 9'
14	2 Pieces of Joist Material Nailed to Each Joist Splice
3	AZEK Cortex - 100 LF Terra Collection - Tahoe
40	1/2 X 6" Galvanized Lag Screw

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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