



Deck Designer Specification Kit For  
**AZEK**

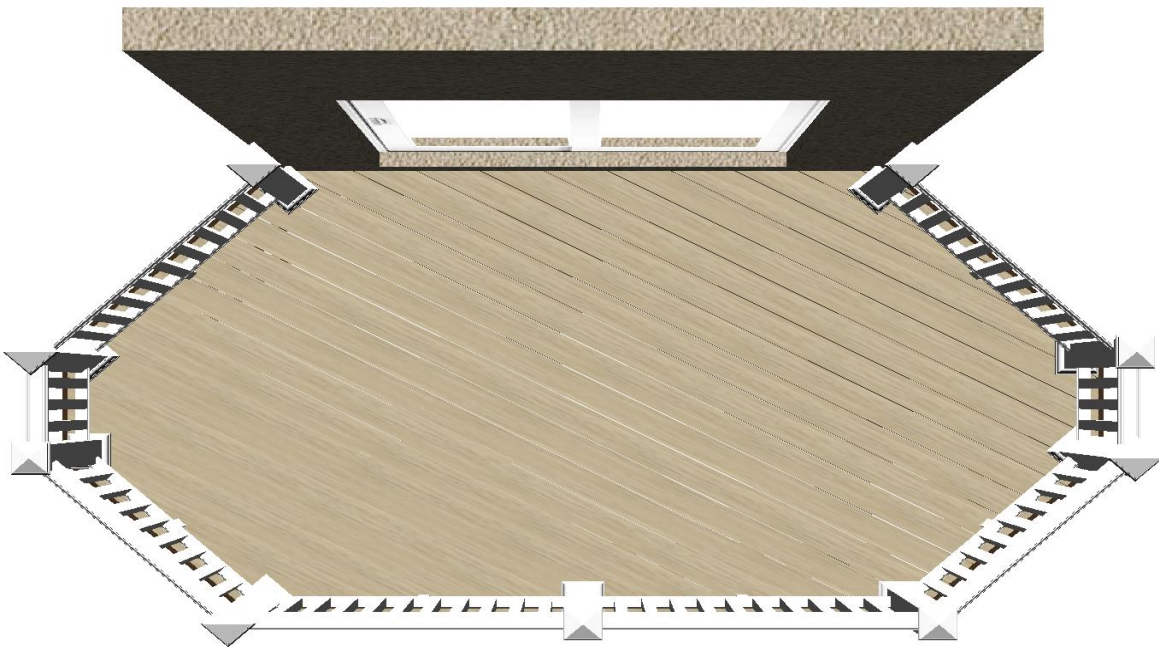
**Deck layout diagram**



Top view without planks

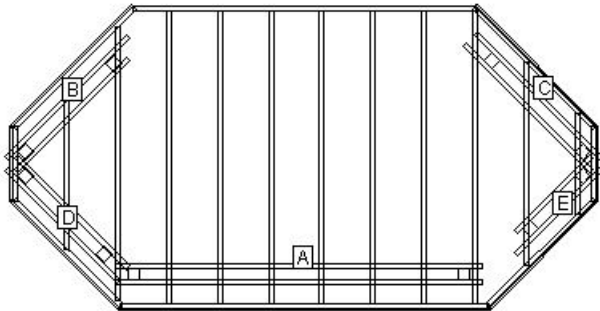


Bottom view with planks



Top view with planks

Permit Page: Level 1



**LOAD AND SUPPORT:**

Your deck will support a 80 PSF live load.  
Posts have 36" below ground support.

**DECK AND POST HEIGHT:**

You selected a height of 48" from the top of the decking to the ground level. The top of the deck support posts will therefore be 39" above ground level.

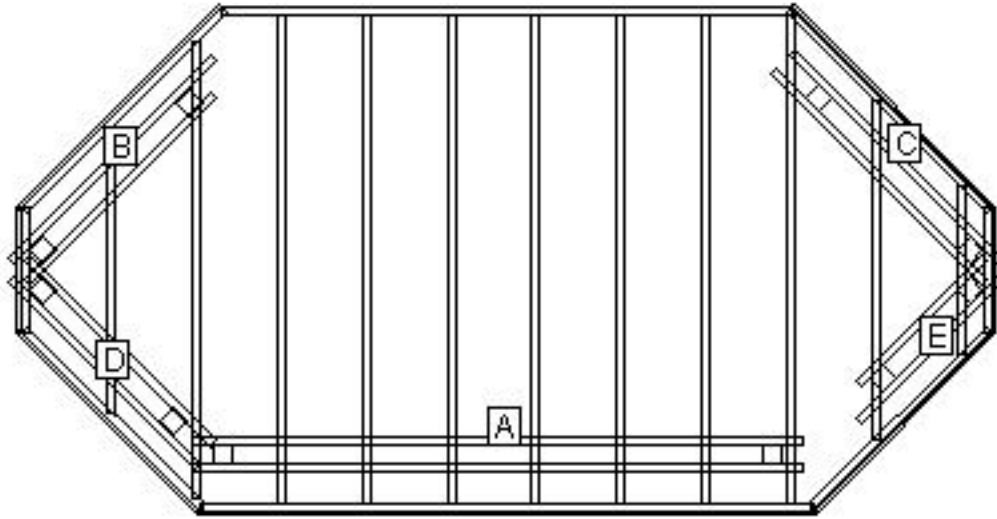
**Joists:**

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

**Stress Analysis: Level 1**

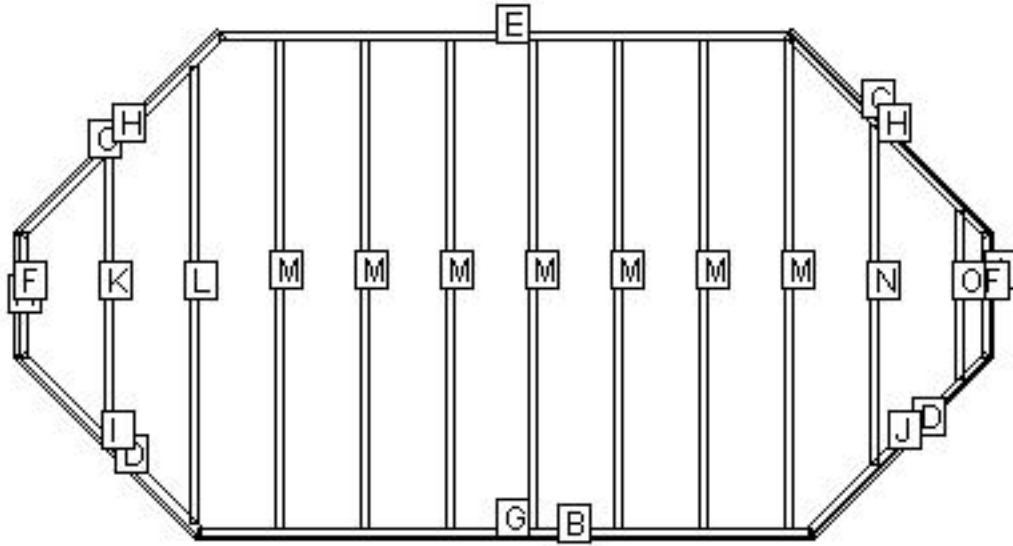
Joist Deflection	578
Joist Bending	130
Joist Shear	142
Joist Compression	142
Beam Deflection	289
Beam Bending	94
Beam Shear	90
Post Stability	323

### Beam Layout Level 1



BEAM LABEL	BEAM LENGTH	POST COUNT	POST SPACING
A	9' 7"	2	8' 7 1/2"
B	4' 5 3/4"	2	3' 2 3/4"
C	4' 7"	2	3' 4"
D	4' 1 1/2"	2	2' 10 1/2"
E	3' 2"	2	1' 11"

Materials Cut List: Level 1



LABEL	NAME	QTY	LENGTH	BEVELS	LABEL	NAME	QTY	LENGTH	BEVELS
A	Cladding	2	2'	23, 23	I	Header	1	3' 11 1/4"	0, 0
B	Cladding	1	9' 8"	23, 23	J	Header	1	3' 11 1/4"	0, 0
C	Cladding	2	4' 5 3/4"	23, 23	K	Internal Joist	1	4' 6"	45, 45
D	Cladding	2	4'	23, 23	L	Internal Joist	1	7' 2"	45, 45
E	Header	1	8' 11 1/4"	0, 0	M	Internal Joist	7	7' 7 1/4"	0, 0
F	Rim Joist	2	1' 11 1/4"	0, 0	N	Internal Joist	1	5' 3 1/2"	45, 45
G	Header	1	9' 7 1/4"	0, 0	O	Internal Joist	1	2' 7 1/2"	45, 45
H	Header	2	4' 5"	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
Internal Joist	7	2X8X8 Treated	TREATED
Beam	2	2X10X10 Treated	TREATED
Railing Post	1	4X4X14 Treated	TREATED
Railing Post	1	4X4X18 Treated	TREATED
Railing Section	1	AZEK 36" Premier Rail Kit - White - 6'	AZEK
Railing Section	3	AZEK 36" Premier Rail Kit - White - 8'	AZEK
Cladding	3	AZEK XLM® Tropical Fascia Board - Walnut Grove - 12'	AZEK
Decking	4	AZEK Arbor Collection® Deck Plank, Square Shouldered - Hazelwood® - 12'	AZEK
Decking	13	AZEK Arbor Collection® Deck Plank, Square Shouldered - Hazelwood® - 16'	AZEK
Header	3	2X8X18 Treated	TREATED
Internal Joist	1	2X8X12 Treated	TREATED
Post	5	4X4X8 Treated	TREATED
Beam	1	2X10X16 Treated	TREATED
Beam	1	2X10X18 Treated	TREATED

To find an AZEK Dealer or Contractor in your area, please go to [www.azek.com](http://www.azek.com)

### Other Materials

Qty	Description
3	1 LB. 10D Hot-Dip Galvanized Nail
1	1LB. 16D Galvanized Common Nail
4	2x6-8" Triple Zinc Left Skewed Joist Hanger SKH26L-TZ
4	2x6-8" Triple Zinc Right Skewed Joist Hanger SKH26R-TZ
1	1 LB. 10D X1 1/2" Nail
14	2x8-10" Triple Zinc Joist Hanger JUS28-TZ
4	5" Triple Zinc Angle Clip MP5-TZ
2	THR128-HDG Threaded Rod
4	DTB-TZ Deck Tie Bracket
1	1LB. 8D Galvanized Common Nail
1	1 LB. 1-1/2" Joist Hanger Nail
19	Triple Zinc Rafter Tie RT7-TZ
10	Anchor Bolt AB128
10	4X4 Triple Zinc Deck Post Anchor PA44E-TZ
16	80 L.B. Basic Concrete Mix
2	10 LB. Basic Concrete Mix
8	8" X 48" Concrete Form Tube
160	1/2 Galvanized Flat Washer
4	1/2 Galvanized Hex Nut
80	1/2 X 8" Galvanized Carriage Bolt
18	4X4 Triple Zinc Deck Post Tie SDPT7-TZ
1	1 LB. 8X3" Philips Head Stainless Deck Screws
9	AZEK 5 1/2" Post Skirt - White
36	3/8 Galvanized Hex Nut
72	3/8 Galvanized Flat Washer
36	3/8 X 8" Galvanized Carriage Bolt
9	AZEK 5 1/2" Pyramid Cap - White
9	AZEK 5.5" x 5.5" Post Sleeve - White - 39"
1	AZEK Cortex - 100 LF Arbor Collection® - Hazelwood
18	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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