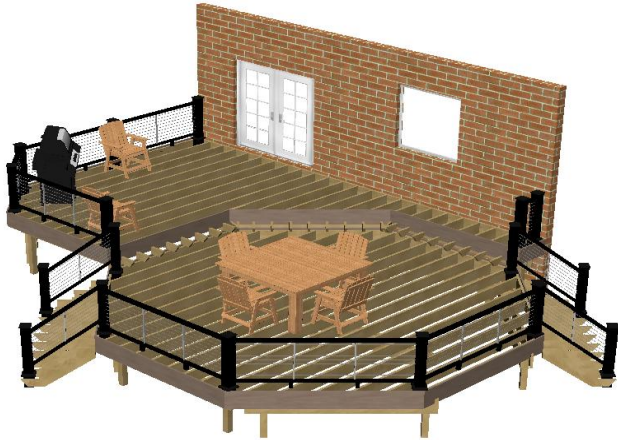


Deck Designer Specification Kit For
AZEK

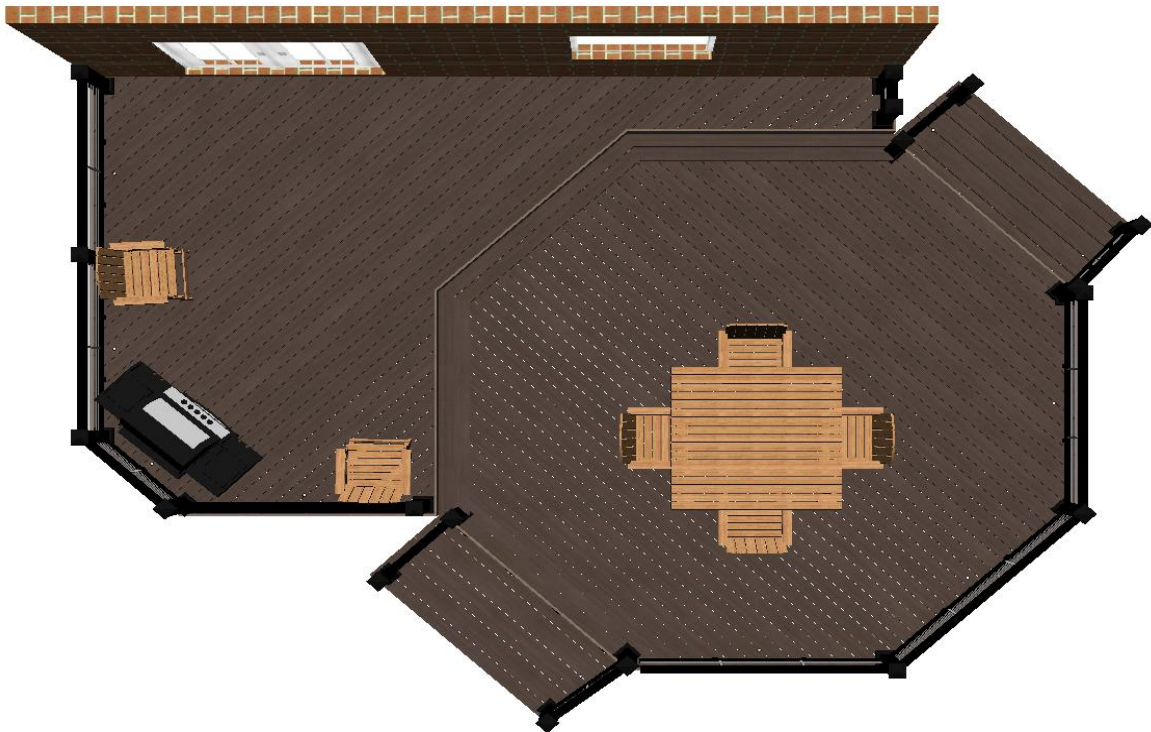
Deck layout diagram



Top view without planks

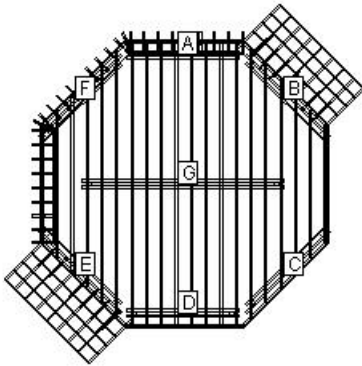


Bottom view with planks



Top view with planks

Permit Page: Level 1



LOAD AND SUPPORT:

Your deck will support a 49 PSF live load.
Posts have 36" below ground support.

DECK AND POST HEIGHT:

You selected a height of 36" from the top of the decking to the ground level. The top of the deck support posts will therefore be 27" above ground level.

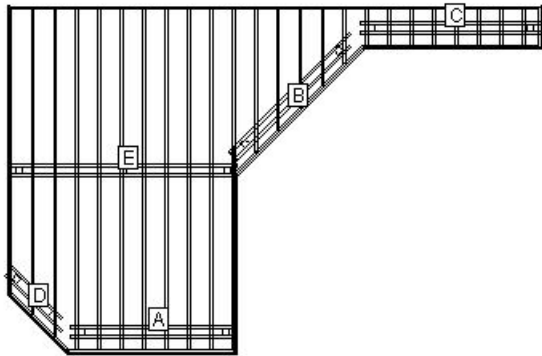
Joists:

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

Stress Analysis: Level 1

Joist Deflection	150
Joist Bending	59
Joist Shear	117
Joist Compression	117
Beam Deflection	495
Beam Bending	86
Beam Shear	65
Post Stability	118

Permit Page: Level 2



LOAD AND SUPPORT:

Your deck will support a 103 PSF live load.
Posts have 36" below ground support.

DECK AND POST HEIGHT:

You selected a height of 50" from the top of the decking to the ground level. The top of the deck support posts will therefore be 41" above ground level.

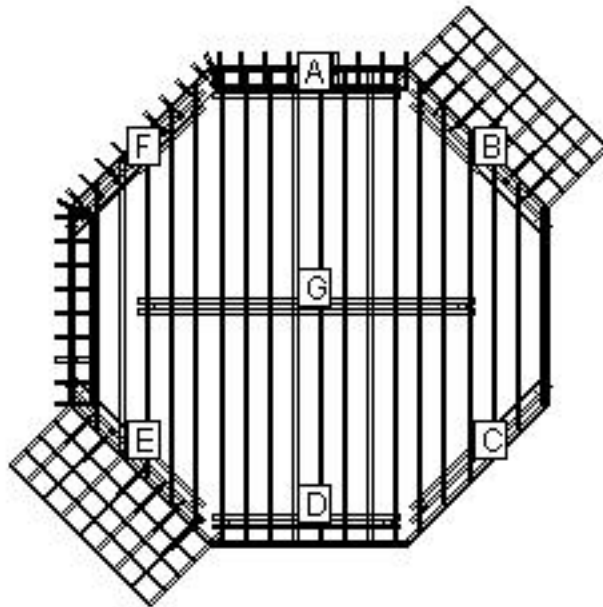
Joists:

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

Stress Analysis: Level 2

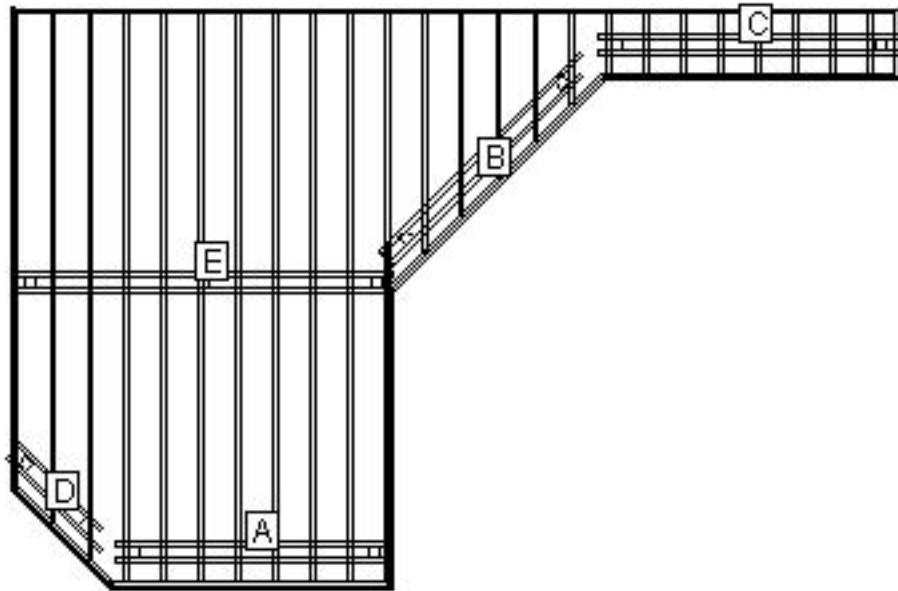
Joist Deflection	583
Joist Bending	146
Joist Shear	174
Joist Compression	174
Beam Deflection	834
Beam Bending	156
Beam Shear	119
Post Stability	192

Beam Layout Level 1



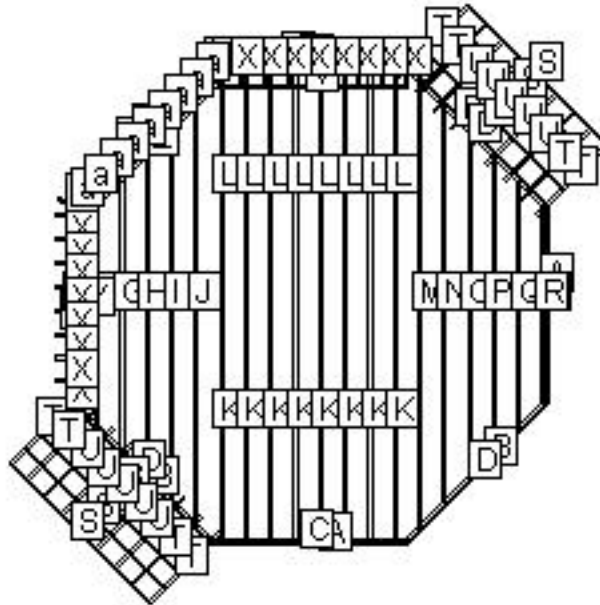
BEAM LABEL	BEAM LENGTH	POST COUNT	POST SPACING
A	7' 6"	2	6' 6 1/2"
B	7' 10 1/2"	2	6' 7 1/2"
C	7' 10 1/2"	2	6' 7 1/2"
D	7' 6"	2	6' 6 1/2"
E	7' 9 1/4"	2	6' 6 1/4"
F	7' 9 1/4"	2	6' 6 1/4"
G	13' 6"	3	6' 3 1/4"

Beam Layout Level 2



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

Materials Cut List: Level 1



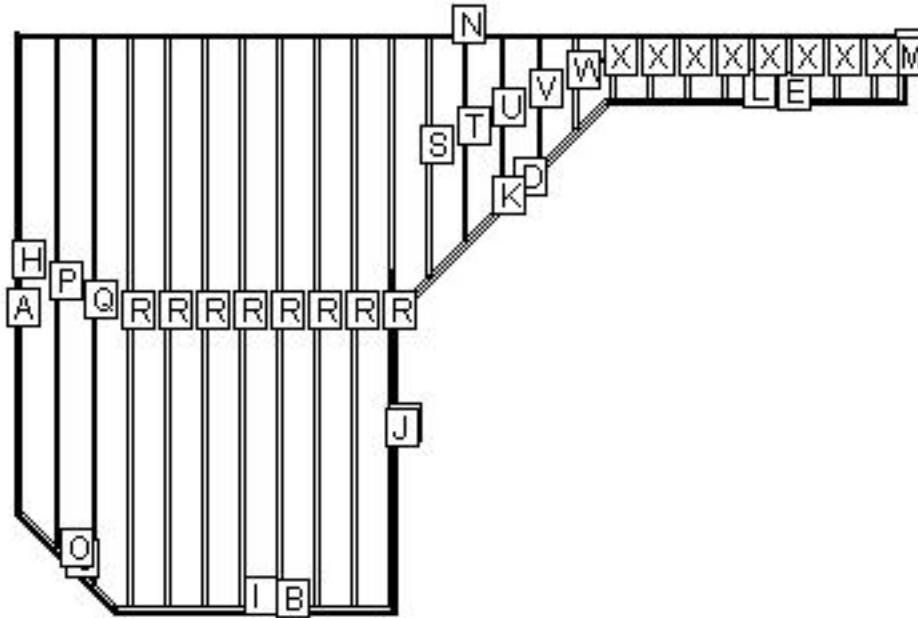
LABEL	NAME	QTY	LENGTH	BEVELS	LABEL	NAME	QTY	LENGTH	BEVELS
A	Cladding	4	8'	23, 23	O	Internal Joist	1	13' 11 1/2"	45, 45
B	Cladding	4	8' 1/4"	23, 23	P	Internal Joist	1	11' 11 1/2"	45, 45
C	Header	2	7' 11 1/4"	0, 0	Q	Internal Joist	1	9' 11 1/2"	45, 45
D	Header	4	7' 11 1/2"	0, 0	R	Internal Joist	1	7' 11 1/2"	0, 0
E	Rim Joist	2	7' 11 1/4"	0, 0	S	Riser	8	8' 1/4"	0, 0
F	Internal Joist	1	9' 10"	45, 45	T	Pre Cut Stringer	8	4' 2"	0, 0
G	Internal Joist	1	11' 10"	45, 45	U	Pre Cut Stringer	10	4' 2"	0, 0
H	Internal Joist	1	13' 10"	45, 45	V	Riser	1	7' 8"	23, 0
I	Internal Joist	1	15' 10"	45, 45	W	Pre Cut Stringer	2	1' 2"	0, 0
J	Internal Joist	1	17' 10"	45, 45	X	Pre Cut Stringer	18	1' 1 1/4"	0, 0
K	Internal Joist	8	9' 5 1/2"	0, 0	Y	Riser	1	7' 8"	0, 23
L	Internal Joist	8	9' 5 3/4"	0, 0	Z	Riser	1	7' 4"	23, 23

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

LABEL	NAME	QTY	LENGTH	BEVELS	LABEL	NAME	QTY	LENGTH	BEVELS
M	Internal Joist	1	17' 11 1/2"	45, 45	a	Pre Cut Stringer	9	1' 1 1/4"	0, 0
N	Internal Joist	1	15' 11 1/2"	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	1	13'	45, 23	M	Rim Joist	1	1' 10 1/4"	0, 0
B	Cladding	1	7' 8"	23, 45	N	Header	1	23' 7 1/4"	0, 0
C	Cladding	1	8' 1/4"	45, 23	O	Header	1	3' 8 1/2"	0, 0
D	Cladding	1	8' 1"	23, 23	P	Internal Joist	1	13' 8 3/4"	0, 45
E	Cladding	1	8' 1/4"	23, 45	Q	Internal Joist	1	14' 8 3/4"	0, 45
F	Cladding	1	2'	45, 45	R	Internal Joist	8	15' 3 1/4"	0, 0
G	Cladding	1	3' 9 1/4"	23, 23	S	Internal Joist	1	6' 5 1/2"	0, 45
H	Rim Joist	1	12' 11"	0, 0	T	Internal Joist	1	5' 5 1/2"	0, 45
I	Header	1	7' 5 1/4"	0, 0	U	Internal Joist	1	4' 5 1/2"	0, 45
J	Rim Joist	1	9' 2 1/4"	0, 0	V	Internal Joist	1	3' 5 1/2"	0, 45
K	Header	1	8' 1"	0, 0	W	Internal Joist	1	2' 5 1/2"	0, 45
L	Header	1	7' 10"	0, 0	X	Internal Joist	8	1' 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
Internal Joist	4	2X8X14 Treated	TREATED
Internal Joist	12	2X8X16 Treated	TREATED
Internal Joist	6	2X8X18 Treated	TREATED
Internal Joist	19	2X8X10 Treated	TREATED
Beam	17	2X10X8 Treated	TREATED
Beam	2	2X10X14 Treated	TREATED
Pre Cut Stringer	18	4-Step Treated Stair Stringer	TREATED
Pre Cut Stringer	31	2-Step Treated Stair Stringer	TREATED
Railing Post	2	4X4X8 Treated	TREATED
Railing Post	3	4X4X18 Treated	TREATED
Railing Section	7	AZEK 6' Premier Custom Rail Pack - Black - 6'	AZEK
Railing Section	4	AZEK 8' Premier Custom Rail Pack - Black - 8'	AZEK
Baluster	15	TT/AZEK CableRail 36" Intermediate Baluster [1 9-hole baluster, 1 intermediate base plate, 1 #10x2" pan head screw, 3 #10x1" flat head screws] - Silver	AZEK
Cladding	13	AZEK Arbor Collection® Rim Joist Covers/Fasica - Silver Oak® - 12'	AZEK
Decking	22	AZEK Vintage Collection® Deck Plank, Grooved - Dark Hickory® - 12'	AZEK
Decking	33	AZEK Vintage Collection® Deck Plank, Grooved - Dark Hickory® - 16'	AZEK
Decking	31	AZEK Vintage Collection® Deck Plank, Grooved - Dark Hickory® - 20'	AZEK
Header	11	2X8X8 Treated	TREATED
Internal Joist	2	2X8X12 Treated	TREATED
Post	11	4X4X8 Treated	TREATED
Riser	11	AZEK Arbor Collection® Rim Joist Covers/Fasica - Silver Oak® - 12'	AZEK
Railing Section	4	TT/AZEK CableRail 36" Stair Intermediate Baluster [1 angled 9-hole baluster, 1 intermediate base plate, 1 #10x2" pan head screw, 3 #10x1 flat head screws] - Silver	TIMBERTECH
Beam	2	2X10X10 Treated	TREATED

Lumber Materials

COMPONENT	QTY	DESCRIPTION	WOOD TYPE
Beam	2	2X10X12 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
6	TT/AZEK CableRail 100' Stainless Steel Cable - Stainless - 100'
1	5 LB. 10D Hot-Dip Galvanized Nail
6	1 LB. 10D Hot-Dip Galvanized Nail
3	1LB. 16D Galvanized Common Nail
13	2x6-8" Triple Zinc Right Skewed Joist Hanger SKH26R-TZ
17	2x6-8" Triple Zinc Left Skewed Joist Hanger SKH26L-TZ
5	1 LB. 10D X1 1/2" Nail
54	2x8-10" Triple Zinc Joist Hanger JUS28-TZ
6	5" Triple Zinc Angle Clip MP5-TZ
5	1LB. 8D Galvanized Common Nail
4	1 LB. 1-1/2" Joist Hanger Nail
92	Triple Zinc Rafter Tie RT7-TZ
26	Anchor Bolt AB128
26	4X4 Triple Zinc Deck Post Anchor PA44E-TZ
41	80 L.B. Basic Concrete Mix
3	10 LB. Basic Concrete Mix
20	8" X 48" Concrete Form Tube
416	1/2 Galvanized Flat Washer
9	1/2 Galvanized Hex Nut
208	1/2 X 8" Galvanized Carriage Bolt
47	7" Triple Zinc Angle Clip AC7-TZ
36	4X4 Triple Zinc Deck Post Tie SDPT7-TZ
1	1 LB. 8X3" Philips Head Stainless Deck Screws
18	AZEK 5 1/2" Post Skirt - Black
72	3/8 Galvanized Hex Nut
144	3/8 Galvanized Flat Washer
72	3/8 X 8" Galvanized Carriage Bolt
18	AZEK 5 1/2" Pyramid Cap - Black
18	AZEK 5.5" x 5.5" Post Sleeve - Black - 39"
1	TT/AZEK CableRail Cable Cutters
1	TT/AZEK CableRail Accessory Kit [Quick-Connect release tool, lacing needle, hanger bolt installation tool] -
17	TT/AZEK CableRail 36" Hardware Kit [9 Quick-Connect fittings, 9 Quick Connect Swivel fittings, 18 hanger bolts, 9 lock nuts] - Stainless
11	TT/AZEK LED In Deck Light (8 Packs of 4 per Unit) - Architectural Bronze
1	TT/AZEK Decklites Dimmer
2	TT/AZEK 100' wire 16/2
1	TT/AZEK Transformer - 12 Volt 150 W
8	2 Pieces of Joist Material Nailed to Each Joist Splice

Qty	Description
56	TT/AZEK LED Riser Light - Architectural Bronze
1	AZEK Cortex - 100 LF Vintage Collection® - Dark Hickory
6	TimberTech CONCEALoc Hidden Fastener - Unit = 8 retail cartons @ 100 sq.ft. coverage each (175 CONCEALoc fasteners, 184 Screws and drive bit) - Brown
48	1/2 X 6" Galvanized Lag Screw
4	7" Triple Zinc Angle Clip AC7-TZ
2	THR128-HDG Threaded Rod
4	DTB-TZ Deck Tie Bracket
1	60 L.B. Basic Concrete Mix
1	TT/AZEK CableRail Protector Sleeves [Pack of 20] - Stainless

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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