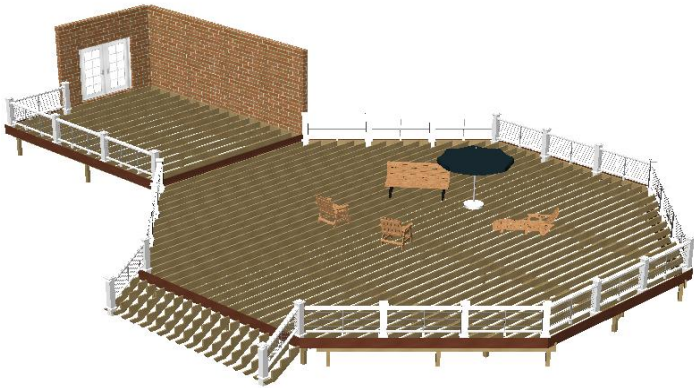
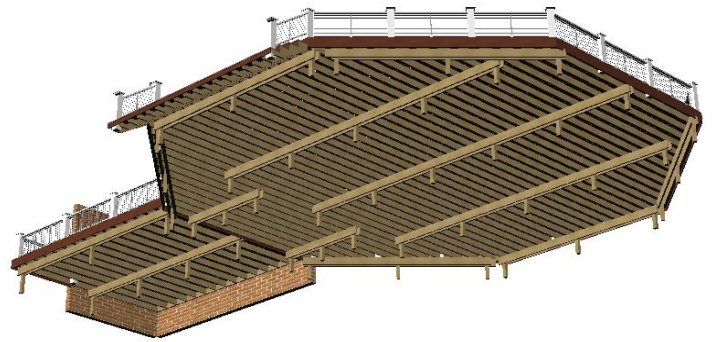


Deck Designer Specification Kit For
AZEK

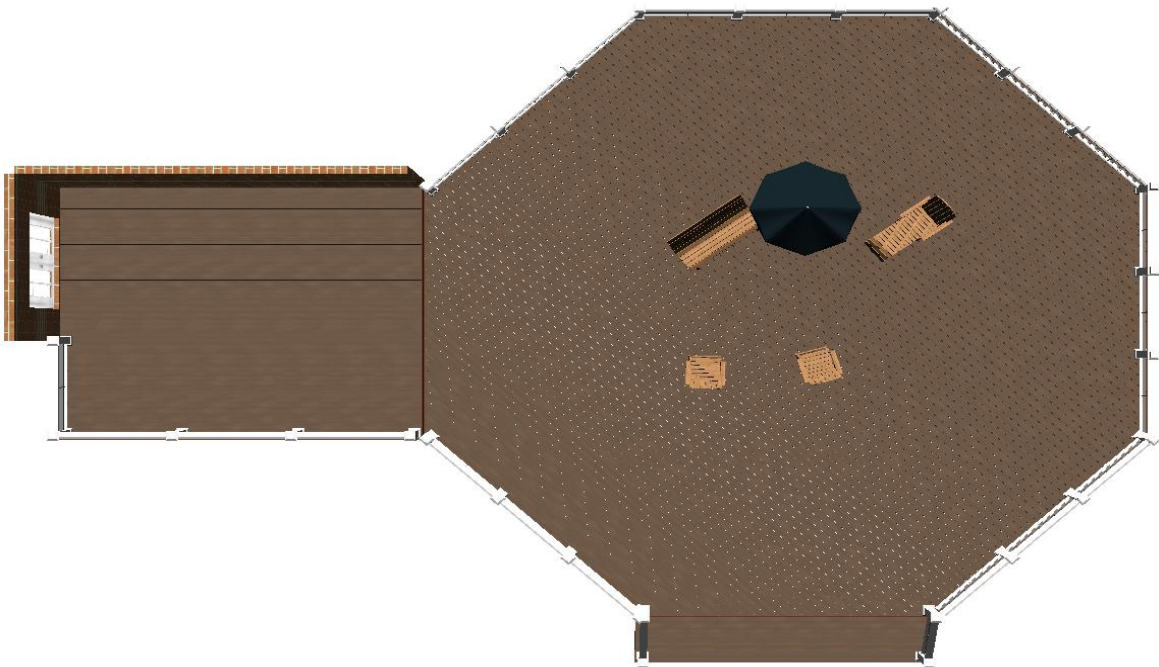
Deck layout diagram



Top view without planks

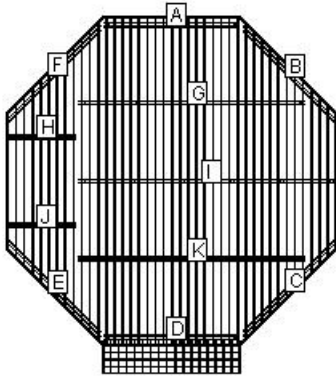


Bottom view with planks



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 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.

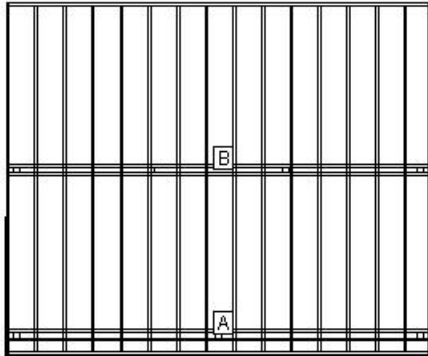
Joists:

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

Stress Analysis: Level 1

Joist Deflection	119
Joist Bending	50
Joist Shear	109
Joist Compression	109
Beam Deflection	327
Beam Bending	70
Beam Shear	55
Post Stability	101

Permit Page: Level 2



LOAD AND SUPPORT:

Your deck will support a 58 PSF live load.
Posts have 36" below ground support.

DECK AND POST HEIGHT:

You selected a height of 43" from the top of the decking to the ground level. The top of the deck support posts will therefore be 34" above ground level.

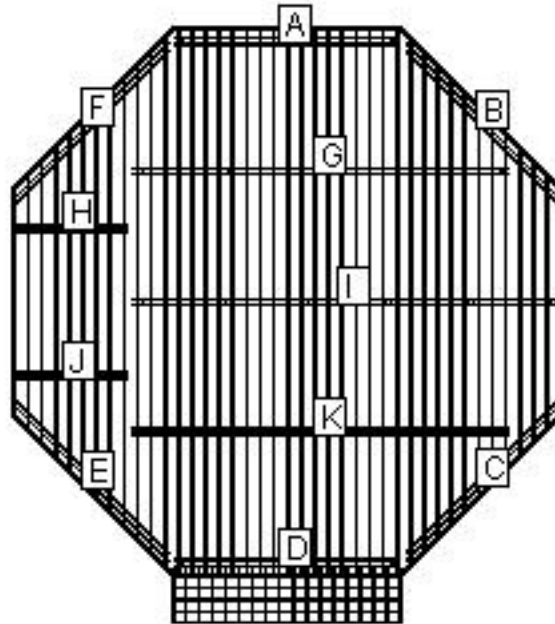
Joists:

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

Stress Analysis: Level 2

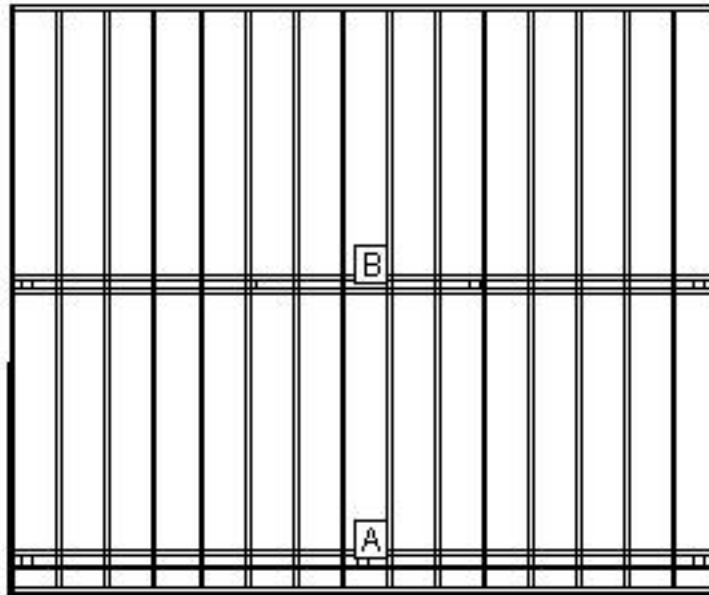
Joist Deflection	335
Joist Bending	92
Joist Shear	120
Joist Compression	120
Beam Deflection	171
Beam Bending	68
Beam Shear	70
Post Stability	132

Beam Layout Level 1



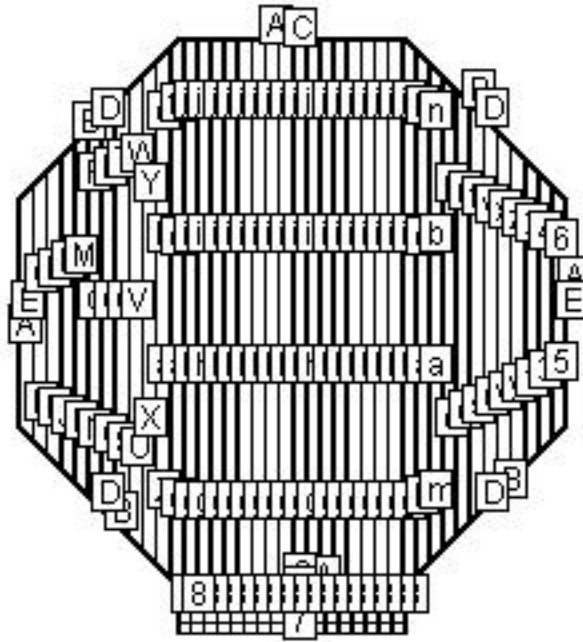
BEAM LABEL	BEAM LENGTH	POST COUNT	POST SPACING
A	16' 6"	3	7' 9 1/4"
B	16' 1 1/2"	3	7' 5 1/4"
C	16' 1 1/2"	3	7' 5 1/4"
D	16' 6"	3	7' 9 1/4"
E	16' 3 1/4"	3	7' 6"
F	16' 3 1/4"	3	7' 6"
G	27' 6"	5	6' 7 3/4"
H	8' 3"	3	3' 8"
I	31' 3 1/4"	6	6' 3/4"
J	8' 3"	3	3' 8"
K	27' 6"	5	6' 7 3/4"

Beam Layout Level 2



BEAM LABEL	BEAM LENGTH	POST COUNT	POST SPACING
A	19' 11 1/4"	3	9' 6"
B	19' 11 1/4"	4	6' 4"

Materials Cut List: Level 1



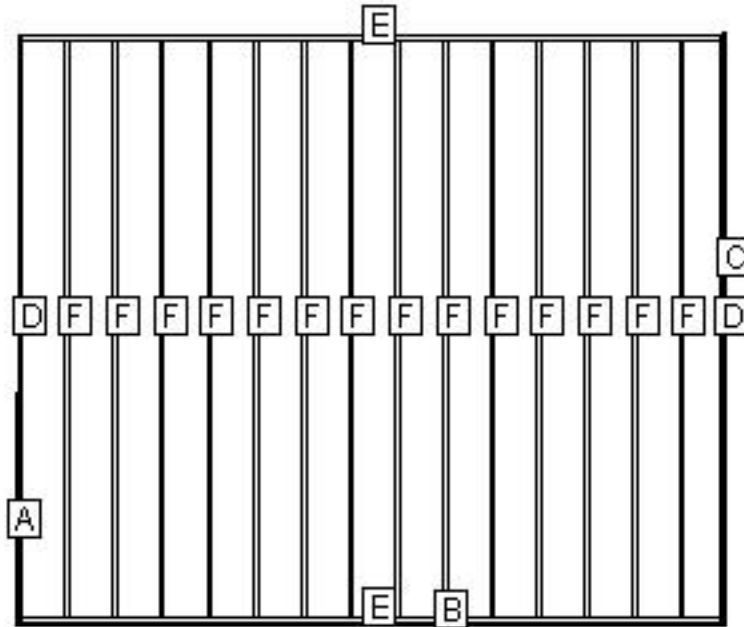
LABEL	NAME	QTY	LENGTH	BEVELS	LABEL	NAME	QTY	LENGTH	BEVELS
A	Cladding	4	16' 8"	23, 23	e	Internal Joist	2	9' 6"	45, 45
B	Cladding	4	16' 7 1/2"	23, 23	f	Internal Joist	1	9' 9"	45, 45
C	Header	2	16' 7 1/4"	0, 0	g	Internal Joist	17	10' 4 1/2"	0, 0
D	Header	4	16' 6 3/4"	0, 0	h	Internal Joist	17	9' 6"	0, 0
E	Rim Joist	2	16' 7 1/4"	0, 0	i	Internal Joist	17	9' 7"	0, 0
F	Internal Joist	1	3' 10"	45, 45	j	Internal Joist	17	10' 3 3/4"	0, 0
G	Internal Joist	1	14' 8"	45, 45	k	Internal Joist	1	9' 8"	45, 45
H	Internal Joist	1	4' 10"	45, 45	l	Internal Joist	1	9' 8"	45, 45
I	Internal Joist	1	15' 8"	45, 45	m	Internal Joist	1	8' 8"	45, 45
J	Internal Joist	1	5' 10"	45, 45	n	Internal Joist	1	8' 7"	45, 45
K	Internal Joist	1	16' 8"	45, 45	o	Internal Joist	1	17' 2"	45, 45
L	Internal Joist	1	6' 10"	45, 45	p	Internal Joist	1	17' 2"	45, 45

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' 8"	45, 45	q	Internal Joist	1	16' 2"	45, 45
N	Internal Joist	1	7' 10"	45, 45	r	Internal Joist	1	16' 2"	45, 45
O	Internal Joist	3	10' 10"	45, 45	s	Internal Joist	1	15' 2"	45, 45
P	Internal Joist	1	7' 10"	45, 45	t	Internal Joist	1	15' 2"	45, 45
Q	Internal Joist	1	8' 10"	45, 45	u	Internal Joist	1	14' 2"	45, 45
R	Internal Joist	1	8' 10"	45, 45	v	Internal Joist	1	14' 2"	45, 45
S	Internal Joist	1	9' 10"	45, 45	w	Internal Joist	1	13' 2"	45, 45
T	Internal Joist	1	9' 10"	45, 45	x	Internal Joist	1	13' 2"	45, 45
U	Internal Joist	1	10' 10"	45, 45	y	Internal Joist	1	12' 2"	45, 45
V	Internal Joist	1	10' 10"	45, 45	z	Internal Joist	1	12' 2"	45, 45
W	Internal Joist	1	10' 10"	45, 45	1	Internal Joist	1	11' 2"	45, 45
X	Internal Joist	1	17' 3"	45, 45	2	Internal Joist	1	11' 2"	45, 45
Y	Internal Joist	1	17' 3"	45, 45	3	Internal Joist	1	10' 2"	45, 45
Z	Internal Joist	1	8' 9"	45, 45	4	Internal Joist	1	10' 2"	45, 45
a	Internal Joist	4	9' 6"	45, 45	5	Internal Joist	1	9' 2"	45, 45
b	Internal Joist	2	9' 7"	45, 45	6	Internal Joist	1	9' 2"	45, 45
c	Internal Joist	1	8' 8"	45, 45	7	Riser	4	16' 8"	0, 0
d	Internal Joist	1	9' 9"	45, 45	8	Pre Cut Stringer	18	4' 2"	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	1	6' 6 1/4"	0, 45	D	Rim Joist	2	16' 6 1/4"	0, 0
B	Cladding	1	20' 1"	45, 45	E	Header	2	19' 8 1/4"	0, 0
C	Cladding	1	16' 8"	45, 45	F	Internal Joist	14	16' 3 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	38	2X8X18 Treated	TREATED
Internal Joist	7	2X8X8 Treated	TREATED
Internal Joist	6	2X8X16 Treated	TREATED
Internal Joist	44	2X8X12 Treated	TREATED
Internal Joist	56	2X8X10 Treated	TREATED
Internal Joist	5	2X8X14 Treated	TREATED
Beam	12	2X10X18 Treated	TREATED
Beam	14	2X10X14 Treated	TREATED
Beam	8	2X10X10 Treated	TREATED
Beam	4	2X10X8 Treated	TREATED
Pre Cut Stringer	18	4-Step Treated Stair Stringer	TREATED
Hand Rail	4	AZEK 5.5" Top Rail - White - 10'	AZEK
Hand Rail	7	AZEK 5.5" Top Rail - White - 12'	AZEK
Railing Post	1	6X6X12 Treated	TREATED
Railing Post	5	6X6X18 Treated	TREATED
Railing Section	22	AZEK 6' Reserve Custom Rail Pack - White - 6'	AZEK
Railing Section	1	AZEK 8' Reserve Custom Rail Pack - White - 8'	AZEK
Baluster	27	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	16	AZEK Arbor Collection® Rim Joist Covers/Fasica - Redland Rose® - 12'	AZEK
Decking	2	AZEK Terra Collection Deck Plank, Square Shouldered - Sedona® - 12'	AZEK
Decking	187	AZEK Terra Collection Deck Plank, Square Shouldered - Sedona® - 20'	AZEK
Post	18	4X4X8 Treated	TREATED
Riser	6	AZEK Arbor Collection® Rim Joist Covers/Fasica - Redland Rose® - 12'	AZEK
Railing Section	2	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



Lumber Materials

COMPONENT	QTY	DESCRIPTION	WOOD TYPE
Hand Rail	2	AZEK 5.5" Top Rail - White - 8'	AZEK

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

Other Materials

Qty	Description
1	TT/AZEK CableRail 500' Stainless Steel Cable - Stainless - 500'
6	TT/AZEK CableRail 100' Stainless Steel Cable - Stainless - 100'
1	5 LB. 10D Hot-Dip Galvanized Nail
7	1 LB. 10D Hot-Dip Galvanized Nail
4	1LB. 16D Galvanized Common Nail
22	2x6-8" Triple Zinc Right Skewed Joist Hanger SKH26R-TZ
22	2x6-8" Triple Zinc Left Skewed Joist Hanger SKH26L-TZ
4	1 LB. 10D X1 1/2" Nail
62	2x8-10" Triple Zinc Joist Hanger JUS28-TZ
4	5" Triple Zinc Angle Clip MP5-TZ
1	5 LB. 8D Galvanized Nail
4	1LB. 8D Galvanized Common Nail
2	5 LB. 1-1/2" Joist Hanger Nail
5	1 LB. 1-1/2" Joist Hanger Nail
218	Triple Zinc Rafter Tie RT7-TZ
47	Anchor Bolt AB128
47	4X4 Triple Zinc Deck Post Anchor PA44E-TZ
75	80 L.B. Basic Concrete Mix
1	40 LB. Basic Concrete Mix
4	10 LB. Basic Concrete Mix
36	8" X 48" Concrete Form Tube
752	1/2 Galvanized Flat Washer
16	1/2 Galvanized Hex Nut
376	1/2 X 8" Galvanized Carriage Bolt
18	7" Triple Zinc Angle Clip AC7-TZ
56	4X4 Triple Zinc Deck Post Tie SDPT7-TZ
1	1 LB. 8X3" Philips Head Stainless Deck Screws
28	AZEK 6" Post Skirt - White
112	3/8 Galvanized Hex Nut
224	3/8 Galvanized Flat Washer
112	3/8 X 8" Galvanized Carriage Bolt
28	AZEK 6" Island Cap - White
28	AZEK 6" x 6" Post Sleeve - White - 9'
1	TT/AZEK CableRail Cable Cutters
1	TT/AZEK CableRail Accessory Kit [Quick-Connect release tool, lacing needle, hanger bolt installation tool] -
14	TT/AZEK CableRail 36" Hardware Kit [9 Quick-Connect fittings, 9 Quick Connect Swivel fittings, 18 hanger bolts, 9 lock nuts] - Stainless
1	TT/AZEK CableRail Protector Sleeves [Pack of 20] - Stainless

Qty	Description
85	2 Pieces of Joist Material Nailed to Each Joist Splice
14	AZEK Cortex - 100 LF Terra Collection - Sedona
62	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

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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