



Deck Designer Specification Kit For
AZEK

Deck layout diagram



Top view without planks

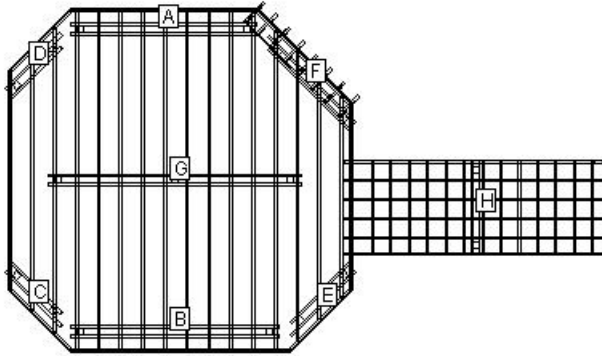


Bottom view with planks



Top view with planks

Permit Page: Level 1



LOAD AND SUPPORT:

Your deck will support a 51 PSF live load.
Posts have 36" below ground support.

DECK AND POST HEIGHT:

You selected a height of 108" from the top of the decking to the ground level. The top of the deck support posts will therefore be 99" above ground level.

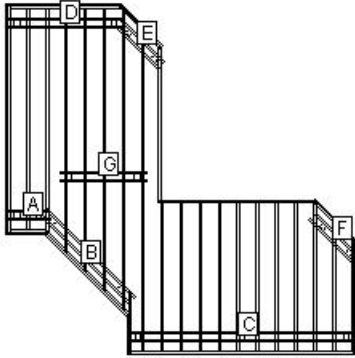
Joists:

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

Stress Analysis: Level 1

Joist Deflection	157
Joist Bending	61
Joist Shear	118
Joist Compression	118
Beam Deflection	298
Beam Bending	96
Beam Shear	90
Post Stability	178

Permit Page: Level 2



LOAD AND SUPPORT:

Your deck will support a 52 PSF live load.
Posts have 36" below ground support.

DECK AND POST HEIGHT:

You selected a height of 122" from the top of the decking to the ground level. The top of the deck support posts will therefore be 113" above ground level.

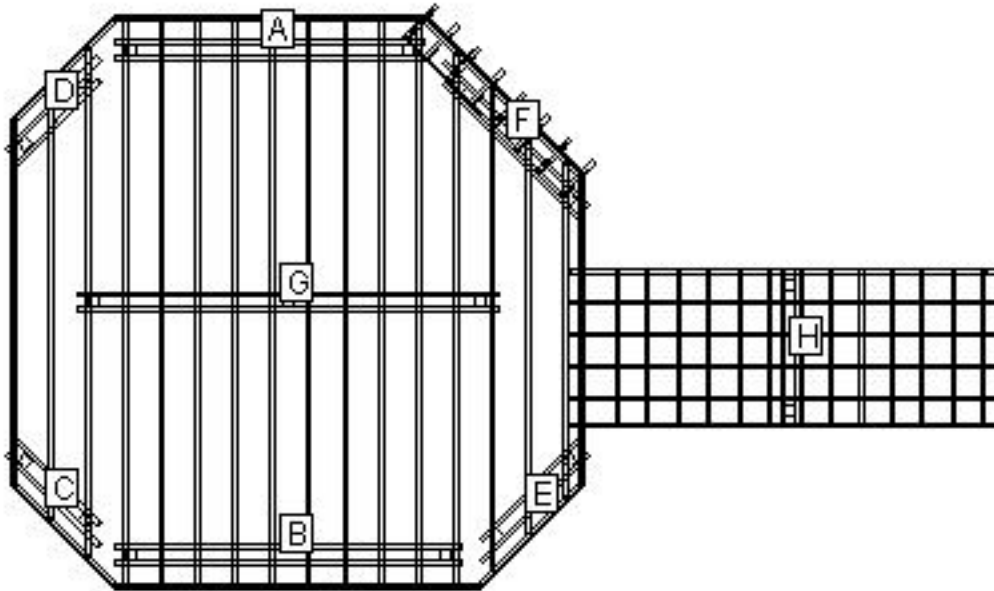
Joists:

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

Stress Analysis: Level 2

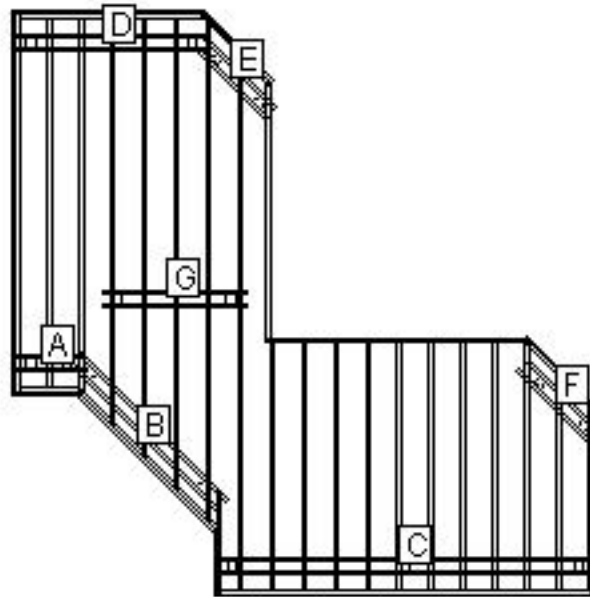
Joist Deflection	160
Joist Bending	62
Joist Shear	119
Joist Compression	119
Beam Deflection	1528
Beam Bending	196
Beam Shear	128
Post Stability	239

Beam Layout Level 1



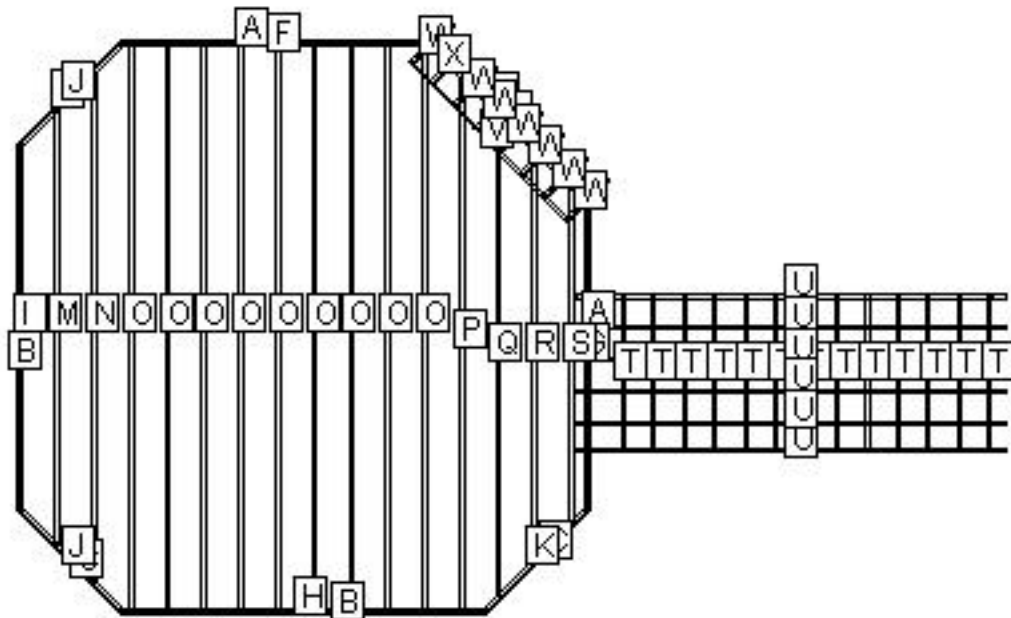
BEAM LABEL	BEAM LENGTH	POST COUNT	POST SPACING
A	8' 6"	2	7' 6 1/2"
B	9' 6"	2	8' 6 1/2"
C	3' 6 1/2"	2	2' 3 1/2"
D	3' 6 1/2"	2	2' 3 1/2"
E	4' 1 1/4"	2	2' 10 1/4"
F	5' 6"	2	4' 3"
G	11' 6"	3	5' 3 1/4"
H	4' 4"	2	3' 4 1/2"

Beam Layout Level 2



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

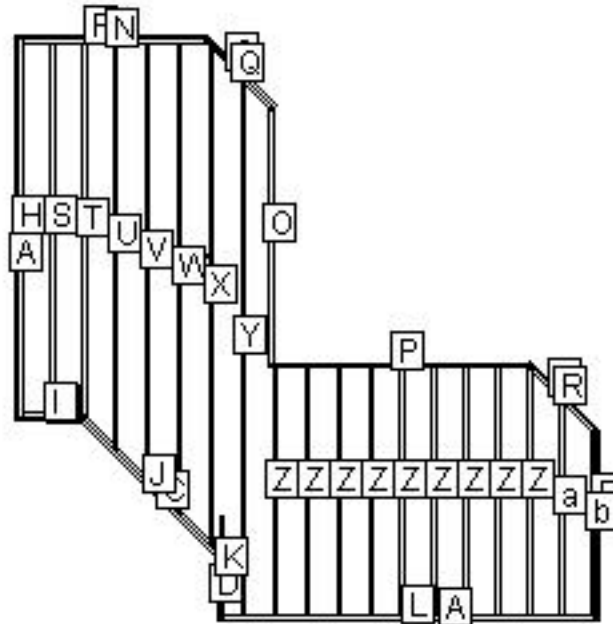
Materials Cut List: Level 1



LABEL	NAME	QTY	LENGTH	BEVELS	LABEL	NAME	QTY	LENGTH	BEVELS
A	Cladding	2	8' 6"	23, 23	M	Internal Joist	1	11' 10"	45, 45
B	Cladding	2	10'	23, 23	N	Internal Joist	1	13' 10"	45, 45
C	Cladding	2	4'	23, 23	O	Internal Joist	9	15' 3 1/4"	0, 0
D	Cladding	1	4'	23, 23	P	Internal Joist	1	14' 5 1/2"	45, 0
E	Cladding	1	6' 1 1/2"	23, 23	Q	Internal Joist	1	13' 1 1/2"	45, 45
F	Header	1	8' 5 1/4"	0, 0	R	Internal Joist	1	11' 1 1/2"	45, 45
G	Rim Joist	1	8' 5 1/4"	0, 0	S	Internal Joist	1	9' 1 1/2"	45, 45
H	Header	1	9' 11 1/4"	0, 0	T	Riser	13	4' 4"	0, 0
I	Rim Joist	1	9' 11 1/4"	0, 0	U	Stringer	6	14' 2"	0, 0
J	Header	2	3' 11 1/4"	0, 0	V	Riser	1	6' 1 1/2"	0, 0
K	Header	1	3' 11 1/4"	0, 0	W	Stringer	7	1' 1 1/4"	0, 0
L	Header	1	6' 1"	0, 0	X	Stringer	1	1' 1 1/4"	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	12'	45, 45	O	Rim Joist	1	8' 1/2"	0, 0
B	Cladding	1	2' 1/4"	45, 23	P	Header	1	8' 2"	0, 0
C	Cladding	1	6' 2 1/4"	23, 23	Q	Header	1	3'	0, 0
D	Cladding	1	2' 1/4"	23, 45	R	Header	1	3'	0, 0
E	Cladding	1	6'	45, 23	S	Internal Joist	1	11' 7 1/4"	0, 0
F	Cladding	1	6'	23, 45	T	Internal Joist	1	11' 8 3/4"	0, 0
G	Cladding	2	3' 1"	23, 23	U	Internal Joist	1	12' 8 3/4"	0, 45
H	Rim Joist	1	11' 10 1/4"	0, 0	V	Internal Joist	1	13' 8 3/4"	0, 45
I	Header	1	1' 10"	0, 0	W	Internal Joist	1	14' 8 3/4"	0, 45
J	Header	1	6' 2 1/4"	0, 0	X	Internal Joist	1	15' 7"	45, 45
K	Rim Joist	1	3' 2 1/4"	0, 0	Y	Internal Joist	1	16' 9 1/2"	45, 0
L	Header	1	11' 7 1/4"	0, 0	Z	Internal Joist	9	7' 9 1/4"	0, 0

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

LABEL	NAME	QTY	LENGTH	BEVELS	LABEL	NAME	QTY	LENGTH	BEVELS
M	Rim Joist	1	5' 11"	0, 0	a	Internal Joist	1	6' 9 1/2"	45, 0
N	Header	1	5' 9 1/4"	0, 0	b	Internal Joist	1	5' 9 1/2"	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	14	2X8X16 Treated	TREATED
Beam	6	2X10X10 Treated	TREATED
Beam	4	2X10X12 Treated	TREATED
Railing Post	2	4X4X8 Treated	TREATED
Railing Post	5	4X4X18 Treated	TREATED
Railing Section	12	AZEK 8' Premier Custom Rail Pack - Kona® - 8'	AZEK
Railing Section	12	TT/AZEK 31" Round Aluminum Baluster - Black - 31"	AZEK
Cladding	11	AZEK Arbor Collection® Rim Joist Covers/Fasica - Silver Oak® - 12'	AZEK
Decking	9	AZEK Vintage Collection® Deck Plank, Grooved - Dark Hickory® - 12'	AZEK
Decking	43	AZEK Vintage Collection® Deck Plank, Grooved - Dark Hickory® - 16'	AZEK
Decking	18	AZEK Vintage Collection® Deck Plank, Grooved - Dark Hickory® - 20'	AZEK
Header	4	2X8X10 Treated	TREATED
Header	5	2X8X12 Treated	TREATED
Post	1	4X4X8 Treated	TREATED
Post	30	4X4X10 Treated	TREATED
Beam	5	2X10X8 Treated	TREATED
Beam	2	2X10X16 Treated	TREATED
Riser	7	AZEK Arbor Collection® Rim Joist Covers/Fasica - Silver Oak® - 12'	AZEK
Stringer	22	2X8X8 Treated	TREATED
Railing Section	4	TT/AZEK 31" Round Aluminum Stair Baluster - Black - 31"	AZEK
Internal Joist	5	2X8X18 Treated	TREATED
Railing Section	3	AZEK 6' Premier Custom Rail Pack - Kona® - 6'	AZEK
Beam	1	2X10X18 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
2	1LB. 16D Galvanized Common Nail
14	2x6-8" Triple Zinc Right Skewed Joist Hanger SKH26R-TZ
5	2x6-8" Triple Zinc Left Skewed Joist Hanger SKH26L-TZ
3	1 LB. 10D X1 1/2" Nail
47	2x8-10" Triple Zinc Joist Hanger JUS28-TZ
7	5" Triple Zinc Angle Clip MP5-TZ
4	1LB. 8D Galvanized Common Nail
2	1 LB. 1-1/2" Joist Hanger Nail
82	Triple Zinc Rafter Tie RT7-TZ
32	Anchor Bolt AB128
32	4X4 Triple Zinc Deck Post Anchor PA44E-TZ
51	80 L.B. Basic Concrete Mix
1	40 LB. Basic Concrete Mix
24	8" X 48" Concrete Form Tube
512	1/2 Galvanized Flat Washer
11	1/2 Galvanized Hex Nut
256	1/2 X 8" Galvanized Carriage Bolt
14	7" Triple Zinc Angle Clip AC7-TZ
58	4X4 Triple Zinc Deck Post Tie SDPT7-TZ
1	1 LB. 8X3" Philips Head Stainless Deck Screws
29	AZEK 5 1/2" Post Skirt - Kona®
116	3/8 Galvanized Hex Nut
232	3/8 Galvanized Flat Washer
116	3/8 X 8" Galvanized Carriage Bolt
29	AZEK 5 1/2" Pyramid Cap - Kona®
29	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.
5	TT/AZEK 100' wire 16/2
25	TT/AZEK LED Accent Light - Architectural Bronze
1	TT/AZEK Transformer - 12 Volt 150 W
19	TT/AZEK LED In Deck Light (8 Packs of 4 per Unit) - Architectural Bronze
34	TT/AZEK LED Riser Light - Architectural Bronze
1	AZEK Cortex - 100 LF Vintage Collection® - Dark Hickory
5	TimberTech CONCEALoc Hidden Fastener - Unit = 8 retail cartons @ 100 sq.ft. coverage each (175 CONCEALoc fasteners, 184 Screws and drive bit) - Brown
32	1/2 X 6" Galvanized Lag Screw
4	7" Triple Zinc Angle Clip AC7-TZ

Qty	Description
2	THR128-HDG Threaded Rod
4	DTB-TZ Deck Tie Bracket
2	10 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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