

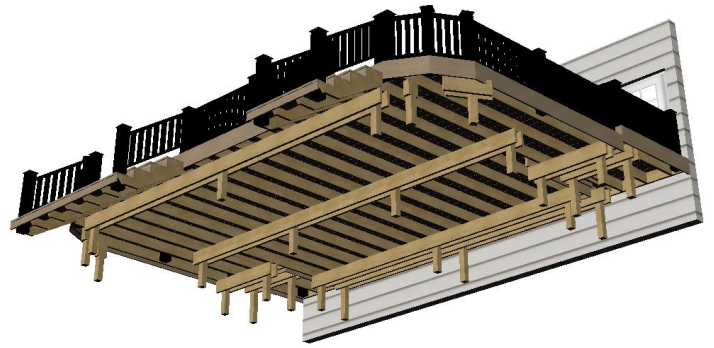


Deck Designer Specification Kit For
AZEK

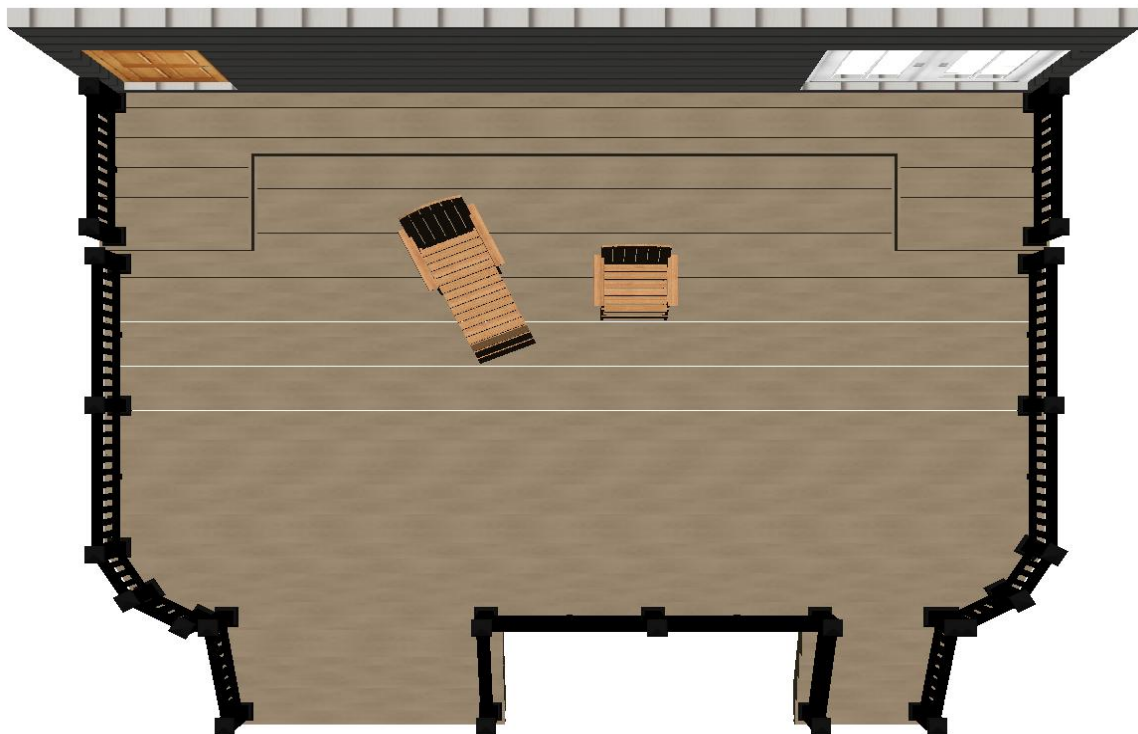
Deck layout diagram



Top view without planks

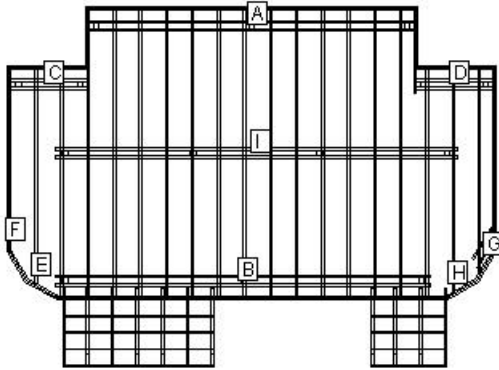


Bottom view with planks



Top view with planks

Permit Page: Level 1



LOAD AND SUPPORT:

Your deck will support a 46 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.

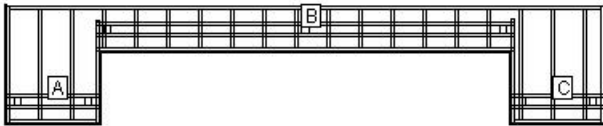
Joists:

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

Stress Analysis: Level 1

Joist Deflection	158
Joist Bending	56
Joist Shear	96
Joist Compression	96
Beam Deflection	240
Beam Bending	87
Beam Shear	82
Post Stability	151

Permit Page: Level 2



LOAD AND SUPPORT:

Your deck will support a 208 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.

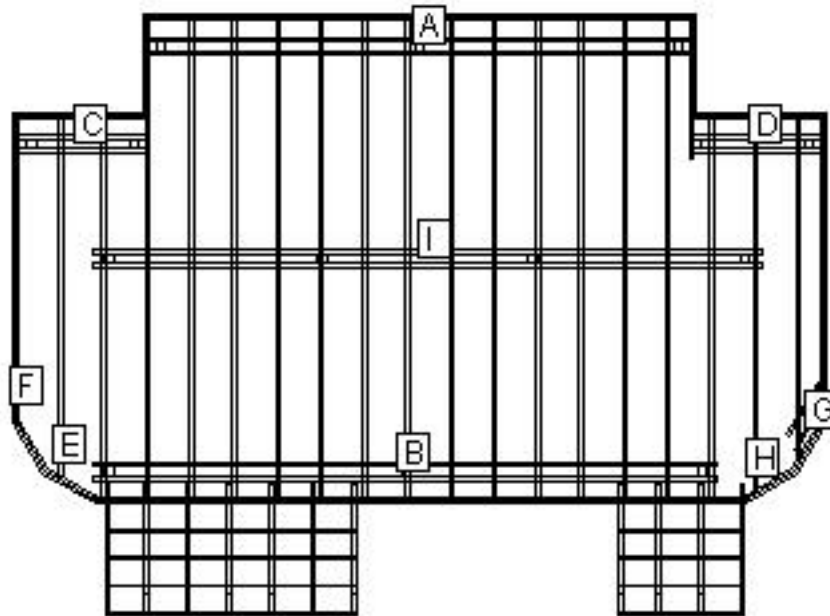
Joists:

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

Stress Analysis: Level 2

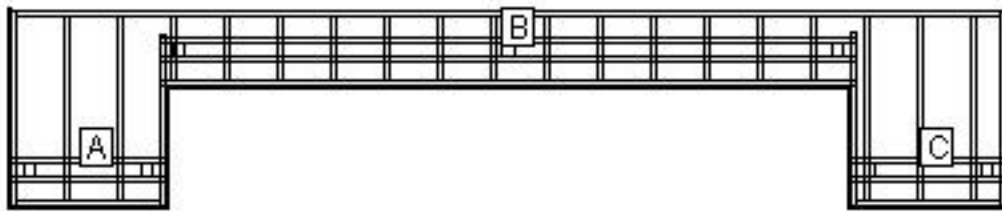
Joist Deflection	5950
Joist Bending	469
Joist Shear	309
Joist Compression	309
Beam Deflection	797
Beam Bending	238
Beam Shear	218
Post Stability	429

Beam Layout Level 1



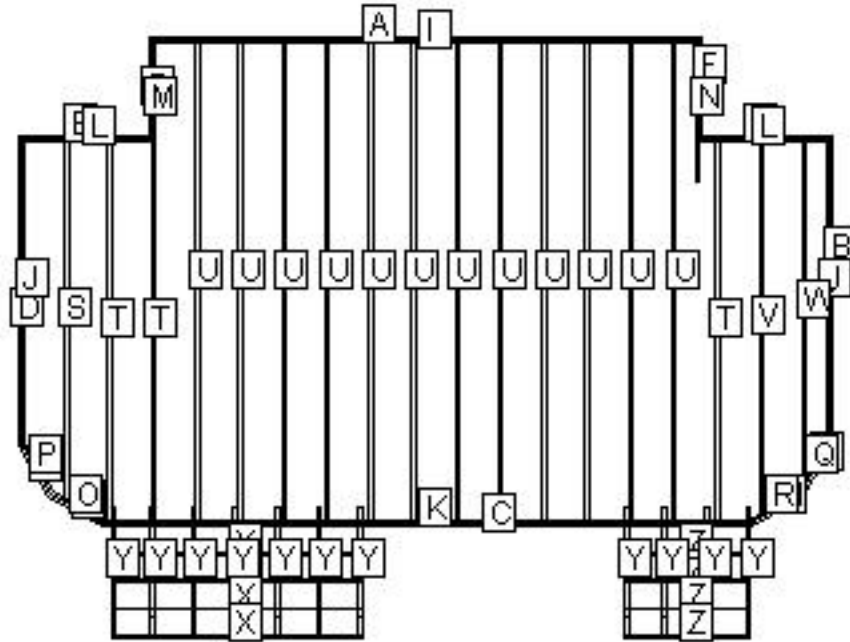
BEAM LABEL	BEAM LENGTH	POST COUNT	POST SPACING
A	16' 10 1/4"	3	7' 11 1/2"
B	19' 2"	3	9' 1 1/4"
C	4' 1 1/2"	2	3' 2"
D	4' 1 1/2"	2	3' 2"
E	3 1/2"	1	0
F	3 1/2"	1	0
G	1' 11 3/4"	1	0
H	3 1/2"	1	0
I	20' 6"	4	6' 6 1/4"

Beam Layout Level 2



BEAM LABEL	BEAM LENGTH	POST COUNT	POST SPACING
A	3' 10 1/4"	2	2' 10 3/4"
B	17' 4 3/4"	3	8' 2 3/4"
C	3' 10 1/4"	2	2' 10 3/4"

Materials Cut List: Level 1



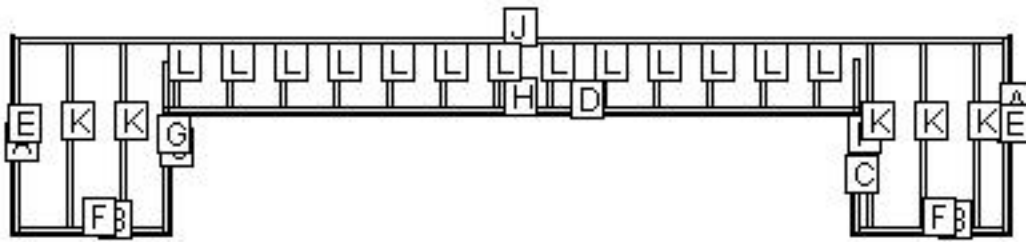
LABEL	NAME	QTY	LENGTH	BEVELS	LABEL	NAME	QTY	LENGTH	BEVELS
A	Cladding	1	17'	45, 45	N	Rim Joist	1	4' 3 3/4"	0, 0
B	Cladding	1	9' 6"	15, 45	O	Header	1	1' 9 1/2"	0, 0
C	Cladding	1	20'	15, 15	P	Header	1	1' 9 1/2"	0, 0
D	Cladding	1	9' 6"	45, 15	Q	Header	1	1' 9 1/2"	0, 0
E	Cladding	1	4' 1"	45, 45	R	Header	1	1' 9 1/2"	0, 0
F	Cladding	2	3' 1"	45, 45	S	Internal Joist	1	11' 1/4"	0, 30
G	Cladding	1	4' 1"	45, 45	T	Internal Joist	3	11' 7 1/4"	0, 0
H	Cladding	4	1' 10"	15, 15	U	Internal Joist	12	14' 7 1/4"	0, 0
I	Header	1	16' 7 1/4"	0, 0	V	Internal Joist	1	11' 5 1/4"	0, 30
J	Rim Joist	2	9' 5"	0, 0	W	Internal Joist	1	10' 6"	0, 60
K	Header	1	19' 11 1/2"	0, 0	X	Riser	4	7' 8 1/2"	0, 0
L	Header	2	4'	0, 0	Y	Pre Cut Stringer	11	4' 2"	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	4' 2 3/4"	0, 0	Z Riser	4	3' 10 1/2"	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	2	5'	45, 45	G	Rim Joist	1	4' 2 3/4"	0, 0
B	Cladding	2	4'	45, 45	H	Header	1	17' 4 3/4"	0, 0
C	Cladding	2	3' 1"	45, 45	I	Rim Joist	1	4' 3 3/4"	0, 0
D	Cladding	1	17' 2"	45, 45	J	Header	1	24' 7 1/4"	0, 0
E	Rim Joist	2	4' 10 1/4"	0, 0	K	Internal Joist	5	4' 7 1/4"	0, 0
F	Header	2	3' 7 1/4"	0, 0	L	Internal Joist	13	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	6	2X8X12 Treated	TREATED
Internal Joist	12	2X8X16 Treated	TREATED
Beam	5	2X10X18 Treated	TREATED
Beam	4	2X10X10 Treated	TREATED
Beam	3	2X10X8 Treated	TREATED
Beam	2	2X10X14 Treated	TREATED
Pre Cut Stringer	11	4-Step Treated Stair Stringer	TREATED
Railing Post	2	4X4X14 Treated	TREATED
Railing Post	3	4X4X18 Treated	TREATED
Railing Section	9	AZEK 6' Premier Rail Pack - Black - 6'	AZEK
Railing Section	2	AZEK 8' Premier Rail Pack - Black - 8'	AZEK
Railing Section	11	TT/AZEK 31" Square Composite Baluster - Black - 31"	AZEK
Cladding	11	AZEK Harvest Collection® Rim Joist Covers/Fasica - Brownstone - 12'	AZEK
Decking	21	AZEK Harvest Collection® Deck Plank, Square Shouldered - Brownstone - 12'	AZEK
Decking	45	AZEK Harvest Collection® Deck Plank, Square Shouldered - Brownstone - 16'	AZEK
Decking	6	AZEK Harvest Collection® Deck Plank, Square Shouldered - Brownstone - 20'	AZEK
Header	8	2X8X18 Treated	TREATED
Rim Joist	2	2X8X10 Treated	TREATED
Post	10	4X4X8 Treated	TREATED
Riser	4	AZEK Harvest Collection® Rim Joist Covers/Fasica - Brownstone - 12'	AZEK
Rim Joist	1	2X8X8 Treated	TREATED
Header	2	2X8X14 Treated	TREATED
Beam	1	2X10X16 Treated	TREATED

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

Other Materials

Qty	Description
4	1 LB. 10D X1 1/2" Nail
1	5 LB. 10D Hot-Dip Galvanized Nail
4	1 LB. 10D Hot-Dip Galvanized Nail
69	2x8-10" Triple Zinc Joist Hanger JUS28-TZ
6	5" Triple Zinc Angle Clip MP5-TZ
10	7" Triple Zinc Angle Clip AC7-TZ
2	5" Triple Zinc Angle Clip MP5-TZ
4	1LB. 8D Galvanized Common Nail
3	1 LB. 1-1/2" Joist Hanger Nail
84	Triple Zinc Rafter Tie RT7-TZ
25	Anchor Bolt AB128
25	4X4 Triple Zinc Deck Post Anchor PA44E-TZ
40	80 L.B. Basic Concrete Mix
4	10 LB. Basic Concrete Mix
19	8" X 48" Concrete Form Tube
400	1/2 Galvanized Flat Washer
8	1/2 Galvanized Hex Nut
200	1/2 X 8" Galvanized Carriage Bolt
11	7" Triple Zinc Angle Clip AC7-TZ
46	4X4 Triple Zinc Deck Post Tie SDPT7-TZ
1	1 LB. 8X3" Philips Head Stainless Deck Screws
23	AZEK 5 1/2" Post Skirt - Black
92	3/8 Galvanized Hex Nut
184	3/8 Galvanized Flat Washer
92	3/8 X 8" Galvanized Carriage Bolt
23	AZEK 5 1/2" Pyramid Cap - Black
23	AZEK 5.5" x 5.5" Post Sleeve - Black - 39"
5	AZEK Cortex - 100 LF Harvest Collection® - Brownstone
50	1/2 X 6" Galvanized Lag Screw
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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