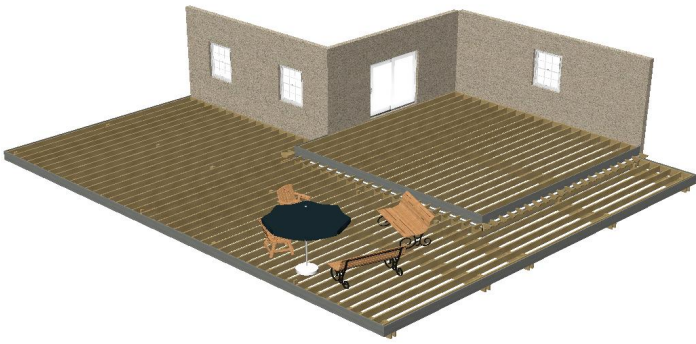




Deck Designer Specification Kit For
AZEK

Deck layout diagram



Top view without planks

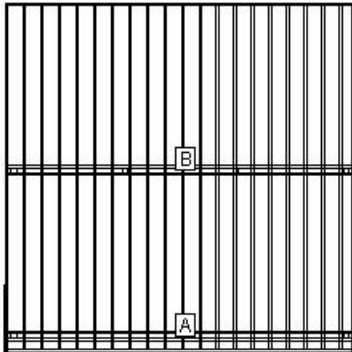


Bottom view with planks



Top view with planks

Permit Page: Level 1



LOAD AND SUPPORT:

Your deck will support a 48 PSF live load.
Posts have 36" below ground support.

DECK AND POST HEIGHT:

You selected a height of 18" from the top of the decking to the ground level. The top of the deck support posts will therefore be 9" above ground level.

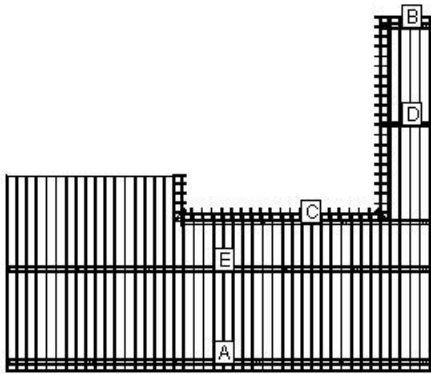
Joists:

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

Stress Analysis: Level 1

Joist Deflection	205
Joist Bending	74
Joist Shear	128
Joist Compression	128
Beam Deflection	148
Beam Bending	58
Beam Shear	60
Post Stability	109

Permit Page: Level 2



LOAD AND SUPPORT:

Your deck will support a 41 PSF live load.
Posts have 36" below ground support.

DECK AND POST HEIGHT:

You selected a height of 4" from the top of the decking to the ground level. The top of the deck support posts will therefore be -4" above ground level.

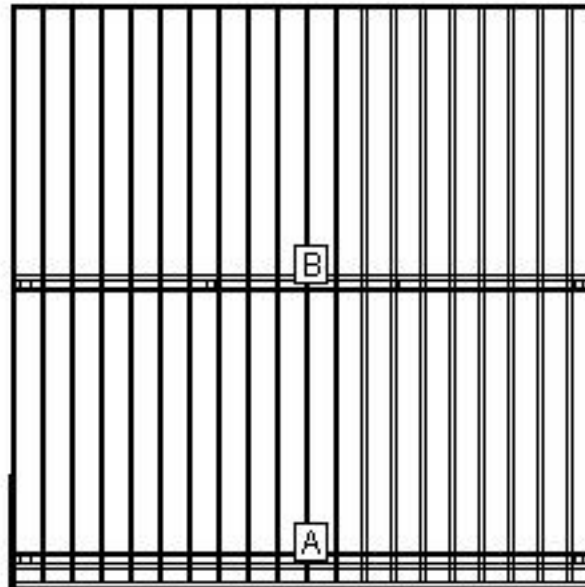
Joists:

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

Stress Analysis: Level 2

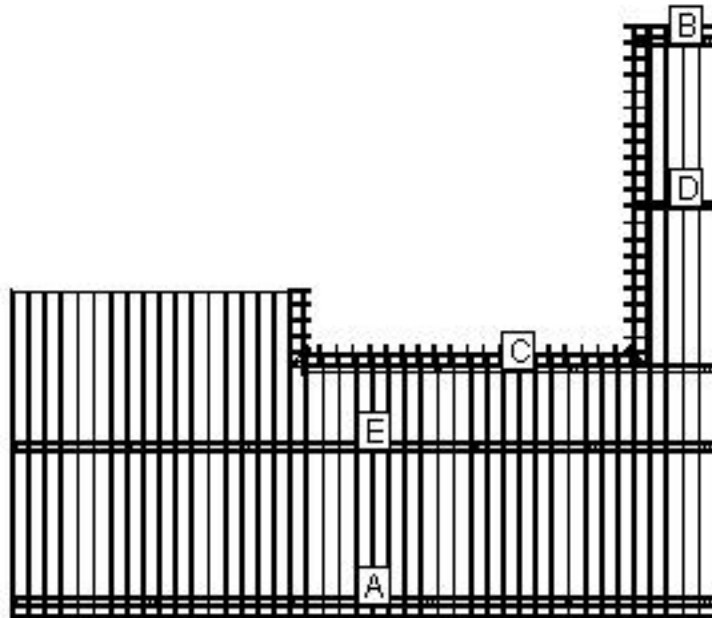
Joist Deflection	162
Joist Bending	62
Joist Shear	119
Joist Compression	119
Beam Deflection	197
Beam Bending	59
Beam Shear	51
Post Stability	97

Beam Layout Level 1



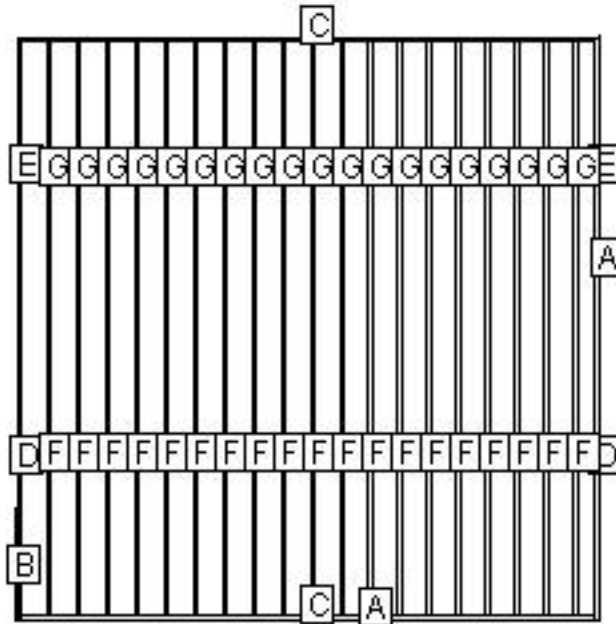
BEAM LABEL	BEAM LENGTH	POST COUNT	POST SPACING
A	19' 10 1/4"	3	9' 5 1/2"
B	19' 10 1/4"	4	6' 3 1/2"

Beam Layout Level 2



BEAM LABEL	BEAM LENGTH	POST COUNT	POST SPACING
A	43' 4 1/4"	6	8' 5 3/4"
B	5' 4 1/4"	2	4' 4 3/4"
C	25' 7 1/2"	4	8' 2 3/4"
D	5' 4 1/4"	2	4' 4 3/4"
E	43' 4 1/4"	7	7' 1"

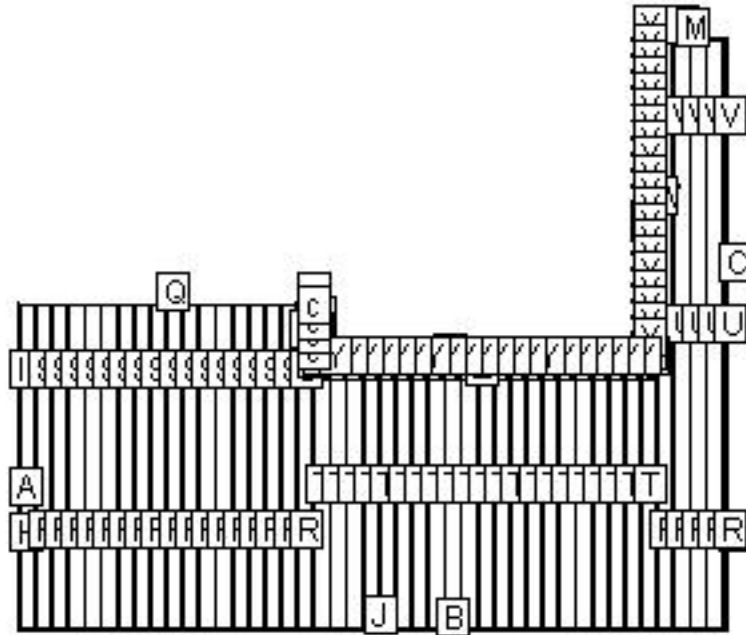
Materials Cut List: Level 1



LABEL	NAME	QTY	LENGTH	BEVELS	LABEL	NAME	QTY	LENGTH	BEVELS
A	Cladding	2	20'	45, 45	E	Rim Joist	2	9' 6"	0, 0
B	Cladding	1	3' 10"	0, 45	F	Internal Joist	19	10' 2 1/2"	0, 0
C	Header	2	19' 7 1/4"	0, 0	G	Internal Joist	19	9' 4 3/4"	0, 0
D	Rim Joist	2	10' 4 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	1	20'	45, 45	P	Rim Joist	1	5' 1 3/4"	0, 0
B	Cladding	1	43' 6"	45, 45	Q	Header	1	17' 7 1/4"	0, 0
C	Cladding	1	36' 2"	45, 45	R	Internal Joist	22	10' 2 1/2"	0, 0
D	Cladding	1	5' 6"	45, 45	S	Internal Joist	17	9' 4 3/4"	0, 0
E	Cladding	1	20' 1"	45, 45	T	Internal Joist	21	15' 9 1/4"	0, 0
F	Cladding	1	20' 2"	45, 45	U	Internal Joist	5	14' 10"	0, 0
G	Cladding	1	3' 11"	45, 45	V	Internal Joist	5	10' 8 3/4"	0, 0
H	Rim Joist	2	10' 4 1/4"	0, 0	W	Riser	1	20' 11"	45, 0
I	Rim Joist	1	9' 6"	0, 0	X	Stringer	1	1' 5"	0, 0
J	Header	1	43' 1 1/4"	0, 0	Y	Stringer	42	1' 1 1/4"	0, 0
K	Rim Joist	1	14' 10"	0, 0	Z	Riser	1	21' 10"	45, 45
L	Rim Joist	2	10' 10"	0, 0	a	Stringer	1	1' 5"	0, 0

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

LABEL	NAME	QTY	LENGTH	BEVELS	LABEL	NAME	QTY	LENGTH	BEVELS
M	Header	1	5' 1 1/4"	0, 0	b	Riser	1	4' 9"	0, 45
N	Rim Joist	1	10' 4 3/4"	0, 0	c	Stringer	5	1' 1 1/4"	0, 0
O	Header	1	20' 4 3/4"	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	39	2X8X10 Treated	TREATED
Rim Joist	53	2X8X12 Treated	TREATED
Beam	8	2X10X10 Treated	TREATED
Beam	3	2X10X8 Treated	TREATED
Beam	2	2X10X14 Treated	TREATED
Cladding	18	AZEK XLM® Natural Fascia Board - RiverRock - 12'	AZEK
Decking	146	AZEK XLM® Deck Plank, Square Shouldered - RiverRock - 20'	AZEK
Header	4	2X8X8 Treated	TREATED
Header	11	2X8X18 Treated	TREATED
Post	3	4X4X8 Treated	TREATED
Internal Joist	28	2X8X16 Treated	TREATED
Beam	7	2X10X18 Treated	TREATED
Beam	6	2X10X16 Treated	TREATED
Gusset	1	2X8X14 Treated	TREATED
Riser	5	AZEK XLM® Natural Fascia Board - RiverRock - 12'	AZEK

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

Other Materials

Qty	Description
3	1 LB. 10D X1 1/2" Nail
3	1 LB. 10D Hot-Dip Galvanized Nail
124	2x8-10" Triple Zinc Joist Hanger JUS28-TZ
10	7" Triple Zinc Angle Clip AC7-TZ
4	THR128-HDG Threaded Rod
8	DTB-TZ Deck Tie Bracket
3	1LB. 8D Galvanized Common Nail
6	1 LB. 1-1/2" Joist Hanger Nail
175	Triple Zinc Rafter Tie RT7-TZ
28	Anchor Bolt AB128
28	4X4 Triple Zinc Deck Post Anchor PA44E-TZ
44	80 L.B. Basic Concrete Mix
4	10 LB. Basic Concrete Mix
21	8" X 48" Concrete Form Tube
448	1/2 Galvanized Flat Washer
9	1/2 Galvanized Hex Nut
224	1/2 X 8" Galvanized Carriage Bolt
52	2 Pieces of Joist Material Nailed to Each Joist Splice
12	AZEK Cortex - 100 LF XLM® RiverRock - RiverRock
110	1/2 X 6" Galvanized Lag Screw
1	5 LB. 10D X1 1/2" Nail
2	5 LB. 10D Hot-Dip Galvanized Nail
1	5 LB. 8D Galvanized Nail
1	5 LB. 1-1/2" Joist Hanger Nail
1	60 L.B. Basic Concrete Mix
49	7" Triple Zinc Angle Clip AC7-TZ

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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