

Deck Designer Specification Kit For
TimberTech

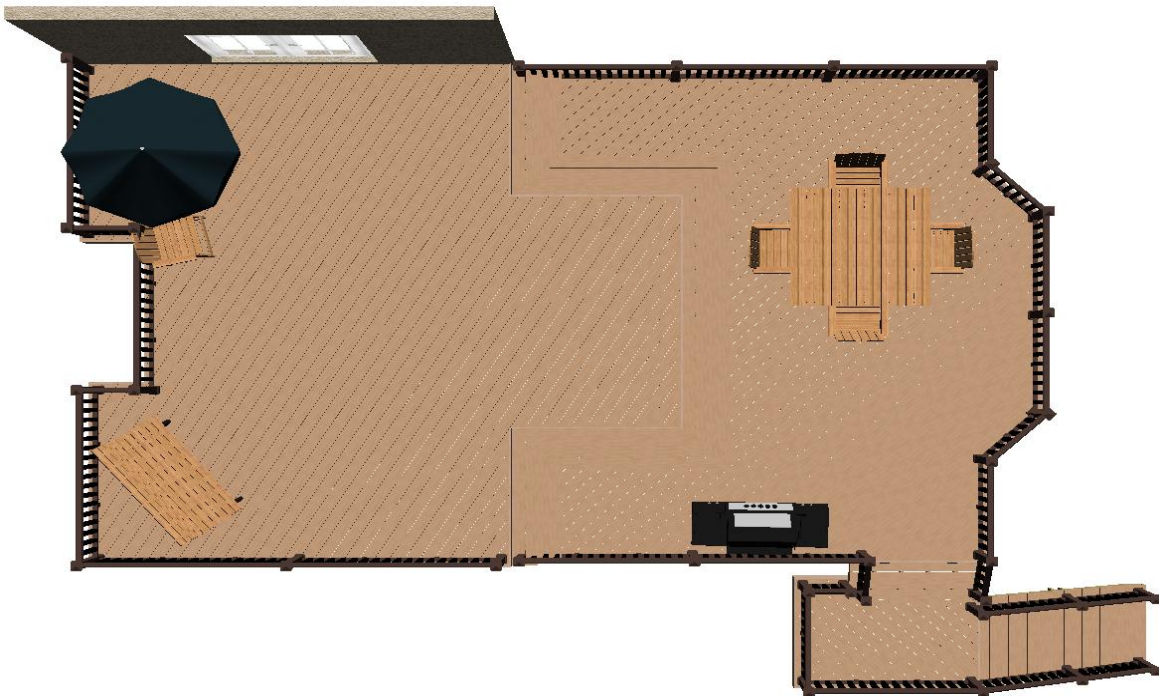
Deck layout diagram



Top view without planks

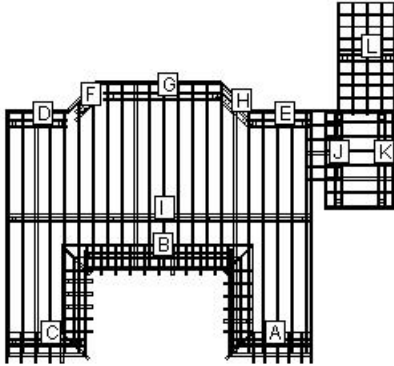


Bottom view with planks



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 96" from the top of the decking to the ground level. The top of the deck support posts will therefore be 87" above ground level.

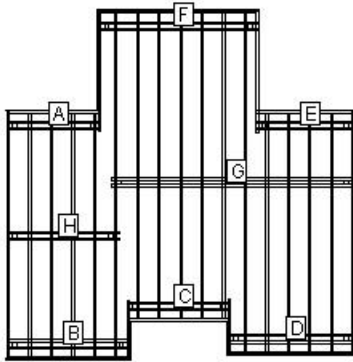
Joists:

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

Stress Analysis: Level 1

Joist Deflection	18651
Joist Bending	973
Joist Shear	579
Joist Compression	579
Beam Deflection	240
Beam Bending	77
Beam Shear	61
Post Stability	115

Permit Page: Level 2



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 117" from the top of the decking to the ground level. The top of the deck support posts will therefore be 108" above ground level.

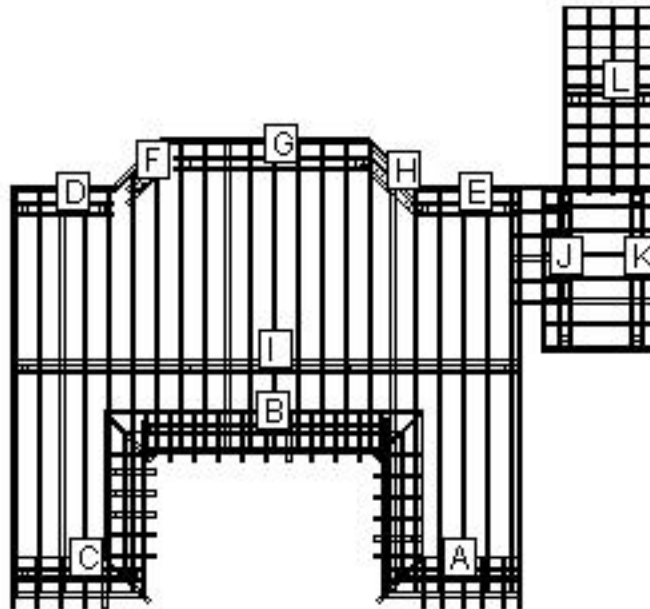
Joists:

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

Stress Analysis: Level 2

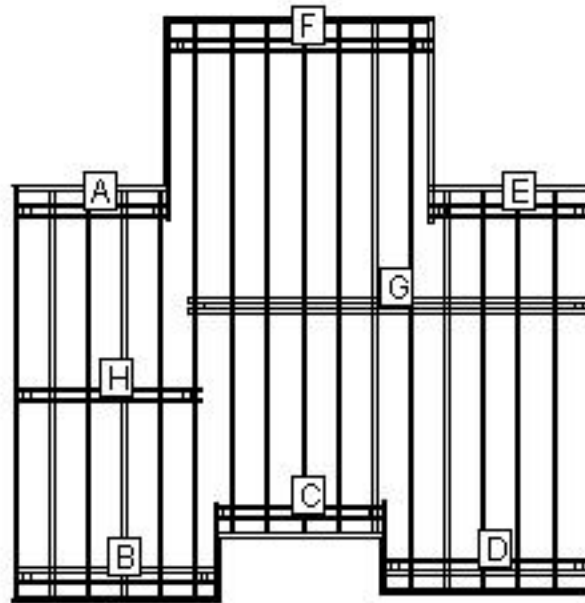
Joist Deflection	139
Joist Bending	51
Joist Shear	93
Joist Compression	93
Beam Deflection	189
Beam Bending	61
Beam Shear	50
Post Stability	94

Beam Layout Level 1



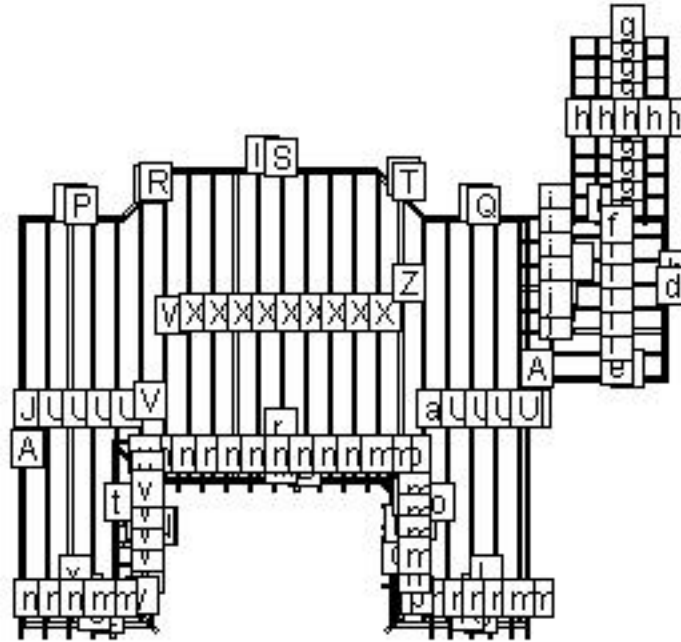
BEAM LABEL	BEAM LENGTH	POST COUNT	POST SPACING
A	5' 9 1/4"	2	4' 9 3/4"
B	10' 4 3/4"	2	9' 5 1/4"
C	5' 6 1/4"	2	4' 6 3/4"
D	4' 3"	2	3' 3 1/2"
E	4' 6"	2	3' 6 1/2"
F	2'	2	9"
G	8' 4"	2	7' 4 1/2"
H	3' 1"	2	1' 10"
I	21' 5 1/4"	4	6' 10"
J	6' 10 1/4"	2	5' 10 3/4"
K	6' 10 1/4"	2	5' 10 3/4"
L	4' 1/4"	2	3' 3/4"

Beam Layout Level 2



BEAM LABEL	BEAM LENGTH	POST COUNT	POST SPACING
A	5' 9 1/2"	2	4' 10"
B	7' 6 1/4"	2	6' 6 3/4"
C	6' 4 3/4"	2	5' 5 1/4"
D	7' 9 1/4"	2	6' 9 3/4"
E	6' 1/2"	2	5' 1"
F	9' 10 1/4"	2	8' 10 3/4"
G	15' 1/4"	3	7' 1/4"
H	6' 11"	2	5' 11 1/2"

Materials Cut List: Level 1



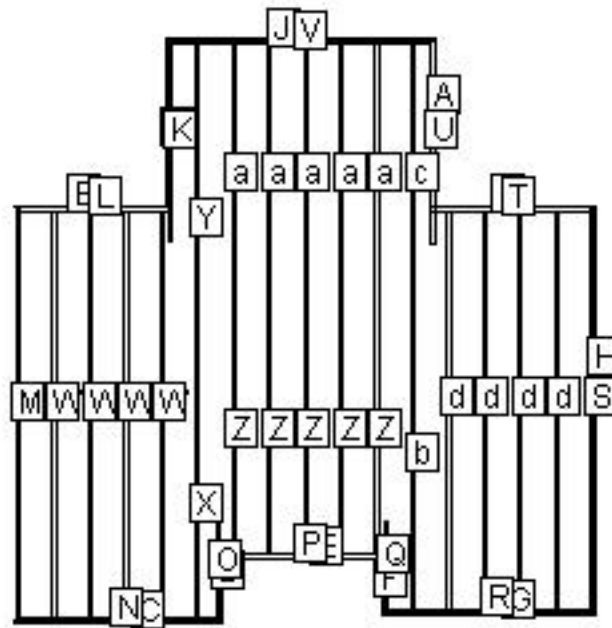
LABEL	NAME	QTY	LENGTH	BEVELS	LABEL	NAME	QTY	LENGTH	BEVELS
A	Cladding	2	17' 5"	45, 45	a	Internal Joist	1	17' 1/2"	0, 0
B	Cladding	1	5' 11"	45, 45	b	Cladding	2	7'	45, 45
C	Cladding	2	6' 3"	45, 45	c	Cladding	2	5'	45, 45
D	Cladding	1	10' 2"	45, 45	d	Header	2	6' 7 1/4"	0, 0
E	Cladding	1	5' 8"	45, 45	e	Rim Joist	2	4' 10 1/4"	0, 0
F	Cladding	1	4' 4 1/4"	23, 45	f	Internal Joist	6	4' 7 1/4"	0, 0
G	Cladding	1	4' 5 1/4"	45, 23	g	Riser	9	4' 1/4"	0, 0
H	Cladding	2	2' 10 1/4"	23, 23	h	Stringer	5	9' 4 1/2"	0, 0
I	Cladding	1	8' 10"	23, 23	i	Riser	2	5'	0, 0
J	Rim Joist	2	17' 3 1/4"	0, 0	j	Stringer	6	2' 3 1/2"	0, 0
K	Header	1	5' 6 1/4"	0, 0	k	Riser	1	5' 1"	0, 45
L	Rim Joist	1	7' 5 3/4"	0, 0	l	Riser	1	4' 3"	0, 45

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

LABEL	NAME	QTY	LENGTH	BEVELS	LABEL	NAME	QTY	LENGTH	BEVELS
M	Header	1	10' 4 3/4"	0, 0	m	Stringer	28	2' 1"	0, 0
N	Rim Joist	1	7' 4 3/4"	0, 0	n	Riser	1	6' 3"	45, 45
O	Header	1	5' 3 1/4"	0, 0	o	Riser	1	6' 3"	45, 45
P	Header	1	4' 2"	0, 0	p	Stringer	2	2' 8"	0, 0
Q	Header	1	4' 3"	0, 0	q	Riser	1	11' 10"	45, 45
R	Header	1	2' 10"	0, 0	r	Riser	1	13' 6"	45, 45
S	Header	1	8' 9 1/4"	0, 0	s	Riser	1	6' 3"	45, 45
T	Header	1	2' 10"	0, 0	t	Riser	1	6' 3"	45, 45
U	Internal Joist	8	17' 1/4"	0, 0	u	Stringer	1	2' 8"	0, 0
V	Internal Joist	1	17' 9 3/4"	45, 0	v	Stringer	6	2' 1"	0, 0
W	Internal Joist	1	12' 7 3/4"	45, 0	w	Riser	1	4' 10"	45, 0
X	Internal Joist	9	12' 10 1/4"	0, 0	x	Riser	1	4'	45, 0
Y	Internal Joist	1	9' 6 1/2"	45, 0	y	Stringer	1	2' 8"	0, 0
Z	Internal Joist	1	8' 6"	45, 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	6' 3"	45, 45	P	Header	1	6' 4 3/4"	0, 0
B	Cladding	1	5' 9"	45, 45	Q	Rim Joist	1	3' 3 3/4"	0, 0
C	Cladding	1	7' 8"	45, 45	R	Header	1	7' 6 1/4"	0, 0
D	Cladding	1	2' 5"	45, 45	S	Rim Joist	1	15' 1/4"	0, 0
E	Cladding	1	6' 2"	45, 45	T	Header	1	5' 11"	0, 0
F	Cladding	1	2' 1"	45, 45	U	Rim Joist	1	7' 5 3/4"	0, 0
G	Cladding	1	7' 11"	45, 45	V	Header	1	9' 7 1/4"	0, 0
H	Cladding	1	15' 2"	45, 45	W	Internal Joist	4	15' 1 1/4"	0, 0
I	Cladding	1	6'	45, 45	X	Internal Joist	1	7' 5 1/2"	0, 0
J	Cladding	1	10'	45, 45	Y	Internal Joist	1	13' 9 3/4"	0, 0
K	Rim Joist	1	7' 4 3/4"	0, 0	Z	Internal Joist	5	8' 5 1/2"	0, 0
L	Header	1	5' 8"	0, 0	a	Internal Joist	5	10' 5 3/4"	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	15' 4 1/4"	0, 0	b	Internal Joist	1	10' 6 1/2"	0, 0
N	Header	1	7' 3 1/4"	0, 0	c	Internal Joist	1	10' 4 3/4"	0, 0
O	Rim Joist	1	3' 6 3/4"	0, 0	d	Internal Joist	4	14' 9 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	24	2X8X18 Treated	TREATED
Internal Joist	15	2X8X14 Treated	TREATED
Internal Joist	7	2X8X10 Treated	TREATED
Beam	3	2X10X12 Treated	TREATED
Beam	5	2X10X10 Treated	TREATED
Beam	16	2X10X8 Treated	TREATED
Beam	5	2X10X16 Treated	TREATED
Railing Post	6	4X4X18 Treated	TREATED
Railing Section	5	TimberTech 6' RadianceRail Rail Pack - Kona® - 6'	TIMBERTECH
Railing Section	13	TimberTech 8' RadianceRail Rail Pack - Kona® - 8'	TIMBERTECH
Railing Section	18	TT/AZEK 31" Square Composite Baluster - Black - 31"	TIMBERTECH
Cladding	18	TimberTech TwinFascia Board - Cedar - 12'	TIMBERTECH
Decking	3	TimberTech ReliaBoard® Deck Plank, Square Shouldered - Cedar - 12'	TIMBERTECH
Decking	93	TimberTech ReliaBoard® Deck Plank, Square Shouldered - Cedar - 16'	TIMBERTECH
Decking	23	TimberTech ReliaBoard® Deck Plank, Square Shouldered - Cedar - 20'	TIMBERTECH
Header	6	2X8X8 Treated	TREATED
Header	13	2X8X16 Treated	TREATED
Beam	2	2X10X18 Treated	TREATED
Post	24	4X4X8 Treated	TREATED
Riser	12	TimberTech TwinRiser Board - Cedar - 12'	TIMBERTECH
Internal Joist	7	2X8X12 Treated	TREATED
Railing Post	1	4X4X12 Treated	TREATED
Post	17	4X4X10 Treated	TREATED

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

Other Materials

Qty	Description
1	5 LB. 10D X1 1/2" Nail
2	5 LB. 10D Hot-Dip Galvanized Nail
4	1 LB. 10D Hot-Dip Galvanized Nail
81	2x8-10" Triple Zinc Joist Hanger JUS28-TZ
1	1LB. 16D Galvanized Common Nail
2	2x6-8" Triple Zinc Left Skewed Joist Hanger SKH26L-TZ
1	2x6-8" Triple Zinc Right Skewed Joist Hanger SKH26R-TZ
18	7" Triple Zinc Angle Clip AC7-TZ
1	5 LB. 8D Galvanized Nail
5	1 LB. 1-1/2" Joist Hanger Nail
150	Triple Zinc Rafter Tie RT7-TZ
43	Anchor Bolt AB128
43	4X4 Triple Zinc Deck Post Anchor PA44E-TZ
69	80 L.B. Basic Concrete Mix
33	8" X 48" Concrete Form Tube
688	1/2 Galvanized Flat Washer
14	1/2 Galvanized Hex Nut
344	1/2 X 8" Galvanized Carriage Bolt
49	7" Triple Zinc Angle Clip AC7-TZ
66	4X4 Triple Zinc Deck Post Tie SDPT7-TZ
1	1 LB. 8X3" Philips Head Stainless Deck Screws
33	TimberTech 5" Post Skirt - Kona®
132	3/8 Galvanized Hex Nut
264	3/8 Galvanized Flat Washer
132	3/8 X 8" Galvanized Carriage Bolt
33	TimberTech 5" x 5" Post Sleeve - Kona® - 42"
33	TimberTech 5" LED Post Cap Light
33	TimberTech 5" Post Cap - Kona®
1	TT/AZEK Wire Guide - 60 Packs of 12 ea.
3	TT/AZEK 100' wire 16/2
1	TT/AZEK Decklites Dimmer
1	TT/AZEK Transformer - 12 Volt 150 W
8	2 Pieces of Joist Material Nailed to Each Joist Splice
72	TT/AZEK LED Riser Light - Architectural Bronze
4	TimberTech TOPLoc 100 Sq. Ft. Pack Cedar - Cedar
2	TimberTech TOPLoc Stainless Steel 3" - 85 Sq. Ft. Pack Cedar - Cedar
1	TimberTech TOPLoc Fascia Bit
4	TimberTech TOPLoc Fascia Pack Cedar - Cedar
32	1/2 X 6" Galvanized Lag Screw

Qty	Description
2	1 LB. 10D X1 1/2" Nail
3	1LB. 8D Galvanized Common Nail
1	40 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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