



Deck Designer Specification Kit For
TimberTech

Deck layout diagram



Top view without planks

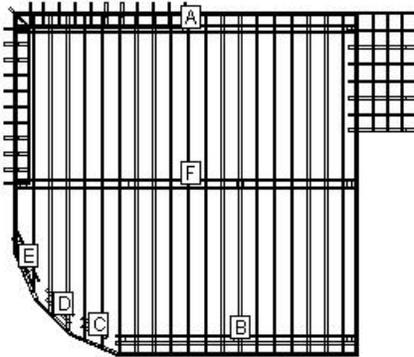


Bottom view with planks



Top view with planks

Permit Page: Level 1



LOAD AND SUPPORT:

Your deck will support a 50 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.

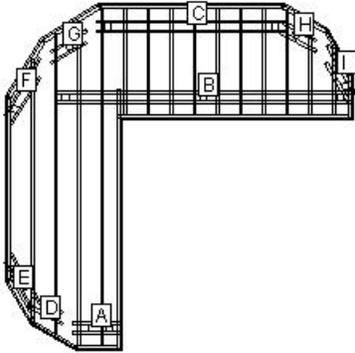
Joists:

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

Stress Analysis: Level 1

Joist Deflection	246
Joist Bending	83
Joist Shear	134
Joist Compression	134
Beam Deflection	154
Beam Bending	60
Beam Shear	62
Post Stability	113

Permit Page: Level 2



LOAD AND SUPPORT:

Your deck will support a 53 PSF live load.
Posts have 36" below ground support.

DECK AND POST HEIGHT:

You selected a height of 50" from the top of the decking to the ground level. The top of the deck support posts will therefore be 41" above ground level.

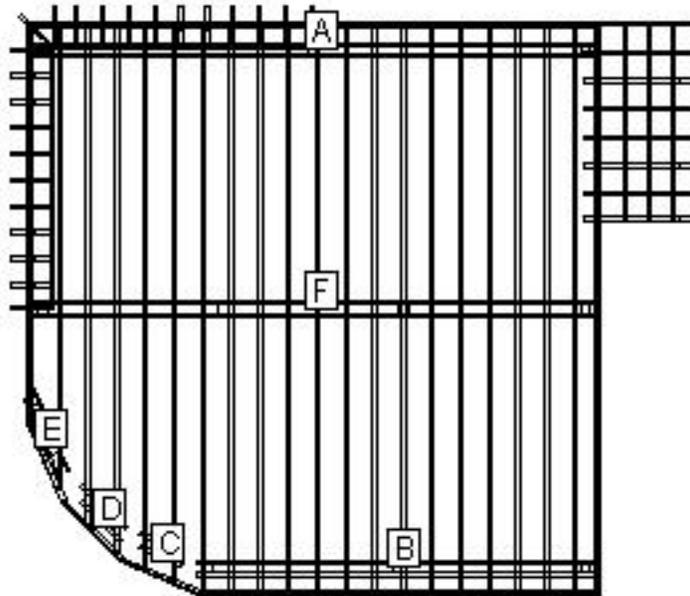
Joists:

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

Stress Analysis: Level 2

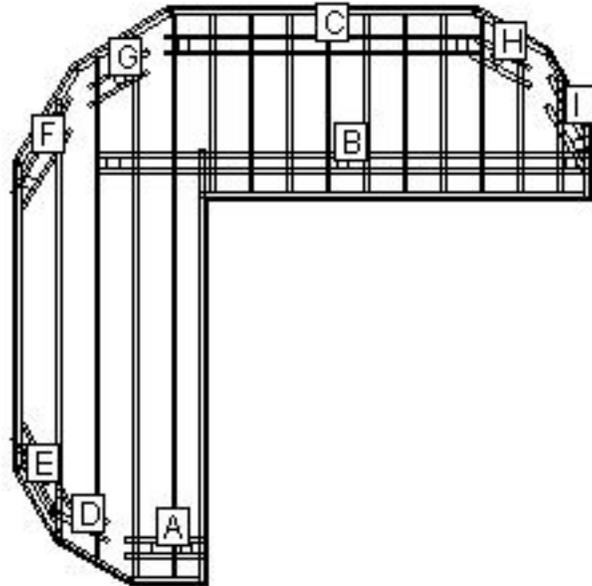
Joist Deflection	164
Joist Bending	63
Joist Shear	120
Joist Compression	120
Beam Deflection	815
Beam Bending	128
Beam Shear	93
Post Stability	166

Beam Layout Level 1



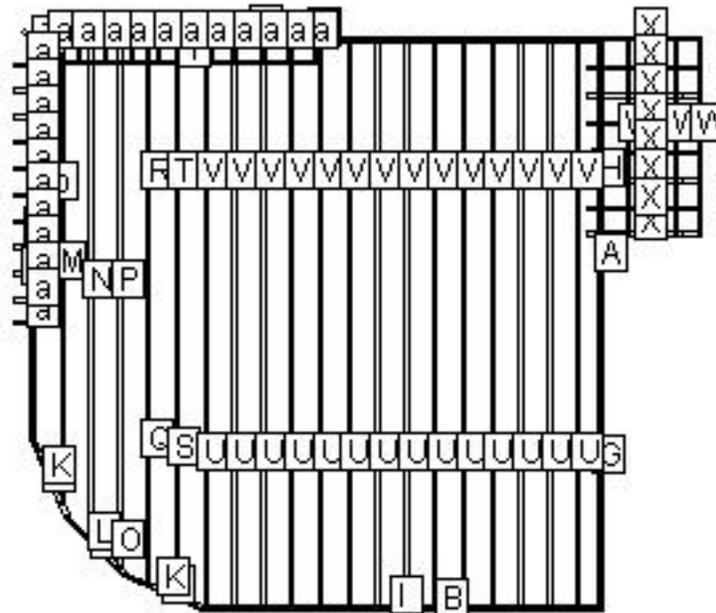
BEAM LABEL	BEAM LENGTH	POST COUNT	POST SPACING
A	19' 10 1/4"	3	9' 5 1/2"
B	14' 1/2"	3	6' 6 1/2"
C	1' 7 1/2"	1	0
D	1' 11"	1	0
E	3' 2"	2	1' 6 1/4"
F	19' 10 1/4"	4	6' 3 1/2"

Beam Layout Level 2



BEAM LABEL	BEAM LENGTH	POST COUNT	POST SPACING
A	2' 1/2"	2	1' 1"
B	12' 10 1/4"	3	5' 11 1/2"
C	8' 2 1/2"	2	7' 3"
D	1' 8"	1	0
E	2' 4 1/4"	2	10 1/2"
F	2' 11"	2	1' 5 3/4"
G	1' 9"	1	0
H	1' 7"	1	0
I	2' 4 1/4"	2	10 1/2"

Materials Cut List: Level 1



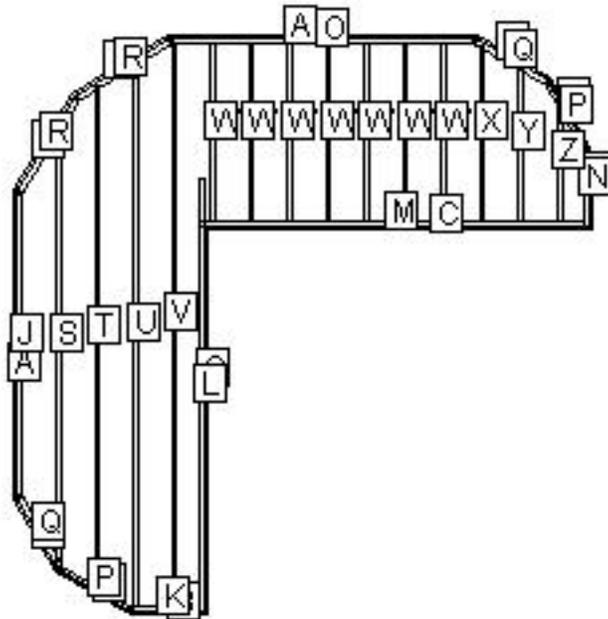
LABEL	NAME	QTY	LENGTH	BEVELS	LABEL	NAME	QTY	LENGTH	BEVELS
A	Cladding	2	20'	45, 45	O	Internal Joist	1	1'	0, 45
B	Cladding	1	14'	11, 45	P	Internal Joist	1	17' 3 1/2"	0, 45
C	Cladding	1	14'	45, 11	Q	Internal Joist	1	9' 1 1/4"	0, 23
D	Cladding	2	3'	11, 11	R	Internal Joist	1	9' 8 1/2"	0, 23
E	Cladding	1	2' 11 1/4"	11, 11	S	Internal Joist	1	9' 5 1/4"	0, 23
F	Header	1	19' 7 1/4"	0, 0	T	Internal Joist	1	9' 9 1/2"	0, 23
G	Rim Joist	1	9' 11 1/4"	0, 0	U	Internal Joist	14	9' 9 1/2"	0, 0
H	Rim Joist	1	9' 11"	0, 0	V	Internal Joist	14	9' 9 3/4"	0, 0
I	Header	1	13' 9 1/2"	0, 0	W	Riser	4	6' 11"	0, 0
J	Rim Joist	1	13' 11"	0, 0	X	Pre Cut Stringer	8	4' 2"	0, 0
K	Header	2	2' 11 1/2"	0, 0	Y	Riser	1	9' 2"	45, 0
L	Header	1	2' 11"	0, 0	Z	Pre Cut 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	Internal Joist	1	16' 1 1/2"	0, 67	a	Pre Cut Stringer	22	1' 1 1/4"	0, 0
N	Internal Joist	1	17' 3 3/4"	0, 45	b	Riser	1	9' 2"	0, 45

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	8'	15, 15	N	Rim Joist	1	1' 11"	0, 0
B	Cladding	1	2'	15, 45	O	Header	1	7' 11 1/2"	0, 0
C	Cladding	2	10' 1"	45, 45	P	Header	2	2' 2"	0, 0
D	Cladding	1	2'	45, 15	Q	Header	2	2' 2"	0, 0
E	Cladding	1	2' 2 1/2"	16, 15	R	Header	2	2' 10 1/2"	0, 0
F	Cladding	2	2' 2 1/2"	15, 16	S	Internal Joist	1	11' 4"	59, 61
G	Cladding	1	2' 11"	14, 15	T	Internal Joist	1	13'	31, 29
H	Cladding	1	2' 11"	15, 14	U	Internal Joist	1	14' 1"	31, 0
I	Cladding	1	2' 2 1/2"	16, 15	V	Internal Joist	1	14' 7 1/4"	0, 0
J	Rim Joist	1	7' 11 1/2"	0, 0	W	Internal Joist	7	4' 7 1/4"	0, 0
K	Header	1	1' 9 1/2"	0, 0	X	Internal Joist	1	4' 6 1/2"	29, 0
L	Rim Joist	1	11' 2 3/4"	0, 0	Y	Internal Joist	1	3' 11 1/2"	29, 0

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

LABEL NAME		QTY	LENGTH	BEVELS	LABEL NAME		QTY	LENGTH	BEVELS
M	Header	1	10'	0, 0	Z	Internal Joist	1	3' 1/2"	61, 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	3	2X8X14 Treated	TREATED
Internal Joist	9	2X8X18 Treated	TREATED
Internal Joist	6	2X8X8 Treated	TREATED
Internal Joist	35	2X8X10 Treated	TREATED
Beam	6	2X10X10 Treated	TREATED
Beam	2	2X10X16 Treated	TREATED
Beam	2	2X10X8 Treated	TREATED
Beam	6	2X10X14 Treated	TREATED
Pre Cut Stringer	8	4-Step Treated Stair Stringer	TREATED
Pre Cut Stringer	23	2-Step Treated Stair Stringer	TREATED
Hand Rail	8	TimberTech Evolutions Rail Contemporary Top Rail - Brick - 16'	TIMBERTECH
Railing Post	1	4X4X8 Treated	TREATED
Railing Post	5	4X4X16 Treated	TREATED
Railing Section	2	TimberTech Evolutions Rail Contemporary Rail Pack - Brick - 6'	TIMBERTECH
Railing Section	11	TimberTech Evolutions Rail Contemporary Rail Pack - Brick - 8'	TIMBERTECH
Railing Section	11	TT/AZEK 31" Round Aluminum Baluster - Black - 31"	TIMBERTECH
Cladding	13	TimberTech Earthwood Evolutions® Tropical Fascia Board - Pacific Rosewood - 12'	TIMBERTECH
Decking	21	TimberTech Earthwood Evolutions® Tropical Deck Plank, Grooved - Pacific Walnut - 16'	TIMBERTECH
Decking	42	TimberTech Earthwood Evolutions® Tropical Deck Plank, Grooved - Pacific Walnut - 20'	TIMBERTECH
Post	13	4X4X8 Treated	TREATED
Riser	6	TimberTech Earthwood Evolutions® Tropical Riser Board - Pacific Rosewood - 12'	TIMBERTECH
Stair Step	5	TimberTech Earthwood Evolutions® Tropical Deck Plank, Grooved - Pacific Walnut - 12'	TIMBERTECH
Railing Section	2	TT/AZEK 31" Round Aluminum Stair Baluster - Black - 31"	TIMBERTECH
Pre Cut Stringer	1	3-Step Treated Stair Stringer	TREATED

Lumber Materials

COMPONENT	QTY	DESCRIPTION	WOOD TYPE
Internal Joist	1	2X8X12 Treated	TREATED
Internal Joist	2	2X8X16 Treated	TREATED
Railing Post	1	4X4X12 Treated	TREATED
Beam	1	2X10X18 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
4	1 LB. 10D X1 1/2" Nail
1	5 LB. 10D Hot-Dip Galvanized Nail
5	1 LB. 10D Hot-Dip Galvanized Nail
53	2x8-10" Triple Zinc Joist Hanger JUS28-TZ
22	5" Triple Zinc Angle Clip MP5-TZ
1	1LB. 16D Galvanized Common Nail
2	2x6-8" Triple Zinc Right Skewed Joist Hanger SKH26R-TZ
5	7" Triple Zinc Angle Clip AC7-TZ
4	5" Triple Zinc Angle Clip MP5-TZ
5	1LB. 8D Galvanized Common Nail
5	1 LB. 1-1/2" Joist Hanger Nail
98	Triple Zinc Rafter Tie RT7-TZ
30	Anchor Bolt AB128
30	4X4 Triple Zinc Deck Post Anchor PA44E-TZ
47	80 L.B. Basic Concrete Mix
1	40 LB. Basic Concrete Mix
2	10 LB. Basic Concrete Mix
23	8" X 48" Concrete Form Tube
480	1/2 Galvanized Flat Washer
10	1/2 Galvanized Hex Nut
240	1/2 X 8" Galvanized Carriage Bolt
31	7" Triple Zinc Angle Clip AC7-TZ
50	4X4 Triple Zinc Deck Post Tie SDPT7-TZ
1	1 LB. 8X3" Philips Head Stainless Deck Screws
25	TimberTech Evolutions Rail 5"x5" Post Skirt - Brick
100	3/8 Galvanized Hex Nut
200	3/8 Galvanized Flat Washer
100	3/8 X 8" Galvanized Carriage Bolt
25	TimberTech Evolutions Rail 5"x5" Post Cover - Brick - 42"
18	2 Pieces of Joist Material Nailed to Each Joist Splice
1	TimberTech Cortex - 100 LF Evolutions Pacific Walnut - Pacific Walnut
1	TimberTech TOPLoc Fascia Bit
3	TimberTech TOPLoc Fascia Pack Rosewood - Pacific Rosewood
6	TimberTech CONCEALoc Hidden Fastener - Unit = 8 retail cartons @ 100 sq.ft. coverage each (175 CONCEALoc fasteners, 184 Screws and drive bit) - Brown
1	60 L.B. 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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