



Deck Designer Specification Kit For
TimberTech

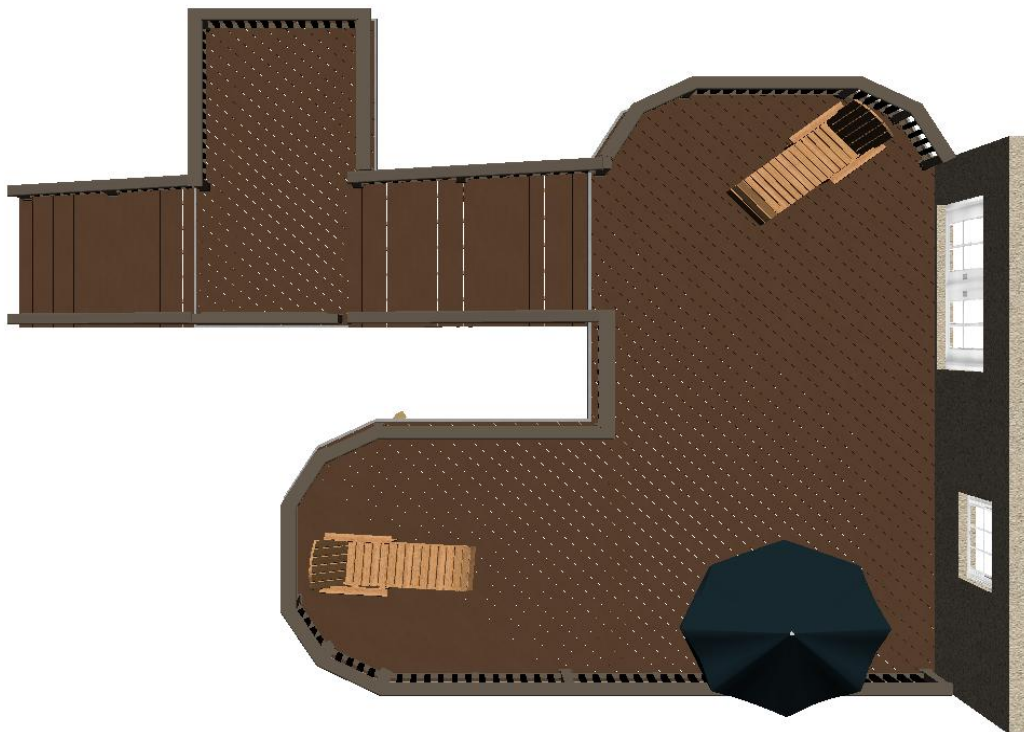
Deck layout diagram



Top view without planks

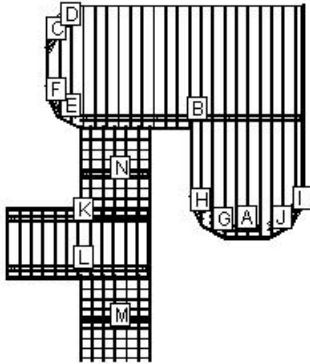


Bottom view with planks



Top view with planks

Permit Page: Level 1



LOAD AND SUPPORT:

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

DECK AND POST HEIGHT:

You selected a height of 144" from the top of the decking to the ground level. The top of the deck support posts will therefore be 135" above ground level.

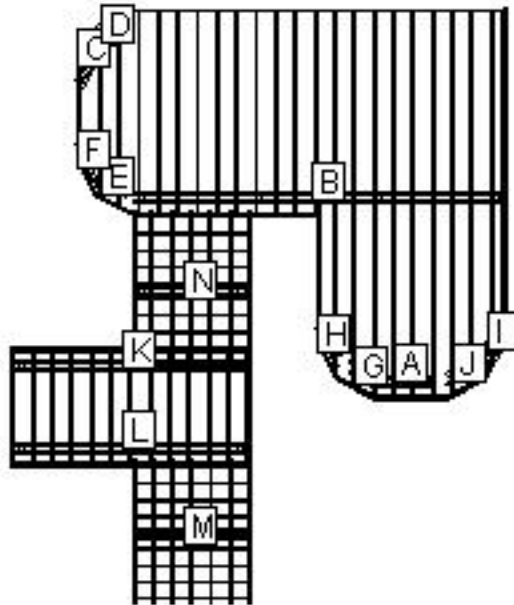
Joists:

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

Stress Analysis: Level 1

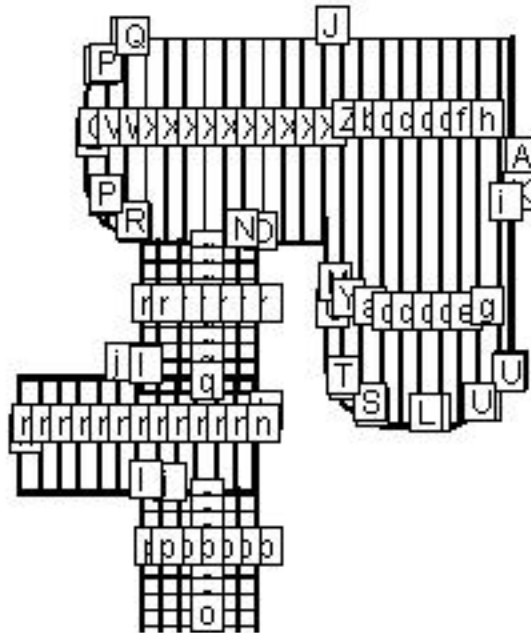
Joist Deflection	5553
Joist Bending	519
Joist Shear	362
Joist Compression	362
Beam Deflection	143
Beam Bending	78
Beam Shear	63
Post Stability	114

Beam Layout Level 1



BEAM LABEL	BEAM LENGTH	POST COUNT	POST SPACING
A	3' 4 1/4"	2	2' 4 3/4"
B	19' 1/4"	4	6' 1/4"
C	2' 3"	2	9"
D	1' 8 1/2"	1	0
E	1' 8 1/2"	1	0
F	2' 3"	2	9"
G	1' 4 1/2"	1	0
H	2' 3"	2	9"
I	2' 4"	2	10 1/4"
J	1' 8 1/4"	1	0
K	12' 1 3/4"	2	11' 2 1/4"
L	12' 1 3/4"	2	11' 2 1/4"
M	5' 11 1/4"	2	4' 11 3/4"
N	6' 1/4"	2	5' 3/4"

Materials Cut List: Level 1



LABEL	NAME	QTY	LENGTH	BEVELS	LABEL	NAME	QTY	LENGTH	BEVELS
A	Cladding	1	17'	15, 45	W	Internal Joist	1	9' 6 1/4"	29, 29
B	Cladding	1	3' 10"	14, 15	X	Internal Joist	10	10' 3 1/4"	0, 0
C	Cladding	1	6' 7"	45, 14	Y	Internal Joist	1	8' 10"	0, 61
D	Cladding	1	9' 6"	14, 45	Z	Internal Joist	1	9' 5 3/4"	0, 61
E	Cladding	1	5'	14, 14	a	Internal Joist	1	9' 7 1/2"	0, 29
F	Cladding	3	2' 1"	16, 14	b	Internal Joist	1	9' 5 1/2"	0, 29
G	Cladding	3	2' 1"	14, 16	c	Internal Joist	4	10' 1 1/2"	0, 0
H	Cladding	1	2' 2 1/2"	16, 15	d	Internal Joist	4	9' 5 3/4"	0, 0
I	Cladding	1	2' 2 1/2"	15, 16	e	Internal Joist	1	10' 1/4"	0, 29
J	Header	1	18' 10 1/2"	0, 0	f	Internal Joist	1	9' 5 3/4"	0, 29
K	Rim Joist	1	16' 11"	0, 0	g	Internal Joist	1	9' 5 1/2"	0, 29
L	Header	1	3' 9 1/2"	0, 0	h	Internal Joist	1	9' 5 1/2"	0, 29

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

LABEL	NAME	QTY	LENGTH	BEVELS	LABEL	NAME	QTY	LENGTH	BEVELS
M	Rim Joist	1	7' 10 1/2"	0, 0	i	Internal Joist	1	17' 10 3/4"	0, 61
N	Header	1	9' 7 1/4"	0, 0	j	Cladding	2	12' 3 1/2"	45, 45
O	Rim Joist	1	4' 11 1/2"	0, 0	k	Cladding	2	6' 1"	45, 45
P	Header	2	2' 1/2"	0, 0	l	Header	2	11' 10 3/4"	0, 0
Q	Header	1	2' 1/2"	0, 0	m	Rim Joist	2	5' 11 1/4"	0, 0
R	Header	1	2' 1/2"	0, 0	n	Internal Joist	12	5' 8 1/4"	0, 0
S	Header	1	2' 1/2"	0, 0	o	Riser	8	5' 11 1/4"	0, 0
T	Header	1	2' 1/2"	0, 0	p	Stringer	7	8' 9"	0, 0
U	Header	2	2' 2"	0, 0	q	Riser	9	6' 1/4"	0, 0
V	Internal Joist	1	8' 5 1/4"	0, 0	r	Stringer	7	9' 7"	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	12	2X8X10 Treated	TREATED
Internal Joist	8	2X8X12 Treated	TREATED
Internal Joist	7	2X8X18 Treated	TREATED
Beam	5	2X10X8 Treated	TREATED
Beam	6	2X10X14 Treated	TREATED
Hand Rail	8	TimberTech Evolutions Rail Contemporary Top Rail - Traditional Walnut - 16'	TIMBERTECH
Railing Post	8	4X4X16 Treated	TREATED
Railing Section	6	TimberTech Evolutions Rail Contemporary Rail Pack - Traditional Walnut - 6'	TIMBERTECH
Railing Section	11	TimberTech Evolutions Rail Contemporary Rail Pack - Traditional Walnut - 8'	TIMBERTECH
Railing Section	19	TimberTech Evolutions Rail Square Baluster 36" - Classic Black - 6'	TIMBERTECH
Cladding	9	TimberTech TwinFascia Board - Gray - 12'	TIMBERTECH
Decking	75	TimberTech Earthwood Evolutions® Terrain Collection Deck Plank, Square Shouldered - Rustic Elm - 16'	TIMBERTECH
Header	3	2X8X14 Treated	TREATED
Internal Joist	3	2X8X8 Treated	TREATED
Internal Joist	15	2X8X16 Treated	TREATED
Beam	2	2X10X18 Treated	TREATED
Post	22	4X4X12 Treated	TREATED
Riser	9	TimberTech TwinRiser Board - Gray - 12'	TIMBERTECH
Beam	1	2X10X12 Treated	TREATED

To find a TimberTech Dealer or Contractor in your area, please go to www.timbertech.com

Other Materials

Qty	Description
18	5" Triple Zinc Angle Clip MP5-TZ
2	5 LB. 10D Hot-Dip Galvanized Nail
3	1 LB. 10D X1 1/2" Nail
57	2x8-10" Triple Zinc Joist Hanger JUS28-TZ
5	7" Triple Zinc Angle Clip AC7-TZ
4	5" Triple Zinc Angle Clip MP5-TZ
2	THR128-HDG Threaded Rod
4	DTB-TZ Deck Tie Bracket
4	1LB. 8D Galvanized Common Nail
3	1 LB. 1-1/2" Joist Hanger Nail
66	Triple Zinc Rafter Tie RT7-TZ
26	Anchor Bolt AB128
26	4X4 Triple Zinc Deck Post Anchor PA44E-TZ
42	80 L.B. Basic Concrete Mix
20	8" X 48" Concrete Form Tube
416	1/2 Galvanized Flat Washer
9	1/2 Galvanized Hex Nut
208	1/2 X 8" Galvanized Carriage Bolt
14	7" Triple Zinc Angle Clip AC7-TZ
64	4X4 Triple Zinc Deck Post Tie SDPT7-TZ
1	1 LB. 8X3" Philips Head Stainless Deck Screws
32	TimberTech Evolutions Rail 5"x5" Post Skirt - Traditional Walnut
128	3/8 Galvanized Hex Nut
256	3/8 Galvanized Flat Washer
128	3/8 X 8" Galvanized Carriage Bolt
32	TimberTech Evolutions Rail 5"x5" Post Cover - Traditional Walnut - 42"
8	2 Pieces of Joist Material Nailed to Each Joist Splice
6	TimberTech Cortex - 100 LF Evolutions Rustic Elm - Rustic Elm
1	TimberTech TOPLoc Fascia Bit
2	TimberTech TOPLoc Fascia Pack Gray - Gray
40	1/2 X 6" Galvanized Lag Screw

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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