



Deck Designer Specification Kit For  
**TimberTech**

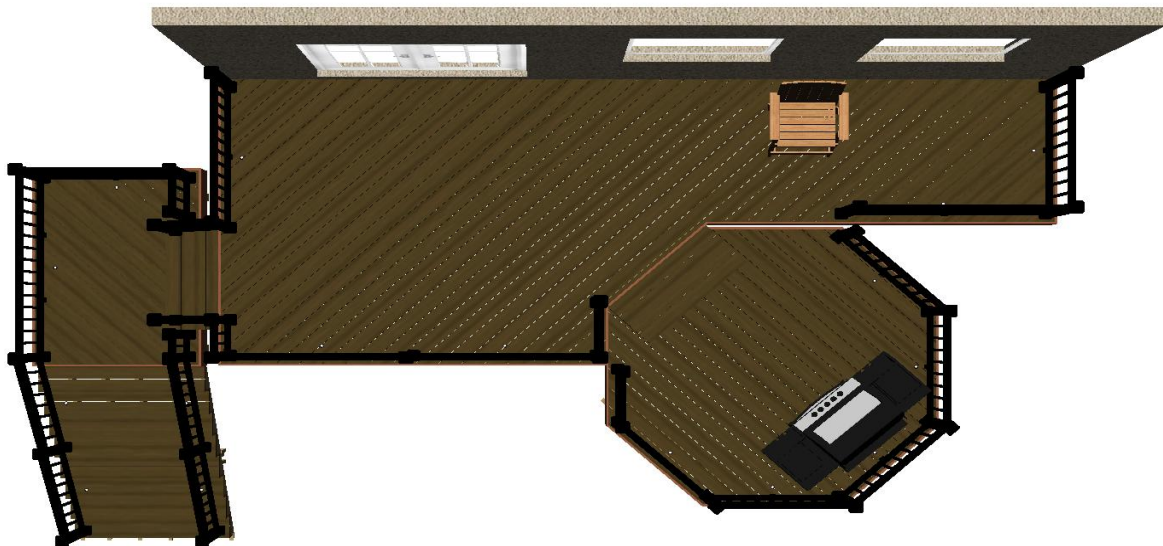
## Deck layout diagram



Top view without planks

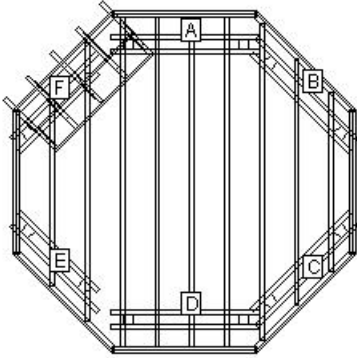


Bottom view with planks



Top view with planks

**Permit Page: Level 1**



**LOAD AND SUPPORT:**

Your deck will support a 109 PSF live load.  
Posts have 36" below ground support.

**DECK AND POST HEIGHT:**

You selected a height of 72" from the top of the decking to the ground level. The top of the deck support posts will therefore be 63" above ground level.

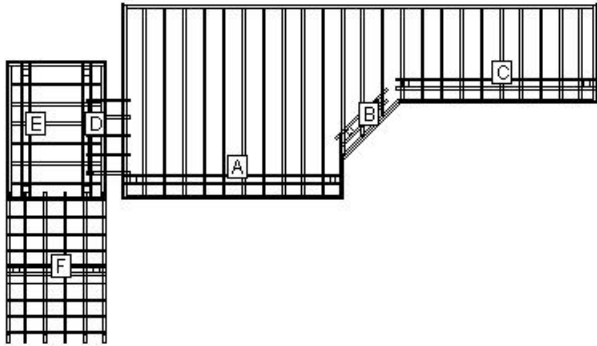
**Joists:**

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

**Stress Analysis: Level 1**

Joist Deflection	422
Joist Bending	119
Joist Shear	157
Joist Compression	157
Beam Deflection	11723
Beam Bending	579
Beam Shear	325
Post Stability	641

Permit Page: Level 2



**LOAD AND SUPPORT:**

Your deck will support a 45 PSF live load.  
Posts have 36" below ground support.

**DECK AND POST HEIGHT:**

You selected a height of 93" from the top of the decking to the ground level. The top of the deck support posts will therefore be 84" above ground level.

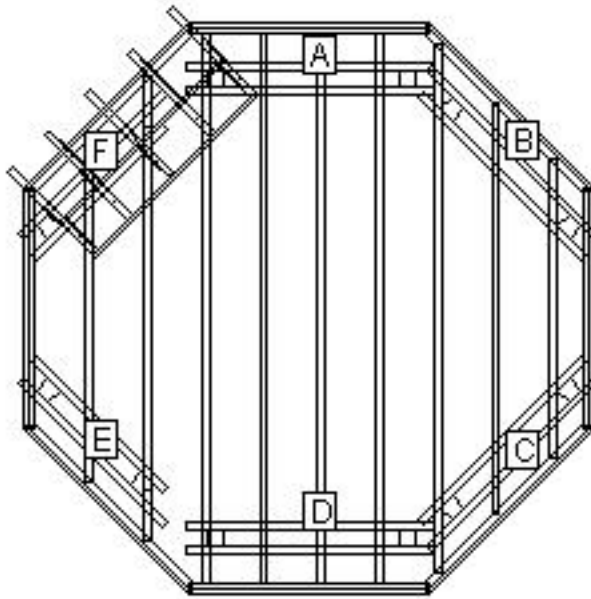
**Joists:**

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

**Stress Analysis: Level 2**

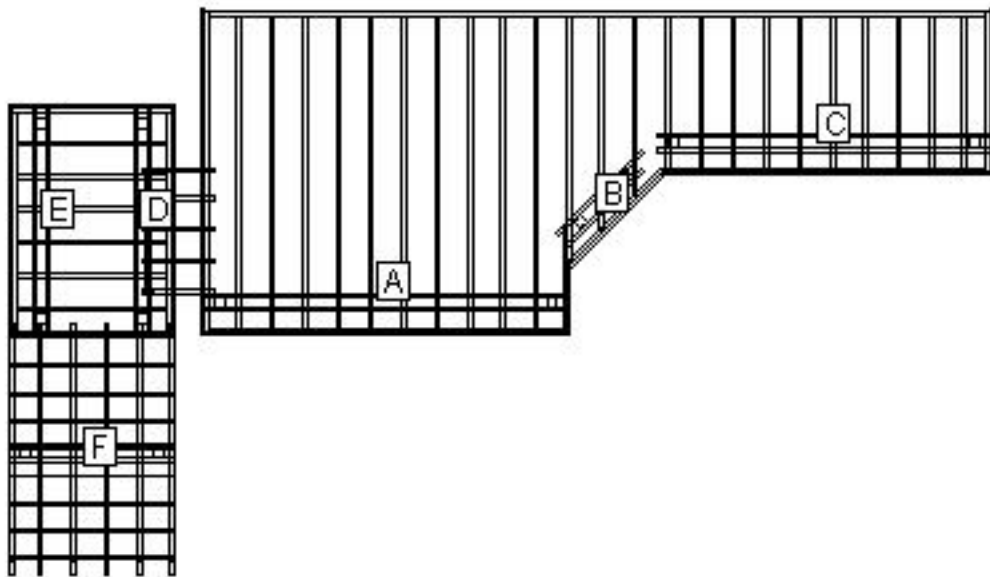
Joist Deflection	18651
Joist Bending	973
Joist Shear	579
Joist Compression	579
Beam Deflection	124
Beam Bending	55
Beam Shear	60
Post Stability	225

### Beam Layout Level 1



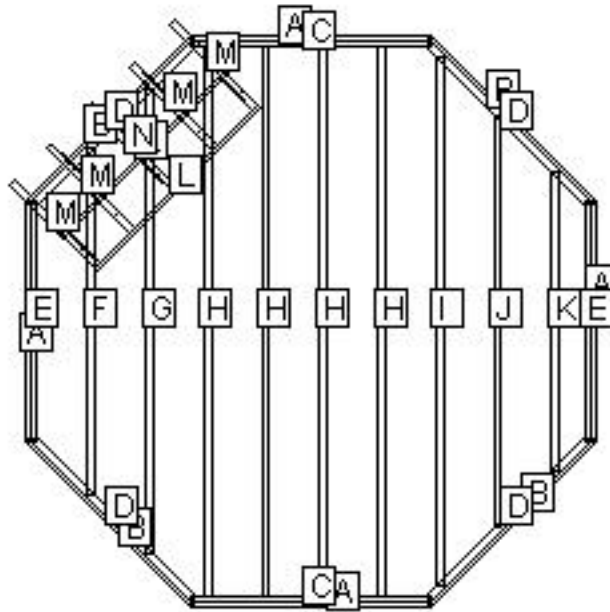
BEAM LABEL	BEAM LENGTH	POST COUNT	POST SPACING
A	4' 3 1/4"	2	3' 4"
B	4' 1 1/2"	2	2' 10 1/2"
C	4' 1 1/2"	2	2' 10 1/2"
D	4' 3 1/4"	2	3' 4"
E	3' 6 1/2"	2	2' 3 1/2"
F	3' 6 1/2"	2	2' 3 1/2"

## Beam Layout Level 2



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

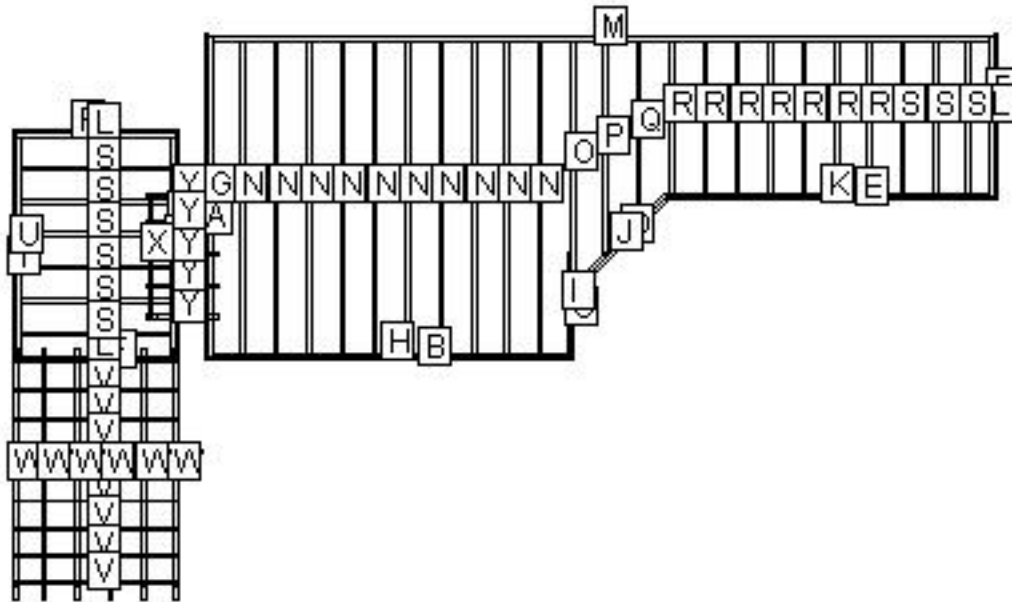
### Materials Cut List: Level 1



LABEL NAME		QTY	LENGTH	BEVELS	LABEL NAME		QTY	LENGTH	BEVELS
A	Cladding	4	4' 2"	23, 23	H	Internal Joist	4	9' 5 1/4"	0, 0
B	Cladding	4	4'	23, 23	I	Internal Joist	1	9' 1 1/2"	45, 45
C	Header	2	4' 1 1/4"	0, 0	J	Internal Joist	1	7' 1 1/2"	45, 45
D	Header	4	3' 11 1/4"	0, 0	K	Internal Joist	1	5' 1 1/2"	45, 45
E	Rim Joist	2	4' 1 1/4"	0, 0	L	Riser	2	4'	0, 0
F	Internal Joist	1	6'	45, 45	M	Stringer	4	2' 1"	0, 0
G	Internal Joist	1	8'	45, 45	N	Stringer	1	2' 1"	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	9' 10"	45, 45	N	Internal Joist	10	9' 5 1/4"	0, 0
B	Cladding	1	11' 2"	45, 45	O	Internal Joist	1	7' 5 1/2"	0, 45
C	Cladding	1	2' 1/4"	45, 23	P	Internal Joist	1	6' 5 1/2"	0, 45
D	Cladding	1	4' 1"	23, 23	Q	Internal Joist	1	5' 5 1/2"	0, 45
E	Cladding	1	10' 1/4"	23, 45	R	Internal Joist	7	4' 7 1/4"	0, 0
F	Cladding	3	5'	45, 45	S	Internal Joist	9	4' 7 1/4"	0, 0
G	Rim Joist	1	9' 8 1/4"	0, 0	T	Cladding	2	7'	45, 45
H	Header	1	10' 9 1/4"	0, 0	U	Header	2	6' 7 1/4"	0, 0
I	Rim Joist	1	3' 2 1/4"	0, 0	V	Riser	8	5'	0, 0
J	Header	1	4' 1"	0, 0	W	Stringer	6	8' 11 1/2"	0, 0
K	Header	1	9' 10"	0, 0	X	Riser	2	3' 10"	0, 0
L	Rim Joist	3	4' 10 1/4"	0, 0	Y	Stringer	5	2' 3 1/2"	0, 0

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





# DECK DESIGNER

LABEL NAME		QTY	LENGTH	BEVELS	LABEL NAME		QTY	LENGTH	BEVELS
M	Header	1	23' 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.

<b>Lumber Materials</b>			
<b>COMPONENT</b>	<b>QTY</b>	<b>DESCRIPTION</b>	<b>WOOD TYPE</b>
Internal Joist	5	2X8X10 Treated	TREATED
Railing Post	1	4X4X8 Treated	TREATED
Railing Post	5	4X4X18 Treated	TREATED
Railing Section	9	TimberTech 6' RadianceRail Custom Rail Pack - Black - 6'	TIMBERTECH
Railing Section	5	TimberTech 8' RadianceRail Custom Rail Pack - Black - 8'	TIMBERTECH
Railing Section	10	TT/AZEK 31" Round Aluminum Baluster - Black - 31"	TIMBERTECH
Cladding	10	TimberTech Earthwood Evolutions® Tropical Fascia Board - Pacific Rosewood - 12'	TIMBERTECH
Decking	9	TimberTech Earthwood Evolutions® Legacy Deck Plank, Grooved - Mocha - 12'	TIMBERTECH
Decking	46	TimberTech Earthwood Evolutions® Legacy Deck Plank, Grooved - Mocha - 16'	TIMBERTECH
Header	3	2X8X8 Treated	TREATED
Header	8	2X8X18 Treated	TREATED
Internal Joist	13	2X8X16 Treated	TREATED
Beam	1	2X10X16 Treated	TREATED
Beam	2	2X10X18 Treated	TREATED
Post	22	4X4X8 Treated	TREATED
Riser	6	TimberTech Earthwood Evolutions® Tropical Riser Board - Pacific Rosewood - 12'	TIMBERTECH
Stringer	3	2X8X12 Treated	TREATED
Beam	4	2X10X12 Treated	TREATED
Beam	5	2X10X8 Treated	TREATED
Railing Post	1	4X4X12 Treated	TREATED
Internal Joist	2	2X8X14 Treated	TREATED
Beam	1	2X10X10 Treated	TREATED
Railing Section	4	TT/AZEK 31" Round Aluminum Stair Baluster - Black - 31"	TIMBERTECH



To find an AZEK and/or TimberTech Dealer or Contractor in your area, please go to [www.timbertech.com](http://www.timbertech.com)

## Other Materials

Qty	Description
5	1 LB. 10D Hot-Dip Galvanized Nail
2	1LB. 16D Galvanized Common Nail
5	2x6-8" Triple Zinc Right Skewed Joist Hanger SKH26R-TZ
8	2x6-8" Triple Zinc Left Skewed Joist Hanger SKH26L-TZ
4	1 LB. 10D X1 1/2" Nail
63	2x8-10" Triple Zinc Joist Hanger JUS28-TZ
5	5" Triple Zinc Angle Clip MP5-TZ
4	1LB. 8D Galvanized Common Nail
2	1 LB. 1-1/2" Joist Hanger Nail
62	Triple Zinc Rafter Tie RT7-TZ
24	Anchor Bolt AB128
24	4X4 Triple Zinc Deck Post Anchor PA44E-TZ
38	80 L.B. Basic Concrete Mix
2	40 LB. Basic Concrete Mix
18	8" X 48" Concrete Form Tube
384	1/2 Galvanized Flat Washer
8	1/2 Galvanized Hex Nut
192	1/2 X 8" Galvanized Carriage Bolt
16	7" Triple Zinc Angle Clip AC7-TZ
60	4X4 Triple Zinc Deck Post Tie SDPT7-TZ
1	1 LB. 8X3" Philips Head Stainless Deck Screws
30	TimberTech 5" Post Skirt - Black
120	3/8 Galvanized Hex Nut
240	3/8 Galvanized Flat Washer
120	3/8 X 8" Galvanized Carriage Bolt
30	TimberTech 5" x 5" Post Sleeve - Black - 42"
30	TimberTech 5" LED Post Cap Light
30	TimberTech 5" Post Cap - Black
1	TT/AZEK Decklites Dimmer
1	TT/AZEK Wire Guide - 60 Packs of 12 ea.
3	TT/AZEK 100' wire 16/2
1	TT/AZEK Transformer - 12 Volt 150 W
16	TT/AZEK LED In Deck Light (8 Packs of 4 per Unit) - Architectural Bronze
1	TimberTech TOPLoc 100 Sq. Ft. Pack Walnut - Walnut
1	TimberTech TOPLoc Fascia Bit
2	TimberTech TOPLoc Fascia Pack Rosewood - Pacific Rosewood
3	TimberTech CONCEALoc Hidden Fastener - Unit = 8 retail cartons @ 100 sq.ft. coverage each (175 CONCEALoc fasteners, 184 Screws and drive bit) - Brown
48	1/2 X 6" Galvanized Lag Screw

Qty	Description
1	5 LB. 10D Hot-Dip Galvanized Nail
9	7" Triple Zinc Angle Clip AC7-TZ
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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