

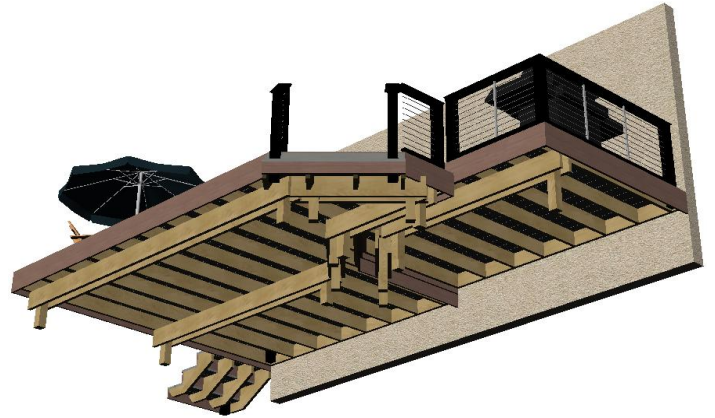


Deck Designer Specification Kit For  
**TimberTech**

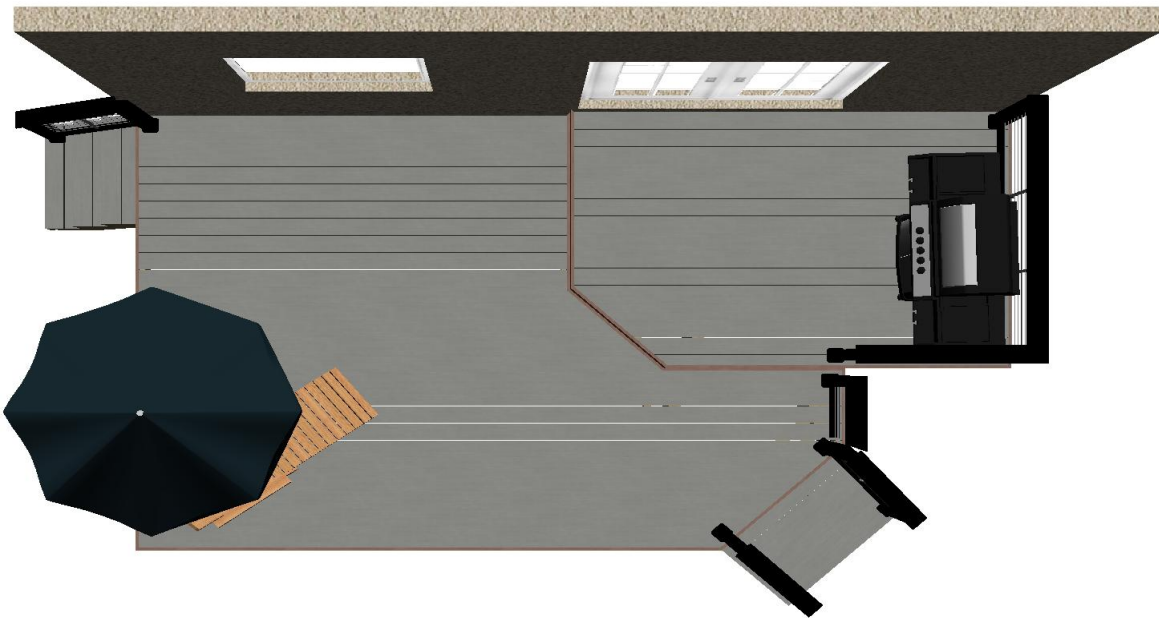
**Deck layout diagram**



Top view without planks

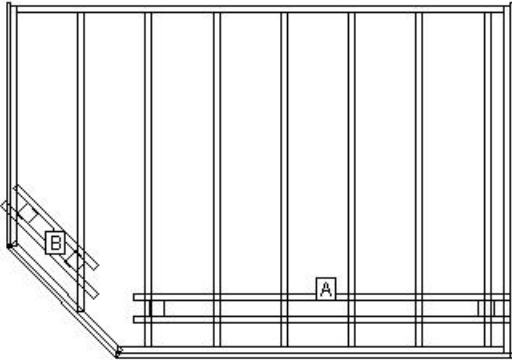


Bottom view with planks



Top view with planks

**Permit Page: Level 1**



**LOAD AND SUPPORT:**

Your deck will support a 133 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.

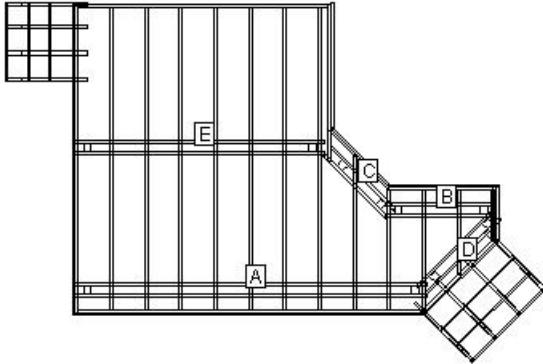
**Joists:**

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

**Stress Analysis: Level 1**

Joist Deflection	1093
Joist Bending	188
Joist Shear	173
Joist Compression	173
Beam Deflection	998
Beam Bending	186
Beam Shear	143
Post Stability	458

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 29" from the top of the decking to the ground level. The top of the deck support posts will therefore be 20" above ground level.

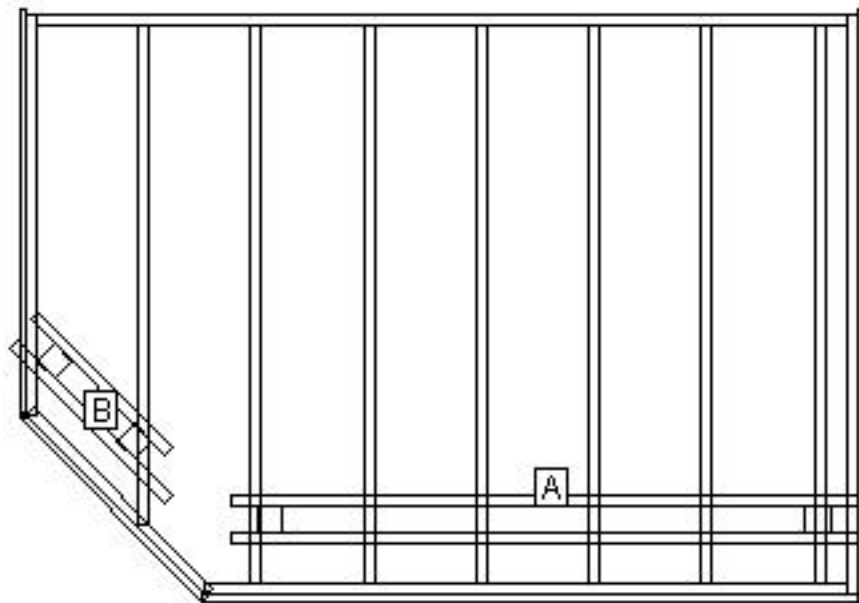
**Joists:**

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

**Stress Analysis: Level 2**

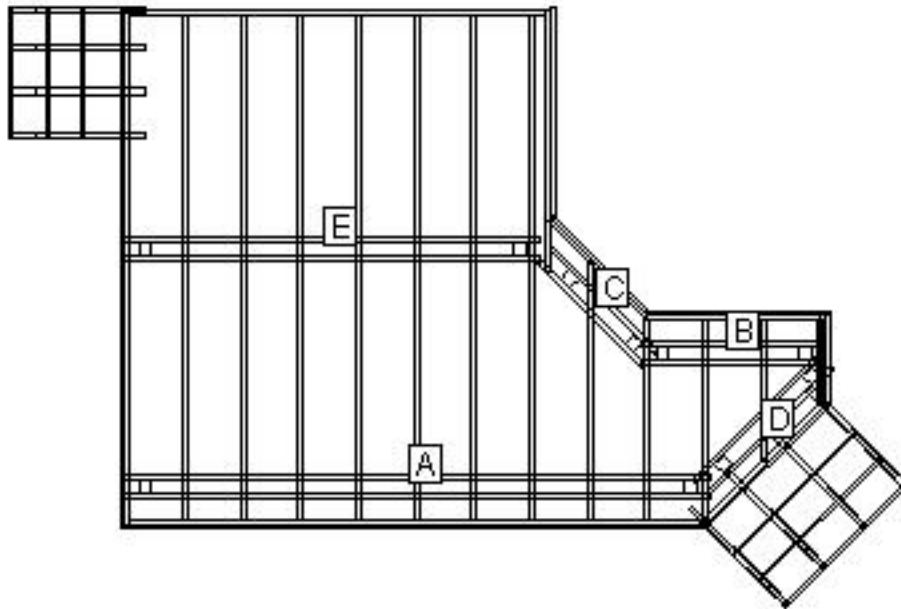
Joist Deflection	1300
Joist Bending	208
Joist Shear	183
Joist Compression	183
Beam Deflection	73
Beam Bending	50
Beam Shear	66
Post Stability	250

**Beam Layout Level 1**



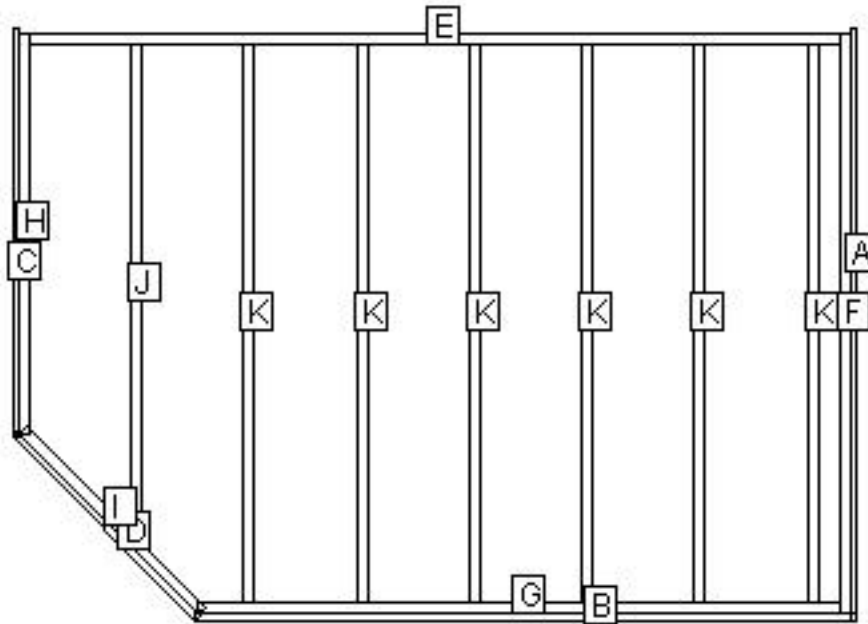
BEAM LABEL	BEAM LENGTH	POST COUNT	POST SPACING
A	7' 5 1/4"	2	6' 5 3/4"
B	2' 7"	2	1' 4"

### Beam Layout Level 2



BEAM LABEL	BEAM LENGTH	POST COUNT	POST SPACING
A	13' 6 1/4"	2	12' 7"
B	4' 3"	2	3' 3 1/2"
C	3' 4 1/4"	2	2' 1 1/4"
D	4' 1 1/2"	2	2' 10 1/2"
E	9' 7"	2	8' 7 1/2"

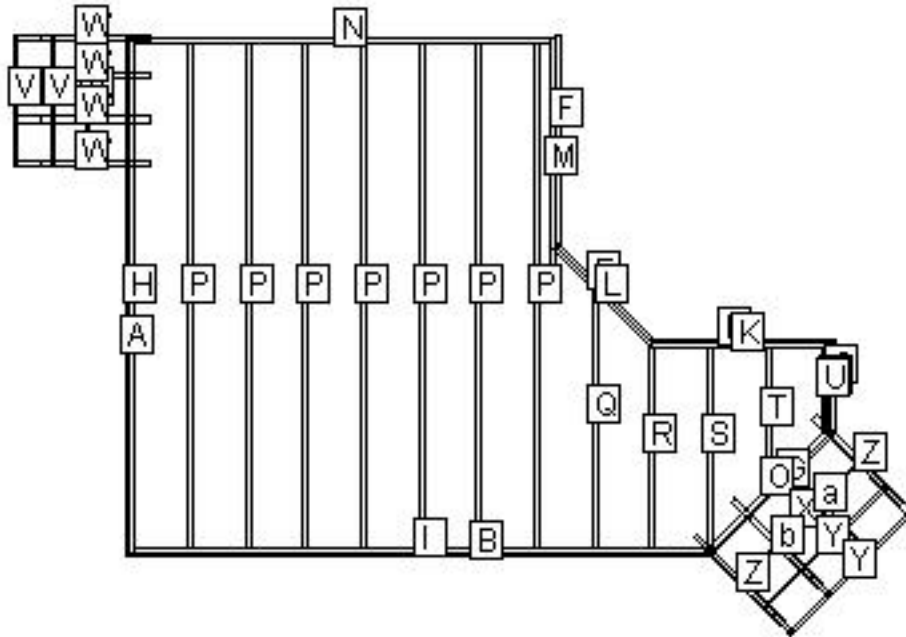
Materials Cut List: Level 1



LABEL	NAME	QTY	LENGTH	BEVELS	LABEL	NAME	QTY	LENGTH	BEVELS
A	Cladding	1	7'	45, 45	G	Header	1	7' 7 1/4"	0, 0
B	Cladding	1	7' 10"	23, 45	H	Rim Joist	1	4' 9"	0, 0
C	Cladding	1	4' 10"	45, 23	I	Header	1	3'	0, 0
D	Cladding	1	3' 1"	23, 23	J	Internal Joist	1	5' 10 3/4"	0, 45
E	Header	1	9' 7 1/4"	0, 0	K	Internal Joist	6	6' 7 1/4"	0, 0
F	Rim Joist	1	6' 10 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	12'	45, 45	O	Header	1	3' 11 1/4"	0, 0
B	Cladding	1	13' 6"	45, 23	P	Internal Joist	7	11' 7 1/4"	0, 0
C	Cladding	1	2' 2"	23, 45	Q	Internal Joist	1	5' 11 1/2"	45, 0
D	Cladding	1	4' 2 1/4"	45, 23	R	Internal Joist	1	4' 7 1/2"	0, 0
E	Cladding	1	3' 1 1/2"	23, 23	S	Internal Joist	1	4' 7 1/4"	0, 0
F	Cladding	1	4' 10 1/4"	23, 45	T	Internal Joist	1	3' 3 1/2"	0, 45
G	Cladding	1	4'	23, 23	U	Internal Joist	1	1' 11 1/2"	0, 0
H	Rim Joist	1	11' 10 1/4"	0, 0	V	Riser	3	3'	0, 0
I	Header	1	13' 3 1/4"	0, 0	W	Pre Cut Stringer	4	3' 2 1/4"	0, 0
J	Rim Joist	1	2' 1"	0, 0	X	Riser	1	4'	0, 0
K	Header	1	4'	0, 0	Y	Riser	2	4'	0, 0
L	Header	1	3' 1 1/2"	0, 0	Z	Pre Cut Stringer	2	3' 2 1/4"	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	6' 1/4"	0, 0	a	Pre Cut Stringer	1	3' 2 1/4"	0, 0
N	Header	1	9' 7 1/4"	0, 0	b	Pre Cut Stringer	1	3' 2 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
Beam	4	2X10X8 Treated	TREATED
Hand Rail	2	TimberTech Evolutions Rail Contemporary Top Rail - Classic Black - 16'	TIMBERTECH
Railing Post	2	4X4X12 Treated	TREATED
Railing Section	3	TimberTech Evolutions Rail Contemporary Rail Pack - Classic Black - 6'	TIMBERTECH
Baluster	6	TT/AZEK CableRail 36" Intermediate Baluster [1 9-hole baluster, 1 intermediate base plate, 1 #10x2" pan head screw, 3 #10x1" flat head screws] - Silver	TIMBERTECH
Cladding	6	TimberTechEarthwood Evolutions® Terrain Collection Fascia Board, 12" wide - Brown Oak - 12'	TIMBERTECH
Decking	30	TimberTech Earthwood Evolutions® Terrain Collection Deck Plank, Grooved - Stone Ash - 12'	TIMBERTECH
Header	4	2X8X8 Treated	TREATED
Header	4	2X8X14 Treated	TREATED
Rim Joist	10	2X8X12 Treated	TREATED
Post	5	4X4X8 Treated	TREATED
Beam	2	2X10X14 Treated	TREATED
Beam	2	2X10X10 Treated	TREATED
Pre Cut Stringer	8	3-Step Treated Stair Stringer	TREATED
Railing Post	1	4X4X16 Treated	TREATED
Railing Section	1	TimberTech Evolutions Rail Contemporary Rail Pack - Classic Black - 8'	TIMBERTECH
Decking	8	TimberTech Earthwood Evolutions® Terrain Collection Deck Plank, Grooved - Stone Ash - 16'	TIMBERTECH
Decking	6	TimberTech Earthwood Evolutions® Terrain Collection Deck Plank, Grooved - Stone Ash - 20'	TIMBERTECH
Header	2	2X8X18 Treated	TREATED
Rim Joist	1	2X8X10 Treated	TREATED
Beam	1	2X10X18 Treated	TREATED
Riser	2	TimberTech Earthwood Evolutions® Terrain Collection Riser Board, 7 1/4" wide - Brown Oak - 12'	TIMBERTECH

**Lumber Materials**

<b>COMPONENT</b>	<b>QTY</b>	<b>DESCRIPTION</b>	<b>WOOD TYPE</b>
Railing Section	3	TT/AZEK CableRail 36" Stair Intermediate Baluster [1 angled 9-hole baluster, 1 intermediate base plate, 1 #10x2" pan head screw, 3 #10x1 flat head screws] - Silver	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
2	TT/AZEK CableRail 100' Stainless Steel Cable - Stainless - 100'
2	1 LB. 10D X1 1/2" Nail
5	1 LB. 10D Hot-Dip Galvanized Nail
34	2x8-10" Triple Zinc Joist Hanger JUS28-TZ
1	1LB. 16D Galvanized Common Nail
2	2x6-8" Triple Zinc Right Skewed Joist Hanger SKH26R-TZ
7	7" Triple Zinc Angle Clip AC7-TZ
3	5" Triple Zinc Angle Clip MP5-TZ
4	THR128-HDG Threaded Rod
8	DTB-TZ Deck Tie Bracket
2	1LB. 8D Galvanized Common Nail
1	1 LB. 1-1/2" Joist Hanger Nail
38	Triple Zinc Rafter Tie RT7-TZ
14	Anchor Bolt AB128
14	4X4 Triple Zinc Deck Post Anchor PA44E-TZ
22	80 L.B. Basic Concrete Mix
1	40 LB. Basic Concrete Mix
11	8" X 48" Concrete Form Tube
224	1/2 Galvanized Flat Washer
5	1/2 Galvanized Hex Nut
112	1/2 X 8" Galvanized Carriage Bolt
20	4X4 Triple Zinc Deck Post Tie SDPT7-TZ
1	1 LB. 8X3" Philips Head Stainless Deck Screws
10	TimberTech Evolutions Rail 5"x5" Post Skirt - Classic Black
40	3/8 Galvanized Hex Nut
80	3/8 Galvanized Flat Washer
40	3/8 X 8" Galvanized Carriage Bolt
10	TimberTech Evolutions Rail 5"x5" Post Cover - Classic Black - 42"
1	TT/AZEK CableRail Cable Cutters
1	TT/AZEK CableRail Accessory Kit [Quick-Connect release tool, lacing needle, hanger bolt installation tool] -
10	TT/AZEK CableRail 36" Hardware Kit [9 Quick-Connect fittings, 9 Quick Connect Swivel fittings, 18 hanger bolts, 9 lock nuts] - Stainless
1	TimberTech TOPLoc Fascia Bit
2	TimberTech TOPLoc Fascia Pack Walnut - Walnut
3	TimberTech CONCEALoc Hidden Fastener - Unit = 8 retail cartons @ 100 sq.ft. coverage each (175 CONCEALoc fasteners, 184 Screws and drive bit) - Brown
40	1/2 X 6" Galvanized Lag Screw
1	TimberTech Cortex - 100 LF Evolutions Stone Ash - Stone Ash

<b>Qty</b>	<b>Description</b>
2	2x6-8" Triple Zinc Left Skewed Joist Hanger SKH26L-TZ
2	10 LB. Basic Concrete Mix
8	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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