





Deck Designer Specification Kit For

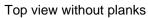
# **TimberTech**





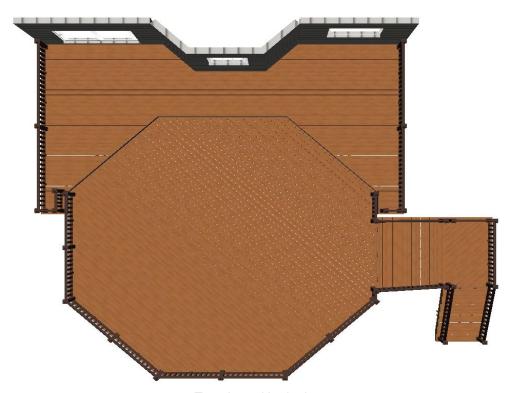
# **Deck layout diagram**







Bottom view with planks

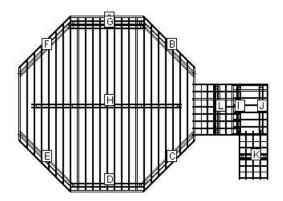


Top view with planks





Permit Page: Level 1



#### **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 120" from the top of the decking to the ground level. The top of the deck support posts will therefore be 111" above ground level.

#### Joists:

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

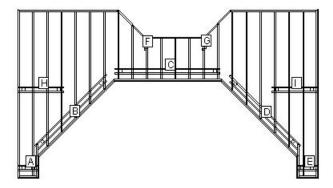
Stress Anavsis: Level 1

Circos Anaysis: Ecver i				
Joist Deflection	18651			
Joist Bending	973			
Joist Shear	579			
Joist Compression	579			
Beam Deflection	141			
Beam Bending	55			
Beam Shear	56			
Post Stability	121			





Permit Page: Level 2



### **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 127" from the top of the decking to the ground level. The top of the deck support posts will therefore be 118" above ground level.

#### Joists:

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

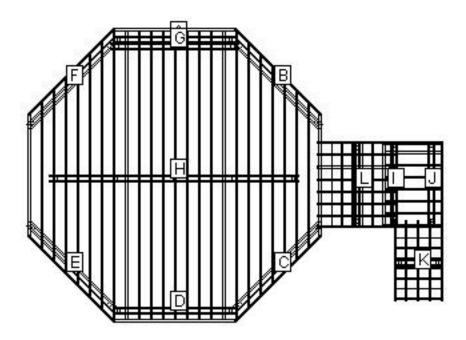
Stress Anavsis: Level 2

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Joist Deflection	176			
Joist Bending	60			
Joist Shear	99			
Joist Compression	99			
Beam Deflection	303			
Beam Bending	90			
Beam Shear	79			
Post Stability	265			





# **Beam Layout Level 1**

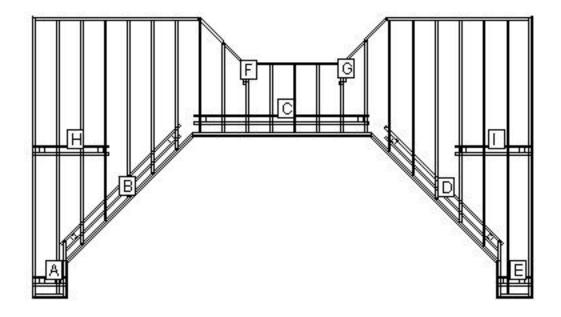


BEAM LABEL	BEAM LENGTH	POST COUNT	POST SPACING
A	10' 2 1/4"	2	9' 3"
В	10' 1 1/2"	2	8' 10 1/2"
C	10' 1 1/2"	2	8' 10 1/2"
D	10' 2 1/4"	2	9' 3"
E	10' 1 1/2"	2	8' 10 1/2"
F	10' 1 1/2"	2	8' 10 1/2"
G	10' 6"	2	9' 6 1/2"
Н	20' 6"	5	4' 10 3/4"
1	6' 10 1/4"	2	5' 10 3/4"
J	6' 10 1/4"	2	5' 10 3/4"
K	4' 1/4"	2	3' 3/4"
L	7'	2	6' 1/2"





# **Beam Layout Level 2**

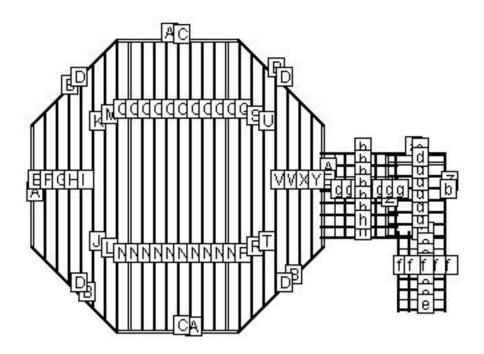


BEAM LABEL	BEAM LENGTH	POST COUNT	POST SPACING
A	1' 10 1/4"	2	10 3/4"
В	9' 1/2"	2	7' 9 1/2"
С	9' 10"	2	8' 10 1/2"
D	8' 10 3/4"	2	7' 7 3/4"
E	1' 10 1/4"	2	10 3/4"
F	2 1/4"	1	0
G	2 1/4"	1	0
Н	4' 3"	2	3' 3 1/2"
1	4' 3 1/4"	2	3' 3 3/4"





**Materials Cut List: Level 1** 



LABEL	NAME	QTY	LENGTH	BEVELS	LABEL	NAME	QTY	LENGTH	BEVELS
Α	Cladding	4	10'	23, 23	R	Internal Joist	1	10' 7"	45, 45
В	Cladding	4	10' 1/4"	23, 23	S	Internal Joist	1	11' 1"	45, 45
С	Header	2	9' 11 1/4"	0, 0	Т	Internal Joist	1	9' 7"	45, 45
D	Header	4	9' 11 1/2"	0, 0	U	Internal Joist	1	10' 1"	45, 45
Е	Rim Joist	2	9' 11 1/4"	0, 0	V	Internal Joist	1	17' 7 1/2"	45, 45
F	Internal Joist	1	11' 10"	45, 45	W	Internal Joist	1	15' 7 1/2"	45, 45
G	Internal Joist	1	13' 10"	45, 45	Χ	Internal Joist	1	13' 7 1/2"	45, 45
Н	Internal Joist	1	15' 10"	45, 45	Υ	Internal Joist	1	11' 7 1/2"	45, 45
I	Internal Joist	1	17' 10"	45, 45	Z	Cladding	2	7'	45, 45
J	Internal Joist	1	9' 8"	45, 45	а	Cladding	2	5'	45, 45
K	Internal Joist	1	10' 2"	45, 45	b	Header	2	6' 7 1/4"	0, 0
L	Internal Joist	1	10' 8"	45, 45	С	Rim Joist	2	4' 10 1/4"	0, 0

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

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Page 7



# **Timber**Tech

### DECK DESIGNER

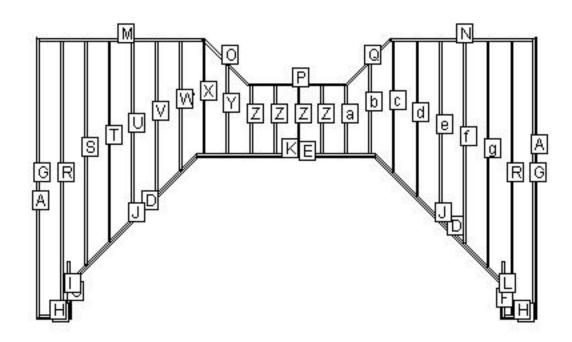
LABE	EL NAME	QTY	LENGTH	BEVELS	LABEL	. NAME	QTY	LENGTH	BEVELS
М	Internal Joist	1	11' 2"	45, 45	d	Internal Joist	6	4' 7 1/4"	0, 0
Ν	Internal Joist	10	11' 7 1/2"	0, 0	е	Riser	7	4' 1/4"	0, 0
0	Internal Joist	10	12' 1 3/4"	0, 0	f	Pre Cut Stringer	5	7' 6"	0, 0
Р	Internal Joist	1	11' 7"	45, 45	g	Riser	7	7'	0, 0
Q	Internal Joist	1	12' 1"	45. 45	h	Stringer	8	7' 6"	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
Α	Cladding	2	15' 10"	45, 45	R	Internal Joist	2	15' 5 1/4"	0, 0
В	Cladding	2	2'	45, 45	S	Internal Joist	1	12' 7 1/2"	0, 45
С	Cladding	1	2' 1/4"	45, 23	Т	Internal Joist	1	11' 3 1/2"	0, 45
D	Cladding	2	10' 1"	23, 23	U	Internal Joist	1	9' 11 1/2"	0, 45
Е	Cladding	1	10' 3/4"	23, 23	V	Internal Joist	1	8' 7 1/2"	0, 45
F	Cladding	1	2' 1/4"	23, 45	W	Internal Joist	1	7' 3 1/2"	0, 45
G	Rim Joist	2	15' 8 1/4"	0, 0	Χ	Internal Joist	1	6' 4 1/4"	0, 0
Н	Header	2	1' 7 1/4"	0, 0	Υ	Internal Joist	1	5' 1/2"	45, 0
I	Rim Joist	1	3' 2 1/4"	0, 0	Z	Internal Joist	4	3' 10 1/4"	0, 0
J	Header	2	10' 1"	0, 0	а	Internal Joist	1	3' 10 3/4"	0, 0
K	Header	1	10' 3/4"	0, 0	b	Internal Joist	1	5' 2 3/4"	45, 0
L	Rim Joist	1	3' 2 1/4"	0, 0	С	Internal Joist	1	7' 4 3/4"	0, 45

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

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Page 9





# DECK DESIGNER

LABE	EL NAME	QTY	LENGTH	BEVELS	LABEI	_ NAME	QTY	LENGTH	BEVELS
М	Header	1	9' 3 1/4"	0, 0	d	Internal Joist	1	8' 8 3/4"	0, 45
Ν	Header	1	8' 1/4"	0, 0	е	Internal Joist	1	10' 3/4"	0, 45
0	Header	1	3' 6 1/2"	0, 0	f	Internal Joist	1	11' 4 3/4"	0, 45
Р	Header	1	5' 5 3/4"	0, 0	g	Internal Joist	1	12' 8 3/4"	0, 45
Q	Header	1	3' 6 1/2"	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	17	2X8X14 Treated	TREATED
Internal Joist	11	2X8X16 Treated	TREATED
Internal Joist	10	2X8X18 Treated	TREATED
Internal Joist	12	2X8X10 Treated	TREATED
Internal Joist	21	2X8X12 Treated	TREATED
Beam	18	2X10X12 Treated	TREATED
Beam	7	2X10X8 Treated	TREATED
Pre Cut Stringer	10	4-Step Treated Stair Stringer	TREATED
Railing Post	5	4X4X18 Treated	TREATED
Railing Section	8	TimberTech 6' RadianceRail Rail Pack - Kona® - 6'	TIMBERTECH
Railing Section	10	TimberTech 8' RadianceRail Rail Pack - Kona® - 8'	TIMBERTECH
Railing Section	18	TT/AZEK 31" Square Composite Baluster - Kona® - 31"	TIMBERTECH
Cladding	17	TimberTech Earthwood Evolutions® Tropical Fascia Board - Pacific Walnut - 12'	TIMBERTECH
Decking	11	TimberTech Earthwood Evolutions® Tropical Deck Plank, Grooved - Pacific Teak - 12'	TIMBERTECH
Decking	70	TimberTech Earthwood Evolutions® Tropical Deck Plank, Grooved - Pacific Teak - 16'	TIMBERTECH
Decking	36	TimberTech Earthwood Evolutions® Tropical Deck Plank, Grooved - Pacific Teak - 20'	TIMBERTECH
Internal Joist	5	2X8X8 Treated	TREATED
Post	1	4X4X8 Treated	TREATED
Post	38	4X4X10 Treated	TREATED
Riser	7	TimberTech Earthwood Evolutions® Tropical Riser Board - Pacific Walnut - 12'	TIMBERTECH
Beam	7	2X10X10 Treated	TREATED
Railing Post	1	4X4X14 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
2	5 LB. 10D Hot-Dip Galvanized Nail
3	1 LB. 10D Hot-Dip Galvanized Nail
4	1LB. 16D Galvanized Common Nail
19	2x6-8" Triple Zinc Right Skewed Joist Hanger SKH26R-TZ
19	2x6-8" Triple Zinc Left Skewed Joist Hanger SKH26L-TZ
4	1 LB. 10D X1 1/2" Nail
60	2x8-10" Triple Zinc Joist Hanger JUS28-TZ
6	5" Triple Zinc Angle Clip MP5-TZ
1	5 LB. 8D Galvanized Nail
1	5 LB. 1-1/2" Joist Hanger Nail
132	Triple Zinc Rafter Tie RT7-TZ
43	Anchor Bolt AB128
43	4X4 Triple Zinc Deck Post Anchor PA44E-TZ
68	80 L.B. Basic Concrete Mix
1	40 LB. Basic Concrete Mix
2	10 LB. 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
10	7" Triple Zinc Angle Clip AC7-TZ
13	7" Triple Zinc Angle Clip AC7-TZ
58	4X4 Triple Zinc Deck Post Tie SDPT7-TZ
1	1 LB. 8X3" Philips Head Stainless Deck Screws
29	TimberTech 5" Post Skirt - Kona®
116	3/8 Galvanized Hex Nut
232	3/8 Galvanized Flat Washer
116	3/8 X 8" Galvanized Carriage Bolt
29	TimberTech 5" x 5" Post Sleeve - Kona® - 42"
29	TimberTech 5" LED Post Cap Light
29	TimberTech 5" Post Cap - Kona®
1	TT/AZEK Wire Guide - 60 Packs of 12 ea.
2	TT/AZEK 100' wire 16/2
1	TT/AZEK Decklites Dimmer
1	TT/AZEK Transformer - 12 Volt 150 W
15	2 Pieces of Joist Material Nailed to Each Joist Splice
40	TT/AZEK LED Riser Light - Architectural Bronze
1	TimberTech Cortex - 100 LF Evolutions Pacific Teak - Pacific Teak
1	TimberTech TOPLoc Fascia Bit





### DECK DESIGNER

Qty	Description
3	TimberTech TOPLoc Fascia Pack Walnut - Walnut
8	TimberTech CONCEALoc Hidden Fastener - Unit = 8 retail cartons @ 100 sq.ft. coverage each (175 CONCEALoc fasteners, 184 Screws and drive bit) - Brown
62	1/2 X 6" Galvanized Lag Screw
6	THR128-HDG Threaded Rod
12	DTB-TZ Deck Tie Bracket
2	1LB. 8D Galvanized Common Nail
1	1 LB. 1-1/2" Joist Hanger Nail
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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