

Deck Designer Specification Kit For
TimberTech

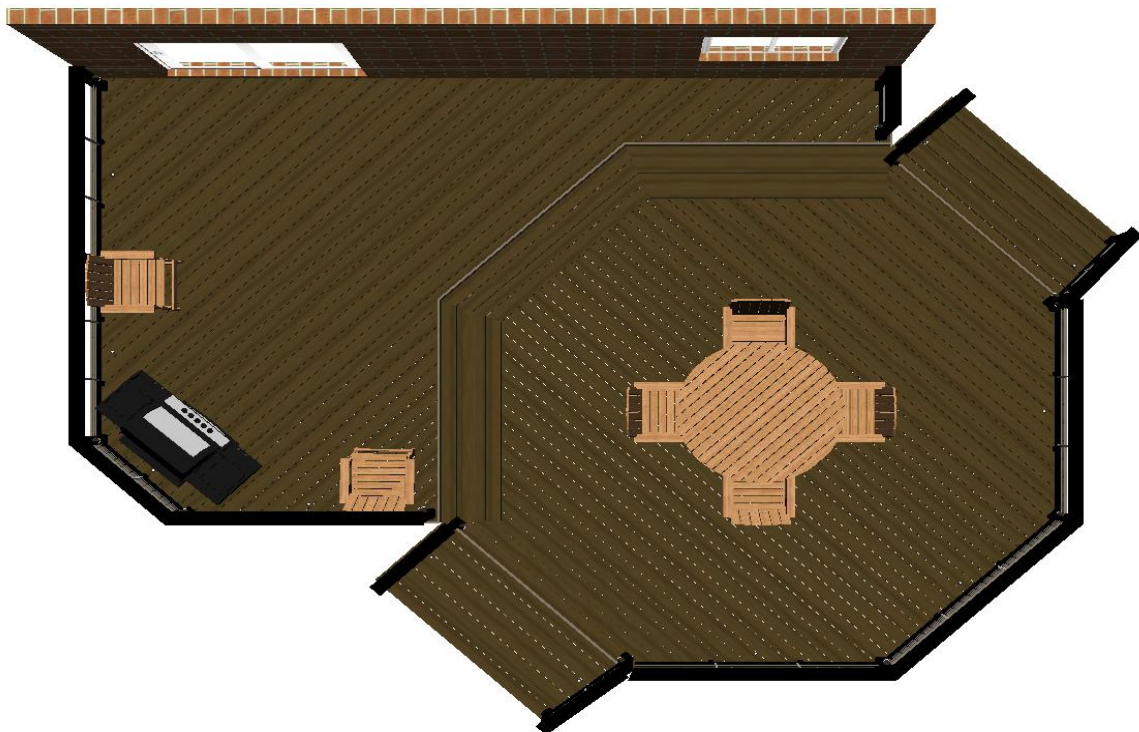
Deck layout diagram



Top view without planks

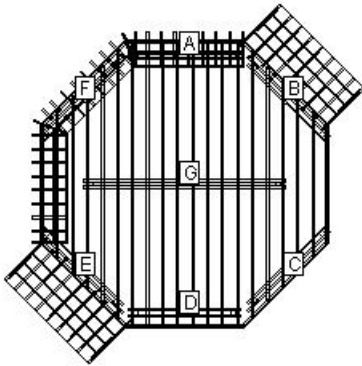


Bottom view with planks



Top view with planks

Permit Page: Level 1



LOAD AND SUPPORT:

Your deck will support a 51 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.

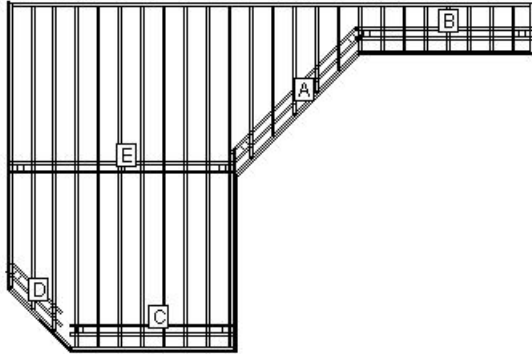
Joists:

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

Stress Analysis: Level 1

Joist Deflection	157
Joist Bending	61
Joist Shear	118
Joist Compression	118
Beam Deflection	500
Beam Bending	87
Beam Shear	65
Post Stability	119

Permit Page: Level 2



LOAD AND SUPPORT:

Your deck will support a 100 PSF live load.
Posts have 36" below ground support.

DECK AND POST HEIGHT:

You selected a height of 57" from the top of the decking to the ground level. The top of the deck support posts will therefore be 48" above ground level.

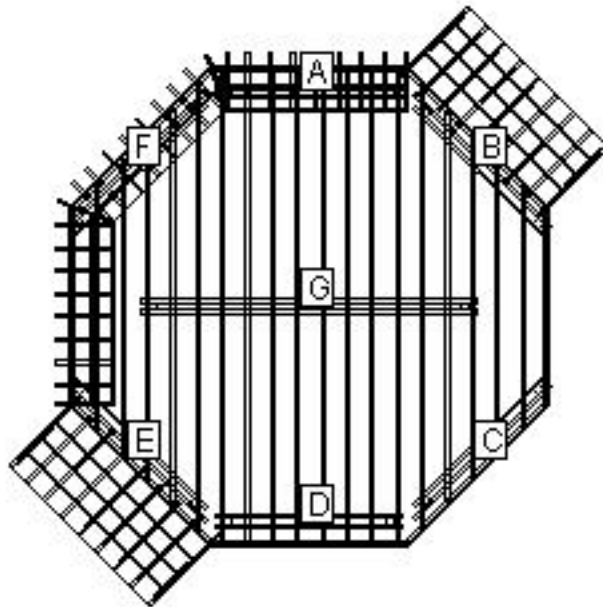
Joists:

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

Stress Analysis: Level 2

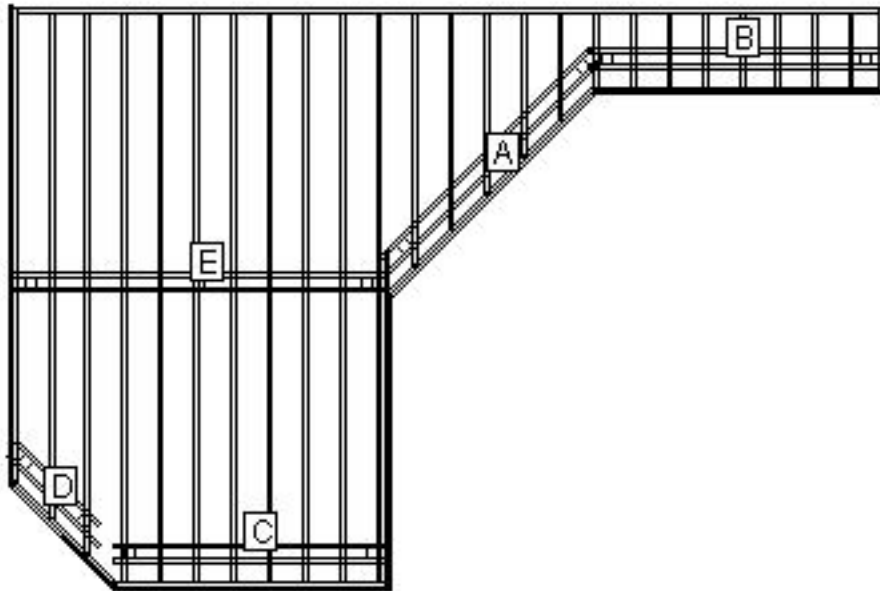
Joist Deflection	533
Joist Bending	138
Joist Shear	169
Joist Compression	169
Beam Deflection	738
Beam Bending	145
Beam Shear	113
Post Stability	188

Beam Layout Level 1



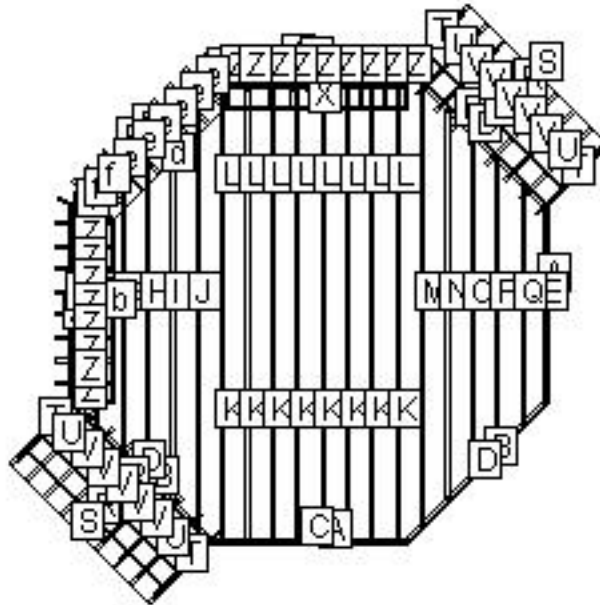
BEAM LABEL	BEAM LENGTH	POST COUNT	POST SPACING
A	7' 6"	2	6' 6 1/2"
B	7' 7 1/2"	2	6' 4 1/2"
C	7' 7 1/2"	2	6' 4 1/2"
D	7' 6"	2	6' 6 1/2"
E	7' 9 1/4"	2	6' 6 1/4"
F	7' 9 1/4"	2	6' 6 1/4"
G	13' 6"	3	6' 3 1/4"

Beam Layout Level 2



BEAM LABEL	BEAM LENGTH	POST COUNT	POST SPACING
A	8' 2 1/4"	2	6' 11 1/4"
B	8' 1"	2	7' 1 1/2"
C	7' 7 1/4"	2	6' 7 3/4"
D	3' 6 1/2"	2	2' 3 1/2"
E	10' 3"	3	4' 7 3/4"

Materials Cut List: Level 1



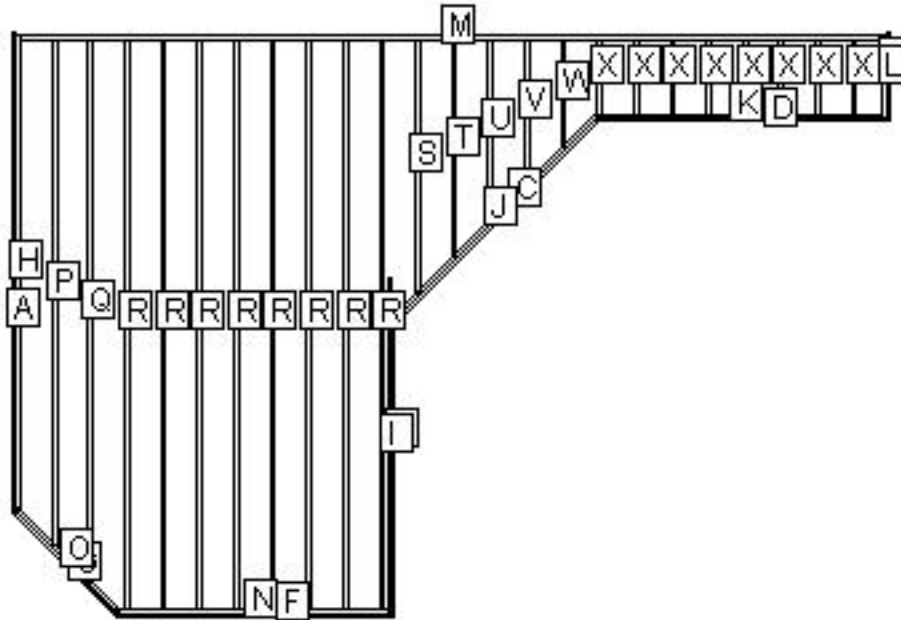
LABEL	NAME	QTY	LENGTH	BEVELS	LABEL	NAME	QTY	LENGTH	BEVELS
A	Cladding	4	8'	23, 23	Q	Internal Joist	1	9' 7 1/2"	45, 45
B	Cladding	4	7' 11"	23, 23	R	Riser	6	7' 11"	0, 0
C	Header	2	7' 11 1/4"	0, 0	S	Riser	2	7' 11"	0, 0
D	Header	4	7' 10"	0, 0	T	Pre Cut Stringer	4	4' 2"	0, 0
E	Rim Joist	2	7' 11 1/4"	0, 0	U	Pre Cut Stringer	4	4' 2"	0, 0
F	Internal Joist	1	9' 10"	45, 45	V	Pre Cut Stringer	10	4' 2"	0, 0
G	Internal Joist	1	11' 10"	45, 45	W	Riser	1	7' 8"	23, 0
H	Internal Joist	1	13' 10"	45, 45	X	Riser	1	7' 3 3/4"	23, 0
I	Internal Joist	1	15' 10"	45, 45	Y	Pre Cut Stringer	2	2' 2 1/4"	0, 0
J	Internal Joist	1	17' 10"	45, 45	Z	Pre Cut Stringer	18	2' 1"	0, 0
K	Internal Joist	8	9' 4 1/2"	0, 0	a	Riser	1	7' 8"	0, 23
L	Internal Joist	8	9' 4 3/4"	0, 0	b	Riser	1	7' 3 3/4"	0, 23

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

LABEL	NAME	QTY	LENGTH	BEVELS	LABEL	NAME	QTY	LENGTH	BEVELS
M	Internal Joist	1	17' 7 1/2"	45, 45	c	Riser	1	7' 2 1/2"	23, 23
N	Internal Joist	1	15' 7 1/2"	45, 45	d	Riser	1	6' 6 1/4"	23, 23
O	Internal Joist	1	13' 7 1/2"	45, 45	e	Pre Cut Stringer	6	2' 1"	0, 0
P	Internal Joist	1	11' 7 1/2"	45, 45	f	Pre Cut Stringer	2	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	13' 2"	45, 23	M	Header	1	23' 8 1/4"	0, 0
B	Cladding	1	8' 1/4"	45, 23	N	Header	1	7' 5 1/4"	0, 0
C	Cladding	1	7' 11 1/2"	23, 23	O	Header	1	3' 11 1/4"	0, 0
D	Cladding	1	8' 1/4"	23, 45	P	Internal Joist	1	13' 10 3/4"	0, 45
E	Cladding	1	2' 5"	45, 45	Q	Internal Joist	1	14' 10 3/4"	0, 45
F	Cladding	1	7' 8"	23, 45	R	Internal Joist	8	15' 7 1/4"	0, 0
G	Cladding	1	4'	23, 23	S	Internal Joist	1	6' 11 1/2"	0, 45
H	Rim Joist	1	13' 1"	0, 0	T	Internal Joist	1	5' 11 1/2"	0, 45
I	Rim Joist	1	9' 2 1/4"	0, 0	U	Internal Joist	1	4' 11 1/2"	0, 45
J	Header	1	7' 11 1/2"	0, 0	V	Internal Joist	1	3' 11 1/2"	0, 45
K	Header	1	7' 10"	0, 0	W	Internal Joist	1	2' 11 1/2"	0, 45
L	Rim Joist	1	2' 3 1/4"	0, 0	X	Internal Joist	8	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
Internal Joist	4	2X8X14 Treated	TREATED
Internal Joist	11	2X8X16 Treated	TREATED
Internal Joist	6	2X8X18 Treated	TREATED
Internal Joist	19	2X8X10 Treated	TREATED
Beam	15	2X10X8 Treated	TREATED
Beam	2	2X10X14 Treated	TREATED
Pre Cut Stringer	20	4-Step Treated Stair Stringer	TREATED
Pre Cut Stringer	28	2-Step Treated Stair Stringer	TREATED
Hand Rail	5	TimberTech Evolutions Rail Contemporary Top Rail - Classic Black - 16'	TIMBERTECH
Railing Post	2	4X4X12 Treated	TREATED
Railing Post	3	4X4X16 Treated	TREATED
Railing Section	5	TimberTech Evolutions Rail Contemporary Rail Pack - Classic Black - 6'	TIMBERTECH
Railing Section	6	TimberTech Evolutions Rail Contemporary Rail Pack - Classic Black - 8'	TIMBERTECH
Baluster	17	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	13	TimberTechEarthwood Evolutions® Terrain Collection Fascia Board, 12" wide - Silver Maple - 12'	TIMBERTECH
Decking	9	TimberTech Earthwood Evolutions® Legacy Deck Plank, Grooved - Mocha - 12'	TIMBERTECH
Decking	45	TimberTech Earthwood Evolutions® Legacy Deck Plank, Grooved - Mocha - 16'	TIMBERTECH
Decking	30	TimberTech Earthwood Evolutions® Legacy Deck Plank, Grooved - Mocha - 20'	TIMBERTECH
Header	14	2X8X8 Treated	TREATED
Internal Joist	2	2X8X12 Treated	TREATED
Post	16	4X4X8 Treated	TREATED
Riser	14	TimberTech Earthwood Evolutions® Terrain Collection Riser Board, 7 1/4" wide - Silver Maple - 12'	TIMBERTECH

Lumber Materials

COMPONENT	QTY	DESCRIPTION	WOOD TYPE
Railing Section	4	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
Beam	4	2X10X10 Treated	TREATED
Beam	2	2X10X12 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
6	TT/AZEK CableRail 100' Stainless Steel Cable - Stainless - 100'
1	5 LB. 10D Hot-Dip Galvanized Nail
6	1 LB. 10D Hot-Dip Galvanized Nail
3	1LB. 16D Galvanized Common Nail
13	2x6-8" Triple Zinc Right Skewed Joist Hanger SKH26R-TZ
15	2x6-8" Triple Zinc Left Skewed Joist Hanger SKH26L-TZ
5	1 LB. 10D X1 1/2" Nail
54	2x8-10" Triple Zinc Joist Hanger JUS28-TZ
6	5" Triple Zinc Angle Clip MP5-TZ
4	1LB. 8D Galvanized Common Nail
4	1 LB. 1-1/2" Joist Hanger Nail
90	Triple Zinc Rafter Tie RT7-TZ
26	Anchor Bolt AB128
26	4X4 Triple Zinc Deck Post Anchor PA44E-TZ
41	80 L.B. Basic Concrete Mix
3	10 LB. 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
46	7" Triple Zinc Angle Clip AC7-TZ
36	4X4 Triple Zinc Deck Post Tie SDPT7-TZ
1	1 LB. 8X3" Philips Head Stainless Deck Screws
18	TimberTech Evolutions Rail 5"x5" Post Skirt - Classic Black
72	3/8 Galvanized Hex Nut
144	3/8 Galvanized Flat Washer
72	3/8 X 8" Galvanized Carriage Bolt
18	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] -
17	TT/AZEK CableRail 36" Hardware Kit [9 Quick-Connect fittings, 9 Quick Connect Swivel fittings, 18 hanger bolts, 9 lock nuts] - Stainless
1	TT/AZEK Decklites Dimmer
1	TT/AZEK Wire Guide - 60 Packs of 12 ea.
3	TT/AZEK 100' wire 16/2
17	TT/AZEK LED Accent Light - Architectural Bronze
1	TT/AZEK Transformer - 12 Volt 150 W
11	TT/AZEK LED In Deck Light (8 Packs of 4 per Unit) - Architectural Bronze

Qty	Description
8	2 Pieces of Joist Material Nailed to Each Joist Splice
1	TimberTech TOPLoc 100 Sq. Ft. Pack Walnut - Walnut
1	TimberTech TOPLoc Fascia Bit
2	TimberTech TOPLoc Fascia Pack Dark Gray - Dark Gray
6	TimberTech CONCEALoc Hidden Fastener - Unit = 8 retail cartons @ 100 sq.ft. coverage each (175 CONCEALoc fasteners, 184 Screws and drive bit) - Brown
50	1/2 X 6" Galvanized Lag Screw
4	7" Triple Zinc Angle Clip AC7-TZ
2	THR128-HDG Threaded Rod
4	DTB-TZ Deck Tie Bracket
1	60 L.B. Basic Concrete Mix
1	TT/AZEK CableRail Protector Sleeves [Pack of 20] - Stainless

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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