



Deck Designer Specification Kit For
TimberTech

Deck layout diagram



Top view without planks

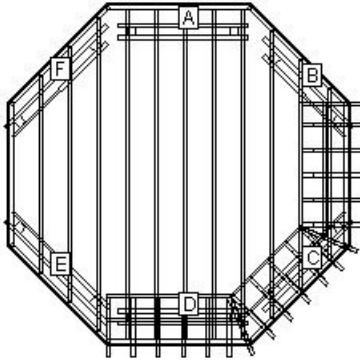


Bottom view with planks



Top view with planks

Permit Page: Level 1



LOAD AND SUPPORT:

Your deck will support a 55 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.

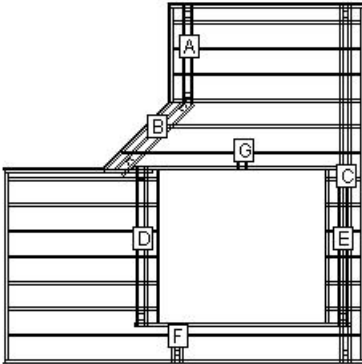
Joists:

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

Stress Analysis: Level 1

Joist Deflection	171
Joist Bending	65
Joist Shear	121
Joist Compression	121
Beam Deflection	6593
Beam Bending	405
Beam Shear	232
Post Stability	482

Permit Page: Level 2



LOAD AND SUPPORT:

Your deck will support a 49 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.

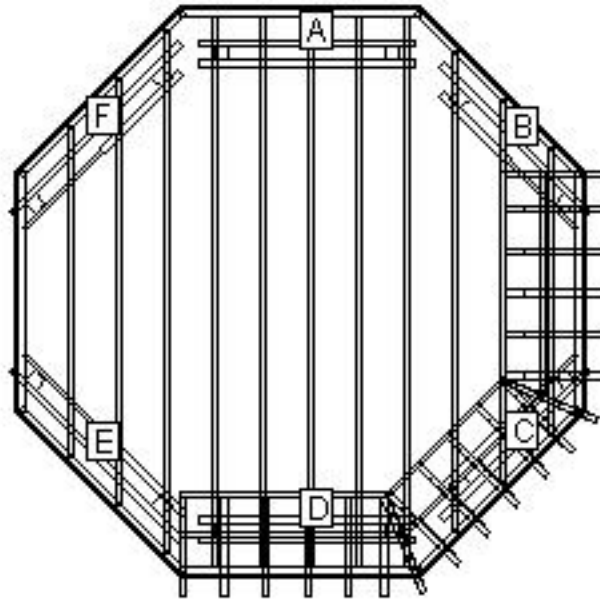
Joists:

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

Stress Analysis: Level 2

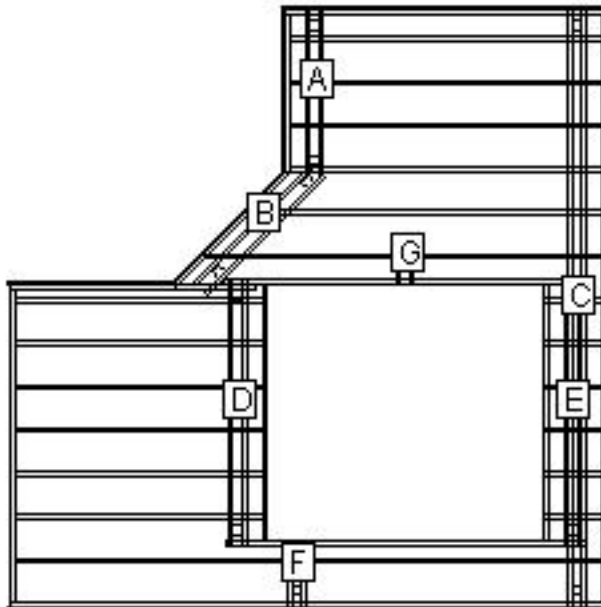
Joist Deflection	169
Joist Bending	59
Joist Shear	98
Joist Compression	98
Beam Deflection	220
Beam Bending	72
Beam Shear	69
Post Stability	138

Beam Layout Level 1



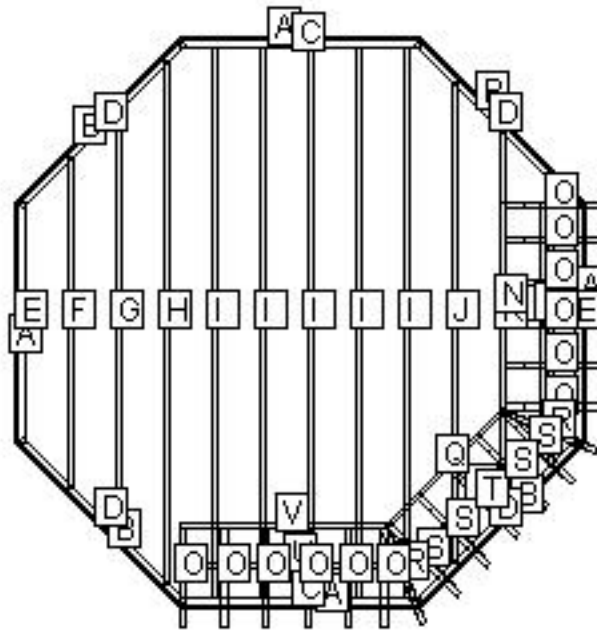
BEAM LABEL	BEAM LENGTH	POST COUNT	POST SPACING
A	4' 6"	2	3' 6 1/2"
B	4' 4"	2	3' 1"
C	4' 4"	2	3' 1"
D	4' 6"	2	3' 6 1/2"
E	4' 11 1/4"	2	3' 8 1/4"
F	4' 11 1/4"	2	3' 8 1/4"

Beam Layout Level 2



BEAM LABEL	BEAM LENGTH	POST COUNT	POST SPACING
A	5' 1"	2	4' 1 1/2"
B	5' 1 1/2"	2	3' 10 1/2"
C	18' 3 1/4"	3	8' 8"
D	8' 2"	2	7' 2 1/2"
E	8' 2"	2	7' 2 1/2"
F	1' 11 3/4"	2	1' 1/4"
G	1' 1/4"	1	0

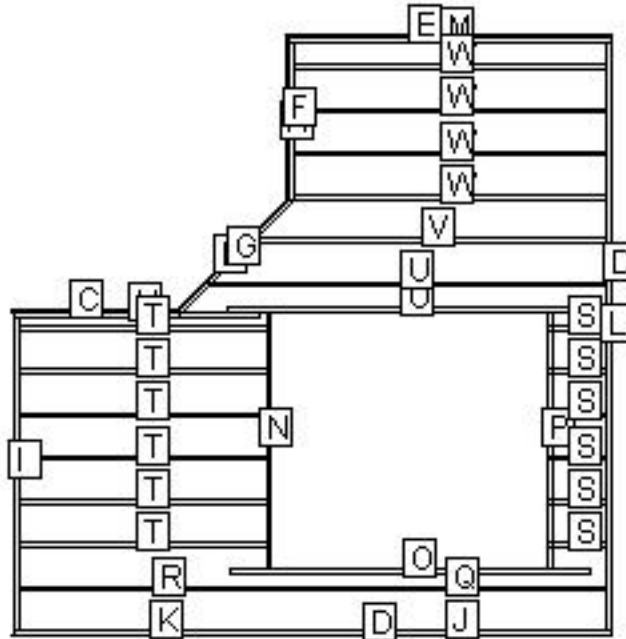
Materials Cut List: Level 1



LABEL	NAME	QTY	LENGTH	BEVELS	LABEL	NAME	QTY	LENGTH	BEVELS
A	Cladding	4	5'	23, 23	L	Internal Joist	1	5' 11 1/2"	45, 45
B	Cladding	4	4' 10"	23, 23	M	Riser	1	4' 8"	0, 23
C	Header	2	4' 11 1/4"	0, 0	N	Riser	1	4' 3 3/4"	0, 23
D	Header	4	4' 9 1/4"	0, 0	O	Stringer	12	2' 1"	0, 0
E	Rim Joist	2	4' 11 1/4"	0, 0	P	Riser	1	4' 1 3/4"	23, 23
F	Internal Joist	1	6' 10"	45, 45	Q	Riser	1	3' 5 1/2"	23, 23
G	Internal Joist	1	8' 10"	45, 45	R	Stringer	2	2' 2 1/4"	0, 0
H	Internal Joist	1	10' 10"	45, 45	S	Stringer	4	2' 1"	0, 0
I	Internal Joist	5	11' 5 1/4"	0, 0	T	Stringer	1	2' 1"	0, 0
J	Internal Joist	1	9' 11 1/2"	45, 45	U	Riser	1	4' 8"	23, 0
K	Internal Joist	1	7' 11 1/2"	45, 45	V	Riser	1	4' 3 3/4"	23, 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	5' 1/4"	45, 23	M	Rim Joist	1	9' 10 1/4"	0, 0
B	Cladding	1	4' 10 3/4"	23, 23	N	Header	1	7' 11"	0, 0
C	Cladding	1	5' 1/4"	23, 45	O	Rim Joist	2	11' 1/2"	0, 0
D	Cladding	2	18' 5"	45, 45	P	Header	1	7' 11"	0, 0
E	Cladding	1	10'	45, 45	Q	Internal Joist	1	9' 4 1/2"	0, 0
F	Header	1	4' 10"	0, 0	R	Internal Joist	1	8' 7 3/4"	0, 0
G	Header	1	4' 10 3/4"	0, 0	S	Internal Joist	6	1' 9 3/4"	0, 0
H	Rim Joist	1	7' 6"	0, 0	T	Internal Joist	6	7' 8 1/2"	0, 0
I	Header	1	9' 7 1/4"	0, 0	U	Internal Joist	1	12' 2 1/2"	45, 0
J	Rim Joist	1	9' 6 1/4"	0, 0	V	Internal Joist	1	10' 10 1/2"	45, 0
K	Rim Joist	1	8' 9"	0, 0	W	Internal Joist	4	9' 7 1/4"	0, 0
L	Header	1	18' 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
Railing Post	1	4X4X8 Treated	TREATED
Railing Post	2	4X4X18 Treated	TREATED
Railing Section	13	TimberTech 6' RadianceRail Rail Pack - Mountain Cedar - 6'	TIMBERTECH
Railing Section	13	TT/AZEK 29" Square Composite Baluster - Mountain Cedar - 31"	TIMBERTECH
Cladding	10	TimberTech Earthwood Evolutions® Tropical Fascia Board - Pacific Rosewood - 12'	TIMBERTECH
Decking	38	TimberTech Earthwood Evolutions® Tropical Deck Plank, Grooved - Pacific Rosewood - 12'	TIMBERTECH
Decking	19	TimberTech Earthwood Evolutions® Tropical Deck Plank, Grooved - Pacific Rosewood - 16'	TIMBERTECH
Header	4	2X8X16 Treated	TREATED
Rim Joist	11	2X8X10 Treated	TREATED
Internal Joist	12	2X8X8 Treated	TREATED
Internal Joist	7	2X8X12 Treated	TREATED
Internal Joist	6	2X8X18 Treated	TREATED
Beam	10	2X10X10 Treated	TREATED
Beam	1	2X10X14 Treated	TREATED
Beam	1	2X10X16 Treated	TREATED
Beam	2	2X10X18 Treated	TREATED
Post	18	4X4X8 Treated	TREATED
Riser	3	TimberTech Earthwood Evolutions® Tropical Riser Board - Pacific Rosewood - 12'	TIMBERTECH
Internal Joist	1	2X8X14 Treated	TREATED
Railing Post	1	4X4X14 Treated	TREATED
Decking	5	TimberTech Earthwood Evolutions® Tropical Deck Plank, Grooved - Pacific Rosewood - 20'	TIMBERTECH

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

Other Materials

Qty	Description
8	1 LB. 10D Hot-Dip Galvanized Nail
2	1LB. 16D Galvanized Common Nail
8	2x6-8" Triple Zinc Right Skewed Joist Hanger SKH26R-TZ
6	2x6-8" Triple Zinc Left Skewed Joist Hanger SKH26L-TZ
3	1 LB. 10D X1 1/2" Nail
46	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
70	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
2	40 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
19	7" Triple Zinc Angle Clip AC7-TZ
30	4X4 Triple Zinc Deck Post Tie SDPT7-TZ
1	1 LB. 8X3" Philips Head Stainless Deck Screws
15	TimberTech 5" Post Skirt - Mountain Cedar
60	3/8 Galvanized Hex Nut
120	3/8 Galvanized Flat Washer
60	3/8 X 8" Galvanized Carriage Bolt
15	TimberTech 5" x 5" Post Sleeve - Mountain Cedar - 42"
15	TimberTech 5" LED Post Cap Light
15	TimberTech 5" Post Cap - Mountain Cedar
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
13	TT/AZEK LED In Deck Light (8 Packs of 4 per Unit) - Architectural Bronze
1	TimberTech Cortex - 100 LF Evolutions Pacific Rosewood - Pacific Rosewood
1	TimberTech TOPLoc Fascia Bit
2	TimberTech TOPLoc Fascia Pack Rosewood - Pacific Rosewood
4	TimberTech CONCEALoc Hidden Fastener - Unit = 8 retail cartons @ 100 sq.ft. coverage each (175 CONCEALoc fasteners, 184 Screws and drive bit) - Brown
20	1/2 X 6" Galvanized Lag Screw

Qty	Description
5	7" Triple Zinc Angle Clip AC7-TZ
2	THR128-HDG Threaded Rod
4	DTB-TZ Deck Tie Bracket
1	10 LB. Basic Concrete Mix
2	2 Pieces of Joist Material Nailed to Each Joist Splice

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.

AZEK Building Products and its affiliates assume no responsibility for any damages, including direct or consequential, personal injuries suffered, or property or economic losses incurred as a result of the information published within this Deck Design, AZEK Building Products and its affiliate websites or Deck Design Detail Report. Before beginning any project, review the instructions carefully. We cannot anticipate all of your working conditions or the characteristics of your materials and tools. For your safety, you should consider your own skill level and use caution, care and good judgment when following the instructions. If you have doubts, concerns or questions, consult local experts, architects, soil engineers or building authorities. Because local zoning and building codes and regulations vary greatly, you should ALWAYS CHECK WITH LOCAL AUTHORITIES TO ENSURE THAT YOUR PROJECT COMPLIES WITH ALL APPLICABLE CODES AND REGULATIONS. Always read and observe instructions and safety precautions provided by any tool or equipment manufacturer, and follow all accepted safety procedures.

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.

AZEK Building Products and its affiliates assume no liability or responsibility for your design, construction or use of any product supplied by AZEK Building Products.

YOU ASSUME TOTAL RESPONSIBILITY AND RISK FOR YOUR USE OF THE AZEK BUILDING PRODUCTS DESIGN, THE AZEK BUILDING PRODUCTS WEBSITE AND SUPPLIED DECK DESIGN DETAIL REPORT. AZEK BUILDING PRODUCTS PROVIDES THIS WEB-BASED TOOL, ALL INFORMATION, PRODUCTS, AND SERVICES "AS IS" AND DOES NOT MAKE EXPRESS OR IMPLIED WARRANTIES, REPRESENTATIONS, OR ENDORSEMENTS OF ANY KIND WHATSOEVER (INCLUDING WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE).