

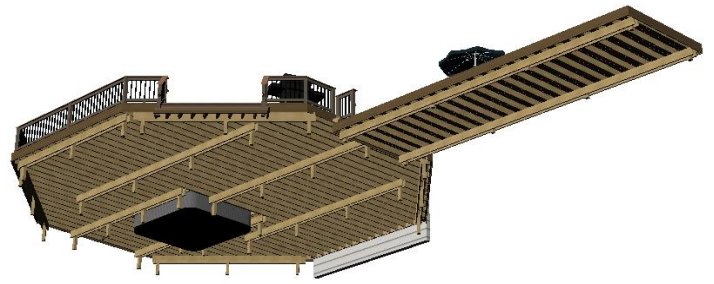


Deck Designer Specification Kit For
TimberTech

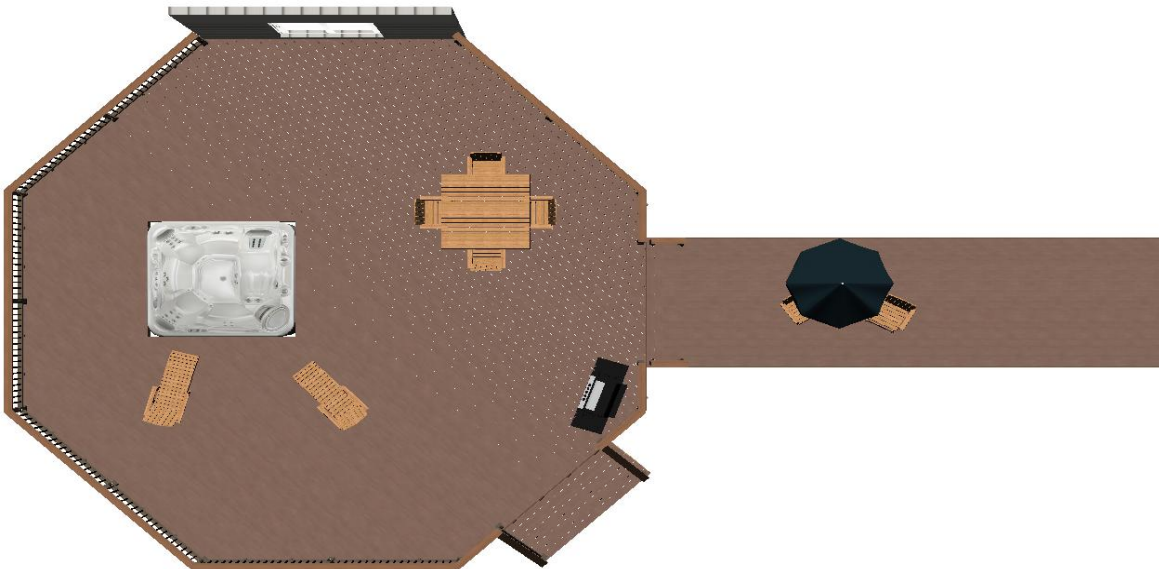
Deck layout diagram



Top view without planks

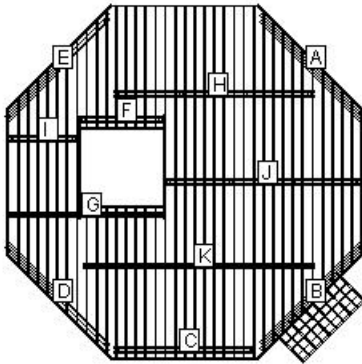


Bottom view with planks



Top view with planks

Permit Page: Level 1



LOAD AND SUPPORT:

Your deck will support a 42 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.

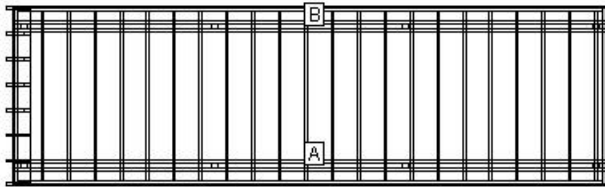
Joists:

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

Stress Analysis: Level 1

Joist Deflection	137
Joist Bending	56
Joist Shear	114
Joist Compression	114
Beam Deflection	244
Beam Bending	61
Beam Shear	52
Post Stability	96

Permit Page: Level 2



LOAD AND SUPPORT:

Your deck will support a 61 PSF live load.
Posts have 36" below ground support.

DECK AND POST HEIGHT:

You selected a height of 22" from the top of the decking to the ground level. The top of the deck support posts will therefore be 13" above ground level.

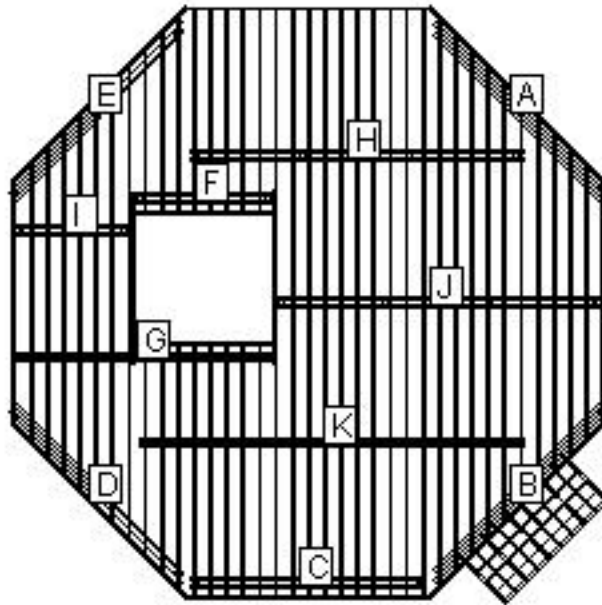
Joists:

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

Stress Analysis: Level 2

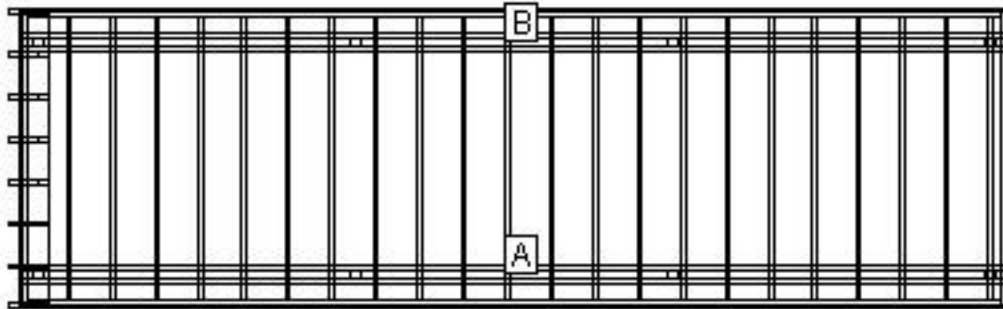
Joist Deflection	494
Joist Bending	118
Joist Shear	135
Joist Compression	135
Beam Deflection	175
Beam Bending	71
Beam Shear	74
Post Stability	151

Beam Layout Level 1



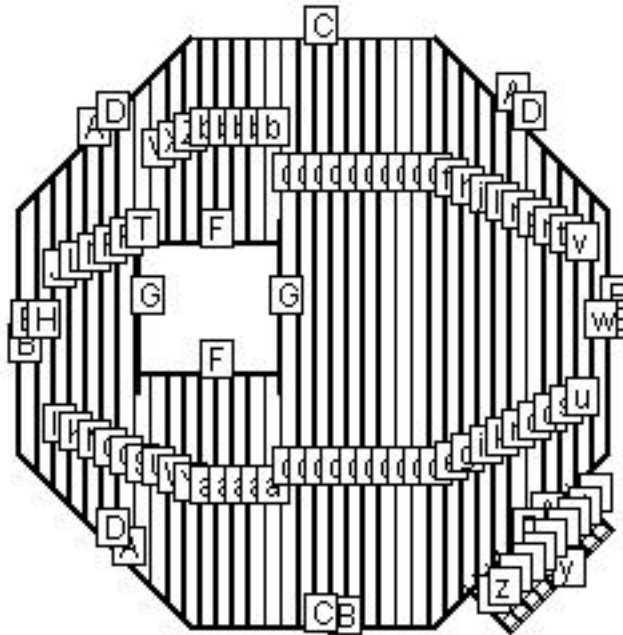
BEAM LABEL	BEAM LENGTH	POST COUNT	POST SPACING
A	14' 8 1/2"	3	6' 8 3/4"
B	14' 8 1/2"	3	6' 8 3/4"
C	14' 6"	3	6' 9 1/4"
D	14' 10 1/4"	3	6' 9 1/2"
E	14' 10 1/4"	3	6' 9 1/2"
F	8' 9"	2	7' 9 1/2"
G	16' 1/4"	4	5' 1/4"
H	20' 6"	4	6' 6 1/4"
I	7' 3"	2	6' 3 1/2"
J	20' 1 1/2"	4	6' 4 3/4"
K	23' 6"	4	7' 6 1/4"

Beam Layout Level 2



BEAM LABEL	BEAM LENGTH	POST COUNT	POST SPACING
A	29' 10 1/4"	4	9' 7 1/2"
B	29' 10 1/4"	4	9' 7 1/2"

Materials Cut List: Level 1



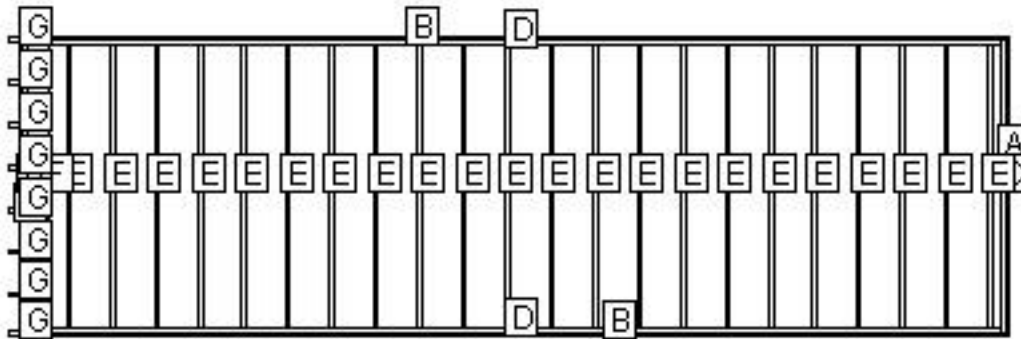
LABEL	NAME	QTY	LENGTH	BEVELS	LABEL	NAME	QTY	LENGTH	BEVELS
A	Cladding	4	14' 11 1/2"	23, 23	b	Internal Joist	5	12' 5"	0, 0
B	Cladding	3	15'	23, 23	c	Internal Joist	10	17' 10 1/2"	0, 0
C	Header	2	14' 11 1/4"	0, 0	d	Internal Joist	10	17' 10 3/4"	0, 0
D	Header	4	14' 11"	0, 0	e	Internal Joist	1	17' 4"	45, 45
E	Rim Joist	2	14' 11 1/4"	0, 0	f	Internal Joist	1	17' 4"	45, 45
F	Header	2	8' 6"	0, 0	g	Internal Joist	1	16' 4"	45, 45
G	Rim Joist	2	10' 5 1/2"	0, 0	h	Internal Joist	1	16' 4"	45, 45
H	Internal Joist	1	16' 10"	45, 45	i	Internal Joist	1	15' 4"	45, 45
I	Internal Joist	1	6' 1"	45, 45	j	Internal Joist	1	15' 4"	45, 45
J	Internal Joist	1	12' 9"	45, 45	k	Internal Joist	1	14' 4"	45, 45
K	Internal Joist	1	7' 1"	45, 45	l	Internal Joist	1	14' 4"	45, 45
L	Internal Joist	1	13' 9"	45, 45	m	Internal Joist	1	13' 4"	45, 45

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

LABEL	NAME	QTY	LENGTH	BEVELS	LABEL	NAME	QTY	LENGTH	BEVELS
M	Internal Joist	1	8' 1"	45, 45	n	Internal Joist	1	13' 4"	45, 45
N	Internal Joist	1	14' 9"	45, 45	o	Internal Joist	1	12' 4"	45, 45
O	Internal Joist	1	9' 1"	45, 45	p	Internal Joist	1	12' 4"	45, 45
P	Internal Joist	1	15' 9"	45, 45	q	Internal Joist	1	11' 4"	45, 45
Q	Internal Joist	1	10' 1"	45, 45	r	Internal Joist	1	11' 4"	45, 45
R	Internal Joist	1	16' 9"	45, 45	s	Internal Joist	1	10' 4"	45, 45
S	Internal Joist	1	11' 1"	45, 45	t	Internal Joist	1	10' 4"	45, 45
T	Internal Joist	1	17' 9"	45, 45	u	Internal Joist	1	9' 4"	45, 45
U	Internal Joist	1	12' 11 1/2"	0, 45	v	Internal Joist	1	9' 4"	45, 45
V	Internal Joist	1	9' 11 1/2"	45, 0	w	Internal Joist	1	16' 7 1/2"	45, 45
W	Internal Joist	1	13' 11 1/2"	0, 45	x	Riser	2	8' 11 1/4"	0, 0
X	Internal Joist	1	10' 11 1/2"	45, 0	y	Riser	2	8' 11 1/4"	0, 0
Y	Internal Joist	1	14' 11 1/2"	0, 45	z	Pre Cut Stringer	8	4' 2"	0, 0
Z	Internal Joist	1	11' 11 1/2"	45, 0	1	Pre Cut Stringer	2	4' 2"	0, 0
a	Internal Joist	5	15' 5 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	2	9'	45, 45	E	Internal Joist	22	8' 7 1/4"	0, 0
B	Cladding	2	30'	45, 45	F	Riser	1	9'	0, 0
C	Rim Joist	2	8' 10 1/4"	0, 0	G	Stringer	8	1' 1 1/4"	0, 0
D	Header	2	29' 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.

Lumber Materials

COMPONENT	QTY	DESCRIPTION	WOOD TYPE
Rim Joist	20	2X8X16 Treated	TREATED
Internal Joist	44	2X8X18 Treated	TREATED
Internal Joist	3	2X8X8 Treated	TREATED
Internal Joist	13	2X8X14 Treated	TREATED
Internal Joist	6	2X8X10 Treated	TREATED
Internal Joist	12	2X8X12 Treated	TREATED
Beam	12	2X10X16 Treated	TREATED
Beam	6	2X10X10 Treated	TREATED
Beam	2	2X10X18 Treated	TREATED
Beam	8	2X10X8 Treated	TREATED
Beam	4	2X10X14 Treated	TREATED
Pre Cut Stringer	10	4-Step Treated Stair Stringer	TREATED
Hand Rail	2	TimberTech Earthwood Evolutions® Tropical Deck Plank, Square Shouldered - Pacific Walnut - 16'	TIMBERTECH
Hand Rail	5	TimberTech Earthwood Evolutions® Tropical Deck Plank, Square Shouldered - Pacific Walnut - 20'	TIMBERTECH
Railing Post	1	4X4X12 Treated	TREATED
Railing Post	5	4X4X16 Treated	TREATED
Railing Section	2	TimberTech Evolutions BuilderBoard, packaged as 2 - 6' boards - Traditional Walnut - 6'	TIMBERTECH
Railing Section	12	TimberTech Evolutions BuilderBoard, packaged as 2 - 8' boards - Traditional Walnut - 8'	TIMBERTECH
Railing Section	13	TimberTech 36" Metal Baluster Pack - 25" Baluster Height - Black - 6'/8'	TIMBERTECH
Cladding	16	TimberTech Earthwood Evolutions® Legacy Fascia Board - Pecan - 12'	TIMBERTECH
Decking	12	TimberTech Earthwood Evolutions® Terrain Collection Deck Plank, Grooved - Brown Oak - 12'	TIMBERTECH
Decking	3	TimberTech Earthwood Evolutions® Terrain Collection Deck Plank, Grooved - Brown Oak - 16'	TIMBERTECH
Decking	137	TimberTech Earthwood Evolutions® Terrain Collection Deck Plank, Grooved - Brown Oak - 20'	TIMBERTECH
Post	14	4X4X8 Treated	TREATED

Lumber Materials

COMPONENT	QTY	DESCRIPTION	WOOD TYPE
Riser	5	TimberTech Earthwood Evolutions® Legacy Riser Board - Pecan - 12'	TIMBERTECH
Railing Section	2	TimberTech 36" Metal Baluster Stair Pack - 23.75" Baluster Height - Black - 6'/8'	TIMBERTECH
Beam	8	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
1	5 LB. 10D Hot-Dip Galvanized Nail
8	1 LB. 10D Hot-Dip Galvanized Nail
4	1LB. 16D Galvanized Common Nail
20	2x6-8" Triple Zinc Right Skewed Joist Hanger SKH26R-TZ
20	2x6-8" Triple Zinc Left Skewed Joist Hanger SKH26L-TZ
5	1 LB. 10D X1 1/2" Nail
90	2x8-10" Triple Zinc Joist Hanger JUS28-TZ
4	5" Triple Zinc Angle Clip MP5-TZ
2	THR128-HDG Threaded Rod
4	DTB-TZ Deck Tie Bracket
1	5 LB. 8D Galvanized Nail
4	1LB. 8D Galvanized Common Nail
1	5 LB. 1-1/2" Joist Hanger Nail
3	1 LB. 1-1/2" Joist Hanger Nail
208	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
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
18	7" Triple Zinc Angle Clip AC7-TZ
46	4X4 Triple Zinc Deck Post Tie SDPT7-TZ
1	1 LB. 8X3" Philips Head Stainless Deck Screws
23	TimberTech Evolutions Rail 5"x5" Post Skirt - Traditional Walnut
92	3/8 Galvanized Hex Nut
184	3/8 Galvanized Flat Washer
92	3/8 X 8" Galvanized Carriage Bolt
46	TimberTech Evolutions Rail Hardware Mounting Kit - Traditional Walnut
23	TimberTech Evolutions Rail 5"x5" Post Cover - Traditional Walnut - 42"
1	TT/AZEK Decklites Dimmer
1	TT/AZEK Wire Guide - 60 Packs of 12 ea.
3	TT/AZEK 100' wire 16/2
23	TT/AZEK LED Accent Light - Architectural Bronze
1	TT/AZEK Transformer - 12 Volt 150 W
46	TimberTech Evolutions Rail Foot Block - Traditional Walnut
25	2 Pieces of Joist Material Nailed to Each Joist Splice

Qty	Description
24	TT/AZEK LED Riser Light - Architectural Bronze
1	TimberTech TOPLoc 100 Sq. Ft. Pack Walnut - Walnut
1	TimberTech TOPLoc Fascia Bit
3	TimberTech TOPLoc Fascia Pack Teak - Teak
1	TimberTech CONCEALoc Hidden Fastener - Bulk Bucket = 1,000 sq. ft. coverage (1750 CONCEALoc fasteners) - Brown
4	TimberTech CONCEALoc Hidden Fastener - Unit = 8 retail cartons @ 100 sq.ft. coverage each (175 CONCEALoc fasteners, 184 Screws and drive bit) - Brown
30	1/2 X 6" Galvanized Lag Screw
4	7" Triple Zinc Angle Clip AC7-TZ
1	60 L.B. Basic Concrete Mix
2	10 LB. 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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