



Deck Designer Specification Kit For
TimberTech

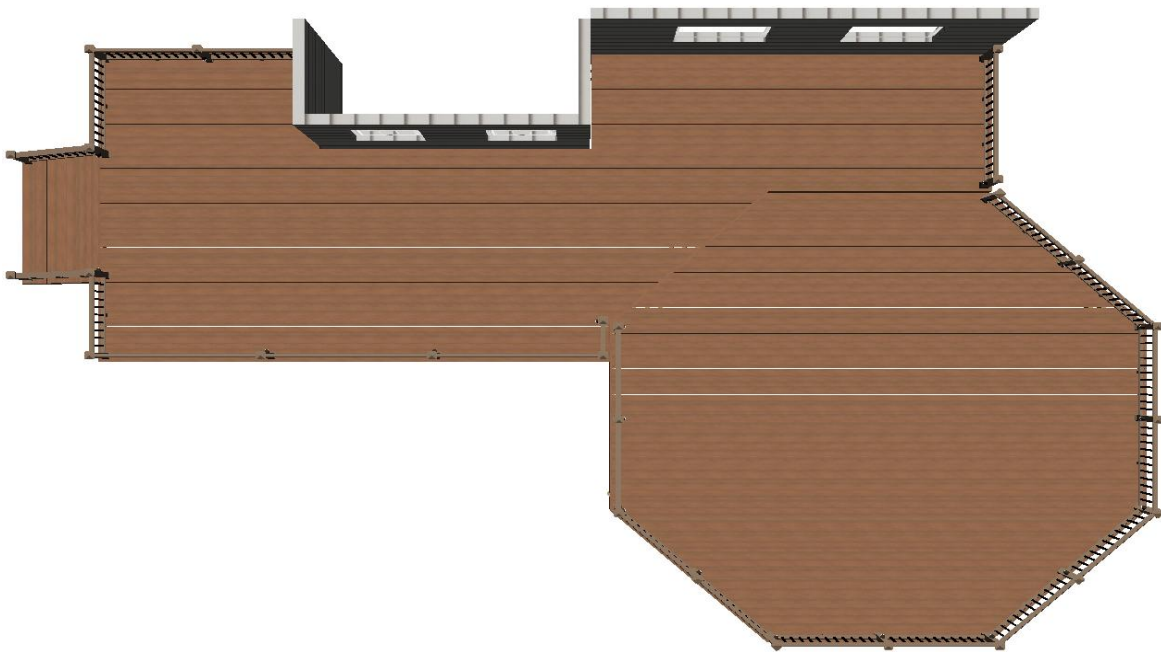
Deck layout diagram



Top view without planks

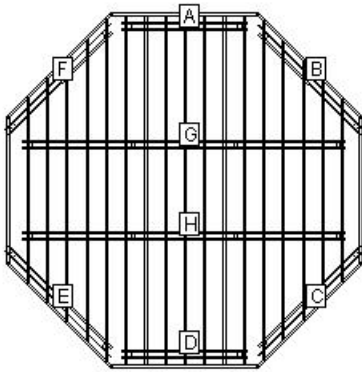


Bottom view with planks



Top view with planks

Permit Page: Level 1



LOAD AND SUPPORT:

Your deck will support a 59 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.

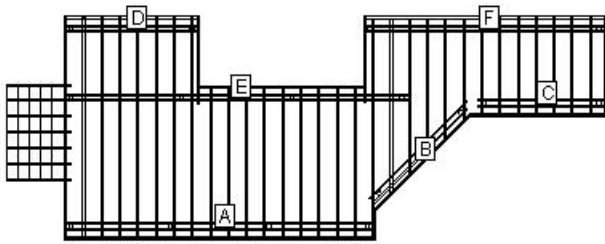
Joists:

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

Stress Analysis: Level 1

Joist Deflection	286
Joist Bending	83
Joist Shear	115
Joist Compression	115
Beam Deflection	215
Beam Bending	75
Beam Shear	69
Post Stability	130

Permit Page: Level 2



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 43" from the top of the decking to the ground level. The top of the deck support posts will therefore be 34" above ground level.

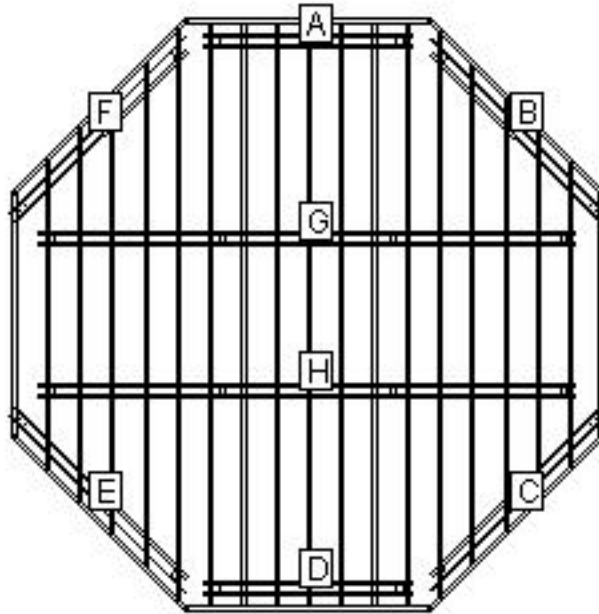
Joists:

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

Stress Analysis: Level 2

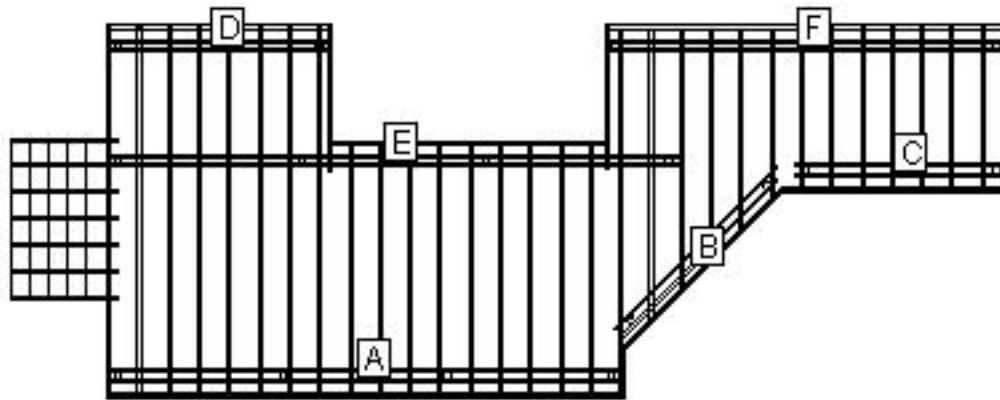
Joist Deflection	152
Joist Bending	55
Joist Shear	95
Joist Compression	95
Beam Deflection	210
Beam Bending	61
Beam Shear	55
Post Stability	109

Beam Layout Level 1



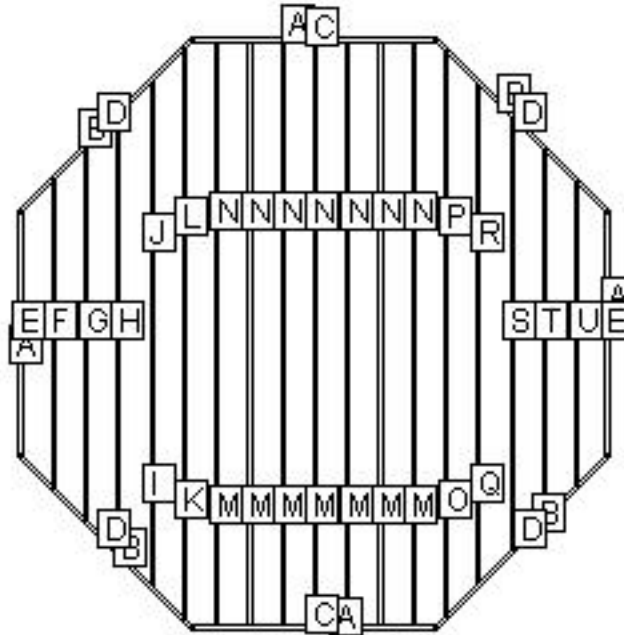
BEAM LABEL	BEAM LENGTH	POST COUNT	POST SPACING
A	8' 6"	2	7' 6 1/2"
B	10'	2	8' 9"
C	10'	2	8' 9"
D	8' 6"	2	7' 6 1/2"
E	10' 1 1/2"	2	8' 10 1/2"
F	10' 1 1/2"	2	8' 10 1/2"
G	21' 10"	4	6' 11 1/2"
H	21' 10"	4	6' 11 1/2"

Beam Layout Level 2



BEAM LABEL	BEAM LENGTH	POST COUNT	POST SPACING
A	22' 9 1/4"	4	7' 3 1/4"
B	9' 7 1/2"	2	8' 4 1/2"
C	9' 5 1/4"	2	8' 5 3/4"
D	9' 10 1/4"	2	8' 10 3/4"
E	25' 4"	4	8' 1 1/2"
F	17' 10 1/4"	3	8' 5 1/2"

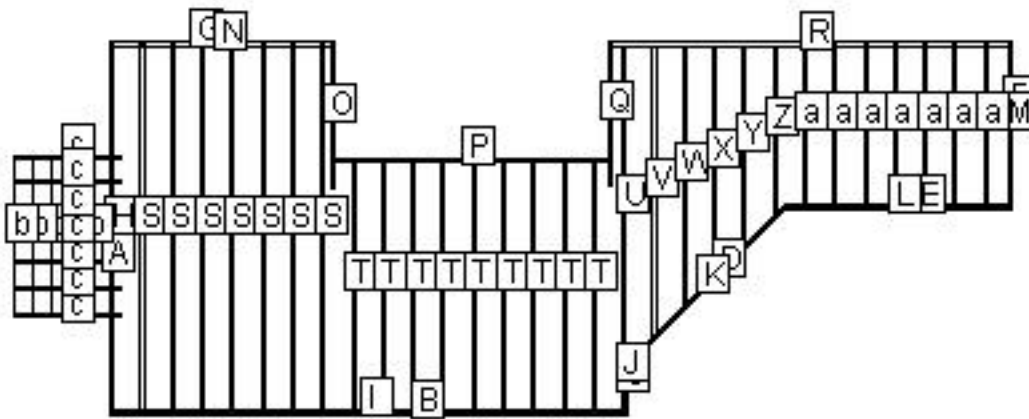
Materials Cut List: Level 1



LABEL	NAME	QTY	LENGTH	BEVELS	LABEL	NAME	QTY	LENGTH	BEVELS
A	Cladding	4	10'	23, 23	L	Internal Joist	1	14' 8"	45, 45
B	Cladding	4	10' 1/4"	23, 23	M	Internal Joist	7	8' 9 1/2"	0, 0
C	Header	2	9' 11 1/4"	0, 0	N	Internal Joist	7	14' 11 3/4"	0, 0
D	Header	4	9' 11 1/2"	0, 0	O	Internal Joist	1	8' 5"	45, 45
E	Rim Joist	2	9' 11 1/4"	0, 0	P	Internal Joist	1	14' 7"	45, 45
F	Internal Joist	1	12' 6"	45, 45	Q	Internal Joist	1	7' 1"	45, 45
G	Internal Joist	1	15' 2"	45, 45	R	Internal Joist	1	13' 3"	45, 45
H	Internal Joist	1	17' 10"	45, 45	S	Internal Joist	1	17' 7 1/2"	45, 45
I	Internal Joist	1	7' 2"	45, 45	T	Internal Joist	1	14' 11 1/2"	45, 45
J	Internal Joist	1	13' 4"	45, 45	U	Internal Joist	1	12' 3 1/2"	45, 45
K	Internal Joist	1	8' 6"	45, 45					

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	16' 6"	45, 45	P	Header	1	12' 4 3/4"	0, 0
B	Cladding	1	22' 11"	45, 45	Q	Rim Joist	1	6' 3 3/4"	0, 0
C	Cladding	1	2' 1/4"	45, 23	R	Header	1	17' 7 1/4"	0, 0
D	Cladding	1	10' 1"	23, 23	S	Internal Joist	7	16' 1 1/4"	0, 0
E	Cladding	1	10' 1/4"	23, 45	T	Internal Joist	9	11' 1/4"	0, 0
F	Cladding	1	7' 5"	45, 45	U	Internal Joist	1	14' 2 1/2"	0, 45
G	Cladding	1	10'	45, 45	V	Internal Joist	1	12' 10 1/2"	0, 45
H	Rim Joist	1	16' 4 1/4"	0, 0	W	Internal Joist	1	11' 6 1/2"	0, 45
I	Header	1	22' 6 1/4"	0, 0	X	Internal Joist	1	10' 2 1/2"	0, 45
J	Rim Joist	1	3' 2 1/4"	0, 0	Y	Internal Joist	1	8' 10 1/2"	0, 45
K	Header	1	10' 1"	0, 0	Z	Internal Joist	1	7' 6 1/2"	0, 45
L	Header	1	9' 10"	0, 0	a	Internal Joist	7	7' 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	7' 3 1/4"	0, 0	b	Riser	5	7' 2"	0, 0
N	Header	1	9' 7 1/4"	0, 0	c	Pre Cut Stringer	7	5' 1 1/2"	0, 0
O	Rim Joist	1	6' 4 3/4"	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	5	2X8X14 Treated	TREATED
Internal Joist	13	2X8X16 Treated	TREATED
Internal Joist	15	2X8X18 Treated	TREATED
Internal Joist	9	2X8X8 Treated	TREATED
Internal Joist	19	2X8X10 Treated	TREATED
Beam	16	2X10X10 Treated	TREATED
Beam	4	2X10X12 Treated	TREATED
Beam	6	2X10X8 Treated	TREATED
Beam	6	2X10X16 Treated	TREATED
Railing Post	1	4X4X12 Treated	TREATED
Railing Post	4	4X4X18 Treated	TREATED
Railing Section	18	TimberTech 6' RadianceRail Custom Rail Pack - Brownstone - 6'	TIMBERTECH
Railing Section	20	TT/AZEK 31" Round Aluminum Baluster - Black - 31"	TIMBERTECH
Cladding	16	TimberTech Earthwood Evolutions® Tropical Fascia Board - Pacific Walnut - 12'	TIMBERTECH
Decking	20	TimberTech Earthwood Evolutions® Tropical Deck Plank, Grooved - Pacific Walnut - 12'	TIMBERTECH
Decking	53	TimberTech Earthwood Evolutions® Tropical Deck Plank, Grooved - Pacific Walnut - 16'	TIMBERTECH
Decking	59	TimberTech Earthwood Evolutions® Tropical Deck Plank, Grooved - Pacific Walnut - 20'	TIMBERTECH
Gusset	12	2X8X12 Treated	TREATED
Post	16	4X4X8 Treated	TREATED
Beam	4	2X10X18 Treated	TREATED
Pre Cut Stringer	7	5-Step Treated Stair Stringer	TREATED
Railing Post	1	4X4X14 Treated	TREATED
Railing Section	4	TimberTech 8' RadianceRail Custom Rail Pack - Brownstone - 8'	TIMBERTECH
Riser	5	TimberTech Earthwood Evolutions® Tropical Riser Board - Pacific Walnut - 12'	TIMBERTECH



Lumber Materials

COMPONENT	QTY	DESCRIPTION	WOOD TYPE
Railing Section	2	TT/AZEK 31" Round Aluminum Stair Baluster - Black - 31"	TIMBERTECH

To find an AZEK and/or TimberTech Dealer or Contractor in your area, please go to www.timbertech.com

Other Materials

Qty	Description
5	1 LB. 10D Hot-Dip Galvanized Nail
3	1LB. 16D Galvanized Common Nail
10	2x6-8" Triple Zinc Right Skewed Joist Hanger SKH26R-TZ
16	2x6-8" Triple Zinc Left Skewed Joist Hanger SKH26L-TZ
3	1 LB. 10D X1 1/2" Nail
66	2x8-10" Triple Zinc Joist Hanger JUS28-TZ
5	5" Triple Zinc Angle Clip MP5-TZ
7	1LB. 8D Galvanized Common Nail
5	1 LB. 1-1/2" Joist Hanger Nail
146	Triple Zinc Rafter Tie RT7-TZ
37	Anchor Bolt AB128
37	4X4 Triple Zinc Deck Post Anchor PA44E-TZ
59	80 L.B. Basic Concrete Mix
3	10 LB. Basic Concrete Mix
28	8" X 48" Concrete Form Tube
592	1/2 Galvanized Flat Washer
12	1/2 Galvanized Hex Nut
296	1/2 X 8" Galvanized Carriage Bolt
54	4X4 Triple Zinc Deck Post Tie SDPT7-TZ
1	1 LB. 8X3" Philips Head Stainless Deck Screws
27	TimberTech 5" Post Skirt - Brownstone
108	3/8 Galvanized Hex Nut
216	3/8 Galvanized Flat Washer
108	3/8 X 8" Galvanized Carriage Bolt
27	TimberTech 5" x 5" Post Sleeve - Brownstone - 42"
27	TimberTech 5" Post Cap - Brownstone
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
11	2 Pieces of Joist Material Nailed to Each Joist Splice
1	TimberTech TOPLoc Fascia Bit
3	TimberTech TOPLoc Fascia Pack Walnut - Walnut
10	TimberTech CONCEALoc Hidden Fastener - Unit = 8 retail cartons @ 100 sq.ft. coverage each (175 CONCEALoc fasteners, 184 Screws and drive bit) - Brown
2	TimberTech Cortex - 100 LF Evolutions Pacific Walnut - Pacific Walnut
1	5 LB. 10D Hot-Dip Galvanized Nail
7	7" Triple Zinc Angle Clip AC7-TZ

Qty	Description
1	40 LB. Basic Concrete Mix
7	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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