





Deck Designer Specification Kit For

**AZEK** 





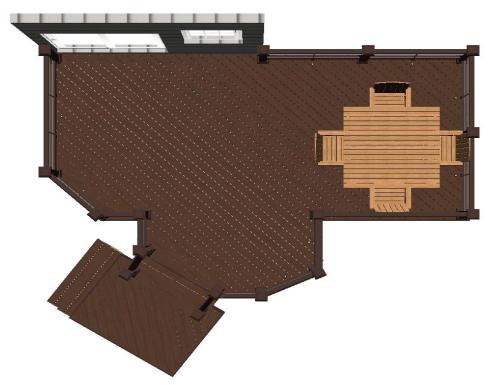
# **Deck layout diagram**





Top view without planks

Bottom view with planks

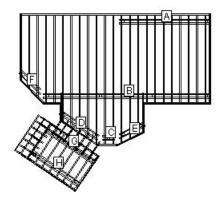


Top view with planks





Permit Page: Level 1



#### **LOAD AND SUPPORT:**

Your deck will support a 45 PSF live load. Posts have 36" below ground support.

### **DECK AND POST HEIGHT:**

You selected a height of 42" from the top of the decking to the ground level. The top of the deck support posts will therefore be 33" above ground level.

#### Joists:

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

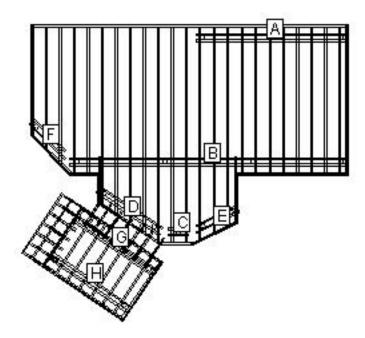
Stress Anavsis: Level 1

/313. ECVCI 1
15793
893
540
540
130
55
59
140





# **Beam Layout Level 1**

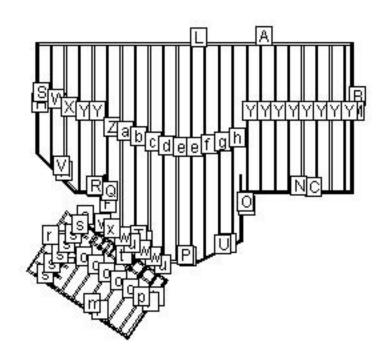


BEAM LABEL	BEAM LENGTH	POST COUNT	POST SPACING
Α	10' 10 1/4"	2	9' 10 3/4"
В	19' 10 1/4"	4	6' 3 1/2"
С	1' 6"	1	0
D	5' 5 1/2"	2	4' 3 3/4"
E	3' 4 3/4"	2	2' 3 1/2"
F	3' 6 1/2"	2	2' 3 1/2"
G	6' 10 1/4"	2	5' 10 3/4"
Н	6' 10 1/4"	2	5' 10 3/4"





# **Materials Cut List: Level 1**



LABEL	NAME	QTY	LENGTH	BEVELS	LABEL	NAME	QTY	LENGTH	BEVELS
Α	Cladding	1	11' 2"	45, 0	Z	Internal Joist	1	12' 7 3/4"	0, 34
В	Cladding	1	10' 10"	45, 45	а	Internal Joist	1	13' 4"	0, 34
С	Cladding	1	8'	45, 45	b	Internal Joist	1	14'	0, 34
D	Cladding	1	3' 6"	32, 45	С	Internal Joist	1	14' 8 1/4"	0, 34
E	Cladding	1	2' 4"	17, 13	d	Internal Joist	1	15' 4 1/4"	0, 34
F	Cladding	1	2' 1"	45, 28	е	Internal Joist	2	15' 5 1/4"	0, 0
G	Cladding	1	2' 1"	23, 45	f	Internal Joist	1	15' 2"	0, 26
Н	Cladding	1	8'	45, 23	g	Internal Joist	1	14' 8 1/4"	0, 26
1	Cladding	1	5' 4"	28, 17	h	Internal Joist	1	14' 2 1/2"	0, 26
J	Cladding	1	3' 7 1/2"	13, 32	i	Cladding	2	7'	45, 45
K	Cladding	1	4'	23, 23	j	Cladding	2	5' 1 1/2"	45, 45
L	Header	1	22' 4 1/4"	0, 0	k	Header	1	6' 7 1/4"	0, 0

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

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## DECK DESIGNER



LABEL	NAME	QTY	LENGTH	BEVELS	LABEL	NAME	QTY	LENGTH	BEVELS
	D: 1 · .		40104/48	0.0		B: 1:4			0.0
M	Rim Joist	1	10' 8 1/4"	0, 0	ı	Rim Joist	1	5'	0, 0
N	Header	1	7' 11"	0, 0	m	Header	1	6' 7 1/4"	0, 0
0	Rim Joist	1	4' 8"	0, 0	n	Rim Joist	1	5'	0, 0
Р	Header	1	2' 3 1/2"	0, 0	0	Internal Joist	5	4' 9"	0, 0
Q	Rim Joist	1	3' 4 1/4"	0, 0	p	Internal Joist	1	4' 9"	0, 0
R	Header	1	2' 2"	0, 0	q	Riser	1	5' 1 1/2"	0, 0
S	Rim Joist	1	7' 11"	0, 0	r	Riser	1	5' 1 1/2"	0, 0
T	Header	1	5' 3 1/4"	0, 0	S	Pre Cut Stringer	7	1' 10 1/2"	0, 0
U	Header	1	3' 6 3/4"	0, 0	t	Riser	2	5' 4"	0, 0
V	Header	1	3' 11 1/4"	0, 0	u	Pre Cut Stringer	2	2' 3 1/2"	0, 0
W	Internal Joist	1	8' 8 3/4"	0, 45	V	Pre Cut Stringer	1	2' 3 1/2"	0, 0
Χ	Internal Joist	1	9' 8 3/4"	0, 45	W	Pre Cut Stringer	3	2' 3 1/2"	0, 0
Υ	Internal Joist	10	10' 5 1/4"	0, 0	Х	Pre Cut Stringer	1	2' 3 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	<b>WOOD TYPE</b>
Internal Joist	3	2X8X14 Treated	TREATED
Internal Joist	15	2X8X16 Treated	TREATED
Beam	2	2X10X12 Treated	TREATED
Beam	6	2X10X8 Treated	TREATED
Beam	2	2X10X14 Treated	TREATED
Pre Cut Stringer	14	2-Step Treated Stair Stringer	TREATED
Railing Post	1	4X4X8 Treated	TREATED
Railing Post	3	4X4X18 Treated	TREATED
Railing Section	7	AZEK 8' Premier Custom Rail Pack - Kona® - 8'	AZEK
Baluster	10	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	AZEK
Cladding	8	AZEK Harvest Collection® Rim Joist Covers/Fasica - Kona® - 12'	AZEK
Decking	35	AZEK XLM® Deck Plank, Grooved - RusticBark - 16'	AZEK
Decking	10	AZEK XLM® Deck Plank, Grooved - RusticBark - 20'	AZEK
Header	2	2X8X8 Treated	TREATED
Header	3	2X8X18 Treated	TREATED
Internal Joist	2	2X8X10 Treated	TREATED
Internal Joist	4	2X8X12 Treated	TREATED
Post	7	4X4X8 Treated	TREATED
Beam	1	2X10X10 Treated	TREATED
Beam	1	2X10X18 Treated	TREATED
Riser	2	AZEK Harvest Collection® Rim Joist Covers/Fasica - Kona® - 12'	AZEK
Stair Step	1	AZEK XLM® Deck Plank, Grooved - RusticBark - 12'	AZEK
Railing Section	1	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	AZEK





## **DECK DESIGNER**

To find an AZEK and/or TimberTech Dealer or Contractor in your area, please go to <a href="https://www.azek.com">www.azek.com</a>





## **Other Materials**

Qty	Description
1	TT/AZEK CableRail 500' Stainless Steel Cable - Stainless - 500'
1	TT/AZEK CableRail 100' Stainless Steel Cable - Stainless - 100'
3	1 LB. 10D X1 1/2" Nail
1	5 LB. 10D Hot-Dip Galvanized Nail
2	1 LB. 10D Hot-Dip Galvanized Nail
47	2x8-10" Triple Zinc Joist Hanger JUS28-TZ
1	1LB. 16D Galvanized Common Nail
2	2x6-8" Triple Zinc Right Skewed Joist Hanger SKH26R-TZ
14	5" Triple Zinc Angle Clip MP5-TZ
7	7" Triple Zinc Angle Clip AC7-TZ
3	5" Triple Zinc Angle Clip MP5-TZ
2	THR128-HDG Threaded Rod
4	DTB-TZ Deck Tie Bracket
3	1LB. 8D Galvanized Common Nail
2	1 LB. 1-1/2" Joist Hanger Nail
66	Triple Zinc Rafter Tie RT7-TZ
17	Anchor Bolt AB128
17	4X4 Triple Zinc Deck Post Anchor PA44E-TZ
27	80 L.B. Basic Concrete Mix
1	40 LB. Basic Concrete Mix
13	8" X 48" Concrete Form Tube
272	1/2 Galvanized Flat Washer
6	1/2 Galvanized Hex Nut
136	1/2 X 8" Galvanized Carriage Bolt
14	7" Triple Zinc Angle Clip AC7-TZ
34	4X4 Triple Zinc Deck Post Tie SDPT7-TZ
1	1 LB. 8X3" Philips Head Stainless Deck Screws
17	AZEK 5 1/2" Post Skirt - Kona®
68	3/8 Galvanized Hex Nut
136	3/8 Galvanized Flat Washer
68	3/8 X 8" Galvanized Carriage Bolt
17	AZEK 5 1/2" LED Lighted Island Cap - Kona®
17	AZEK 5.5" x 5.5" Post Sleeve - Kona® - 39"
1	TT/AZEK CableRail Cable Cutters
1	TT/AZEK CableRail Accessory Kit [Quick-Connect release tool, lacing needle, hanger bolt installation tool] -
15	TT/AZEK CableRail 36" Hardware Kit [9 Quick-Connect fittings, 9 Quick Connect Swivel fittings, 18 hanger bolts, 9 lock nuts] - Stainless
9	TT/AZEK LED In Deck Light (8 Packs of 4 per Unit) - Architectural Bronze





## DECK DESIGNER

Qty	Description
1	TT/AZEK Decklites Dimmer
1	TT/AZEK 100' wire 16/2
1	TT/AZEK Transformer - 12 Volt 150 W
1	TT/AZEK CableRail Protector Sleeves [Pack of 20] - Stainless
1	AZEK Cortex - 100 LF XLM® RusticBark - RusticBark
3	TimberTech CONCEALoc Hidden Fastener - Unit = 8 retail cartons @ 100 sq.ft coverage each (175 CONCEALoc fasteners, 184 Screws and drive bit) - Brown
24	1/2 X 6" Galvanized Lag Screw







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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