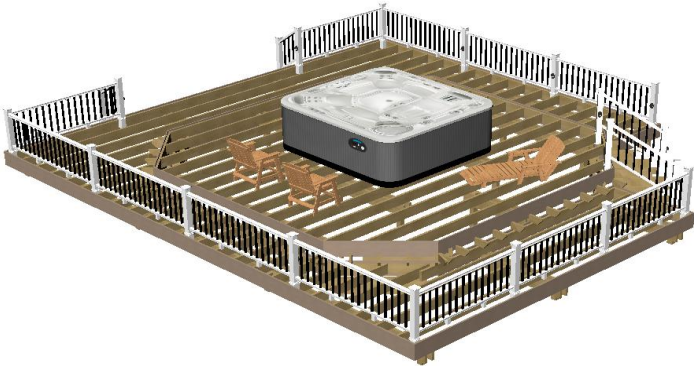


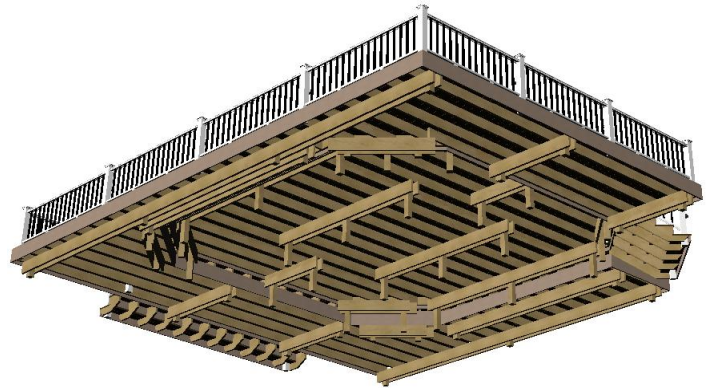


Deck Designer Specification Kit For
TimberTech

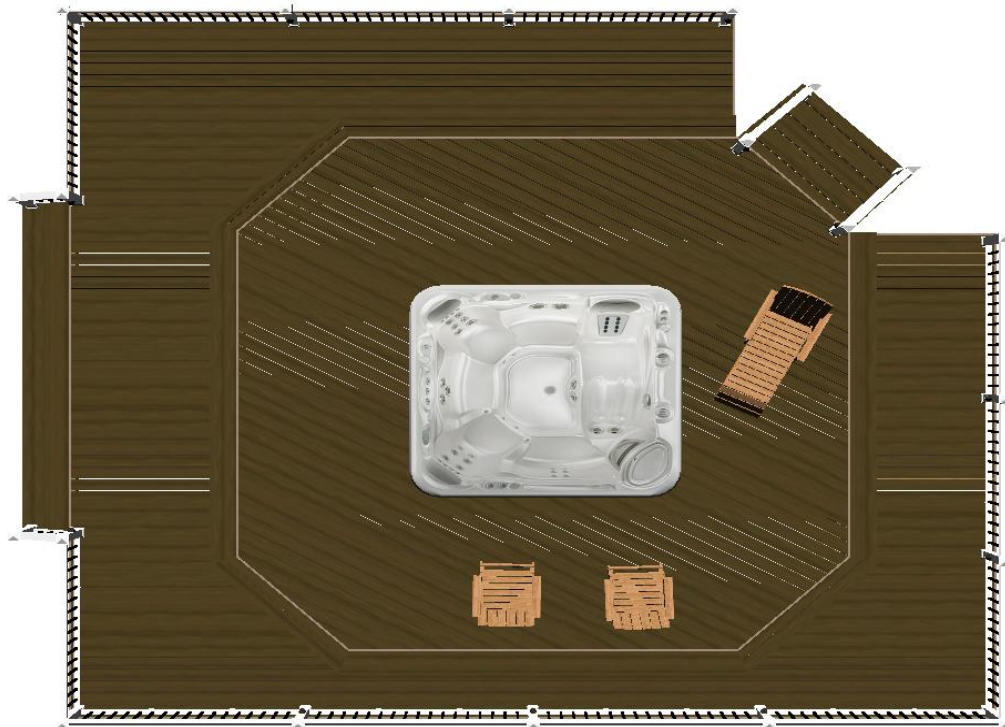
Deck layout diagram



Top view without planks

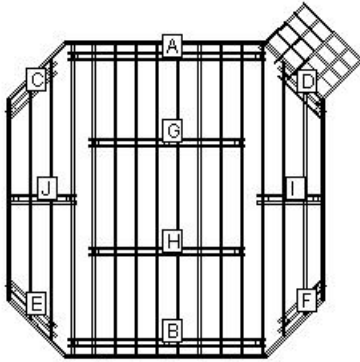


Bottom view with planks



Top view with planks

Permit Page: Level 1



LOAD AND SUPPORT:

Your deck will support a 52 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.

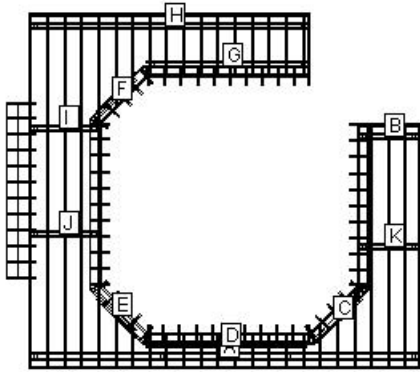
Joists:

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

Stress Analysis: Level 1

Joist Deflection	184
Joist Bending	62
Joist Shear	101
Joist Compression	101
Beam Deflection	1137
Beam Bending	169
Beam Shear	120
Post Stability	196

Permit Page: Level 2



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 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.

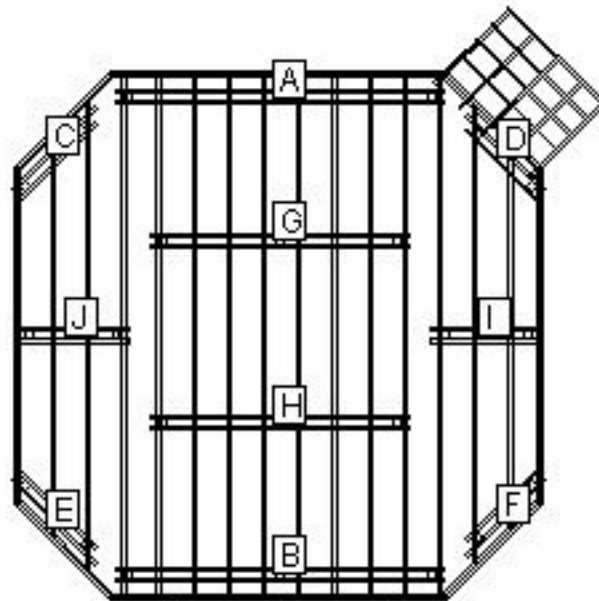
Joists:

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

Stress Analysis: Level 2

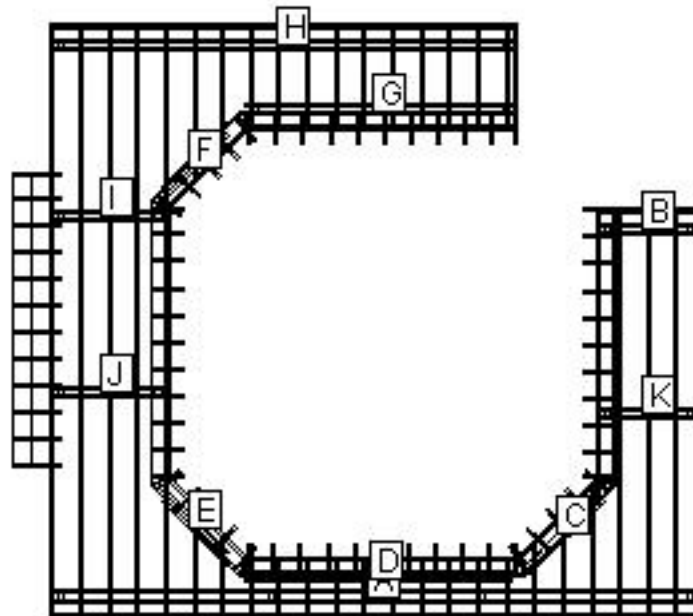
Joist Deflection	143
Joist Bending	52
Joist Shear	94
Joist Compression	94
Beam Deflection	113
Beam Bending	52
Beam Shear	56
Post Stability	115

Beam Layout Level 1



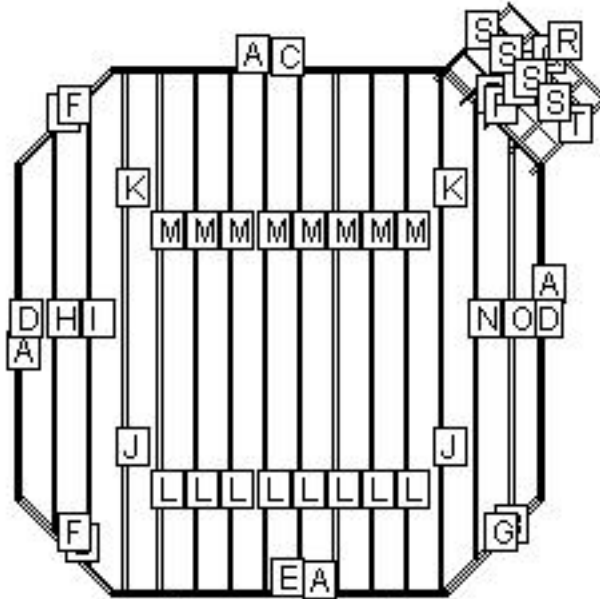
BEAM LABEL	BEAM LENGTH	POST COUNT	POST SPACING
A	12' 6"	3	5' 9 1/4"
B	12' 6"	3	5' 9 1/4"
C	4' 5 3/4"	2	3' 2 3/4"
D	4' 1 1/4"	2	2' 10 1/4"
E	4' 5 3/4"	2	3' 2 3/4"
F	4' 1 1/4"	2	2' 10 1/4"
G	9' 10"	3	4' 5 1/4"
H	9' 10"	3	4' 5 1/4"
I	4' 1 1/4"	2	3' 1 3/4"
J	4' 3"	2	3' 3 1/2"

Beam Layout Level 2



BEAM LABEL	BEAM LENGTH	POST COUNT	POST SPACING
A	30' 6 1/4"	4	9' 10 1/4"
B	4' 10 1/4"	2	3' 10 3/4"
C	4' 5"	2	3' 2"
D	12' 5 3/4"	2	11' 6 1/4"
E	3' 10 1/4"	2	2' 7 1/4"
F	3' 10 1/4"	2	2' 7 1/4"
G	12' 9"	2	11' 9 1/2"
H	21' 10 1/4"	3	10' 5 1/2"
I	5' 6 1/4"	2	4' 6 3/4"
J	5' 6 1/4"	2	4' 6 3/4"
K	4' 10 1/4"	2	3' 10 3/4"

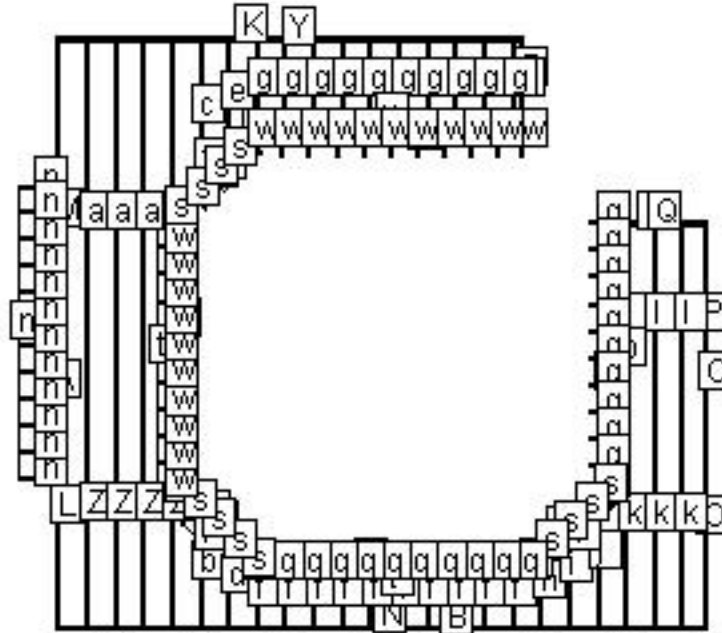
Materials Cut List: Level 1



LABEL	NAME	QTY	LENGTH	BEVELS	LABEL	NAME	QTY	LENGTH	BEVELS
A	Cladding	4	12' 8"	23, 23	K	Internal Joist	2	9' 9 3/4"	0, 0
B	Cladding	4	5' 2 1/4"	23, 23	L	Internal Joist	8	6' 6 1/2"	0, 0
C	Header	1	12' 7 1/4"	0, 0	M	Internal Joist	8	13' 3/4"	0, 0
D	Rim Joist	2	12' 7 1/4"	0, 0	N	Internal Joist	1	17' 3 1/2"	45, 45
E	Header	1	12' 7 1/4"	0, 0	O	Internal Joist	1	14' 7 1/2"	45, 45
F	Header	3	5' 1 1/2"	0, 0	P	Riser	2	5' 2 1/4"	0, 0
G	Header	1	5' 1 1/2"	0, 0	Q	Riser	1	5' 2 1/4"	0, 0
H	Internal Joist	1	15' 2"	45, 45	R	Riser	1	5' 2 1/4"	0, 0
I	Internal Joist	1	17' 10"	45, 45	S	Pre Cut Stringer	4	4' 2"	0, 0
J	Internal Joist	2	9' 9 1/2"	0, 0	T	Pre Cut Stringer	1	4' 2"	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	27' 10"	45, 45	a	Internal Joist	4	17' 3/4"	0, 0
B	Cladding	1	30' 8"	45, 45	b	Internal Joist	1	4' 11 1/2"	45, 0
C	Cladding	1	19' 2"	45, 45	c	Internal Joist	1	7' 1 1/2"	0, 45
D	Cladding	2	5'	45, 45	d	Internal Joist	1	3' 7 1/2"	45, 0
E	Cladding	1	12' 8 1/4"	45, 23	e	Internal Joist	1	5' 9 1/2"	0, 45
F	Cladding	1	5' 3"	23, 23	f	Internal Joist	10	2' 5 1/4"	0, 0
G	Cladding	2	12' 8 3/4"	23, 23	g	Internal Joist	10	4' 7 1/4"	0, 0
H	Cladding	1	5' 3"	23, 23	h	Internal Joist	1	3' 2 3/4"	45, 0
I	Cladding	1	5' 3"	23, 23	i	Internal Joist	1	4' 6 3/4"	45, 0
J	Cladding	1	12' 8 1/4"	23, 45	j	Internal Joist	1	5' 10 3/4"	45, 0
K	Cladding	1	22'	45, 45	k	Internal Joist	3	9' 4 1/2"	0, 0
L	Rim Joist	1	10' 6 1/4"	0, 0	l	Internal Joist	3	9' 4 3/4"	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	17' 2"	0, 0	m	Riser	2	13' 9 1/2"	0, 0
N	Header	1	30' 3 1/4"	0, 0	n	Pre Cut Stringer	12	2' 2 1/2"	0, 0
O	Rim Joist	1	9' 6 1/4"	0, 0	o	Riser	1	13' 1/2"	23, 0
P	Rim Joist	1	9' 6"	0, 0	p	Pre Cut Stringer	2	1' 2"	0, 0
Q	Header	1	4' 7 1/4"	0, 0	q	Pre Cut Stringer	22	1' 1 1/4"	0, 0
R	Rim Joist	1	13' 10 1/4"	0, 0	r	Riser	2	5' 11 1/4"	23, 23
S	Header	1	5' 3"	0, 0	s	Pre Cut Stringer	15	1' 1 1/4"	0, 0
T	Header	1	12' 8 3/4"	0, 0	t	Riser	2	13' 5"	23, 23
U	Header	2	5' 3"	0, 0	u	Pre Cut Stringer	2	1' 2"	0, 0
V	Rim Joist	1	15' 2 1/4"	0, 0	v	Pre Cut Stringer	2	1' 2"	0, 0
W	Header	1	12' 6"	0, 0	w	Pre Cut Stringer	22	1' 1 1/4"	0, 0
X	Rim Joist	1	4' 10 1/4"	0, 0	x	Riser	1	5' 11 1/4"	23, 23
Y	Header	1	21' 7 1/4"	0, 0	y	Riser	1	13' 1/2"	0, 23
Z	Internal Joist	4	10' 4 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	WOOD TYPE
Beam	6	2X10X10 Treated	TREATED
Rim Joist	11	2X8X14 Treated	TREATED
Internal Joist	3	2X8X16 Treated	TREATED
Internal Joist	20	2X8X18 Treated	TREATED
Internal Joist	15	2X8X10 Treated	TREATED
Internal Joist	10	2X8X8 Treated	TREATED
Beam	8	2X10X14 Treated	TREATED
Pre Cut Stringer	5	4-Step Treated Stair Stringer	TREATED
Cladding	21	TimberTechEarthwood Evolutions® Terrain Collection Fascia Board, 12" wide - Sandy Birch - 12'	TIMBERTECH
Decking	57	TimberTech Earthwood Evolutions® Legacy Deck Plank, Square Shouldered - Mocha - 16'	TIMBERTECH
Decking	58	TimberTech Earthwood Evolutions® Legacy Deck Plank, Square Shouldered - Mocha - 20'	TIMBERTECH
Header	6	2X8X12 Treated	TREATED
Post	12	4X4X8 Treated	TREATED
Beam	5	2X10X18 Treated	TREATED
Riser	11	TimberTech Earthwood Evolutions® Terrain Collection Riser Board, 7 1/4" wide - Sandy Birch - 12'	TIMBERTECH
Railing Post	1	4X4X14 Treated	TREATED
Railing Section	3	TimberTech 6' RadianceRail Custom Rail Pack - White - 6'	TIMBERTECH
Railing Section	3	TT/AZEK 31" Round Aluminum Stair Baluster - Black - 31"	TIMBERTECH
Beam	8	2X10X12 Treated	TREATED
Pre Cut Stringer	83	2-Step Treated Stair Stringer	TREATED
Railing Post	1	4X4X8 Treated	TREATED
Railing Post	3	4X4X18 Treated	TREATED
Railing Section	11	TimberTech 8' RadianceRail Custom Rail Pack - White - 8'	TIMBERTECH
Railing Section	12	TT/AZEK 31" Round Aluminum Baluster - Black - 31"	TIMBERTECH
Beam	2	2X10X16 Treated	TREATED



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

Other Materials

Qty	Description
6	1 LB. 10D Hot-Dip Galvanized Nail
2	1LB. 16D Galvanized Common Nail
10	2x6-8" Triple Zinc Left Skewed Joist Hanger SKH26L-TZ
6	2x6-8" Triple Zinc Right Skewed Joist Hanger SKH26R-TZ
3	1 LB. 10D X1 1/2" Nail
80	2x8-10" Triple Zinc Joist Hanger JUS28-TZ
7	5" Triple Zinc Angle Clip MP5-TZ
49	Anchor Bolt AB128
49	4X4 Triple Zinc Deck Post Anchor PA44E-TZ
78	80 L.B. Basic Concrete Mix
1	60 L.B. Basic Concrete Mix
37	8" X 48" Concrete Form Tube
784	1/2 Galvanized Flat Washer
16	1/2 Galvanized Hex Nut
392	1/2 X 8" Galvanized Carriage Bolt
3	1LB. 8D Galvanized Common Nail
6	1 LB. 1-1/2" Joist Hanger Nail
149	Triple Zinc Rafter Tie RT7-TZ
82	7" Triple Zinc Angle Clip AC7-TZ
19	2 Pieces of Joist Material Nailed to Each Joist Splice
6	TimberTech TOPLoc 100 Sq. Ft. Pack Walnut - Walnut
40	4X4 Triple Zinc Deck Post Tie SDPT7-TZ
1	1 LB. 8X3" Philips Head Stainless Deck Screws
20	TimberTech 5" Post Skirt - White
80	3/8 Galvanized Hex Nut
160	3/8 Galvanized Flat Washer
80	3/8 X 8" Galvanized Carriage Bolt
20	TimberTech 5" x 5" Post Sleeve - White - 42"
20	TimberTech 5" Post Cap - White
1	TT/AZEK Decklites Dimmer
1	TT/AZEK Wire Guide - 60 Packs of 12 ea.
2	TT/AZEK 100' wire 16/2
16	TT/AZEK LED Accent Light - Architectural Bronze
1	TT/AZEK Transformer - 12 Volt 150 W
1	TimberTech TOPLoc Fascia Bit
4	TimberTech TOPLoc Fascia Pack Cedar - Cedar
1	5 LB. 10D X1 1/2" Nail
2	5 LB. 10D Hot-Dip Galvanized Nail
7	7" Triple Zinc Angle Clip AC7-TZ

Qty	Description
1	5 LB. 8D Galvanized Nail
1	40 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.

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).