



VersaTube Building Systems
50 Eastley Street
Collierville, TN 38017

800-810-2993
sales@versatube.com
support@versatube.com

Custom Structure Technical Specification

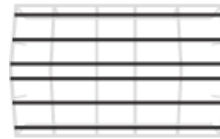
Monday, August 19th 2019, 11:44 AM

Design ID: 371317

PRICE
\$8,152

STRUCTURE TYPE

Grand - 3-sided

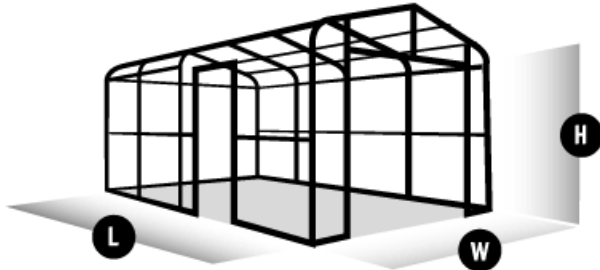


With Roof Hat
 Channel (Purlins)

Description:

20'x24'x12' Grand 3-sided, 4' on center

FRAME SPECS



WIDTH
20'

LENGTH
24'

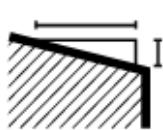
HEIGHT
(SIDEWALL)
12'

This structure is engineered to meet or exceed your local building code requirements of:

 ?lbs GROUND SNOW LOAD	 85lbs ROOF SNOW (LIVE) LOAD	 85MPH WIND LOAD
------------------------------	------------------------------------	------------------------

Structure will be anchored to:

Ground



ROOF PITCH
3:12



ON CENTER SPACING
4'



TRUSS BRACE TYPE
Type 7

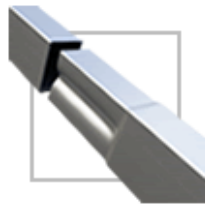


GROUND-TO-TRUSS CLEARANCE
11' 10 1/2"

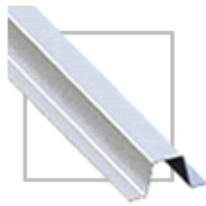


FRAME WEIGHT
2257 lbs

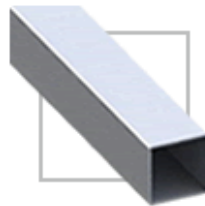
Steel Specifications



FRAME
2" x 4"
14 Gauge Galvanized Tube
 Domestic Steel - 67% Recycled



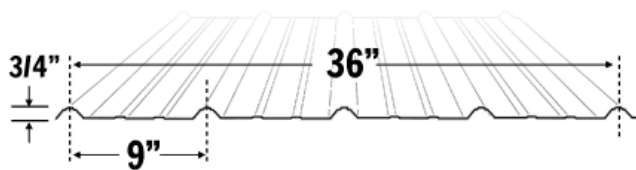
ROOF PURLINS
18 Gauge Galvanized Roof Purlins
 1' 11 3/8" On Center Spacing



FRONT/BACK WALL VERTICALS
2" x 3" 14 Gauge Galvanized Front / Back Wall Verticals

SHEET METAL SPECS

29 Gauge Sheet Metal



RIB SPACING
9"
 with 5 major ribs & minor ribs

RIB HEIGHT
3/4"
 with 36" coverage

Anti-siphon feature

Durable, baked-on paint finish

Selected Sheet Metal & Trim



Roof Sheet Metal

BROWN



Eave Trim

BROWN



Gable Trim

BROWN



Ridge Cap

BROWN



Side Sheet Metal

BROWN



Corner Trim

BROWN

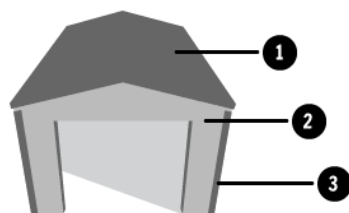


Inside Closure Strip



Outside Closure Strip

SHEET METAL COLORS



① **ROOF COLOR**



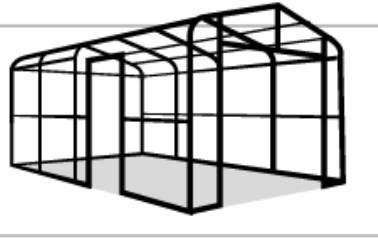
Brown

② **WALL COLOR**



Brown

WARRANTY DETAILS



The VersaTube Product Pledge

Pledge is our way of showing that we're proud of our products and the level of quality that they represent. Your structure will go through an extensive inspection process prior to leaving our plant, but if any component should not meet your expectations, we'll be glad to replace the part at no charge within 30 days of purchase.

The only criteria that must be met is that you bought the structure from VersaTube, the damage wasn't caused by customer modifications or mishandling, and that the structure was erected within 30 days of purchase.

The second part of the VersaTube Product Pledge provides a 20 year structural warranty on all framing components of our structures from the date of purchase. Of course, the defect can't be caused by customer modifications or negligence, an unanticipated Act of God or nature, an accident, or any type of internal or external impact. Improper assembly or installation may also void the warranty.

The customer is responsible for performing standard structure maintenance and inspections on a regular basis. We reserve the right to repair or replace any part that might not meet expectations.

VersaTube is proud to put our name on the structures we manufacture for our customers and stand behind their quality with our industry leading Product Pledge.

DELIVERY OPTIONS



Standard Delivery
(Customer Unloads)

\$0
(Included in total price)

Custom Structure Technical Specification

Monday, August 19th 2019, 11:44 AM

Design ID: 371317

PRICE
\$8,152

VersaTube Building Systems
50 Eastley Street
Collierville, TN 38017

800-810-2993
sales@versatube.com
support@versatube.com

© 2016 VersaTube Building Systems. All Rights Reserved.

VersaTube User Guide
Grand Carport 20 x 24 x 12
Design ID: 371317

, null
Order Date: 0NaN/NaN/NaN

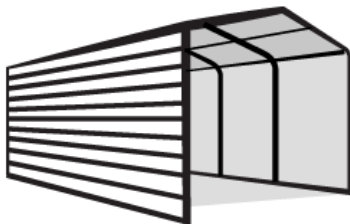
3D MODEL

Show Controls



BUILDING TYPE

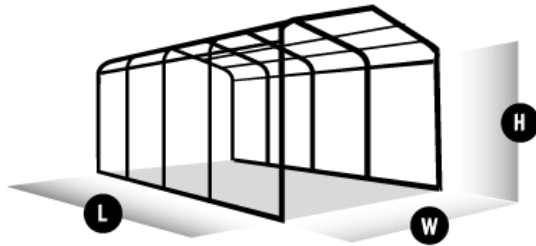
Grand



**With Roof Hat . Channel
(Purlins)**

FRAME SPECS

This structure is engineered to meet or exceed your local building code requirements of:



WIDTH 20'	LENGTH 24'2"	HEIGHT (SIDEWALL) 12'
--------------	-----------------	--------------------------

<p>lbs GROUND SNOW LOAD</p>	<p>85lbs ROOF SNOW (LIVE) LOAD †</p>	<p>85MPH WIND LOAD *</p>
--	---	-------------------------------------

* Source: IBC 2009 for Leavenworth, Washington 98826 in Chelan
† Source: manual user input



ROOF
PITCH
3:12



ON CENTER
SPACING
4'



TRUSS BRACE
TYPE
Type 7

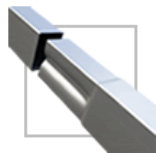


GROUND-TO-
TRUSS CLEARANCE
11 7/8'



FRAME
WEIGHT
2289 lbs

STEEL SPECIFICATIONS



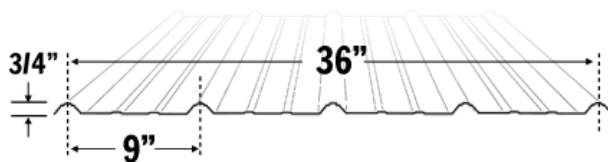
FRAME
2" x 4"
14 Gauge Galvanized Tube
Domestic Steel - 67%
Recycled



ROOF
PURLINS
18 Gauge Galvanized Roof
Purlins
1' 11 3/8" On Center
Spacing

SHEET METAL SPECS

29 Gauge Sheet Metal



RIB
SPACING
9"
with 5 major ribs & 8 minor ribs

RIB
HEIGHT
3/4"
with 36" coverage

Anti-siphon feature

Durable, baked-on paint finish

SELECTED SHEET METAL & TRIM



Roof Sheet Metal
Brown



Eave Trim
Brown



Gable Trim
Brown



Ridge Cap
Brown



Side Sheet Metal
Brown



Corner Trim

Brown

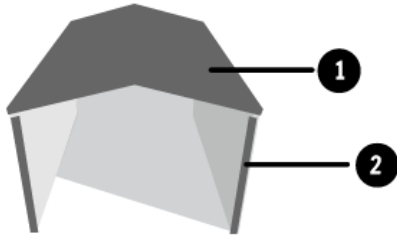


Inside Closure Strip



Outside Closure Strip

SHEET METAL COLORS



① ROOF COLOR

② WALL COLOR

Brown






Brown

Frame PARTS LIST






FRAME










12 PARTS









	PART	LEGACY	COUNT	INCHES OF MATERIAL	CHECK
	2x4-03037	7000-03037	14	2x4: 30 3/8"	<input type="checkbox"/>
	2x4-08812	7000-08812	14	2x4: 88 1/8"	<input type="checkbox"/>
	2x4-BK-40	700-BK40	14		<input type="checkbox"/>
	2x4-EBR-8-4	700-4782	4	2x4: 100 3/4" with (2) 12" vertical pins	<input type="checkbox"/>
	2x4-EC	700-5000B	14	2x4: 102 1/2"	<input type="checkbox"/>
	2x4-PK	700-6000B	7	2x4: 102 1/2"	<input type="checkbox"/>
	2x4-SBR-8-4	700-4783	2	2x4: 98 1/2" with (3) 12" vertical pins	<input type="checkbox"/>

	PART	LEGACY	COUNT	INCHES OF MATERIAL	CHECK
	Grand Instruction Manual	ZINST-CVM	1		<input type="checkbox"/>
	Ground Anchor	ANC-24	14		<input type="checkbox"/>
	HC-14400	7700-14400	24	hat channel: 144"	<input type="checkbox"/>
	framing screw	71-9999	698		<input type="checkbox"/>
	pancake screw	71-9999-PAN	1		<input type="checkbox"/>



ENDWALLS**11 PARTS****BACK**

	PART	LEGACY	COUNT	INCHES OF MATERIAL	CHECK
	2x3-3100	7100-3100	3	2x3: 31"	<input type="checkbox"/>
	2x3-3787P	7100-3787P625	2	2x3: 37 7/8"	<input type="checkbox"/>
	2x3-7187	7100-7187	2	2x3: 71 7/8"	<input type="checkbox"/>
	2x3-8362	7100-8362	2	2x3: 83 5/8"	<input type="checkbox"/>
	2x3-HE-6	HE-6	4	2x3: 76 3/4"	<input type="checkbox"/>












	PART	LEGACY	COUNT	INCHES OF MATERIAL	CHECK
	2x3-T	81-SR-T	4	2x3: 12" with (1) 23 3/4" vertical pins	<input type="checkbox"/>
	2x4-BK-10	700-BK10	8		<input type="checkbox"/>
	BK-10	BK-10	2		<input type="checkbox"/>
	Ground Anchor	ANC-24	6		<input type="checkbox"/>
	framing screw	71-9999	92		<input type="checkbox"/>
	square bit	71-SQ-DB	2		<input type="checkbox"/>
TRUSS BRACE					12 PARTS
	PART	LEGACY	COUNT	INCHES OF MATERIAL	CHECK
	1.5sq-WEB-12062	1.5sq-WEB-12062	10	1.5x1.5: 123 3/8"	<input type="checkbox"/>
	1.5sq-WEB-2037	1.5sq-WEB-2037	10	1.5x1.5: 23 1/8"	<input type="checkbox"/>
	1.5sq-WEB-3237	1.5sq-WEB-3237	10	1.5x1.5: 35 1/8"	<input type="checkbox"/>
	2sq-5050	7400-5050	10	2x2: 50 1/2"	<input type="checkbox"/>





	PART	LEGACY	COUNT	INCHES OF MATERIAL	CHECK
	2sq-CT111	74-1110	5	2x2: 111"	<input type="checkbox"/>
	3/8" bolt	79-5584	50		<input type="checkbox"/>
	3/8" nut	79-5582	50		<input type="checkbox"/>
	3/8" washer	79-5583	50		<input type="checkbox"/>
	BK-60	BK-60	5		<input type="checkbox"/>
	BK-61	BK-61	5		<input type="checkbox"/>
	BK-WEB-1.5SQ	BK-WEB-1.5SQ	50		<input type="checkbox"/>
	framing screw	71-9999	470		<input type="checkbox"/>

ACCESSORIES**2 PARTS**

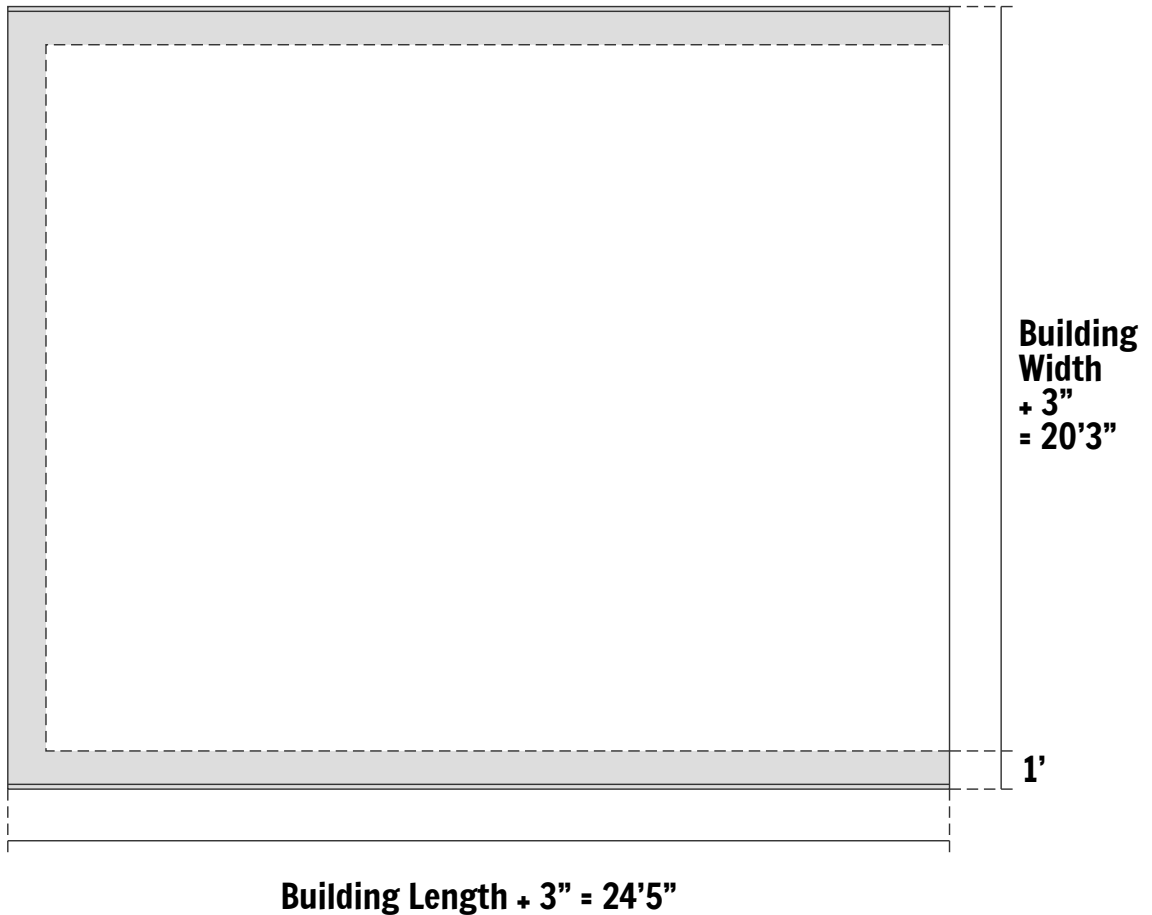
	PART	LEGACY	COUNT	INCHES OF MATERIAL	CHECK
	pallet 10ft	99PT-40120	2		<input type="checkbox"/>
	pallet 12ft	99PT-40144	1		<input type="checkbox"/>

Sheet Metal/Trim Parts List**SHEET METAL****15 PARTS**

	PART	LEGACY	COUNT	INCHES OF MATERIAL	CHECK
	1" panel screw Brown	#12-14 x 1" Self-Drilling Panel Screw	1000		<input type="checkbox"/>
	29 gauge sheet metal 127 Brown	29 GA Imperial Rib Panel 10'7"	16	29-g sheet metal: 127"	<input type="checkbox"/>
	29 gauge sheet metal 145 Brown	29 GA Imperial Rib Panel 12'1"	5	29-g sheet metal: 145"	<input type="checkbox"/>
	29 gauge sheet metal 146 Brown	29 GA Imperial Rib Panel 12'2"	16	29-g sheet metal: 146"	<input type="checkbox"/>
	29 gauge sheet metal 98 Brown	29 GA Imperial Rib Panel 8'2"	5	29-g sheet metal: 98"	<input type="checkbox"/>
	3x3 corner trim 12.5ft-Brown	XLG128A 3 x 3 Corner Trim 12'6"	2		<input type="checkbox"/>
	4x4.75 corner angle trim 12.5ft-Brown	XVT4x4.75 Corner Trim 12'6"	2		<input type="checkbox"/>
	7/8" panel screw Brown	#12-14 x 7/8" Self-Drilling Trim Screw	250		<input type="checkbox"/>
	butyl tape 35ft	71-9401	2		<input type="checkbox"/>
	eave trim 12.5ft-Brown	XLG120 Denver Eave Trim 12'6"	4		<input type="checkbox"/>
	gable trim 12.5ft-Brown	XLG118 Denver Gable Trim 12'6"	4		<input type="checkbox"/>

	PART	LEGACY	COUNT	INCHES OF MATERIAL	CHECK
	inside closure strip	AG-INSIDE	16		<input type="checkbox"/>
	outside closure strip	AG-OUTSIDE	48		<input type="checkbox"/>
	pancake screw	71-9999-PAN	18		<input type="checkbox"/>
	ridge cap 12.5ft-Brown	XLG101B Ridge Cap 3:12 Pitch 12'6"	2		<input type="checkbox"/>

FOUNDATION REQUIREMENTS

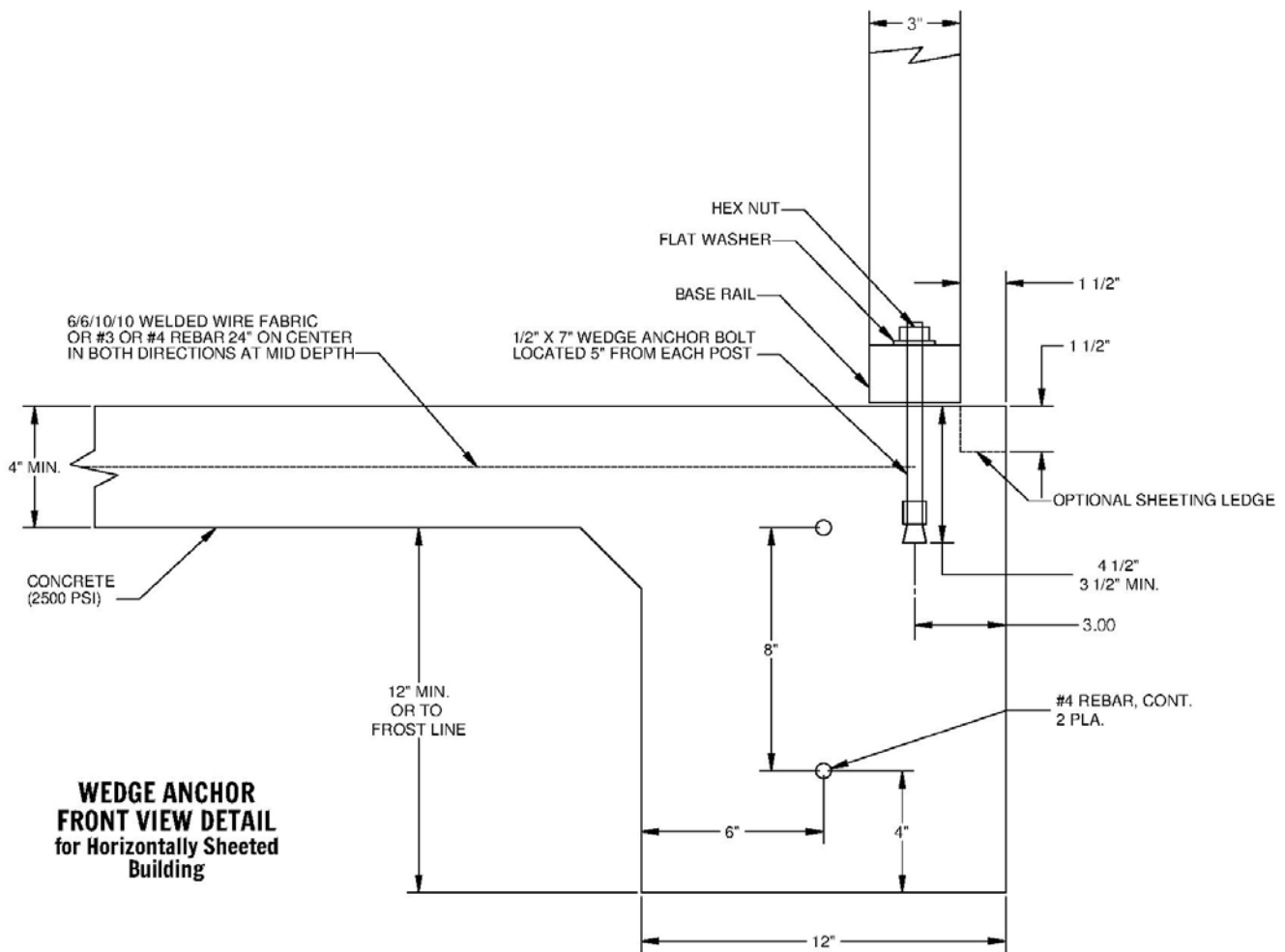


General foundation notes:

- ① Maximum allowable soil bearing pressure is 1000psf in accordance with Applicable code. Owner to verify that soil is stable and compacted to a Minimum of 95% relative optimum value.
- ② Maximum size concrete aggregate shall be 1" dia.
- ③ Minimum compressive strength of concrete at 28 days shall be 2500 psi.
- ④ Place reinforcement at mid depth for slabs on grade.
- ⑤ All splices in continuous reinforcement or reinforcing shall have a minimum lap of 40 diameters. Splices in adjacent bars shall not be less than 4'-0" apart. Vertical wall bars shall be spliced at or near floor lines. Bars may be wired together at splices or laps except for top reinf. Of beam and slabs, or where specifically detailed to be separated.
- ⑥ Concrete shall be placed in accordance with the latest aci specifications.

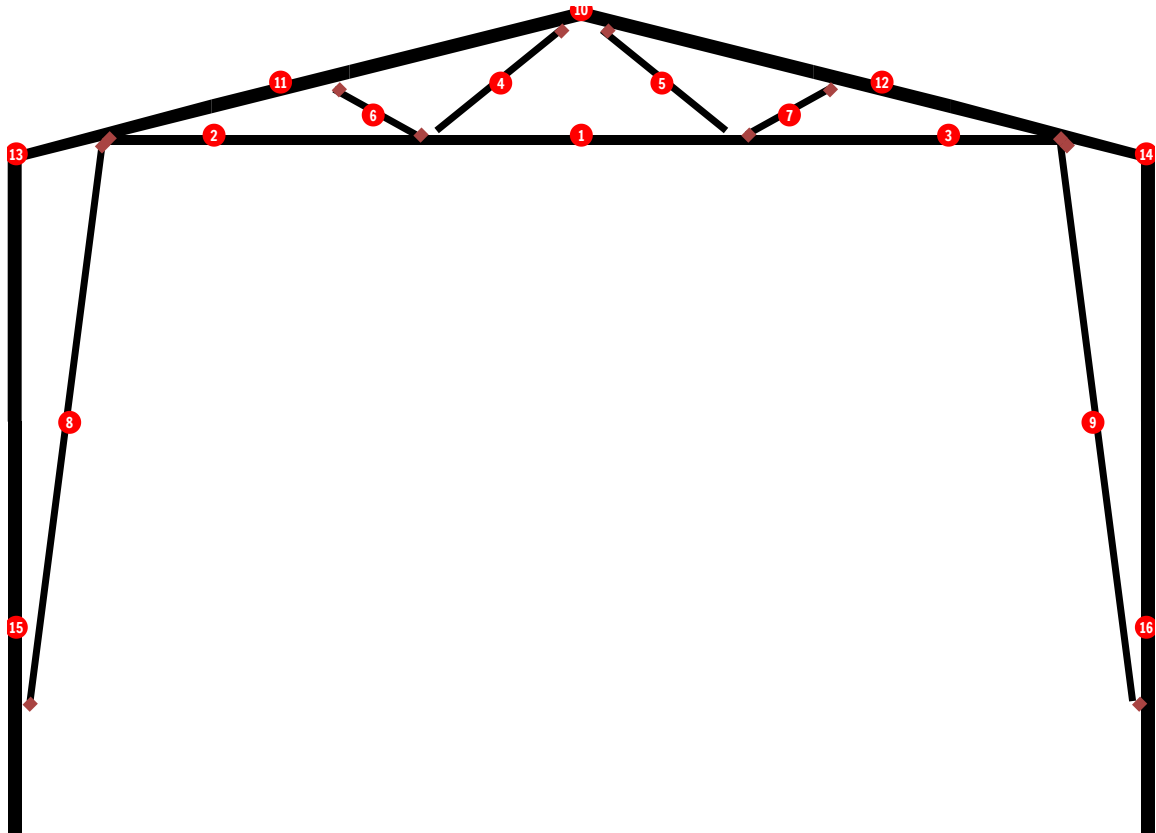
This is strictly a suggested foundation design. Other engineered designs may be substituted or dictated by your municipality or inspector.

INSTALLATION: USING HAMMER DRILL AND A 1/2" CONCRETE DRILL BIT, DRILL A HOLE INTO THE CONCRETE 5" TO 5 1/2" DEEP. PLACE THE FLAT WASHER ON THE BOLT AND INSTALL THE NUT UNTIL ABOUT 2 THREADS ARE EXPOSED ABOVE THE NUT. TAP THE ANCHOR THROUGH THE BASE RAIL INTO THE HOLE UNTIL THE WASHER TOUCHES THE TOP OF THE BASE RAIL. NOW, TIGHTEN THE NUT TO SET THE ANCHOR. DO NOT OVER TIGHTEN AND CRUSH THE TUBE.



THIS IS STRICTLY A SUGGESTED FOUNDATION DESIGN. OTHER ENGINEERED DESIGNS MAY BE SUBSTITUTED OR DICTATED BY YOUR MUNICIPALITY OR INSPECTOR.

TRUSS ASSEMBLY (Type 7)



#	part-no	Count
①	2sq-CT111	1
②	2sq-5050	1
③	2sq-5050	1
④	1.5sq-WEB-3250	1
⑤	1.5sq-WEB-3250	1
⑥	1.5sq-WEB-2037	1
⑦	1.5sq-WEB-2037	1
⑧	1.5sq-WEB-12062	1

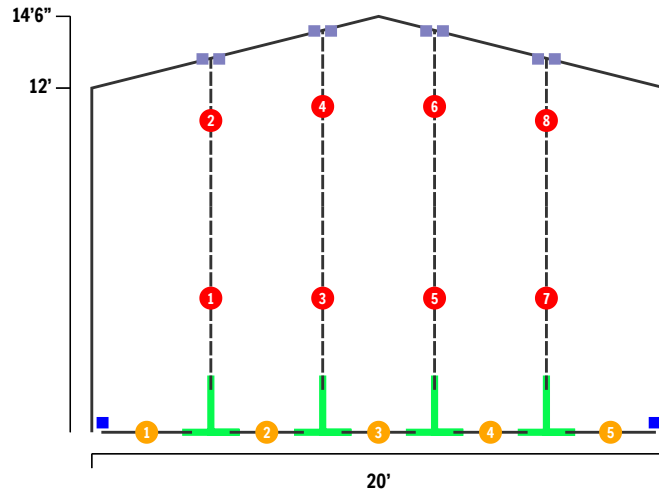
#	part-no	Count
⑨	1.5sq-WEB-12062	1
⑩	2x4-PK	1
⑪	2x4-03037	1
⑫	2x4-03037	1
⑬	2x4-EC	1
⑭	2x4-EC	1
⑮	2x4-08812	1
⑯	2x4-08812	1

Brackets

#	part-no	Count
①	BK-60	1
②	BK-61	1

#	part-no	Count
③	BK-WEB-1.5SQ	10

BACK ENCLOSURE ASSEMBLY



Vertical

#	part-no
①	2x3-HE-6
②	2x3-7187
③	2x3-HE-6
④	2x3-8362

#	part-no
⑤	2x3-HE-6
⑥	2x3-8362
⑦	2x3-HE-6
⑧	2x3-7187

Horizontal

#	part-no
①	2x3-3787P
②	2x3-3100
③	2x3-3100

#	part-no
④	2x3-3100
⑤	2x3-3787P

Additional Parts

#	part-no	Count
①	2x3-T	4

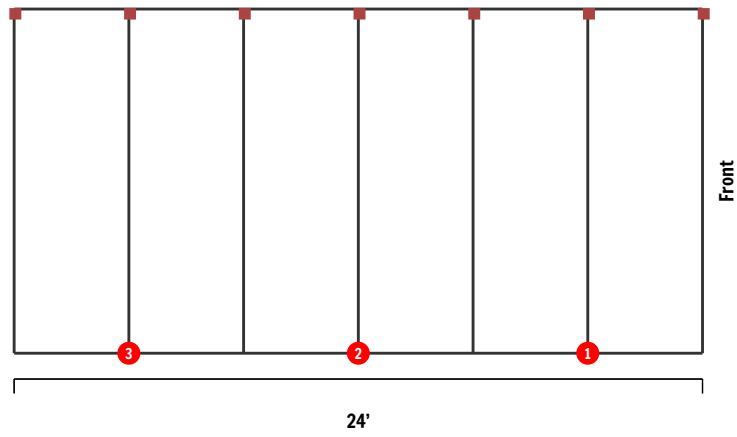
#	part-no	Count
②	ANC-.5x7	4

Brackets

#	part-no	Count
□	BK-10	2

#	part-no	Count
□	2x4-BK-10	8

EAVE SIDE(Left Side) ASSEMBLY



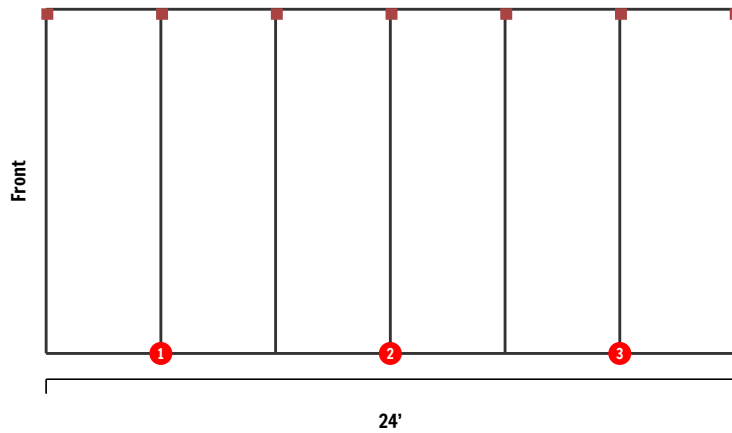
#	part-no	Count
①	2x4-SBR-8-4	1
②	2x4-EBR-8-4	1

Brackets

#	part-no	Count
①	2x4-BK-40	7

#	part-no	Count
③	2x4-EBR-8-4	1

EAVE SIDE(Right Side) ASSEMBLY



#	part-no	Count
①	2x4-SBR-8-4	1
②	2x4-EBR-8-4	1

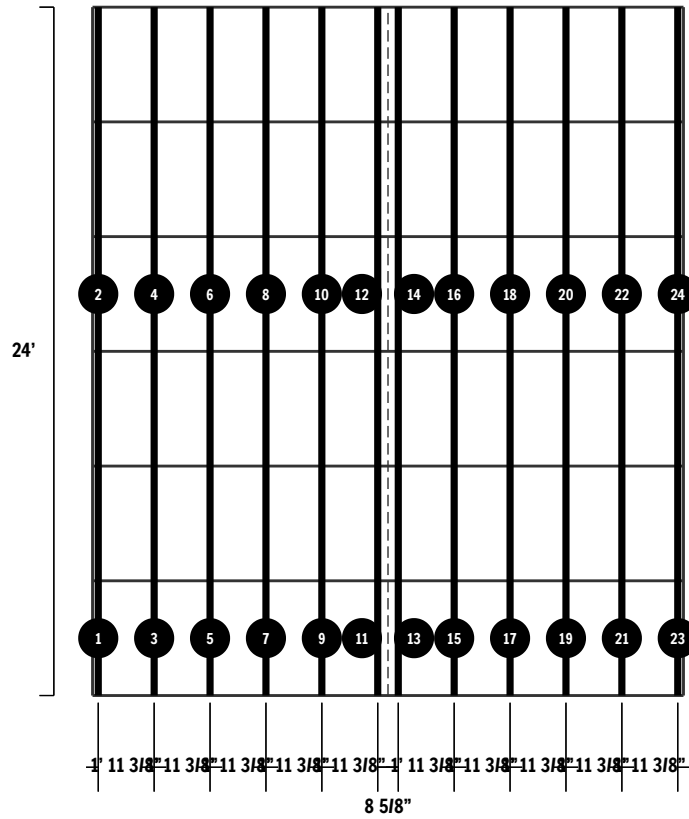
Brackets

#	part-no	Count
①	2x4-BK-40	7

#	part-no	Count
③	2x4-EBR-8-4	1

HAT CHANNEL ASSEMBLY

ROOF

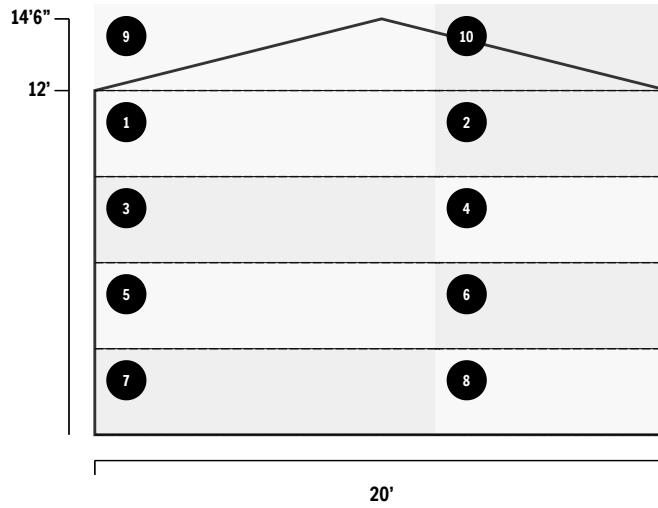


#	length
①	12' 0"
②	12' 0"
③	12' 0"
④	12' 0"
⑤	12' 0"
⑥	12' 0"
⑦	12' 0"
⑧	12' 0"
⑨	12' 0"
⑩	12' 0"
⑪	12' 0"
⑫	12' 0"



#	length
⑬	12' 0"
⑭	12' 0"
⑮	12' 0"
⑯	12' 0"
⑰	12' 0"
⑱	12' 0"
⑲	12' 0"
⑳	12' 0"
㉑	12' 0"
㉒	12' 0"
㉓	12' 0"
㉔	12' 0"

SHEET METAL PANELS


BACK

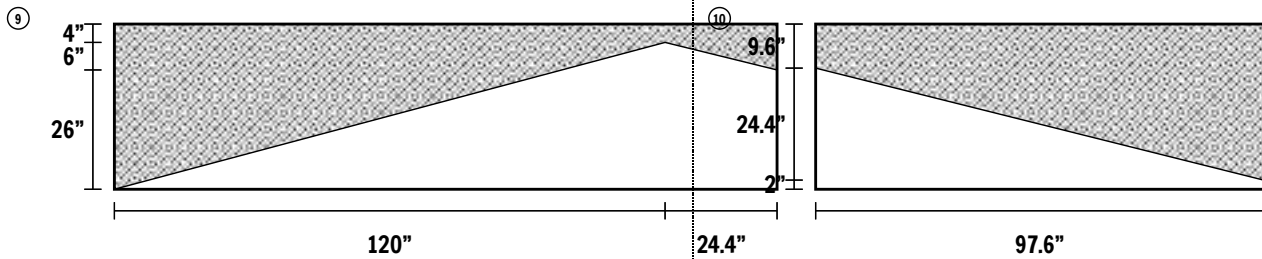


#	start	end	length
①	0	12'	12'
②	11'10"	20'	8'2"
③	0	12'	12'
④	11'10"	20'	8'2"
⑤	0	12'	12'

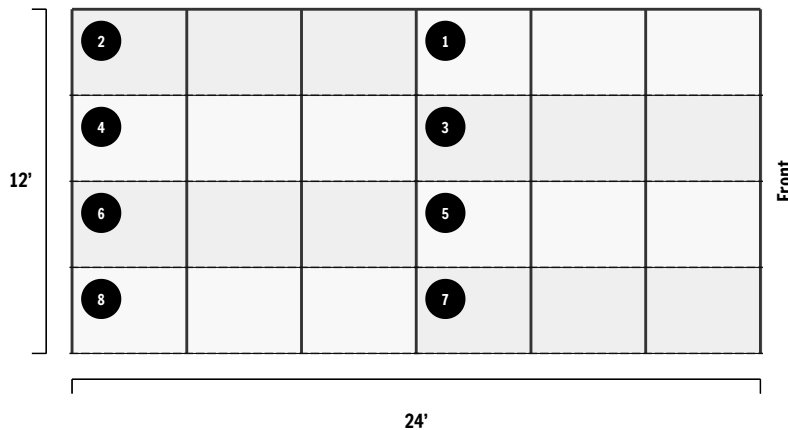
#	start	end	length
⑥	11'10"	20'	8'2"
⑦	0	12'	12'
⑧	11'10"	20'	8'2"
⑨ 	0	12'	12'
⑩ 	11'10"	20'	8'2"

Cutting Instructions for Panel Sheets:

 CUTTING SHEAR SYMBOL: PANEL REQUIRES TRIMMING




LEFT SIDE

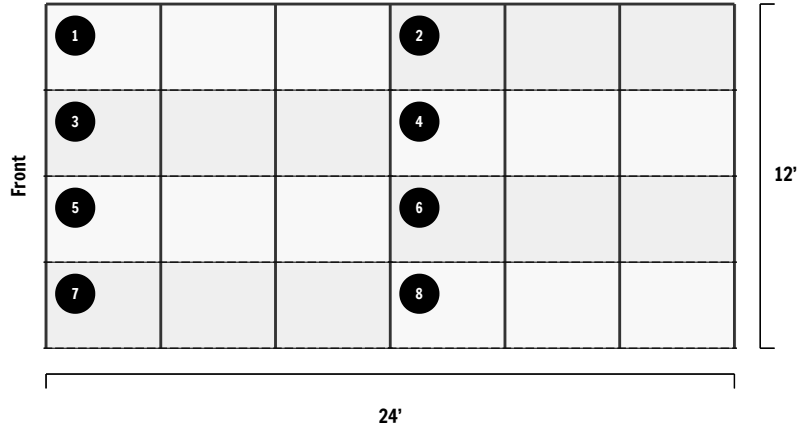


#	start	end	length
①	-1"	12'1"	12'2"
②	11'11"	24'1"	12'2"
③	-1"	12'1"	12'2"
④	11'11"	24'1"	12'2"

#	start	end	length
⑤	-1"	12'1"	12'2"
⑥	11'11"	24'1"	12'2"
⑦	-1"	12'1"	12'2"
⑧	11'11"	24'1"	12'2"


 CUTTING SHEAR SYMBOL- PANEL REQUIRES TRIMMING

RIGHT SIDE

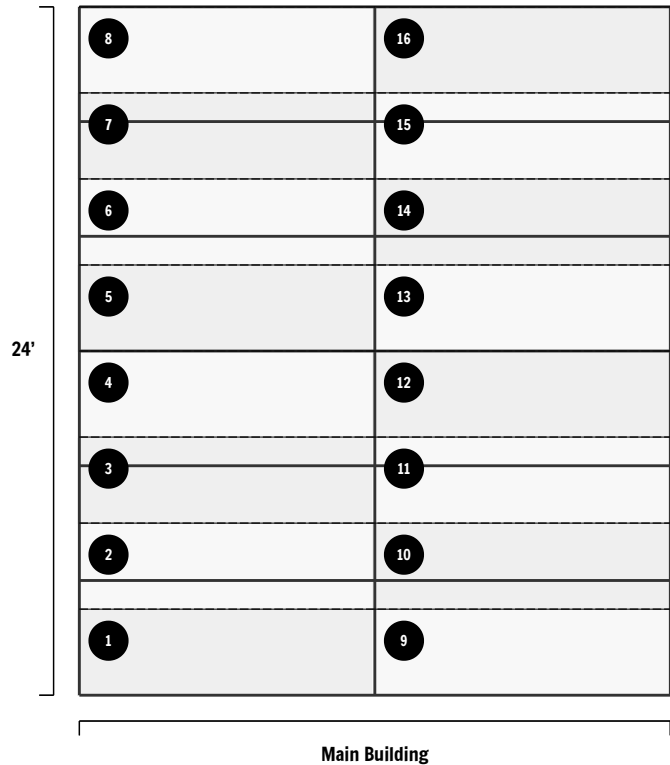


#	start	end	length
①	-1"	12'1"	12'2"
②	11'11"	24'1"	12'2"
③	-1"	12'1"	12'2"
④	11'11"	24'1"	12'2"


#	start	end	length
⑤	-1"	12'1"	12'2"
⑥	11'11"	24'1"	12'2"
⑦	-1"	12'1"	12'2"
⑧	11'11"	24'1"	12'2"

 CUTTING SHEAR SYMBOL- PANEL REQUIRES TRIMMING

ROOF



#	left	right	bot	top	length	pos	#	left	right	bot	top	length	pos
①	-1"	10'6"	0	3'	10'7"	left	⑨	10'3"	20'10"	0	3'	10'7"	right
②	-1"	10'6"	3'	6'	10'7"	left	⑩	10'3"	20'10"	3'	6'	10'7"	right
③	-1"	10'6"	6'	9'	10'7"	left	⑪	10'3"	20'10"	6'	9'	10'7"	right
④	-1"	10'6"	9'	12'	10'7"	left	⑫	10'3"	20'10"	9'	12'	10'7"	right
⑤	-1"	10'6"	12'	15'	10'7"	left	⑬	10'3"	20'10"	12'	15'	10'7"	right
⑥	-1"	10'6"	15'	18'	10'7"	left	⑭	10'3"	20'10"	15'	18'	10'7"	right
⑦	-1"	10'6"	18'	21'	10'7"	left	⑮	10'3"	20'10"	18'	21'	10'7"	right
⑧	-1"	10'6"	21'	24'	10'7"	left	⑯	10'3"	20'10"	21'	24'	10'7"	right

 CUTTING SHEAR SYMBOL: PANEL REQUIRES TRIMMING

WARRANTY DETAILS



Steel Frame





Sheet Metal



The VersaTube Product Pledge

The only criteria that must be met is that you bought the building from VersaTube, the damage wasn't caused by customer

The customer is responsible for performing standard building maintenance and inspections on a regular basis. We reserve the right to

Pledge is our way of showing that we're proud of our products and the level of quality that they represent. Your building will go through an extensive inspection process prior to leaving our plant, but if any component should not meet your expectations, we'll be glad to replace the part at no charge within 30 days of purchase.

modifications or mishandling, and that the building was erected within 30 days of purchase.

The second part of the VersaTube Product Pledge provides a 20 year structural warranty on all framing components of our buildings from the date of purchase. Of course, the defect can't be caused by customer modifications or negligence, an unanticipated Act of God or nature, an accident, or any type of internal or external impact. Improper assembly or installation may also void the warranty.

repair or replace any part that might not meet expectations.

VersaTube is proud to put our name on the buildings we manufacture for our customers and stand behind their quality with our industry leading Product Pledge.

TERMS & CONDITIONS



Click to read VersaTube Terms and Conditions

Instruction



Grand 2x3/2x4
