

## ***AURELIUS TOWNSHIP***

**1939 S. Aurelius Road · Mason, Michigan 48854-9729**

**(517) 628-2093 · Fax (517) 628-3989**

*Office hours Tuesday through Friday, 10 a.m. to 3 p.m.*

### **PROCEDURES TO BE FOLLOWED TO SECURE A RESIDENTIAL DECK PERMIT**

- Step 1:** PLANS OR DRAWING OF DECK
- Step 2:** COMPLETE DECK APPLICATION PACKET available from Township office or on-line at [aureliustwp.org](http://aureliustwp.org)
- Step 3:** For Site approval, project needs to be staked.

**COST OF PERMIT:           \$250.00 (any size)**

**Call the Aurelius Township office at 517-628-2093 to schedule the footing inspection and the final inspection.**

**If you call for an inspection and you are not ready, you will be charged an additional \$50.**

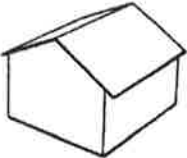
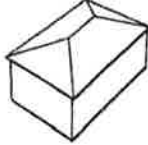
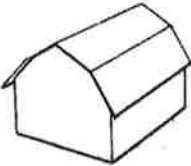
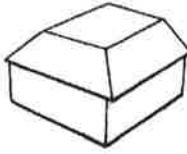
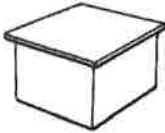
**AURELIUS TOWNSHIP****517-628-2093****APPLICATION FOR PLAN EXAMINATION AND BUILDING PERMIT**

All permit applications must be accompanied by detailed construction and site plans. Multi-Family and all Commercial plans must be signed and sealed by a State of Michigan, Registered Architect, or Engineer.

APPLICANT TO COMPLETE PAGES 1 THROUGH 3

I. LOCATION OF BUILDING				
STREET ADDRESS OF CONSTRUCTION:				
CITY	ZIP	AURELIUS TOWNSHIP	INGHAM COUNTY	
II. IDENTIFICATION				
A. OWNER OR LESSEE				
NAME		ADDRESS		
CITY	STATE	ZIP	PHONE	
EMAIL ADDRESS				
B. ARCHITECT OR ENGINEER				
NAME		ADDRESS		
CITY	STATE	ZIP	PHONE	
LICENSE NUMBER		EXPIRATION DATE		
C. CONTRACTOR				
NAME		ADDRESS		
CITY	STATE	ZIP	PHONE	
FAX NUMBER		EMAIL ADDRESS		
LICENSE NUMBER		EXPIRATION DATE		
FEDERAL EMPLOYER ID NO OR REASON FOR EXEMPTION				
WORKERS COMP INSURANCE CARRIER OR REASON FOR EXEMPTION				
MESC EMPLOYER NO OR REASON FOR EXEMPTION				
III. TYPE OF IMPROVEMENT				
A. DESCRIBE IMPROVEMENT				
<input type="checkbox"/> New building	<input type="checkbox"/> Addition	<input type="checkbox"/> Alteration	<input type="checkbox"/> Repair	<input type="checkbox"/> Wrecking
<input type="checkbox"/> Mobile Home	<input type="checkbox"/> Foundation only	<input type="checkbox"/> Pre-manufacture	<input type="checkbox"/> Relocation	<input type="checkbox"/> Fence
<input type="checkbox"/> Pool	<input type="checkbox"/> Shed	<input type="checkbox"/> Deck	<input type="checkbox"/> Other	


**AURELIUS TOWNSHIP  
BUILDING INFORMATION AND ASSESSING WORKSHEET**

				PERMIT #	
NAME:				DATE	
ADDRESS				PHONE	
CITY		STATE		ZIP	
PARCEL NUMBER					
<b>POLE BARNS</b>		<b>SHEDS</b>		<b>EXTERIOR</b>	
Size: _____ by _____		Size: _____ by _____		Wood	
Concrete Approach		Wood Frame		Aluminum	
Finished		Metal Prefab		Vinyl	
Insulated		Other		Other	
<b>ROOF</b>					
					
					
GABLE		HIP		GAMBREL	
MANSARD		FLAT			
		<b>WINDOWS</b>		<b>SIZE</b>	
Eavestrough		Many		Large	
Asphalt Shingles		Average		Average	
Other		Few		Small	
Insulation		Wood Sash		Garage/Carport	
Overhang		Metal Sash		Size _____ by _____	
<b>PORCHES/DECKS</b>		Vinyl Sash		Year Built	
Width		Double Hung		Attached or Separate	
Depth		Casement		Doors	
Type		Storms and Screens		Automatic Doors	
Covered?		Patio Doors		Common Wall	
<b>PORCHES/DECKS</b>		<b>PORCHES/DECKS</b>		<b>Concrete Approach</b>	
Width		Width		Size _____ by _____	
Depth		Depth		<b>SIZE</b>	
Type		Type		<b>EST COST</b>	
Covered?		Covered?			

G:\PERMITS\BUILDING INFO AND ASSESSING WORKSHEET.EXCEL

## Zoning Certificate Application

**Rear Lot line**



### Front Lot Line and Road Right of way

Name:	Telephone #:
Address:	

**\*NO Structure shall be in front of Principal residence\***

**Setbacks:** 20ft off sides, 35ft off back, 10 ft from other structure

**165 Ft of Road Frontage**

Dimensions of Structure \_\_\_\_\_  
 Use of Structure \_\_\_\_\_  
 Total Cost of Improvement \$ \_\_\_\_\_

\*Office Use only – Do not write in this box\*

Zoning District \_\_\_\_\_

Lot Size \_\_\_\_\_ Lot Use \_\_\_\_\_

Setbacks: Front \_\_\_\_\_ Rear \_\_\_\_\_

Side \_\_\_\_\_

Building Size: \_\_\_\_\_

Health Dept Approved

 Soil Erosion Waiver

All of the following are required to be shown on the plot plan as they apply to the property

1. North arrow
  2. All property lines and dimensions
  3. Proposed streets and driveways
  4. All existing/proposed building and structure sizes
  5. Distance from side and rear property lines to all existing and proposed buildings/structures
  6. Distance from the front property line as measured from edge of the roads right of way to all existing and proposed buildings and structure.
  7. Distance from the proposed construction to existing building/structures
- Approved ☐

Approved ☐

Denied ☐

Aurelius Township Zoning Administrator

Date \_\_\_\_\_

**AURELIUS TOWNSHIP  
1939 S. AURELIUS ROAD  
MASON, MI 48854  
(517) 628-2093**

**Property Line Verification**

**I certify that the location of the property line is true and correct as identified to the Zoning Administrator.**

**If the location of the property line is incorrect, I am responsible for identifying the property line and moving the building if necessary.**

\_\_\_\_\_  
**Signature of property owner**

\_\_\_\_\_  
**Print name of property owner**

\_\_\_\_\_  
**Address** **City** **State** **ZIP**

\_\_\_\_\_  
**Date**

**Permit #** \_\_\_\_\_

## RESIDENTIAL DECK SPECIFICATIONS

Deck Size: \_\_\_\_\_ ft. x \_\_\_\_\_ ft.

Deck Floor Material: \_\_\_\_\_

Floor Joist Size: \_\_\_\_\_ in. x \_\_\_\_\_ in.

Floor Joist Spacing: \_\_\_\_\_ inches on center

Floor Joist Clear Span: \_\_\_\_\_ ft. \_\_\_\_\_ in.

Floor Joist Cantilever: \_\_\_\_\_ ft. x \_\_\_\_\_ in.

Double Carrier / Beam Size: \_\_\_\_\_ in. x \_\_\_\_\_ in.

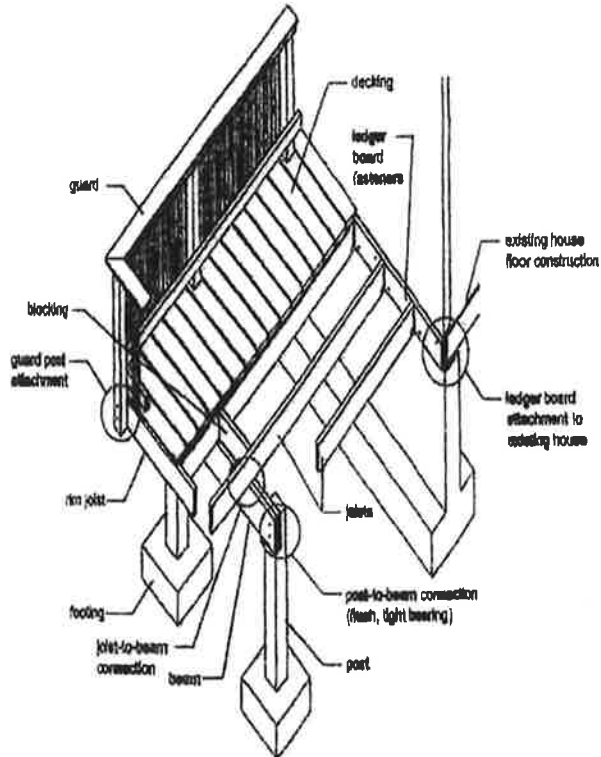
Treated Poles Size: \_\_\_\_\_ in. x \_\_\_\_\_ in.

Post Spacing: \_\_\_\_\_ ft. \_\_\_\_\_ in.

Footings Depth Below Grade: \_\_\_\_\_ in.

Footings: Width \_\_\_\_\_ in. Height \_\_\_\_\_ in.

Is the deck attached to the house? YES / NO



### ***Some requirements of the 2015 Michigan Residential Code Chapter 3, Section R507***

#### **Guards**

- Are required if the floor and stairs measures more than 30 inches above grade.
- Shall have a minimum height of 36 inches for floors and 34 inches for stairs off the nose of the tread.
- Shall be constructed so a 4-inch sphere cannot pass through.

#### **Stairway**

- Shall be a minimum of 36 inches in width.
- Shall have a maximum riser height of 8 1/4 inches and a minimum tread depth of 9 inches.

#### **Handrails**

- Are required on 4 or more risers.
- Shall have a minimum height of 34 inches and a maximum height of 38 inches measured vertically off the nose of the tread.
- Shall be continuous for the full length of the stairway and ends shall be returned to wall or post.
- Type I handrails shall be graspable measuring at least 1 1/4 inches and not greater than 2 inches in diameter unless the perimeter of a noncircular handrail is less than 6 1/4 inches, then it is allowed to be 2 1/4 inches in width.
- Type II handrails with a perimeter greater than 6 1/4 inches shall provide a graspable finger recess area on both sides of the profile that meets code requirements. The width of the handrail shall be no less than 1 1/4" and not more than 2 1/4".

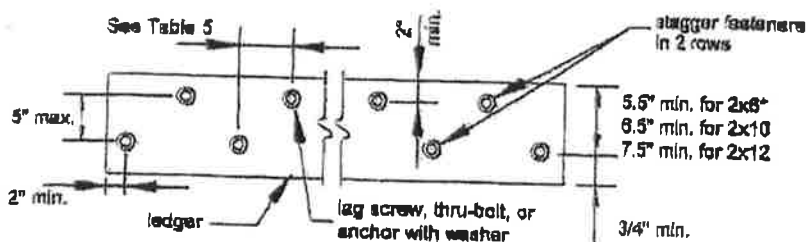
#### **Spans**

- Joist spacing & spans and beam spans shall meet the requirements of Tables R507.4, R507.5 and R507.6 (min. 1 1/2" bearing)

## Joist Spacing (O.C.)

Species	Size	12"	16"	24"
		Allowable Span		
Southern Pine	2x6	9'-11"	9'-0"	7'-7"
	2x8	13'-1"	11'-10"	9'-8"
	2x10	16'-2"	14'-0"	11'-5"
	2x12	18'-0" <sup>7</sup>	16'-6"	13'-6"
Douglas Fir-Larch, Hem-Fir, Spruce- Pine-fire	2x6	9'-6"	8'-4"	6'-10"
	2x8	12'-6"	11'-1"	9'-1"
	2x10	15'-8"	13'-7"	11'-1"
	2x12	18'-0"	15'-9"	12'-10"
Redwood, Western Cedars, Ponderosa Pine, Red Pine	2x6	8'-10"	8'-0"	6'-10"
	2x8	11'-8"	10'-7"	8'-8"
	2x10	14'-11"	13'-0"	10'-7"
	2x12	17'-5"	15'-1"	12'-4"

## Ledger Fastener Spacing and Clearances



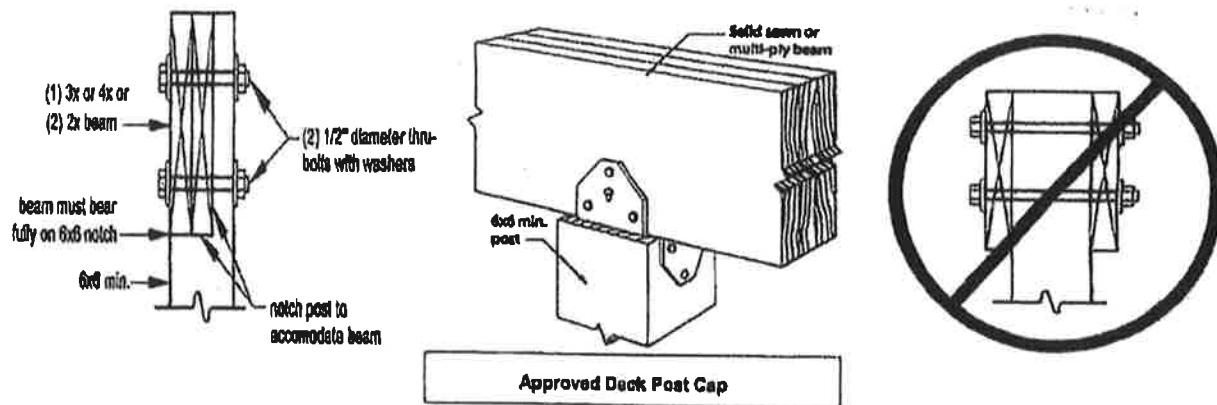
See Table 5.

\*Distance can be reduced to 4.5\"/>

TABLE 6

DECK POST SIZE	MAX HEIGHT
4 x 4	8'
4 x 6	8'
6 x 6	14'

## Deck Beam & Floor Joist Spans, Ledger Fastener Spacing and Handrail Detail



### Deck Beam Span Length

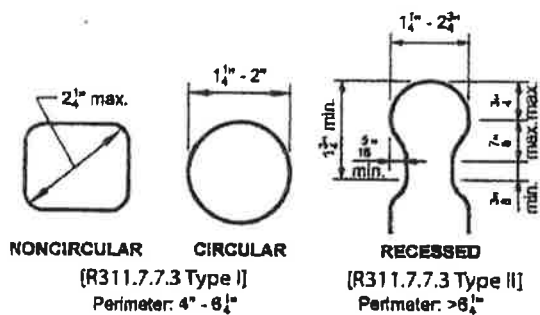
Species	Size	Deck Joist Span less than or equal to						
		6'	8'	10'	12'	14'	16'	18'
Southern Pine	2-2x6	6'-11"	5'-11"	5'-4"	4'-10"	4'-6"	4'-3"	4'-0"
	2-2x8	8'-9"	7'-7"	6'-9"	6'-2"	5'-9"	5'-4"	5'-0"
	2-2x10	10'-4"	9'-0"	8'-0"	7'-4"	6'-9"	6'-4"	6'-0"
	2-2x12	12'-2"	10'-7"	9'-5"	8'-7"	8'-0"	7'-6"	7'-0"
	3-2x6	8'-2"	7'-5"	6'-8"	6'-1"	5'-8"	5'-3"	5'-0"
	3-2x8	10'-10"	9'-6"	8'-6"	7'-9"	7'-2"	6'-8"	6'-4"
	3-2x10	13'-0"	11'-3"	10'-0"	9'-2"	8'-6"	7'-11"	7'-6"
	3-2x12	15'-3"	13'-3"	11'-10"	10'-9"	10'-0"	9'-4"	8'-10"
Douglas Fir, Larch, Hem-Fir, Spruce-Pine-Fir, Redwood, Western Cedars, Ponderosa Pine, Red Pine	3x6 or 2-2x6	5'-5"	4'-8"	4'-2"	3'-10"	3'-6"	3'-1"	2'-9"
	3x8 or 2-2x8	6'-10"	5'-11"	5'-4"	4'-10"	4'-6"	4'-1"	3'-8"
	3x10 or 2-2x10	8'-4"	7'-3"	6'-6"	5'-11"	5'-6"	5'-1"	4'-8"
	3x12 or 2-2x12	9'-8"	8'-5"	7'-6"	6'-10"	6'-4"	5'-11"	5'-7"
	4x6	6'-5"	5'-6"	4'-11"	4'-6"	4'-2"	3'-11"	3'-8"
	4x8	8'-5"	7'-3"	6'-6"	5'-11"	5'-6"	5'-2"	4'-10"
	4x10	9'-11"	8'-7"	7'-8"	7'-0"	6'-6"	6'-1"	5'-8"
	4x12	11'-5"	9'-11"	8'-10"	8'-1"	7'-6"	7'-0"	6'-7"
	3-2x6	7'-4"	6'-8"	6'-0"	5'-6"	5'-1"	4'-9"	4'-6"
	3-2x8	9'-8"	8'-6"	7'-7"	6'-11"	6'-5"	6'-0"	5'-8"
	3-2x10	12'-0"	10'-5"	9'-4"	8'-6"	7'-10"	7'-4"	6'-11"
	3-2x12	13'-11"	12'-1"	10'-9"	9'-10"	9'-1"	8'-6"	8'-1"



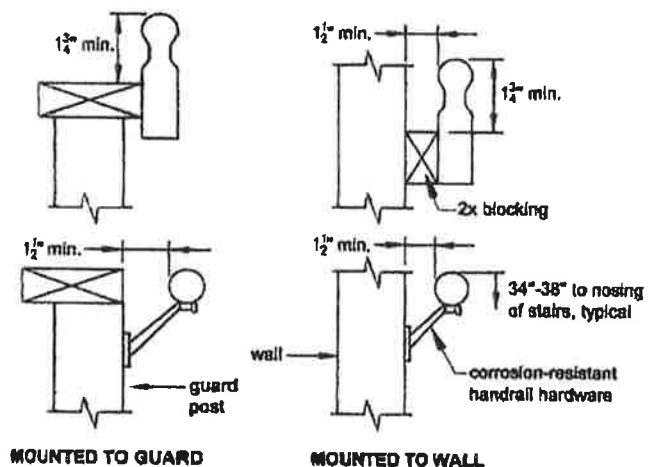
**Table 5**

		Joist Span						
	Rim Board or Band Joist	6'-0" and less	6'-1" to 8'-0"	8'-1" to 10'-0"	10'-1" to 12'-0"	12'-1" to 14'-0"	14'-1" to 16'-0"	16'-1" to 18'-0"
Connection Details		On-Center Spacing of Fasteners						
$\frac{1}{2}$ " diameter lag screw <sup>1</sup> with $\frac{15}{32}$ " maximum sheathing	1" EWP	24"	18"	14"	12"	10"	9"	8"
	1- $\frac{1}{8}$ " EWP	28"	21"	16"	14"	12"	10"	9"
	1- $\frac{1}{2}$ " Lumber	30"	23"	18"	15"	13"	11"	10"
$\frac{1}{2}$ " diameter bolt with $\frac{15}{32}$ " maximum sheathing	1" EWP	24"	18"	14"	12"	10'	9"	8"
	1- $\frac{1}{8}$ " EWP	28"	21"	16"	14"	12"	10"	9"
	1- $\frac{1}{2}$ " Lumber	36"	36"	34"	29"	24"	21"	19"
$\frac{1}{2}$ " diameter bolt with $\frac{15}{32}$ " maximum sheathing and $\frac{1}{2}$ " stacked washers <sup>2,7</sup>	1- $\frac{1}{2}$ " Lumber	36"	36"	29"	24"	21"	18"	16"

Fasten handrails per manufacturer recommendations



**Handrail Grip Size**



**Handrail Mounting Examples**

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1939 S. AURELIUS ROAD  
MASON, MI 48854  
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**Signature of property owner**

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**Print name of property owner**

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<b>Address</b>	<b>City</b>	<b>State</b>	<b>ZIP</b>
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**Date**

**Permit #** \_\_\_\_\_

**AURELIUS TOWNSHIP**  
**1939 S. Aurelius Road · Mason, Michigan 48854-9729**  
**(517) 628-2093 · Fax (517) 628-3989**

**REQUIREMENTS FOR DECKS, LANDINGS, STAIRS, GUARDRAILS AND HANDRAILS**

**LANDINGS**

1. There shall be a floor or landing on each side of each exterior door if the stairs serving the door has over two risers. The landing shall not be more than 7 ¾" below the top of the door threshold.
2. The width of the landing shall not be less than the door served and have a minimum of 36" in the direction of the travel.

**STAIRS**

1. The maximum riser height shall be 8 ¼". The greatest riser height shall not exceed the smallest by more than 3/8".
2. The minimum tread depth shall be 9". This is measured from the leading edge of each tread. The greatest tread depth shall not exceed the smallest by more than 3/8".

**GUARDRAILS**

1. Guards are required if the floor of the deck or landing is 30 inches or more off the ground. Guards must be a minimum of 36" high.
2. Open sides of stairs with a total rise of more than 30 inches above the ground below shall have guards not less than 34 inches in height measured vertically from the nosing of the treads.
3. Required guards on open sides of stairways, porches, decks or landings shall have intermediate rails which do not allow passage of a sphere 4 inches or more in diameter.

**HANDRAILS**

1. Handrails shall be provided on at least one side of stairs with four or more risers and be continuous the full length of the stairs.
2. Handrail height shall not be less than 34 inches and not more than 38 inches. The height is measured vertically from the leading edge (nosing) of the tread.
3. Handrails must be gripable and must provide a graspable finger area on both sides. A minimum of 1 ¼" diameter and a maximum of 2 ¾" is required. A solid 2 x 4 or 2 x 6 on edge or laying flat is not a gripable handrail.

**FOOTING SIZES FOR POLE BUILDINGS: THIS IS FOR 3000# PER SQUARE FOOT SOIL CAPACITY**

WIDTH OF BUILDING	POLE SPACING FOR SINGLE STORY BUILDING						
	4 FEET	6 FEET	8 FEET	10 FEET	12 FEET	14 FEET	16 FEET
16 FEET	6"X12"	6"X12"	6"X14"	6"X14"	8"X16"	8"X18"	8"X18"
20 FEET	6"X12"	6"X12"	6"X14"	8"X16"	8"X18"	10"X20"	10"X20"
24 FEET	6"X12"	8"X16"	8"X16"	8"X18"	10"X20"	10"X22"	10"X22"
28 FEET	6"X12"	8"X16"	8"X18"	10"X20"	10"X22"	10"X22"	12"X24"
32 FEET	6"X12"	8"X16"	8"X18"	10"X20"	10"X22"	12"X24"	12"X26"
36 FEET	6"X12"	8"X18"	10"X20"	10"X22"	12"X24"	12"X26"	12"X28"
40 FEET	6"X14"	8"X18"	10"X20"	12"X24"	12"X26"	12"X28"	12"X28"
44 FEET	8"X16"	8"X18"	10"X22"	12"X24"	12"X26"	12"X28"	14"X30"
48 FEET	8"X16"	10"X20"	10"X22"	12"X26"	12"X28"	14"X30"	14"X32"
52 FEET	8"X16"	10"X20"	12"X24"	12"X26"	12"X28"	14"X30"	14"X32"
56 FEET	8"X18"	10"X22"	12"X24"	12"X28"	14"X30"	14"X32"	16"X34"
60 FEET	8"X18"	10"X22"	12"X26"	12"X28"	14"X30"	16"X34"	16"X36"
64 FEET	8"X18"	10"X22"	12"X26"	12"X28"	14"X32"	16"X34"	16"X36"

**FOOTING CONCRETE:**

FOOTING SIZE	APPROXIMATE NUMBER OF REDI-MIX BAGS OF CONCRETE*	
	80# BAGS	50# BAGS
6"X12"	1 BAG	1 BAG
6"X14"	1 BAG	1 1/2 BAGS
8"X16"	1 1/2 BAGS	2 1/2 BAGS
8"X18"	2 BAGS	3 BAGS
10"X20"	2 1/2 BAGS	4 1/2 BAGS
10"X22"	3 1/2 BAGS	5 1/2 BAGS
12"X24"	4 1/2 BAGS	7 1/2 BAGS
12"X26"	5 1/2 BAGS	9 BAGS
12"X28"	6 1/2 BAGS	10 1/2 BAGS
14"X30"	8 1/2 BAGS	14 BAGS
14"X32"	10 BAGS	15 1/2 BAGS
16"X34"	12 1/2 BAGS	20 1/2 BAGS
16"X36"	14 1/2 BAGS	23 BAGS

\*Above numbers are rounded to nearest 1/2 bag. 1 1/2 - 80 pound bags or 2 1/2 - 50 pound bags equal approximately 1 cubic foot of mixed concrete based on information provided by QUIKRETE® Concrete Supply Company.

**CARRIER SIZES FOR POLE BUILDINGS: THIS IS FOR SPRUCE-PINE-FIR #2 OR BETTER**

WIDTH OF BUILDING	POLE SPACING FOR SINGLE STORY BUILDING						
	4 FEET	6 FEET	8 FEET	10 FEET	12 FEET	14 FEET	16 FEET
16 FEET	2-2"X4"	2-2"X6"	2-2"X8"	2-2"X10"	2-2"X12" <sup>1A</sup>	3-2"X12" <sup>1C</sup>	3-2"X12" <sup>1C</sup>
20 FEET	2-2"X6"	2-2"X8"	2-2"X8"	2-2"X10"	2-2"X12" <sup>1A</sup>	3-2"X12" <sup>1C</sup>	4-2"X12"
24 FEET	2-2"X6"	2-2"X8"	2-2"X10"	2-2"X10"	2-2"X12" <sup>1A</sup>	3-2"X12" <sup>1C</sup>	4-2"X12"
28 FEET	2-2"X8"	2-2"X10"	2-2"X12" <sup>1A</sup>	3-2"X12" <sup>1C</sup>	4-2"X12"		
32 FEET	2-2"X8"	2-2"X12" <sup>1A</sup>	2-2"X12" <sup>1A</sup>	3-2"X12" <sup>1C</sup>	4-2"X12"		
36 FEET	2-2"X8"	2-2"X12" <sup>1A</sup>	3-2"X12" <sup>1C</sup>	4-2"X12"	4-2"X12"		
40 FEET	2-2"X10"	3-2"X10" <sup>1B</sup>	3-2"X12" <sup>1C</sup>	4-2"X12"			
44 FEET	2-2"X10"	3-2"X10" <sup>1B</sup>	4-2"X10"	4-2"X12"			
48 FEET	2-2"X12" <sup>1A</sup>	3-2"X12" <sup>1C</sup>	4-2"X12"				
52 FEET	2-2"X12" <sup>1A</sup>	3-2"X12" <sup>1C</sup>	4-2"X12"				
56 FEET	2-2"X12" <sup>1A</sup>	3-2"X12" <sup>1C</sup>	4-2"X12"				
60 FEET	3-2"X10" <sup>1B</sup>	4-2"X10"					
64 FEET	3-2"X10" <sup>1B</sup>	4-2"X10"					

MUST BE ENGINEERED

<sup>1A</sup>3-2"X10" MAY BE USED INSTEAD OF 2-2"X12"

<sup>1B</sup>4-2"X8" MAY BE USED INSTEAD OF 3-2"X10"

<sup>1C</sup>4-2"X10" MAY BE USED INSTEAD OF 3-2"X12"

**BUILDING DIMENSIONS AND DOOR AND WINDOW OPENING LOCATIONS:**

PLEASE DRAW IN ALL DOORS AND WINDOW, SHOW SIZES, AND WRITE IN THE DIMENSIONS OF THE BUILDING

FEET

FEET

Effective Date: 09-Mar-2011