JobNimbus

Calculations Compendium

A comprehensive collection of common equations for use in JobNimbus.

Roofing Calculations

Shingles MEASUREMENT UNIT: SQ FT UNIT QTY: BDL OR SQ FT Typical bundle of shingles covers 33 Square Feet. Dividing 33 from your Total Roof Area (with waste) gives the quantity of bundles needed for the job. If preference is to price per square for shingles then dividing by 100 will give you the quantity of squares ICCE & Water Barrier MEASUREMENT UNIT: LF UNIT QTY: RL	Total Roof Area *(1 + Suggested Waste %) 33 OR Total Roof Area *(1 + Suggested Waste %) 100 (Total Eaves + Total Valleys) x 1.1
2 SQ rolls typically cover 66 linear feet (brand may vary) this combines application on eaves and rakes adding 10%.	66
Synthentic Underlayment MEASUREMENT UNIT: SQ FT UNIT QTY: RL Comes in 10 SQ (1000 square feet) rolls so this simply takes your Total Square Footage and divides by 1000.	Total Roof Area 1000
Valley Metal MEASUREMENT UNIT: LF UNIT QTY: PC Assumes that a standard piece of valley metal is 10 feet. Waste may be added to this but typically not.	Total Valleys 10
Drip Edge MEASUREMENT UNIT: LF UNIT QTY: PC Standard is 10 feet pieces. This adds rakes and eaves and divides by 10 (per piece coverage) to get quantity.	Total Rakes + Total Eaves
Starter Shingles MEASUREMENT UNIT: LF UNIT QTY: BDL Assumes 120 linear feet per bundle. Adjust to 100, 116 etc. depending on how many LF brand specific covers.	Total Eaves + Total Rakes 120
Hip & Ridge Cap Shingles MEASUREMENT UNIT: LF UNIT QTY: BDL 2 SQ rolls typically cover 66 linear feet (brand may vary) this combines application on eaves and rakes adding 10%.	Total Hips + Total Ridges 33

Ridge Vents MEASUREMENT UNIT: LF UNIT QTY: PC This assumes typical 4' ridge vent pieces, and usually there is no waste %.	Total Ridges 4
Labor - Price Per Square MEASUREMENT UNIT: SQ FT UNIT QTY: SQ A simple calculation for pricing labor rates on a per square basis.	Total Roof Area 100 OR Total Roof Area x (1 + Suggested Waste %)
If the customer is opting to include a suggested waste percentage in the labor calculation (many do not)	100
Labor - Steep Pitch MEASUREMENT UNIT: SQ FT UNIT QTY: SQ Simple calculations for specific pitch region of a roof. One of these calculations needed for each pitch line item.	7/12 8/12 9/12 10/12 100 OR 100 OR 100 100
Labor - Difficult Access MEASUREMENT UNIT: SQ FT UNIT QTY: SQ Used when accessing a worksite / roof is particularly difficult and requires additional consideration.	(Total Roof Area / 100) x Difficult Access (0=No 1=Yes
Labor - 2-Story Install MEASUREMENT UNIT: SQ FT UNIT QTY: SQ Calculates the numbers of squares in a defined 2nd story area of a roof.	2-Story Roof Area 100
Labor - Install Ridge Vent MEASUREMENT UNIT: LF UNIT QTY: LF Basic calculation for ridge vent installation.	Total Ridges
Labor - Additional Layer Tear-Off MEASUREMENT UNIT: SQ FT UNIT QTY: SQ Calculates total roof area, multiplied by the number of layers. (This is typically not known ahead of time).	(Total Roof Area / 100) x # of additional layers

Labor - Gutter Install MEASUREMENT UNIT: LF UNIT QTY: LF Simple calculation based upon Total Eaves , measurement token.

Total Eaves

Fencing Calculations

Fence Boards

MEASUREMENT UNIT: LF UNIT QTY: EACH

Simple calculation for number of fence boards required for a given length of fencing. Does not include posts -This example is using 6" wide boards.

If using a different width of board, adjust the calculation to match. IE: using 4" boards means 3 boards per foot.

Fence Posts

MEASUREMENT UNIT: LF UNIT QTY: EACH

Divide the total length of the fence by the distance between posts and add 1 to equation for the last post.

Fence Rails

MEASUREMENT UNIT: LF UNIT QTY: EACH

Rails are the support between your posts for your fence boards. Most fences have 2-3 rails. Fence 6FT+ require 3.

Post Base/Caps

MEASUREMENT UNIT: LF UNIT QTY: BDL OR SQ FT.

Similar calculation to fence posts and used in tandem with that line item. Adjust to match distance between posts.

Pre-Fab Sections

MEASUREMENT UNIT: LF UNIT QTY: PIECE/EACH

Assumes that a standard pre-fab section is 6FT in length (Most common section sizes are 6, 8 or 10 FT sections).

Chain Link Fencing

MEASUREMENT UNIT: LF UNIT QTY: ROLL

Standard chainlink comes in rolls of 60Ft (18 Meters). Divide total length of fence by length of rolls.

Fencing Labor

MEASUREMENT UNIT: LF UNIT QTY: LF

Average labor rates will vary depending on region & season Most are billed on either a LF or per section rate.

Total Fence Length (LF) x 2 OR Total Fence Length (LF) x 3

(Total Fence Length (LF) / 8) + 1

(Total Fence Length (LF) / 8) x 3

(Total Fence Length (LF) / 8) + 1

Total Fence Length (LF) / 6 OR Total Fence Length (LF) / 8

Total Fence Length (LF)

60

Total Fence Length (LF)

Total Fence Length (LF) / 6



Ext. Paint Calculations

Prepwork

MEASUREMENT UNIT: SQ FT UNIT QTY: HRS A simple calculation for scraping, sanding and spot priming.

Labor - Siding Paint

MEASUREMENT UNIT: SQ FT UNIT QTY: HRS

This is specific to 2 full coats of paint to all selected house siding areas. 2nd coats of paint require 70% material of 1st.

Brushwork Labor - Trim

MEASUREMENT UNIT: LF UNIT QTY: HRS

This is specific to 2 full coats to all selected trim areas with premium products. 2nd coats require 70% material of 1st.

Doors - Brush & Roll

MEASUREMENT UNIT: EACH UNIT QTY: HRS 2 full coats of paint to all selected door areas with premium products. 2nd coats require 70% material of 1st.

Additional Bulk Time

MEASUREMENT UNIT: HRS UNIT QTY: HRS Additional time given due to the challenging nature of certain project areas.

Siding Paint - 2 Coats

MEASUREMENT UNIT: SQ FT. UNIT QTY: SQ FT.

Calculates all paint for 2 coats to selected exterior house siding surfaces. 2nd coats require 70% material of 1st coat.

Trim & Door Paint

MEASUREMENT UNIT: EACH/LF UNIT QTY: HRS

Calculates all paint for 2 coats to selected trim & door surfaces. 2nd coats require 70% material of the 1st.

Paint Disposal/Cleanup

MEASUREMENT UNIT: CUBIC INCHES UNIT QTY: TONS

Simple calculation for product and waste disposal costs.

Prep: Hours

(Painting: Siding Sq Ft / 110) x 1.7

Painting: Trim - Hours x 1.7

Painting: Door Hours x 1.7

Misc. Additional Bulk Time in 20 min units

3

((Painting: Siding Sq Ft + Painting: Stucco Sq Ft) / 250) x 1.7

(((Painting: Trim Hours + Painting: Door Hours) / 15) + (Painting: Trim 15' units / 25)) x 1.7

Misc. Cleanup Hours

Int. Paint Calculations

Prepwork - Minor

MEASUREMENT UNIT: SQ FT UNIT QTY: HRS

A simple calculation for scraping, sanding and spot priming.

Prepwork - Major

MEASUREMENT UNIT: SQ FT UNIT QTY: HRS

Calculation for additional patchwork/repair and sanding time to damaged walls in selected areas.

Prepwork - Pole Sanding

MEASUREMENT UNIT: SQ FT UNIT QTY: HRS Determine prep work required for pole sand any rough or uneven areas

Prepwork - Drop Cloth

MEASUREMENT UNIT: EACH UNIT QTY: EACH This is specific to 2 full coats to all selected trim areas with premium products. 2nd coats require 70% material of 1st.

standard 8ft walls. 2nd coat of paint requires 70% material.

Labor - Int. Paint

MEASUREMENT UNIT: LF & SQ FT UNIT QTY: HRS 2 full coats of paint to all selected areas. Based upon

(((Paint: 8' wall linear x 8) + Paint: Additional Wall Sq Ft) / 150) x 1.7

Labor - Paint Trim

MEASUREMENT UNIT: HRS UNIT QTY: HRS 2 coats to all selected trim areas. 2nd coat requires 70% material of 1st.

Labor - Paint Door

MEASUREMENT UNIT: HRS UNIT QTY: HRS

2 coats to all selected door areas. 2nd coat requires 70% material of the 1st.

Labor - Paint Railings

MEASUREMENT UNIT: HRS UNIT QTY: HRS

2 coats to all selected house railings, spindles and surrounding trim areas. 2nd coat requires 70% material.

Painting: Door Hours x 1.7

Painting: Trim Hours x 1.7

(Painting: Railings - # of Spindles / 12) x 1.7

Prep: Pole Sanding Sg Ft

Prep: Hours (Major Repair)

Prep: Hours

400

Misc: Number of Rooms

Paint - Trim & Door

MEASUREMENT UNIT: LF/HR UNIT QTY: GAL

2 coats to all selected trim and door surfaces. 2nd coat requires 70% material. ((Painting: Railings - # of Spindles / 150) + ((Painting: Trim Hours + Painting: Door Hours) / 15) + (Painting: Trim in 15' units / 25)) x 1.7

Paint - Walls

MEASUREMENT UNIT: SQ FT/LF UNIT QTY: GAL

Calculation for all paint work to walls, with 2 coats to selected wall surfaces. 2nd coat uses 70% material of 1st.

Paint - Disposal

MEASUREMENT UNIT: HRS UNIT QTY: HRS

This is specific to 2 full coats to all selected trim areas with premium products. 2nd coats require 70% material of 1st.

Paint - Special Conditions

MEASUREMENT UNIT: HRS UNIT QTY: HRS

Addtional time given to access seldcted areas safely. Ladder placements, equipment setup etc.

Additional Bulk Time

MEASUREMENT UNIT: HRS UNIT QTY: HRS

Calculation for additional time needed given due to the challenging nature of certain project areas.

(((Painting: 8' wall linear x 8) + Painting: Additional Wall Sq Ft) / 400) x 1.7

Misc: Clean-up Hours

Misc: Special Condition 20 min unit

3

Misc: Special Condition 20 min unit

3

