Roofing Measurement Guide

Free metal roofing information

This information was gathered from several sources and websites.
**ROOF MEASUREMENT DIAGRAM**

Measure the Width of the home and the Height of the Roof Rafter.  
Width $\times$ Height = Total Square Feet

![Diagram of a house with measurements marked]

Each home will have front and back, with additions, dormers and other rooflines that will need to be included. Use the same method of measure with Width times Height.  

$W \times H = \text{Sq. Ft.}$

Allowing extra waste on each rooflines.  
You do not want the measurements to be short of materials.

When measuring the roof calculations always remember to add 10% for waste of the materials and included starter shingles and ridge caps (3) bundles of every 40' lift.

<table>
<thead>
<tr>
<th>Roof Section</th>
<th>Width</th>
<th>Length</th>
<th>Total Square Feet</th>
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</table>

$W \times H = \text{Sq. Ft.}$

Total Square Feet Roofing: __________________________ Square Feet
**Metal Roofing Accessories**

**Fitted Ridge Cap**

**Fitted Wall Flashing**
- Covers 2 panels, for Security, Pocket and Ameri-cana.

**Fitted Hip Cap**
- Covers 2 panels, for Security, Pocket and Ameri-cana.

**Ridge Roll**
- 10’ lengths, 12” girth

**Ridge Vent**
- 10’ lengths with mesh filter.
- Provides 86 sq. inches of opening per piece.
- End caps available.

**Low Profile Ventilator**
- 4’ lengths, provides 1.95 sq. ft. of opening per piece.
- Available in galvanized, galvalume and white.
- Special order for other pre-painted finishes.

**Foam Closure Strips**
- Ridge (large tabs)
- Eave (small tabs)


**Metal Closures**
- Ridge (large tabs)
- Eave (small tabs)

**Valleys**
- 10’ lengths.
- Available girths: 18”, 24” and 36”.

- Standard type valley
- “W” type valley

**Starter for Shingles**
- 3’
- 7/6”
- 10’ lengths

**“Sno-Gem”**

**“Ideal Guard”**
- In stock: 2 hole brackets (special order for some colours)
- Also available, on special order, 1, 3 and 4 hole brackets.
- #14 x 2” screws metal–wood, with washers, are included.

**“Dektite”**

Round pipe rubber flashing

*“Dektite”*
- Size #3 fits 1/4” to 4” dia.
- Size #4 fits 3” to 6” dia.
- Size #8 fits 7” to 13” dia.
- Size #9 fits 10” to 18” dia.

**“Retrofit Dektite”**
- High Temp. Silicone #8 fits 7” to 13” dia.
- **Retrofit #802 fits 2” to 7-1/4” dia.**

**Fibreglass Panels**
- 8’, 10’ and 12’ lengths


**PolyCarbonate Panels**
- 8’, 12’ and 16’ lengths

**(clear) or (smoke finish)**

**Butyl Tape**
- (30’ roll)

**50’ Rolls**

**Sealant Tape**
- Foam (50’ roll)

**Touch Up Paint**
- 10 oz
- 1 Gallon (special order)

**Caulking**
- Supra Expert
- Synthetic rubber (Black)
- (Check for available colours)

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*Metal Roofing Accessories* REV. JAN 9 '06
Recommendations for Application of Metal Roofing and Siding

IMPORTANT NOTICE:
- Due to the coating process, plain galvanized and galvalume steel panels may vary in their brightness and size of zinc spangle.
- When ordering galvanized pre-painted panels, it is always preferable to order all items of the same colour at the same time to avoid slight colour differences between batches.

STORAGE:
Moisture, condensation, wind driven rain can cause water stainage, on stacked galvanized and pre-painted steel roofing and siding during storage.
- At reception of metal cladding, polyethylene wrapping must be taken off to avoid any condensation.
- Storage time should be minimized by installing cladding panels as soon as possible after delivery.
- If cladding must be stored for an extended period, the ideal storage place is under a roof in a cool, dry, well ventilated area.
- When outdoor storage is unavoidable, the following is recommended:
  a) Use good quality covers other than plastic, loosely shrouded over stacks and firmly anchored to prevent wind blow-off.
  b) Tilt bundles for drainage.
  c) Block bundles off the ground for effective ventilation and drainage.
  d) Store away from chemically aggressive substances (e.g. salt, cement, fertilizer) and away from materials that could contaminate the surface (e.g. diesel, oil, paint, grease).

CUTTING:
- Snips, nibblers are ideal for cutting metal roofing and siding.
- A high speed disc cutter (hand power saw) is not recommended, but if the tool must be used on material that will be exposed cut only one sheet at a time, exposed side down, away from other sheets and do not force the cutting disc. Roofing and siding sheets should be wiped off to eliminate metal residue from the surface of the sheets.

STRAPPING:
Refer to product load tables for support spacing or consult our offices.

METAL ROOFING FOR RESIDENTIAL USE:
- Steel roofing should be installed over a solid backing (e.g., plywood, OSB). Remove existing asphalt shingles and inspect the solid sheathing before installing the steel roof. Use underlayment, such as “Ice & Water Shield” on the first three feet from the eaves and roofing paper, such as “Typar” or “Tyvek” or others on the remainder of the roof.
- For re-roofing over existing shingles, install strapping (1”x4”) over the shingles (consult our offices for the spacing for the wood furrings).
- In the case where wood strapping is fastened directly to the rafters (with no solid sheathing), an air-barrier such as “Typar”, “Tyvek” or others should be installed underneath the steel roofing for added protection in case of condensation.
FITTINGS, FLASHINGS & TRIMS

imal roofing
Company Ltd. Manufacturers

1418 Michael St., Ottawa, Ontario K1B 3R2
Tel.: (613) 746-3206
Fax: (613) 746-0445
Wats Line: 1-800-267-0860
E-mail: info@idealroofing.ca
Website: www.idealroofing.com
1. Dormer Cap (Satin Coat Finish)
   **DekTite**
   *Size #3 fits 1/4" to 4" dia.
   *Size #4 fits 3" to 6" dia.
   *Size #8 fits 7" to 13" dia.
   *Size #9 fits 10" to 18" dia.
   **Retrofit DekTite**
   *High Temp. Silicone #8 fits 7" to 13" dia.
   **Retrofit #802 fits 2" to 7-1/4" dia."
   Both Main Roof pitch and Dormer pitch required

2. Ridge Roll (10’ pcs) with Foam Closure Strip (covers 1 panel)
   "W" Valley
   18"
   24"
   36"
   "W" Valley 10’ pieces

3. Valley or...

4. Ridge Vent #206 (10’ pcs), End Caps with Foam Closure Strip (covers 1 panel)

5. Ridge Vent #206 (10’ pcs), End Caps with Foam Closure Strip (covers 1 panel)

6. Flat sheet to make cricket flashing (on site)

7. Rake Edge Trim #411
   10’ and 14’ pieces

8. Snow Gern

9. Fitted Wall flashing
   (Covers 2 panels)

10. Cottage Roof Cap #210 (10’ pcs) and small Square Foam Closure (15’ roll)

11. Wall Flashing Type S #205

12. Steel Roof Drip Edge #414 (10’ pcs) with Foam Closure Strip (covers 1 panel)
<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>Code</th>
<th>Dimensions</th>
<th>Notes</th>
</tr>
</thead>
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<tr>
<td>13</td>
<td>Fastening on Metal Roofing (Screw through ribs)</td>
<td></td>
<td></td>
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<tr>
<td>14</td>
<td>Fitted Ridge Cap (covers 2 panels) with Foam Closure Strip (covers 1 panel)</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>15a</td>
<td>Fascia and Soffit: Type 1 J #402 (10’ pcs) with Foam Closure Strip (covers 1 panel)</td>
<td></td>
<td>Roof pitch required</td>
<td></td>
</tr>
<tr>
<td>15b</td>
<td>&quot;F-J&quot; trim #317</td>
<td></td>
<td>3/4&quot;</td>
<td></td>
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<tr>
<td>16</td>
<td>Cover for &quot;Round&quot; Sliding Door Track #315 (10’ pcs) with Sliding Door Hardware</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Base Flashings</td>
<td>#302</td>
<td>2 1/8&quot;</td>
<td>64&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>#316</td>
<td>1/8&quot;</td>
<td>2&quot;</td>
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<td></td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>18</td>
<td>J-trim #301</td>
<td></td>
<td></td>
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<tr>
<td>19</td>
<td>Inside Corner #305</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>Outside Corners</td>
<td>#304</td>
<td>10’ pieces</td>
<td></td>
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<td></td>
<td></td>
<td>#411</td>
<td>10’ or 14’ pieces</td>
<td></td>
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<tr>
<td>21</td>
<td>Window &amp; Door Flashing #303</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>Gable divider #307</td>
<td></td>
<td>10’ pieces</td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>Fiberglass Panel (lightweight profiles)</td>
<td></td>
<td></td>
<td>Ameri-Cana</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Canadiana</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Pocket Rib</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>Security Rib</td>
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<td></td>
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<td></td>
<td></td>
<td>Available in 8’, 10’ and 12’ lengths in Clear White. Security and Pocket Rib also available in Apple Green</td>
</tr>
<tr>
<td>24</td>
<td>End Box for Fascia and Soffit #413</td>
<td></td>
<td></td>
<td>Right or Left (As viewed from the gable end)</td>
</tr>
</tbody>
</table>

Notes:
- A, B, C, X, Y are dimensions specific to the diagram.
Preparation
- Plan the installation and rearrange your site to receive the material in the appropriate locations.
- Check roof squareness. At the corner where an eave and gable meet, measure eight feet along the eave purlin and mark. Then measure six feet up the gable edge from the eave and make another mark. Measure the distance between the two marks. If it is exactly ten feet, you have a square roof at that corner. Check all roof corners using this method.
- Make sure that you check the total width of the installed panels as you go along. Do not stretch the panel side way to compensate for the lack of squareness of your roof. This might cause local buckling of the material.
- Check the deflection on your roof prior to installing the panels. Use a string between the top and the bottom of the truss and check for any deflection. Shim the backing accordingly to receive the metal panels.

NOTE: The following instructions assume that the roof is square. If the roof is not square, the sheet along the gable can be trimmed along its length to match. A gable flashing is used to reduce the visual impact of the trimmed sheet.

Storage
- Moisture, condensation, wind driven rain can cause water stain, on stacked galvanized and pre-painted roofing and siding during storage.
- At reception of metal cladding, polyethylene wrapping must be taken off to avoid any condensation.
- Storage time could be minimized by installing the panels as soon as possible after delivery.
- If cladding must be stored for an extended period, the ideal storage place is under a roof in a cool, dry, well ventilated area.
- When outdoor storage is unavoidable, the following is recommended:
  1. Use good quality covers other than plastic, loosely shrouded over stacks and firmly anchored to prevent wind blow-off
  2. Tilt bundles for drainage
  3. Block bundles off the ground for effective ventilation and drainage
  4. Store away from chemically aggressive substances (e.g. salt, cement, fertilizer) and away from materials that could contaminate the surface (e.g. diesel, oil, paint, grease)

Tools and equipment
- Electric screw gun with adjustable torque.
- Snips or nibblers.
- High speed disc cutter (hand power saw) is not recommended. If the tool must be used, cut only one sheet at a time, and make sure that the painted surface faces downward. Keep away from other sheets since the filings will damage the paint finish. Wipe off all metal filing from the surface of the sheets.
- Chalk line, working gloves, proper eye protection, tape measure, string and screw (nail) apron.

Important notice
- Due to the coating process, plain galvanized and galvalume steel panels may vary in their brightness and size of zinc spangles.
- When ordering pre-painted panels, it is always preferable to order all items of the same color at the same time to avoid slight color differences between batches.
- The material should be checked against the shipping list as soon as it is received. Any damage or shortage of material on the bill of lading should be noted and reported to the driver or to our offices immediately.
- Failing to apply any of the above instructions will result in total refusal for any claim to Ideal Roofing.

QUICK REFERENCE

<table>
<thead>
<tr>
<th>Lightweight steel and aluminum cladding</th>
<th>RIB WIDTHS</th>
<th>PROFILE WIDTHS</th>
<th>RIB HEIGHT</th>
<th>FITTED FLASHINGS</th>
<th>FOAM CLOSURE STRIPS</th>
<th>METAL CLOSURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>SECURITY RIB</td>
<td>R/S</td>
<td>35.5”/36”</td>
<td>31”</td>
<td>0.5”</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>POCKET RIB</td>
<td>R</td>
<td>35.5”/36”</td>
<td>29”</td>
<td>0.75”</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>SQUARE RIB</td>
<td>S</td>
<td>35.5”/36”</td>
<td>29.5”</td>
<td>0.75”</td>
<td>X</td>
<td>N/A</td>
</tr>
<tr>
<td>COLUMBUS RIB</td>
<td>S</td>
<td>35.5”/36”</td>
<td>33.25”</td>
<td>0.375”</td>
<td></td>
<td>N/A</td>
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<tr>
<td>LAURELTON RIB</td>
<td>S</td>
<td>35.5”/36”</td>
<td>30”</td>
<td>0.5”</td>
<td>X</td>
<td>N/A</td>
</tr>
<tr>
<td>CANADIAN PANEL</td>
<td>S</td>
<td>41”</td>
<td>36”</td>
<td>0.625”</td>
<td>X</td>
<td>N/A</td>
</tr>
<tr>
<td>AMERI-CANA PANEL</td>
<td>R/S</td>
<td>41”</td>
<td>36”</td>
<td>0.75”</td>
<td>X</td>
<td>X</td>
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</tbody>
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~TO DETERMINE HOW MANY COVERED SQUARES, USE THIS FORMULA:

\[
\text{Sheet Width (after forming)} = \text{number of sheets required} \\
\times \text{number of sheets} \times \text{sheet length (inches)} \times \text{panel width} = \text{covered squares} \\
14400
\]

EXAMPLE: (using the Ameri-Cana profile)

\[32” \div 0.5” = 10.6 \text{ SHEETS} \ \
\text{USE} 11 \text{ sheets for one side} \\
\text{22 SHEETS} \times 144” \times 36” = 7.92 \text{ COVERED SQUARES} \\
14400
\]

- Pre-painted side
- Stiffener ribs can be added or removed
- R/S Roof or siding application
- Fitted ridge cap, fitted wall flashing, fitted hip cap
- Foam Closure Strip: Over/Under sheet
- Metal Closure: NOT AVAILABLE for the lightweight profiles
RIDGE VENT
FAITIERE VENTILÉE

- Continuous rows of louvres on both sides provide 86 in² of opening per 10 ft. long piece.
- Des rangées d'auvents de chaque côté fournissent une ouverture de 86 po² par longueur de 10 pieds.
Roofing Worksheet

Remember to include all your rake trim and edge metal so you do not come up short and add a roll of coil for the chimney flashing.

Add up all the panels and calculate the square footage, but most importantly measure the panels for the correct lengths.

WxH for both sides = square footage

______________________________________  

______________________________________  

______________________________________