

Sound Building Supply

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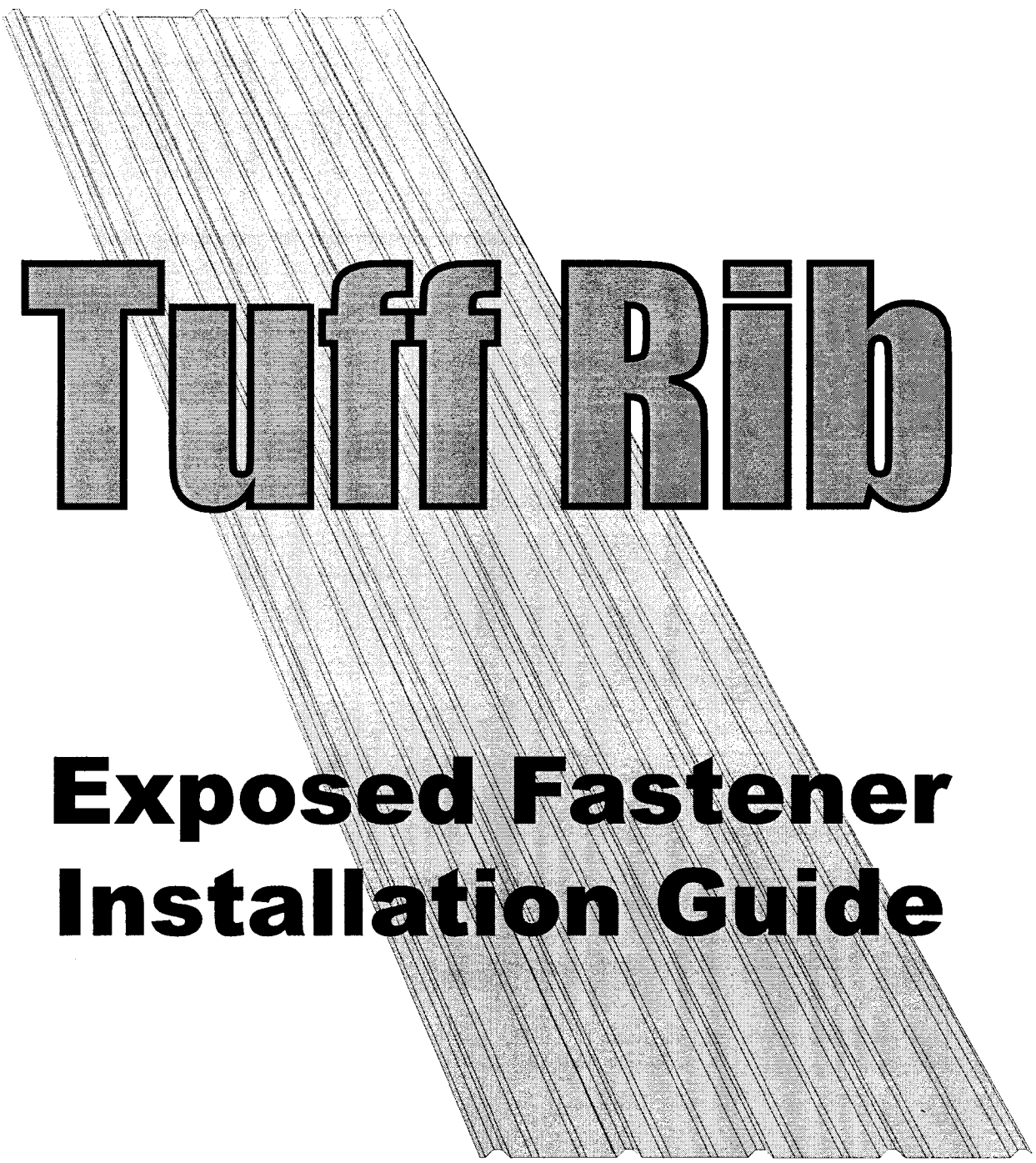
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Tuff Rib

Exposed Fastener Installation Guide

Sound Building Supply, Inc.

Exposed Fastener Panel and Trim Installation Guide

This manual is intended to assist you in the proper application of your Sound Building Supply Inc. roofing components. While it cannot possibly cover the infinite variable details you may encounter, it will provide you with the basics for installing a metal roof system. The dealer from whom you have purchased your materials is very knowledgeable and well trained, and will be able to assist you in dealing with conditions not specifically covered in this manual.

Step 1. RECEIVING MATERIAL

Upon receiving your materials, check to make sure the order is complete and undamaged.

- Handle bundles and individual panels with care, to avoid damage.
- Store panels and other materials in a dry, well-ventilated location out of the way of traffic.
- Storing panels in wet conditions may result in deterioration of the panels.
- Always wear clean, non-marking, soft-soled footwear when walking on panels, to avoid damage to the finish.

Step 2. ASSEMBLE TOOLS

Before proceeding with your installation, have the following tools assembled and in good working condition

Required Tools:

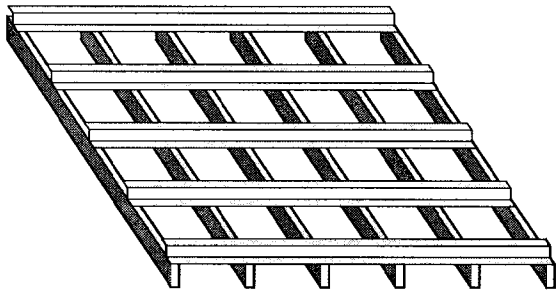
- Screw gun - 1/4" and/or 5/16" hex sockets are required (2,000 RPM minimum).
- Tin snips - Three pairs required for left edge, right edge, and centerline cuts.
- Chalk line - Used for alignment and marking.
- Caulking gun and sealant.
- Marking tools- indelible marker, pencils*, or scratch awls
 - *Never use pencils to mark galvanized panels...graphite will react with the zinc, causing oxidation.
- Utility knife - for miscellaneous cutting.
- String line - for general alignment and measuring.
- Measuring tape - at least a 25 footer (additional 50 footer is handy)
- Locking Pliers - standard and "Duckbill" style.

Optional tools:

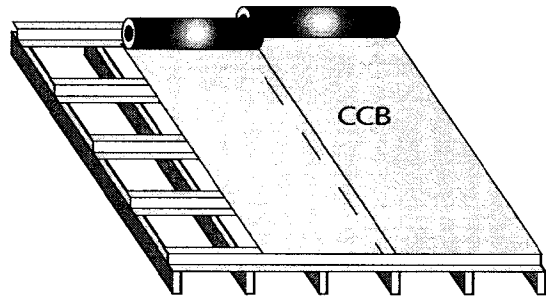
- Electric sheet metal shears - labor saving device for cutting hips, valleys, etc.
- Electric drill
- Circular saw equipped with metal cutting blade

Roof Preparation

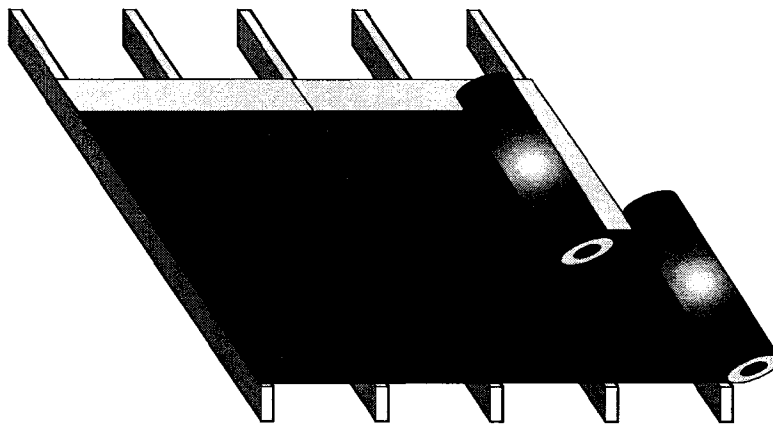
In order to get the best service from your Tuff Rib roofing system, great care must be taken in preparing the roof substrate before installing the roof system. If you are replacing an existing roof, be sure that the surface is cleared of all debris, protruding fasteners and irregularities. The underlayment should be checked at this time, and any decayed lumber should be replaced.



When installing metal panels over purlins 24" or 30" o.c., it is recommended that a condensation control blanket (CCB) be installed first. Both the CCB and the metal panels should be installed perpendicular to the purlins and parallel with the rafters. When installing the CCB, be mindful of the prevailing wind direction, and lap the blanket against the weather.



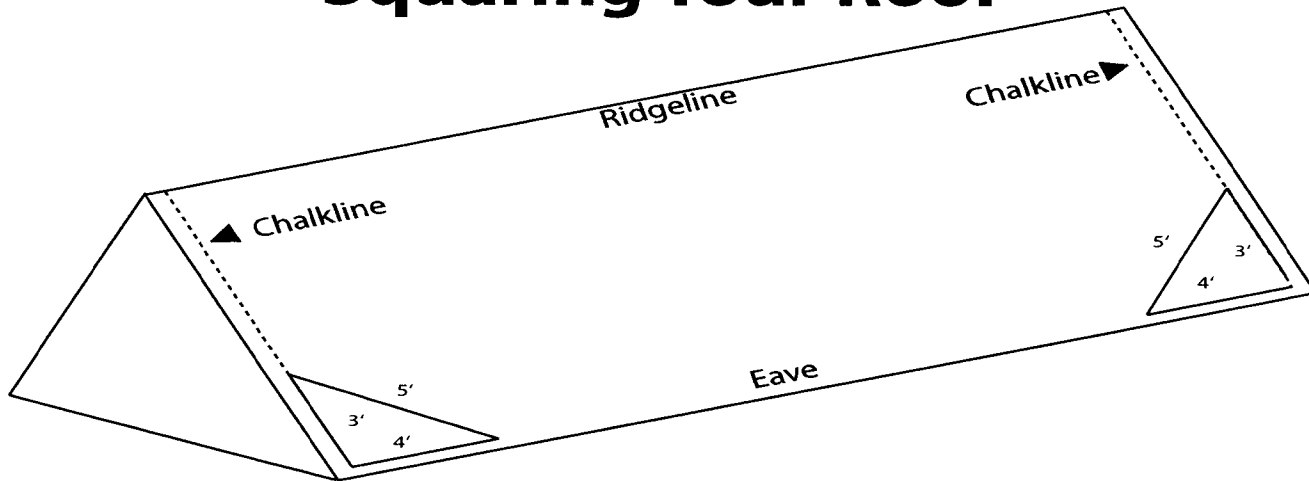
If the Tuff Rib system is being installed over OSB or plywood, a layer of 30# felt should be laid horizontally, lapped from the eaves to the ridge as shown below.



Installing Curbs and Flashings

After the Condensation control blanket (or 30# felt layer is in place, curbing, roof-to-wall connections, splash plates, and valley & eave flashings must be installed and properly caulked and sealed, before panel installation can begin.

Squaring Your Roof



The easiest way to square up your roof is to use the 3-4-5 triangle. This size triangle works in smaller areas. In larger areas, use multiples of 3-4-5 (6-8-10 or 9-12-15) to increase the size of the triangle, in order to square up longer panels.

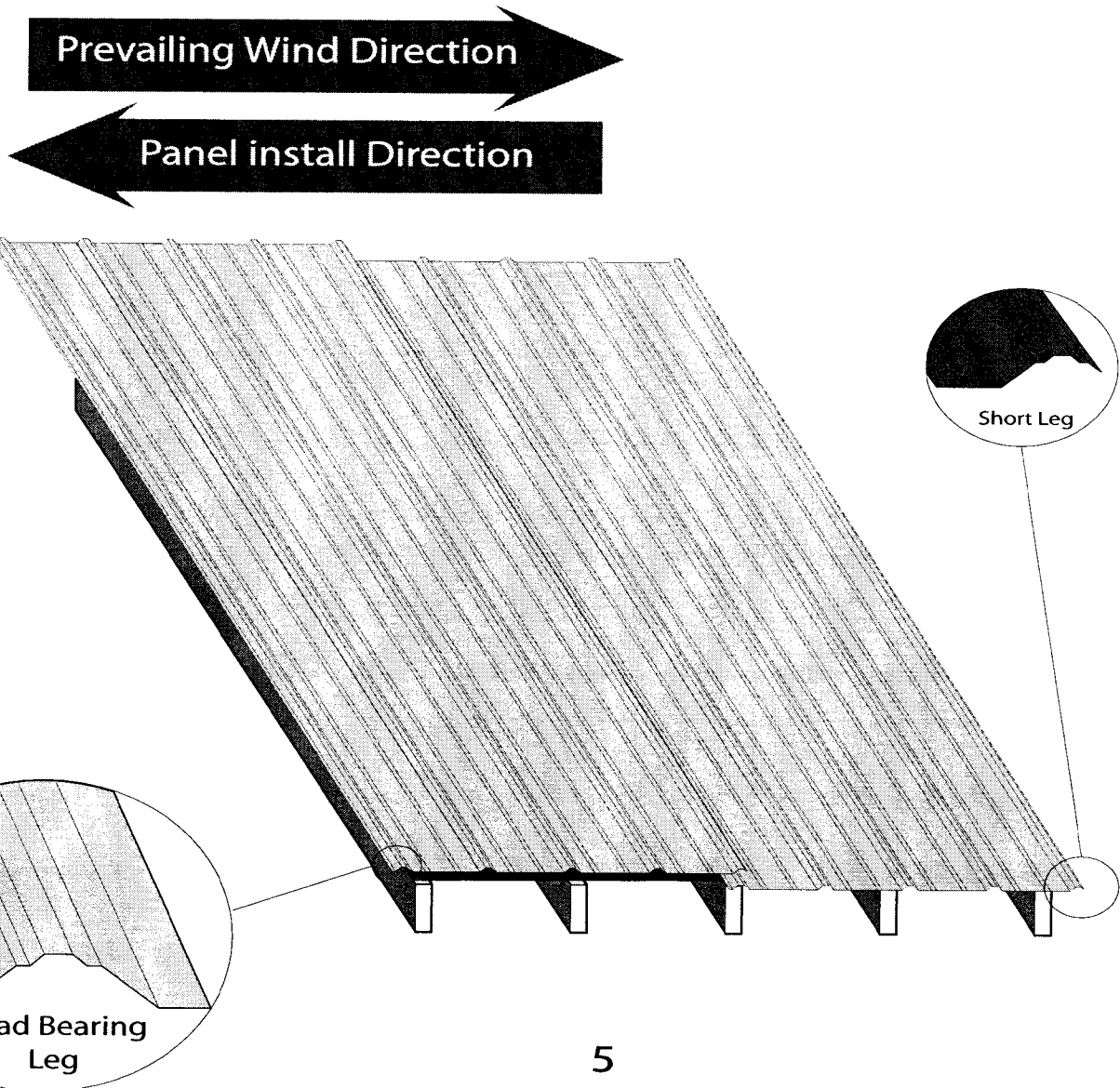
Always square up from the eave.

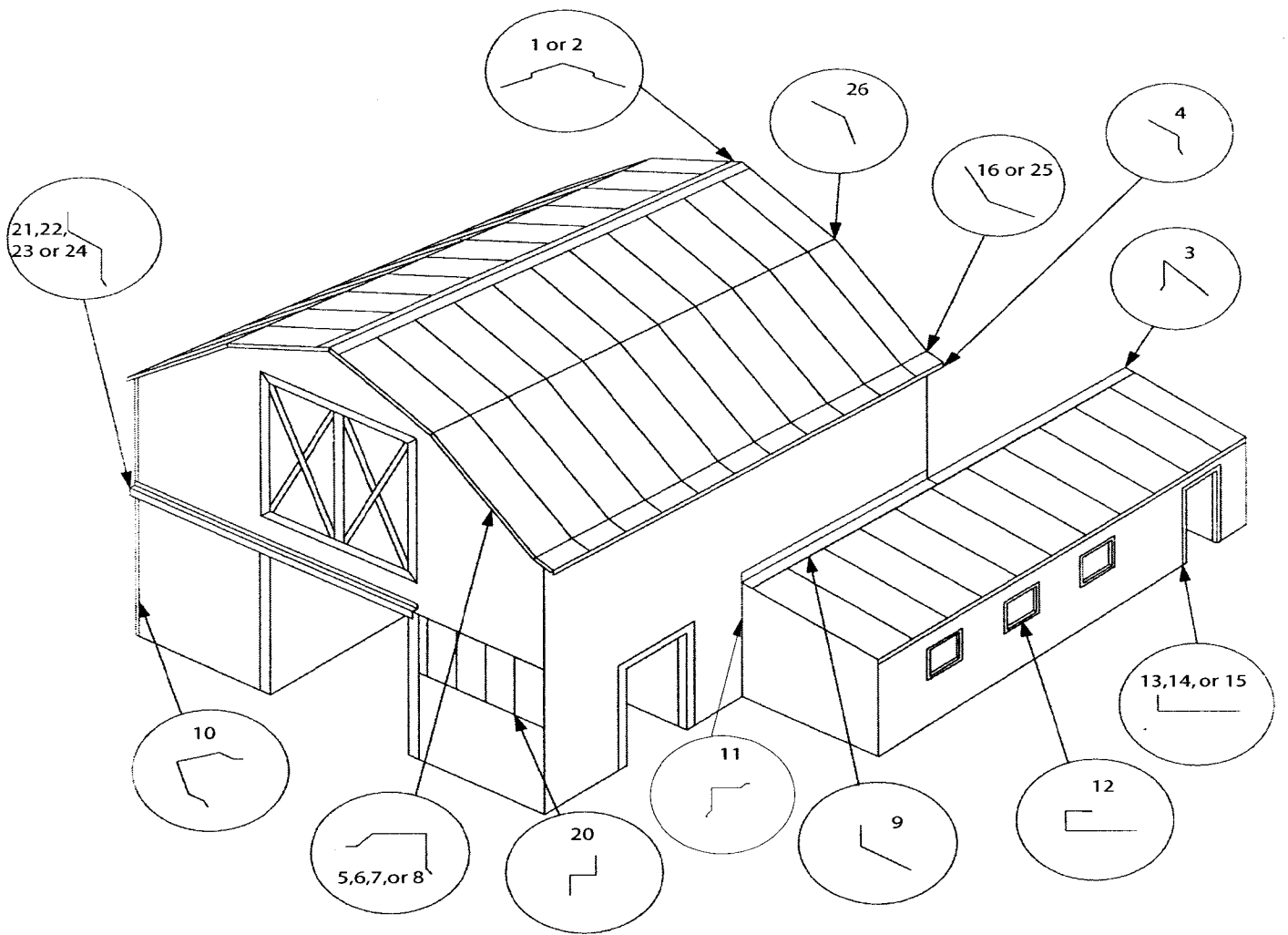
1. Measure in from the gable 1 to 3 inches along the eave, and mark.
2. Measure along the eave 4 feet past your first mark and mark again.
3. From your first mark, measure 3 feet up the roof, and make a third mark.
4. Measure from the 2nd mark to the 3rd mark.
5. This measurement should be 5 feet. If it is not, adjust the three foot side until this measurement equals 5 feet.
6. Once you have established your 3-4-5 triangle, snap a chalk line up the roof of the 3 foot side of the triangle.
7. This chalk line is your square line to start installing your panels.

As you install your panels, you can use this same method to double check your work.

Installing Tuff Rib Panels

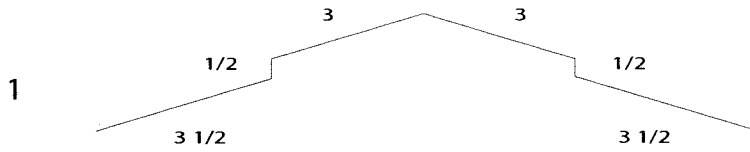
Roofing panels should be installed vertically, starting at the end of the building opposite the prevailing wind direction. Pay close attention to the orientation of the short leg and the load bearing legs of the panels. *The short leg must overlap the load bearing leg.* For best results we recommend the use of side-lap tape and stitch screws where the sides of the panels overlap. While not required, their use will provide better leak protection in addition to improved wind uplift protection. When sheets are end lapped, the lap should be sealed with high modulus caulking, and lapped no less than 12".



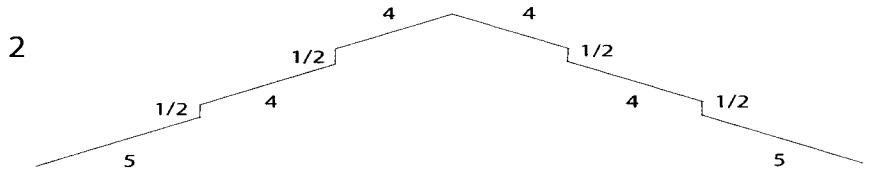


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|-----------------------|-----------------------------|--------------------------------|
| 1. Ridge Cap | 10. Outside Corner | 19. Z-Metal |
| 2. 28" Wide Ridge Cap | 11. Inside Corner | 20. Short Z (Wallite Flashing) |
| 3. Shed Metal | 12. C-Metal | 21. Single Track Cover |
| 4. Eave Trim(A,B,C) | 13. 2" X 3" Rake | 22. Combo Single Track |
| 5. Gable Trim | 14. 1 1/2 X 5 1/2 Rake | 23. Double Track Cover |
| 6. Large Gable Trim | 15. 1 1/2 X 7 Rake
(A,B) | 24. Combo Double Track |
| 7. Custom Gable Trim | 16. 4 X 4 Roof to Wall | 25. 6 X 6 Std. Transition |
| 8. Mini Gable Trim | 17. Sidewall flashing | 26. 6 X 6 Gambrel Transition |
| 9. Endwall Flashing | 18. Base Flashing | 27. W-Valley |

Standard Ridge Cap
(Pitch Required)



Wide Ridge Cap
(Pitch Required)



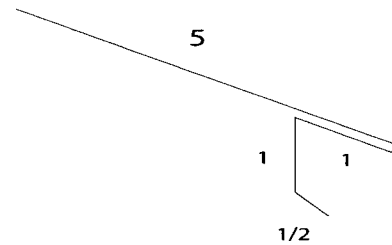
Shed Metal
(Pitch Required)



Eave Trim
(Pitch Required)

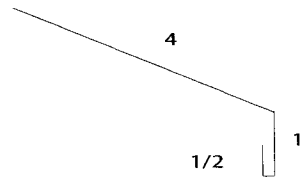


Special Eave Trim
(Pitch Required)



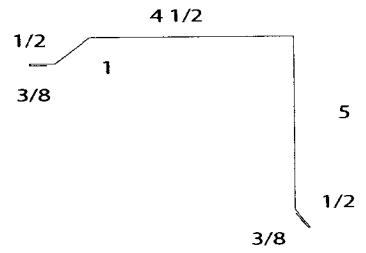
4c

Guttered Eave Trim (Pitch Required)



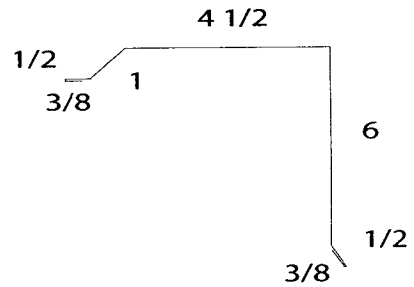
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Gable Trim



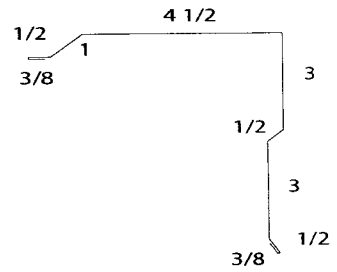
6

Large Gable Trim



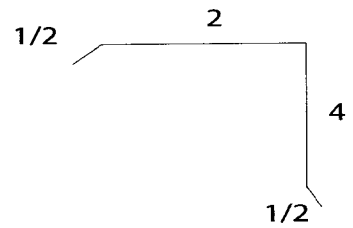
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Custom Gable Trim



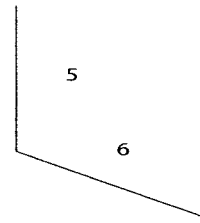
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Mini Gable Trim



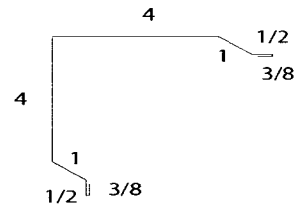
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Endwall Flashing (Pitch Required)



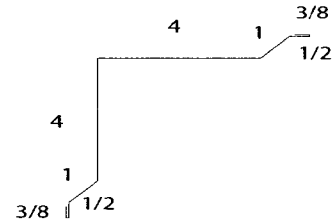
10

Outside Corner Flashing

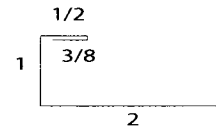


11

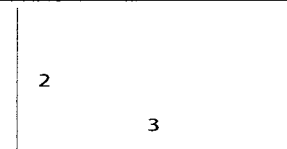
Inside Corner Flashing



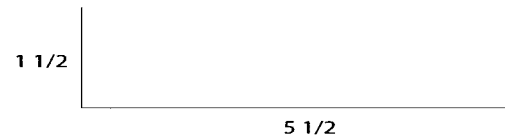
12 C-Metal



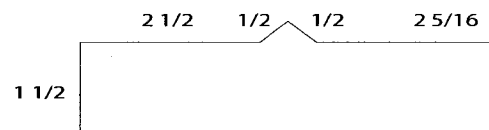
13 2" X 3" Rake Flashing

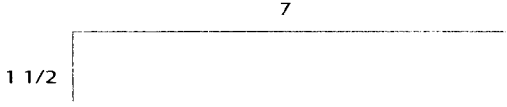
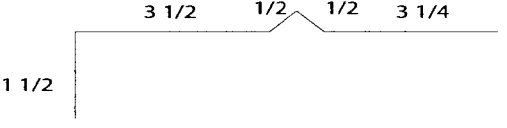
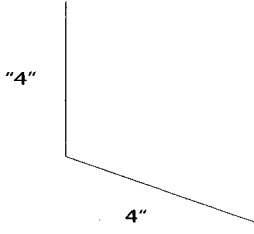
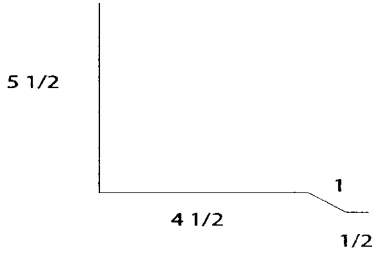
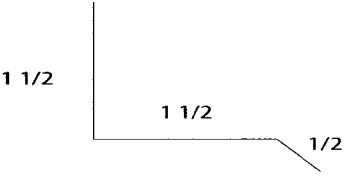
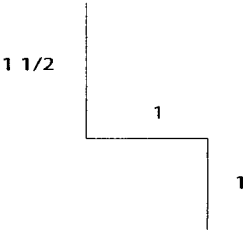


14a 1 1/2" X 5 1/2" Rake Flashing



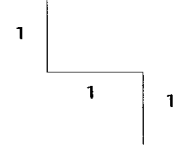
14b 1 1/2" X 5 1/2" Special Rake Flashing



<p>15a</p>	<p>1 1/2" X 7" Rake Flashing</p>	
<p>15b</p>	<p>1 1/2" X 7" Special Rake Flashing</p>	
<p>16</p>	<p>4 x 4 Roof to Wall Flashing (Pitch Required)</p>	
<p>17</p>	<p>Sidewall Flashing</p>	
<p>18</p>	<p>Base Flashing</p>	
<p>19</p>	<p>Z-Metal</p>	

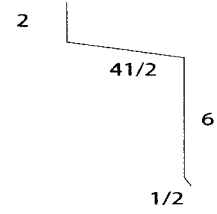
20

Wallite Flashing



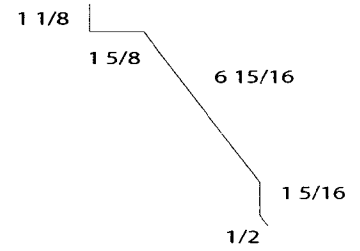
21

Single Track Cover



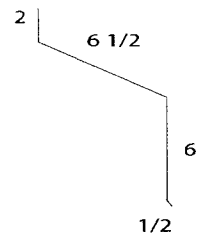
22

ComboSingle Track Cover



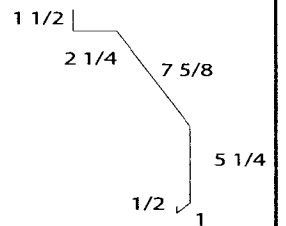
23

Double Track Cover



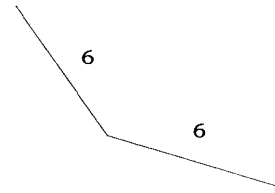
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Combo Double Track Cover



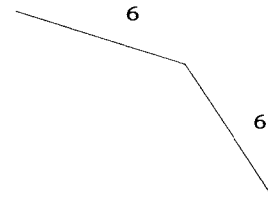
25

6 X 6 Transition Flashing
(Upper & Lower Pitch Required)



26

6 X 6 Gambrel Transition Flashing
(Upper & Lower Pitch Required)



27

W-Valley

