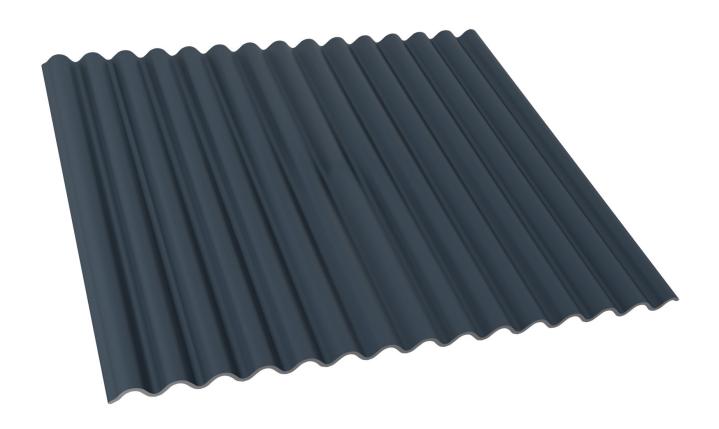


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7/8" CORRUGATED

INSTALLATION GUIDE WITH TRIM, FLASHINGS AND DETAILS









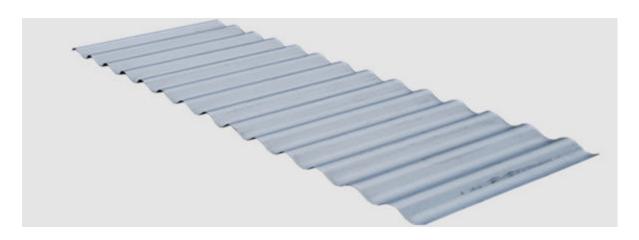






Installation, Flashings & Shop Drawing Detail Guide

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Installation, Flashings & Shop Drawing Detail Guide

Notes to Designer and Installers

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Framing and Substrates

7/8" Corrugated panels are used over all type of substrates like Steel Decking, open purlins, spaced sheathing, and wood decking such as plywood. Most details in this guide are shown with panels attached to solid wood substrates.

Note on underlayment

Not all conditions require an underlayment, However metal roofing is susceptible to Condensation and it is recommended that an appropriate Roofing underlayment be use on all wood substrates to protect the structure during installation. For added protection from rain and snow, it is recommended to use rubberized Ice and water shield on eaves, valleys, and areas of roof penetrations.

Slope Requirements

It is recommended that 7/8" Corrugated panels have a minimum slope requirement of 3:12 on all structures.

Valley and Snow Design

Valley design and dimension must be the proper width to accommodate high snow, rain, ice, and slope conditions. If possible, splices, penetrations, valleys, roof elevation changes, should be minimized in areas of high snow and ice accumulations.

Oil Canning

Oil canning is a condition common with flat metal surfaces. This waviness is caused by steel mill tolerances, forming, variations in the structures surfaces, and hardness of the steel. Measures are taken at the roll forming process, like profile design, steel gauge, corrective leveling, to minimize the effects of oil canning. Oil Canning is a Characteristic of steel and can not be eliminated totally and therefore is not reason for rejection of the panels.

Job Site Storage

While waiting to be installed on the job site, Storage of panels, trim crates, and flat sheet should be sloped in order to allow for proper moisture run off. One end should be elevated so as not to allow ponding of water on the metal surface. When using tarps for protection, proper ventilation should be provided to prevent condensation. Moisture or condensation that is trapped inside a bundle can lead to white rust on sheeting.

References

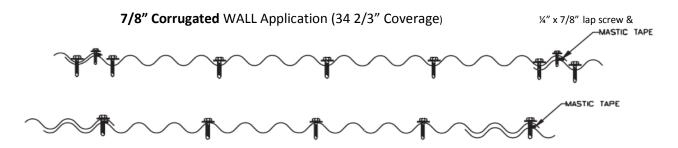
For other installation techniques and details, The Sheet Metal and Air Conditioning Contractors National Association Inc. (SMACNA) and NRCA manuals are great resources for working with sheet metal.

Technical Assistance

Contact your WSDI sales or technical representative for any additional information or assistance.

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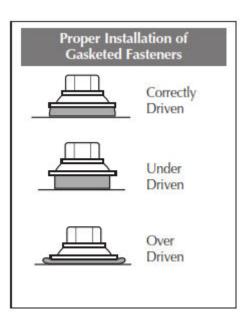
Fastener Placement and Selection



7/8" Corrugated ROOF Application (32" Coverage)

Notes to Installers:

- Fastener Selection will vary depending on type and thickness of substrate.
- Space panel lap screws 12" minimum -18" O.C. maximum. Consult with design engineer.
- Spacing of fastener rows to be engineered by others.
- Lap panels away from prevailing winds whenever possible.
- The use of Butyl tape mastic is always recommended on the panel lap when used for roof panels.
- Panels and flashings should never be installed in contact with dissimilar metals.
- Use only those flashings and accessories designed for use with this panel.
- Panel attachment screws must be long enough to fully penetrate through roof deck substrate or penetrate solid lumber at least one inch.
- Exposed Fasteners should have sealing washers and be coated to provide protection against corrosion.
- Screws must be properly driven to ensure holding strength and proper seal. (see diagram)
- Recommended drill speed is 2000rpm. Improper setting of drill speed can lead to snapping of screw heads.
- Pre drilling of screw holes may be necessary with heavy gauge metals.

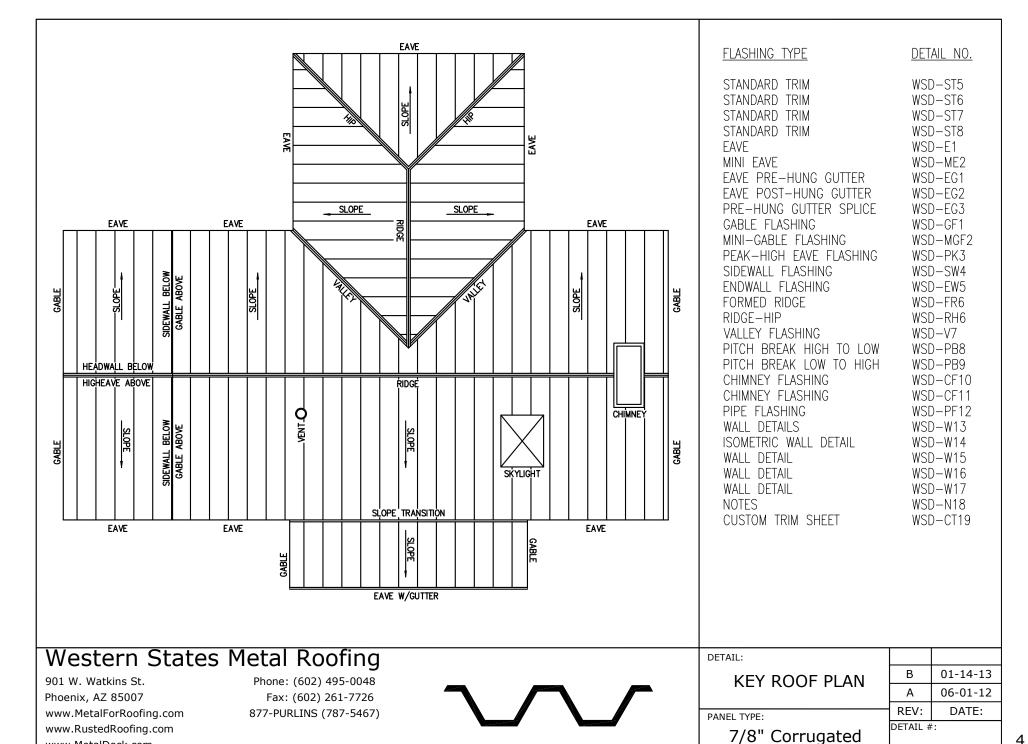


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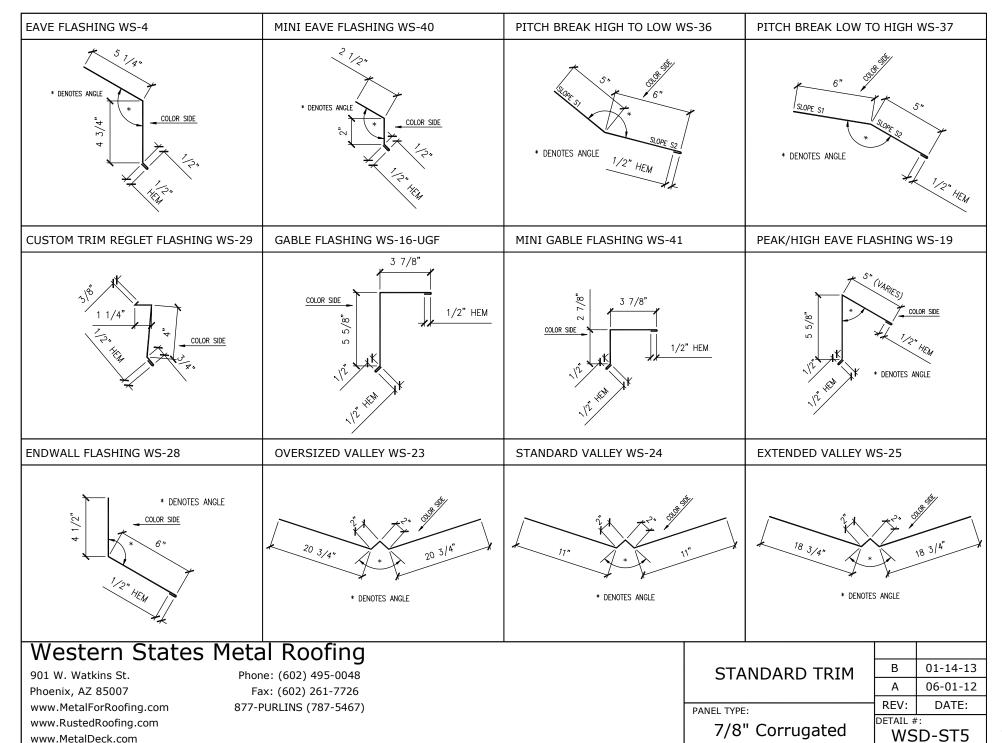
Fastener Selection

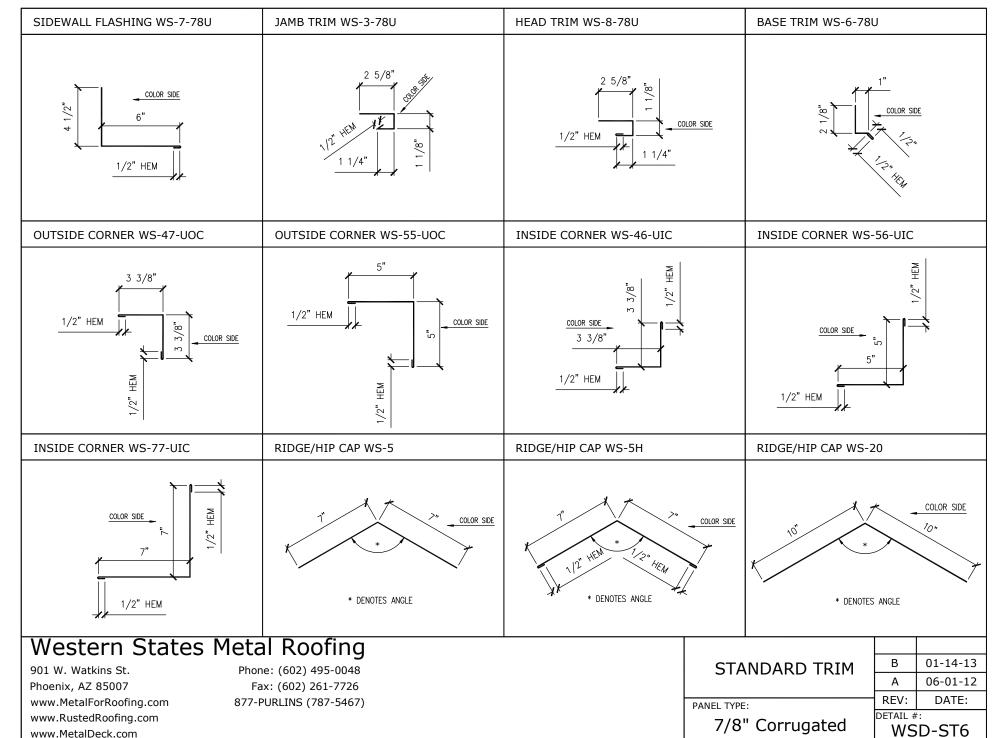
Description	Application	
#9 x1" Wood Drillers #9 x 1.5" Wood Drillers #9 x2" Wood Drillers	Used to attach panels to dimensional Lumber and plywood	
#12-14 x 1" SD #12- 14 x1.5" SD #12- 14 x 2" SD #12-24 x1.25"sd	Used to attach panels to Purlins and other metal substrates	
#14 x 7/8" Lap Self tap #14 x7/8 Lap Stainless	Used to attach Trims and panel side laps. Stainless to be used with A606-4 Steel	
#10-12 x1" Pancake Wood #10-12 x 1" SD Self Driller	Used to secure trims to substrates. Also available in Stainless Steel.	
1/8" Stainless Rivets	Used for Trim to Trim attachment or trim to wall panels.	
Stainless Screws #10 x1 Wood Driller #10 x 1.5 Wood Driller #10 x 2" Wood Driller	Used for panel attachment for panels made with A606-4 Steel	

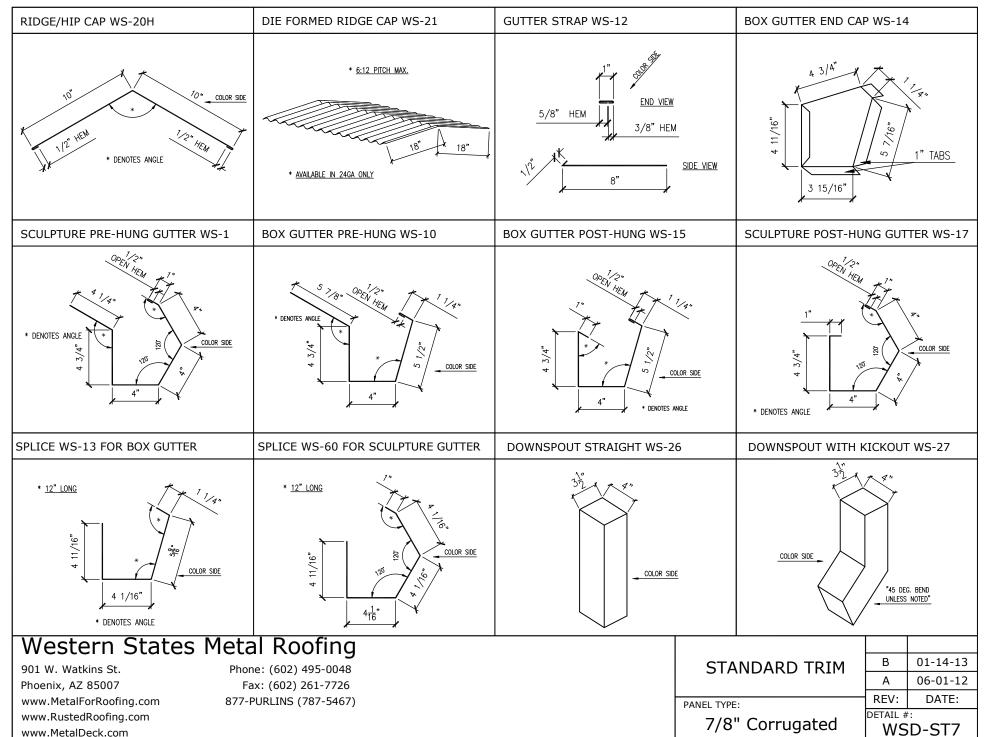
• The table above shows the panel Fasteners provided by WSD. Special order screws are available.

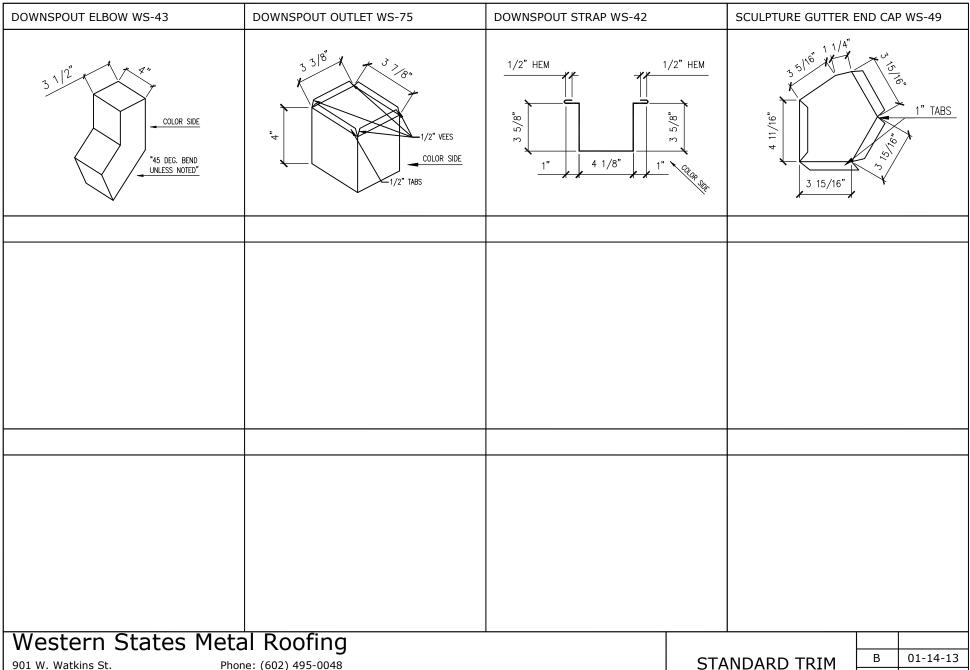


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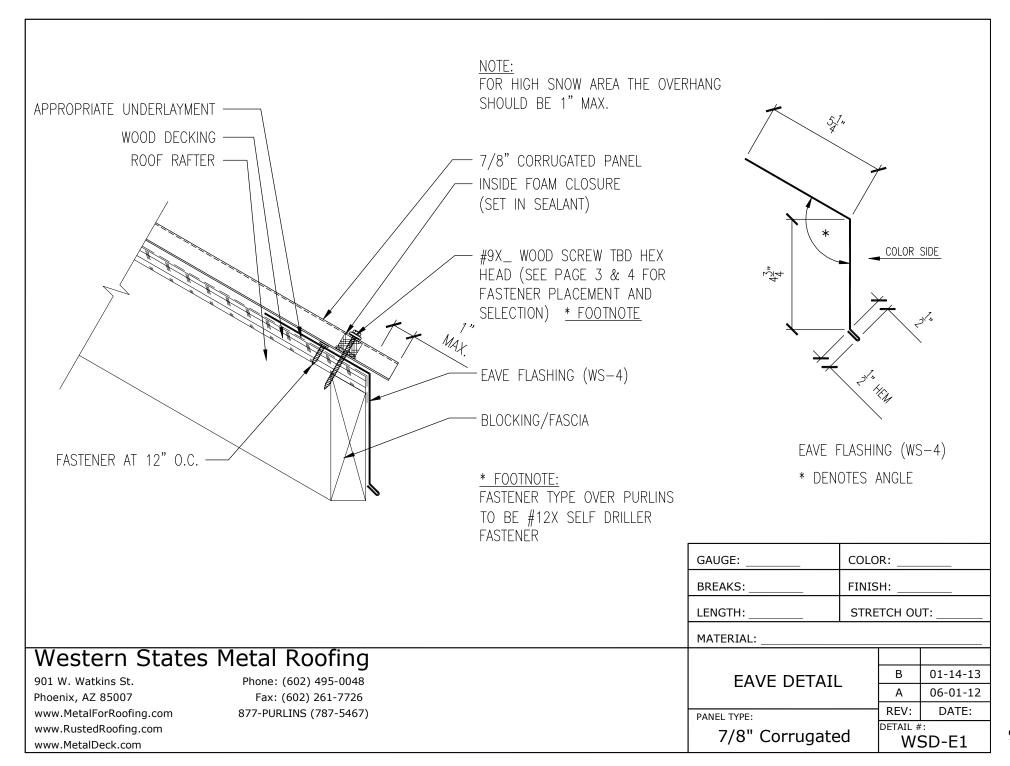
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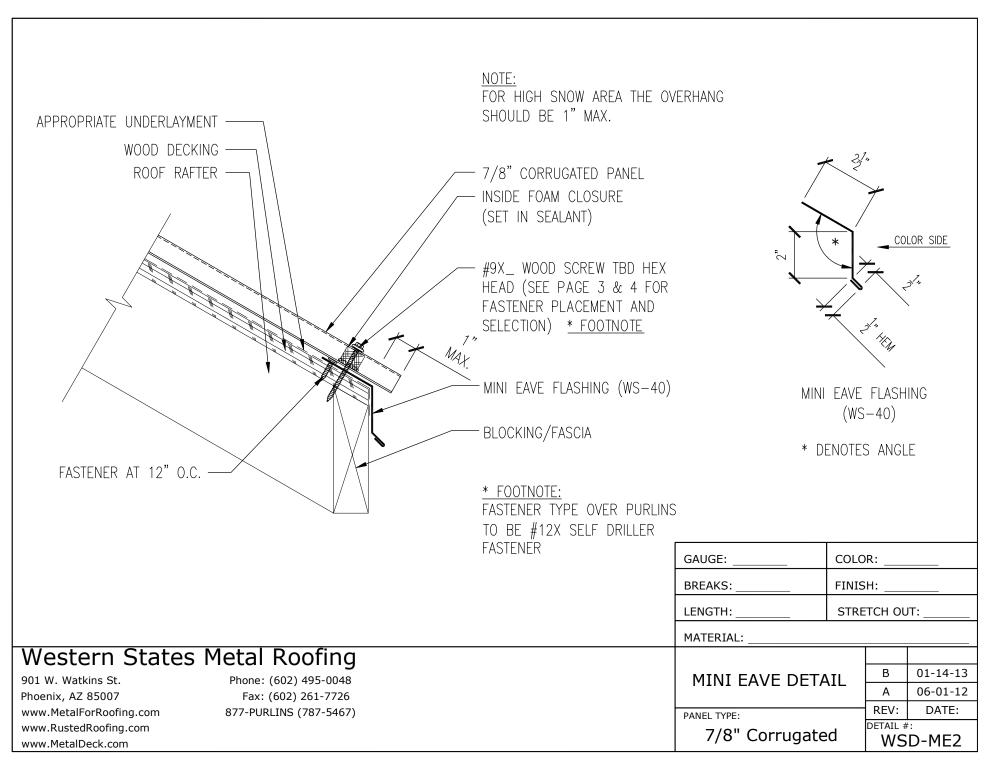
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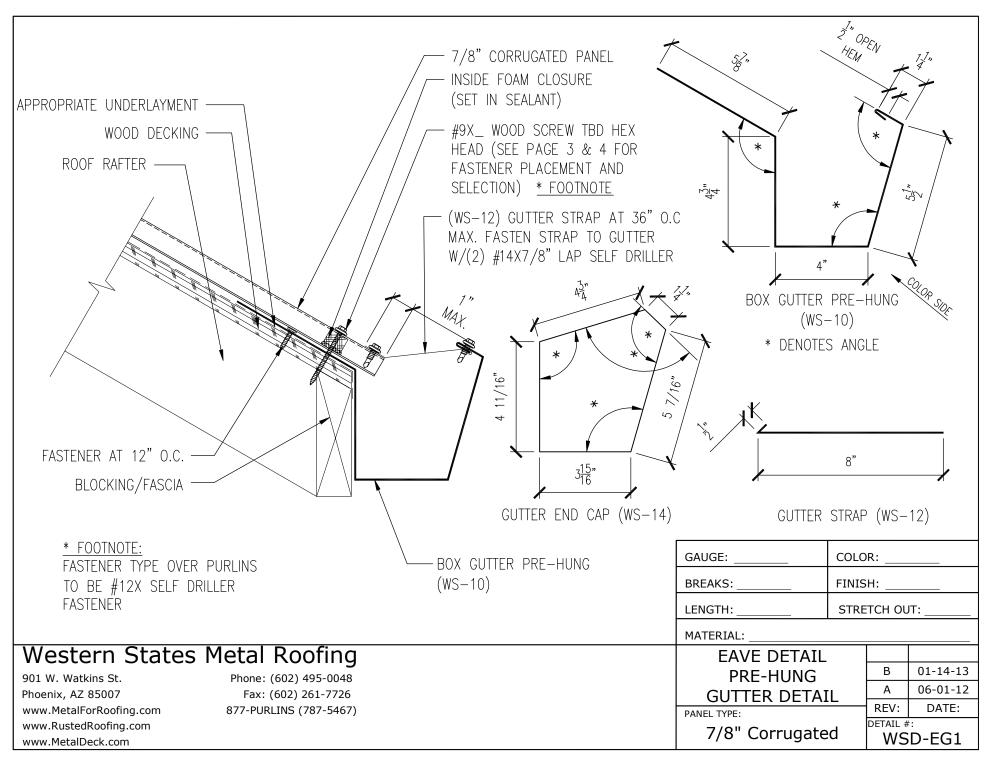
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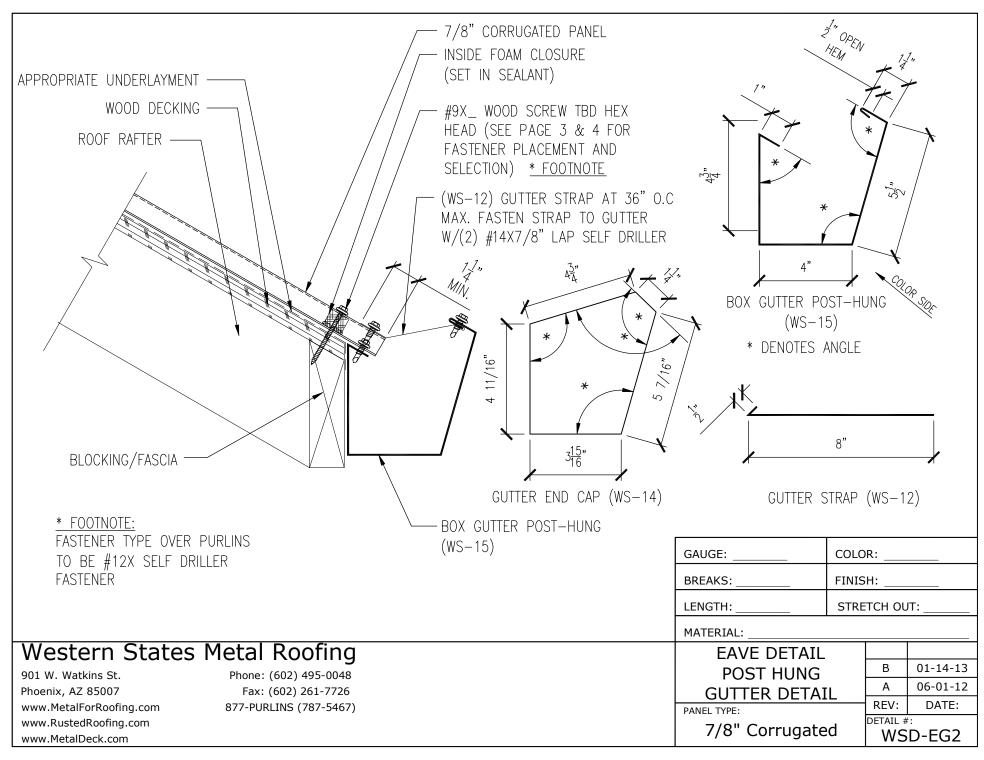
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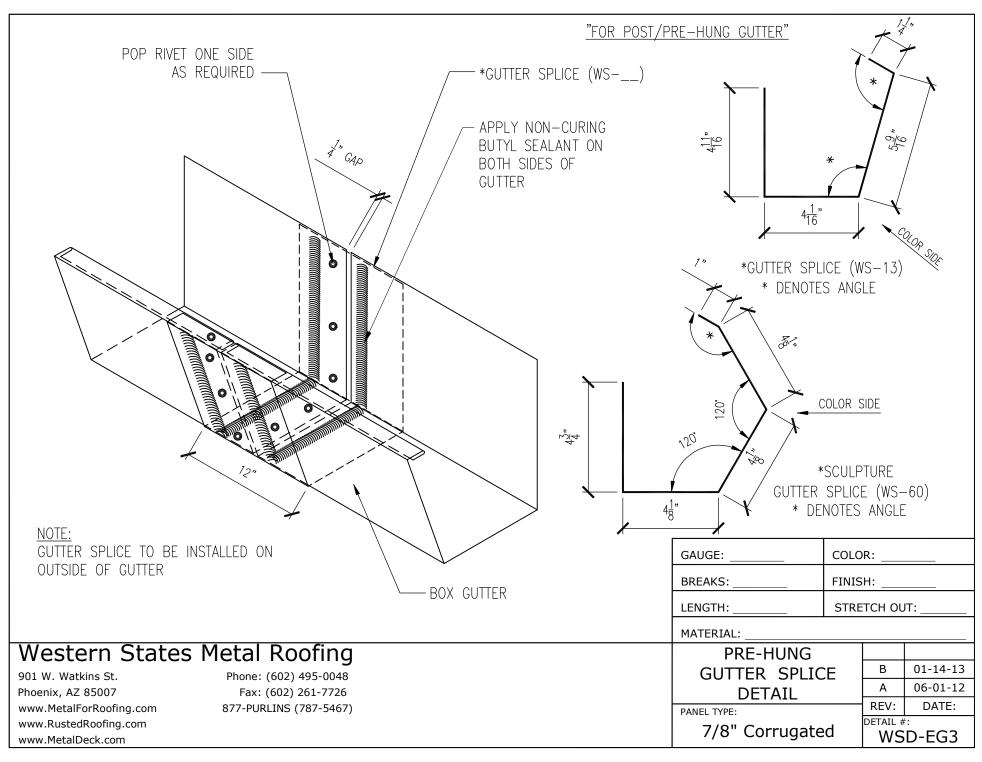
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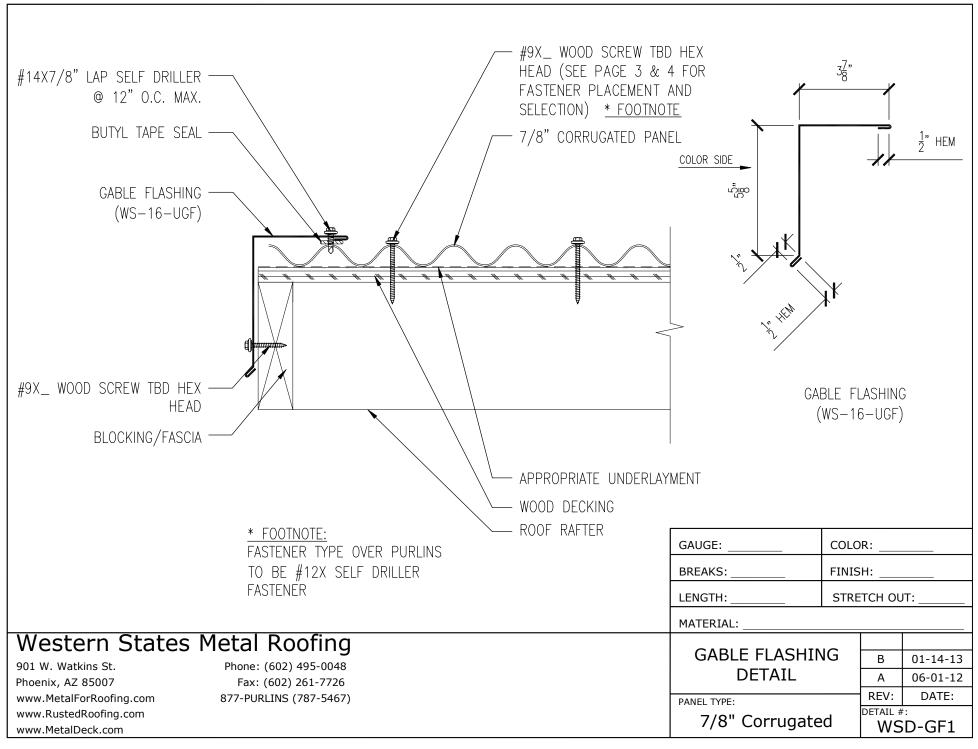


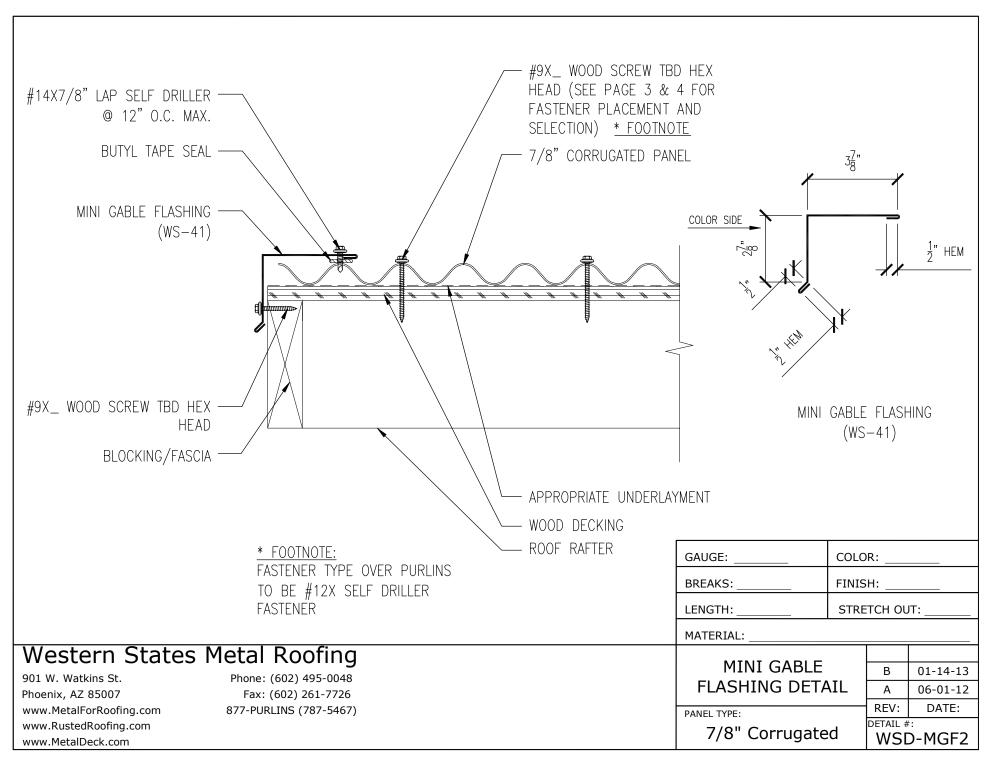


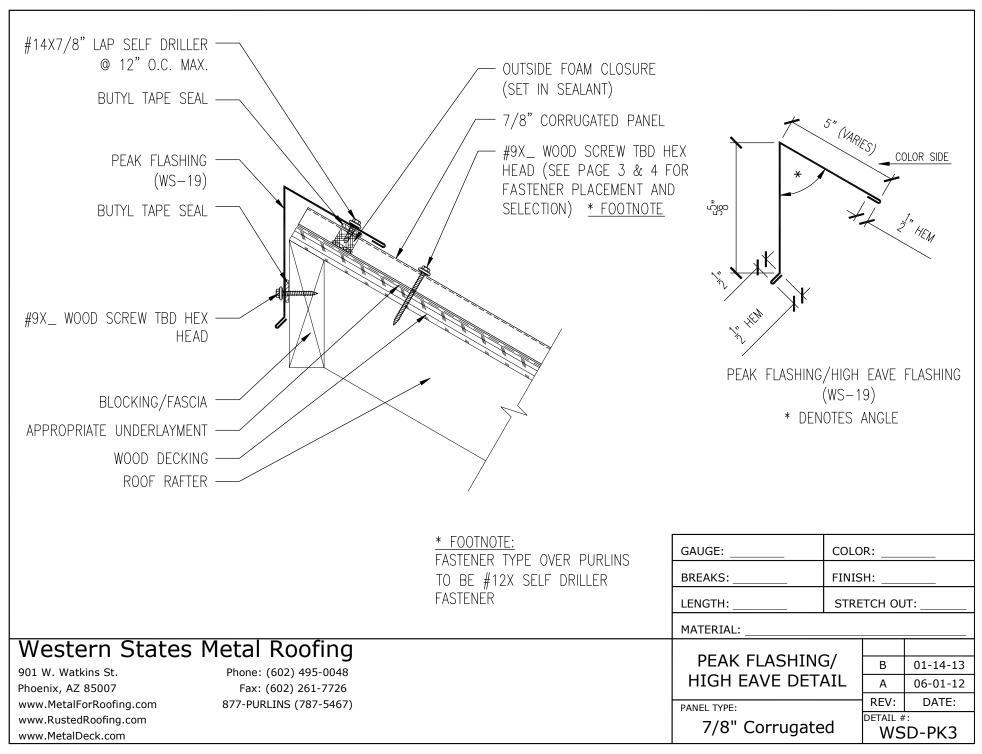


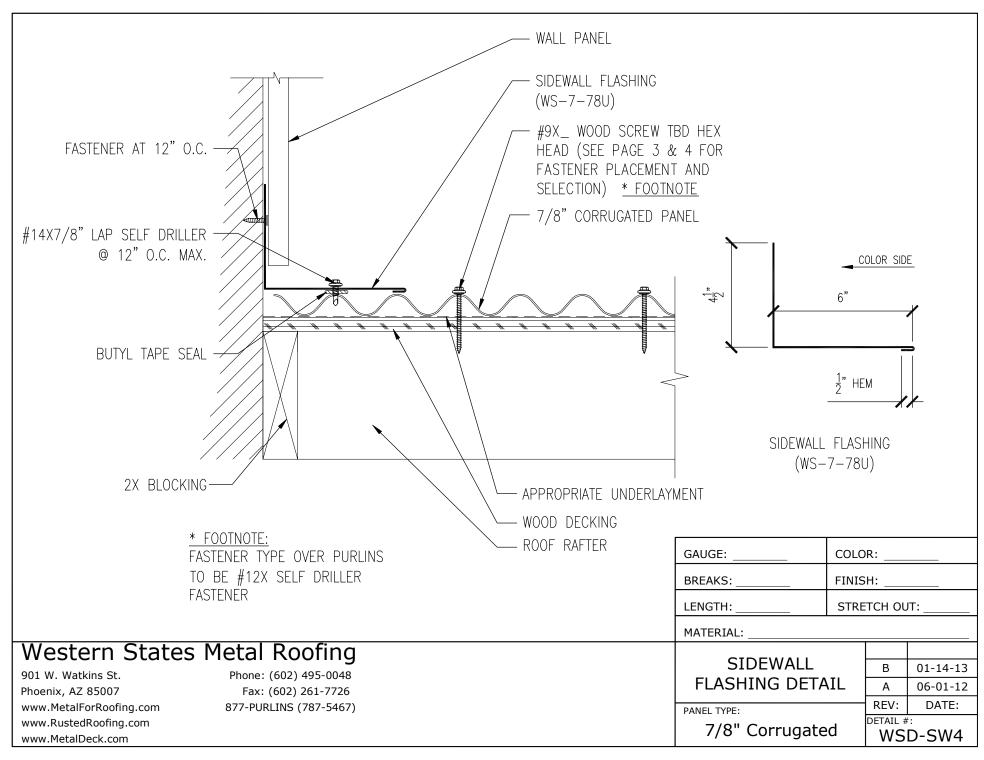


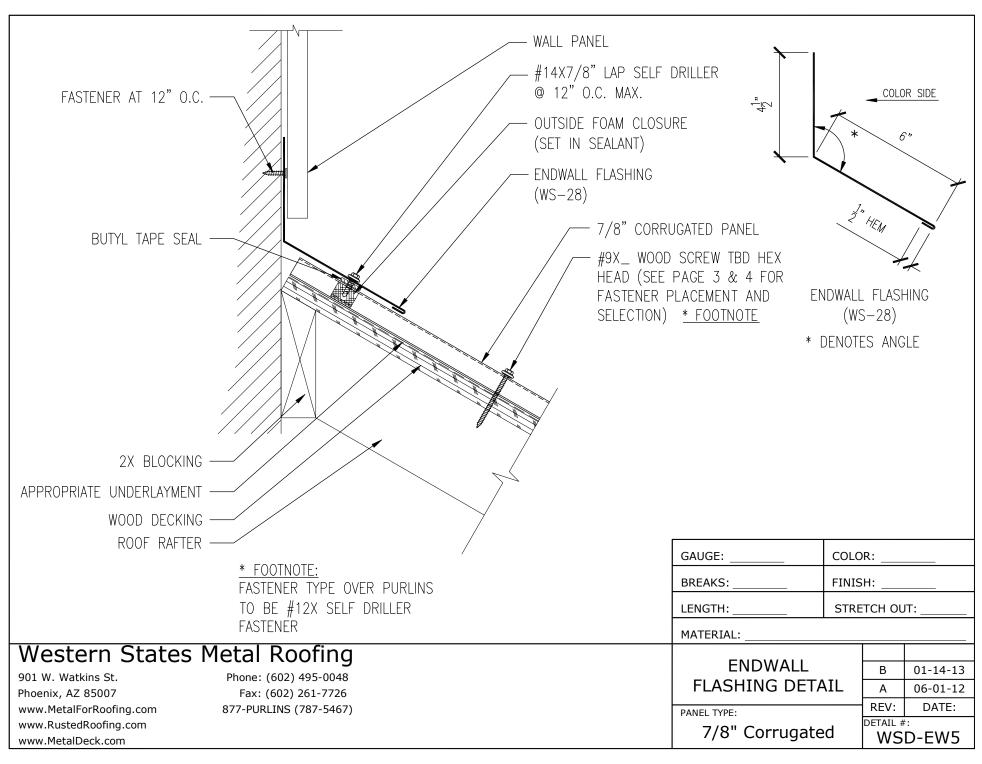


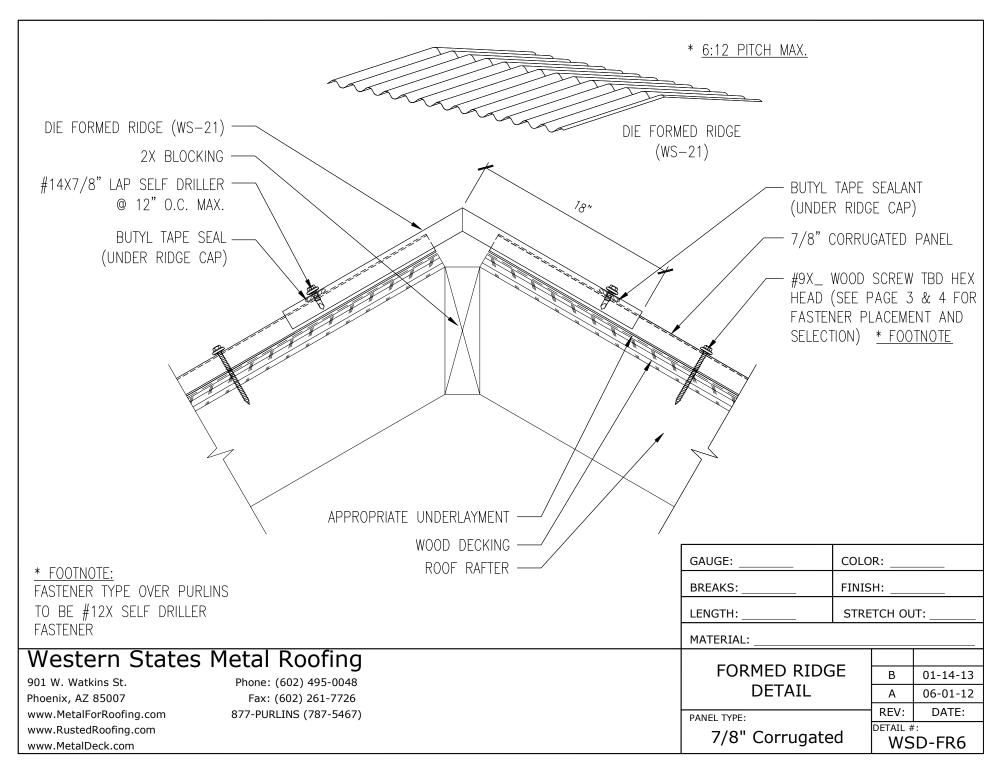


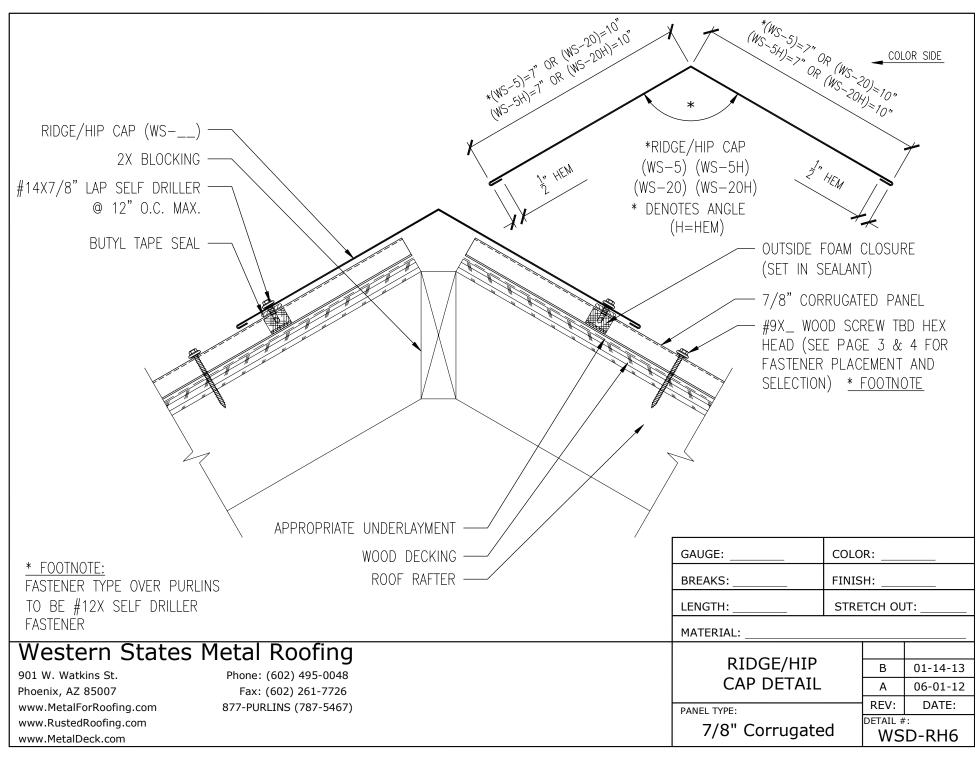


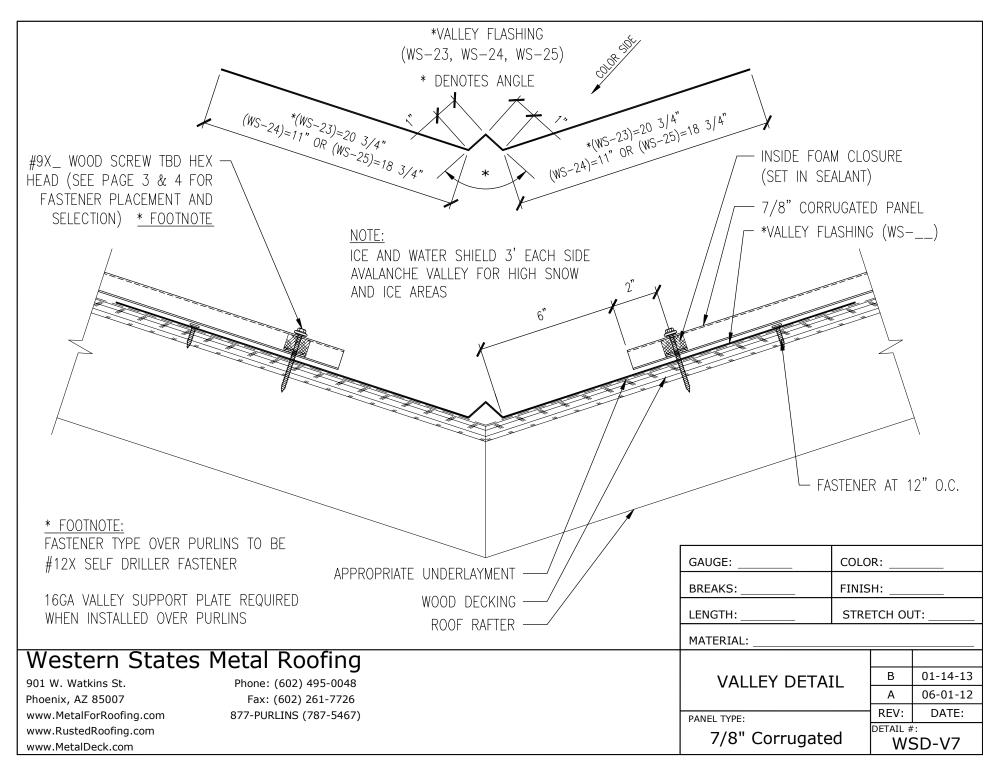


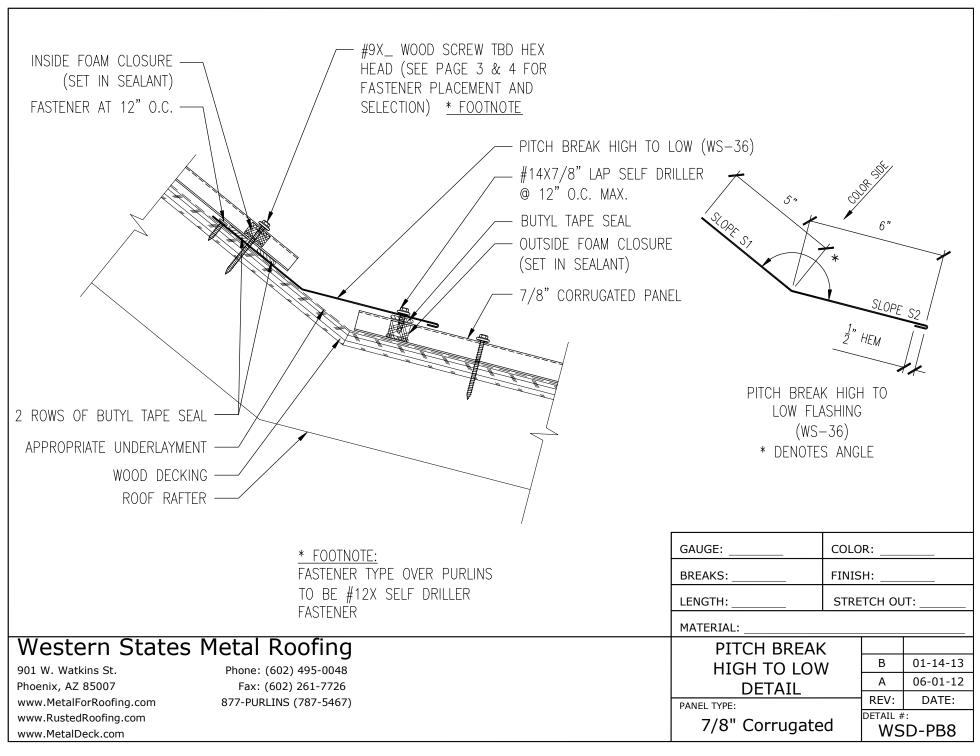


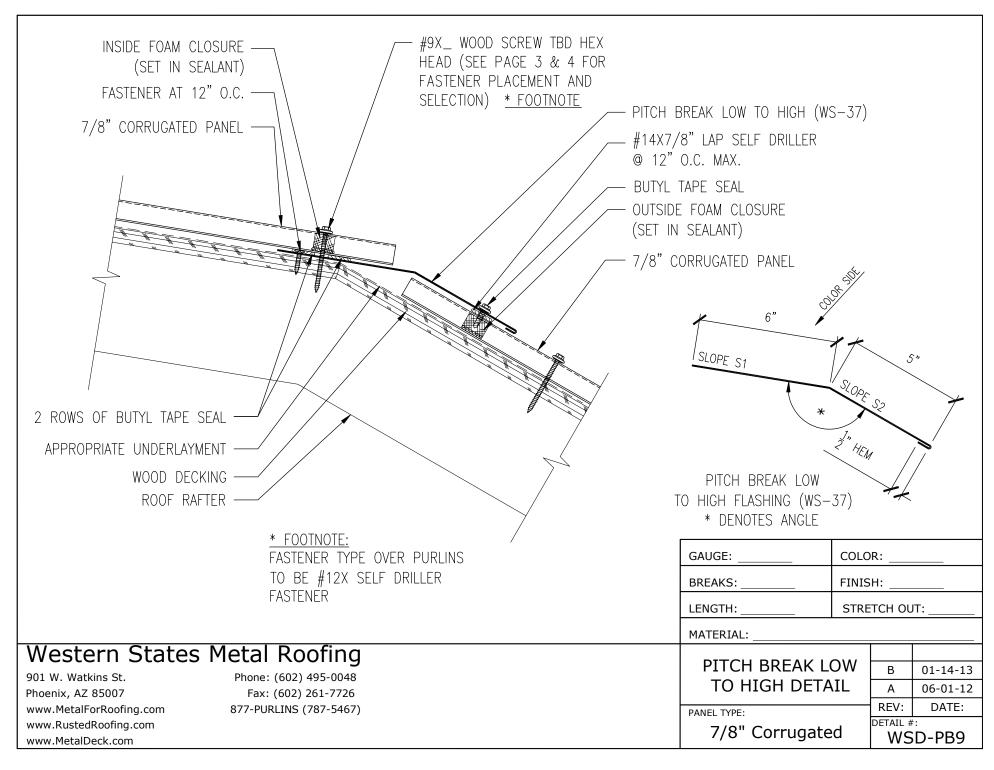


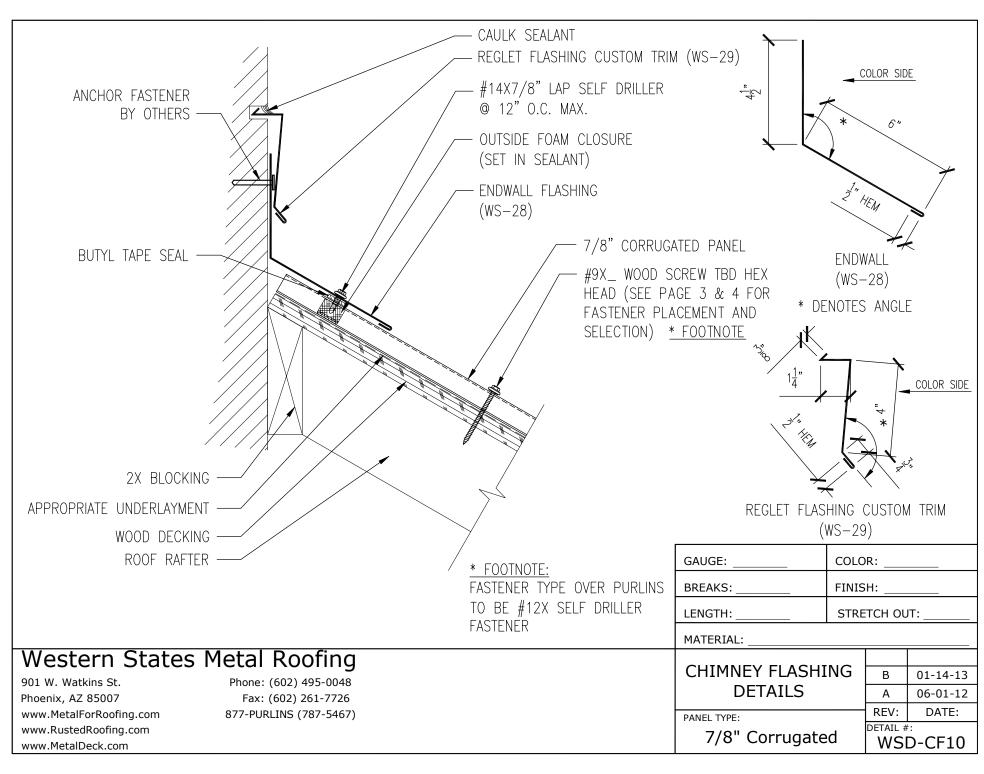


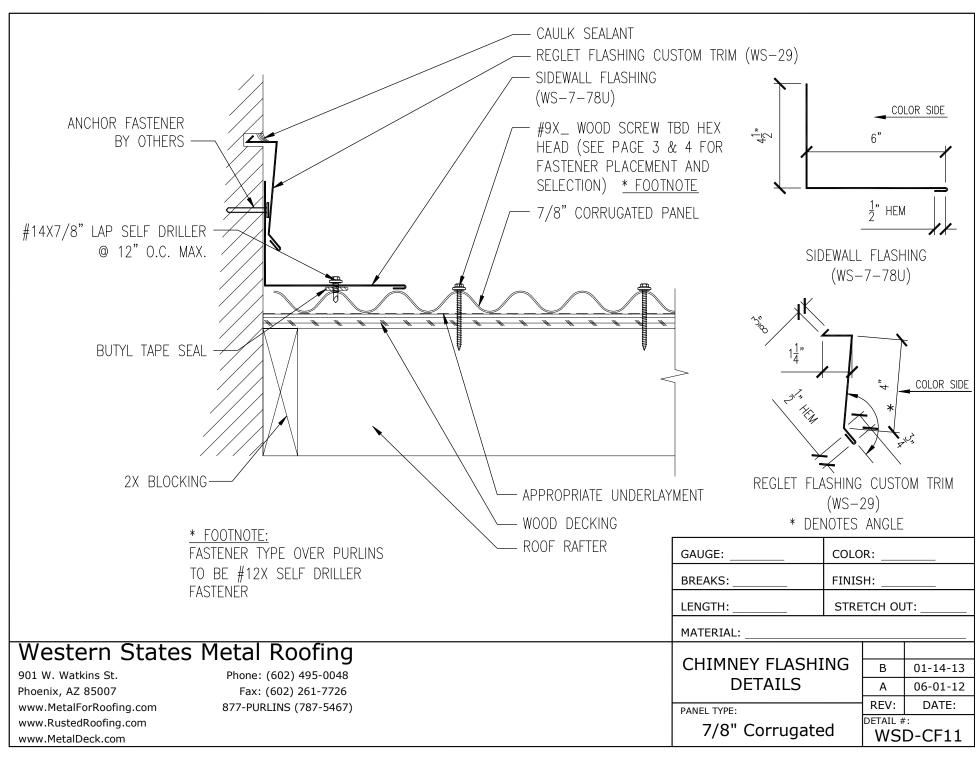


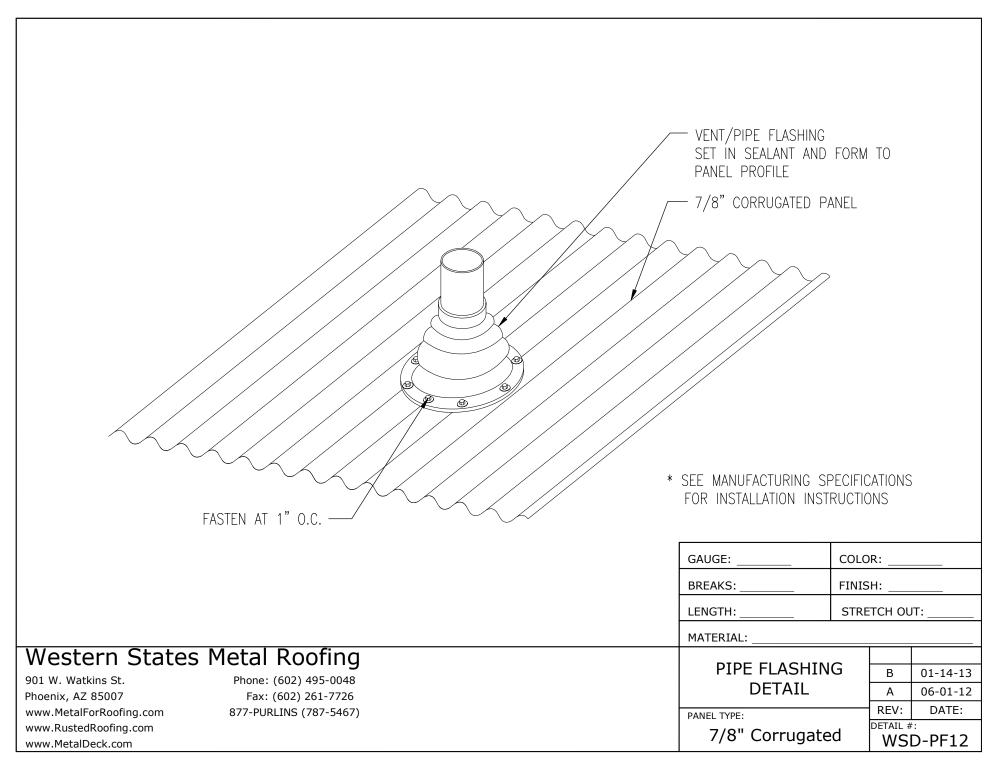


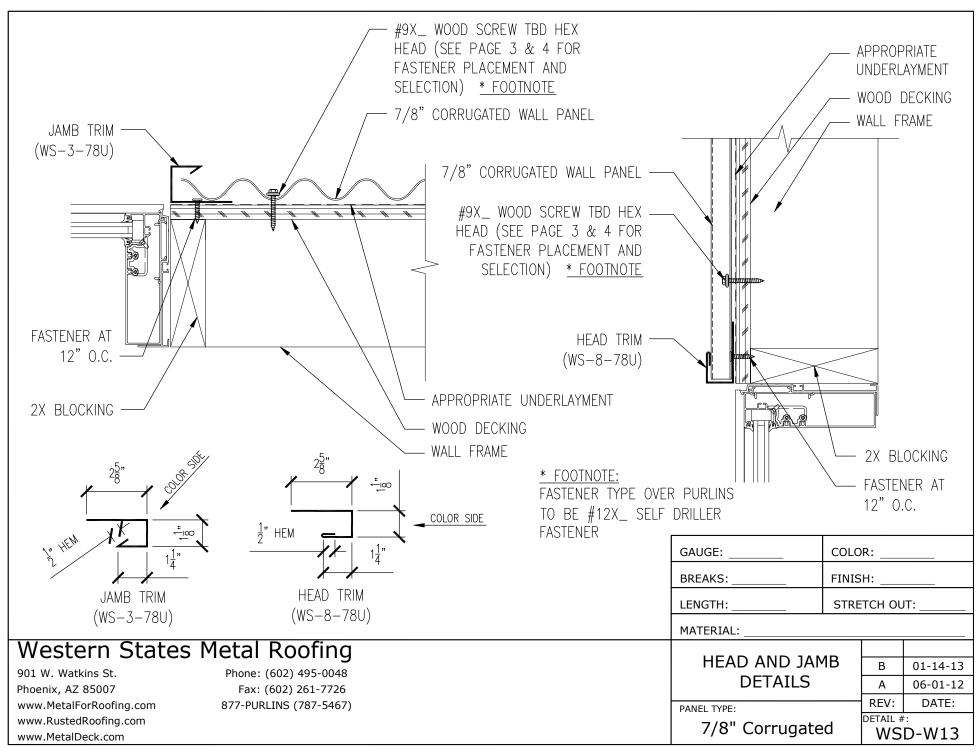


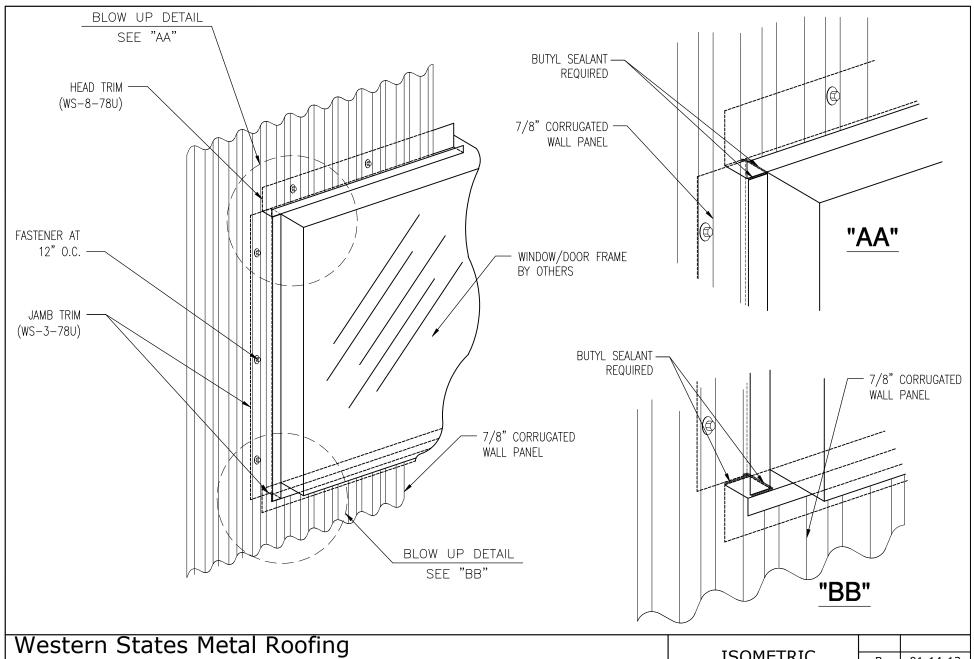










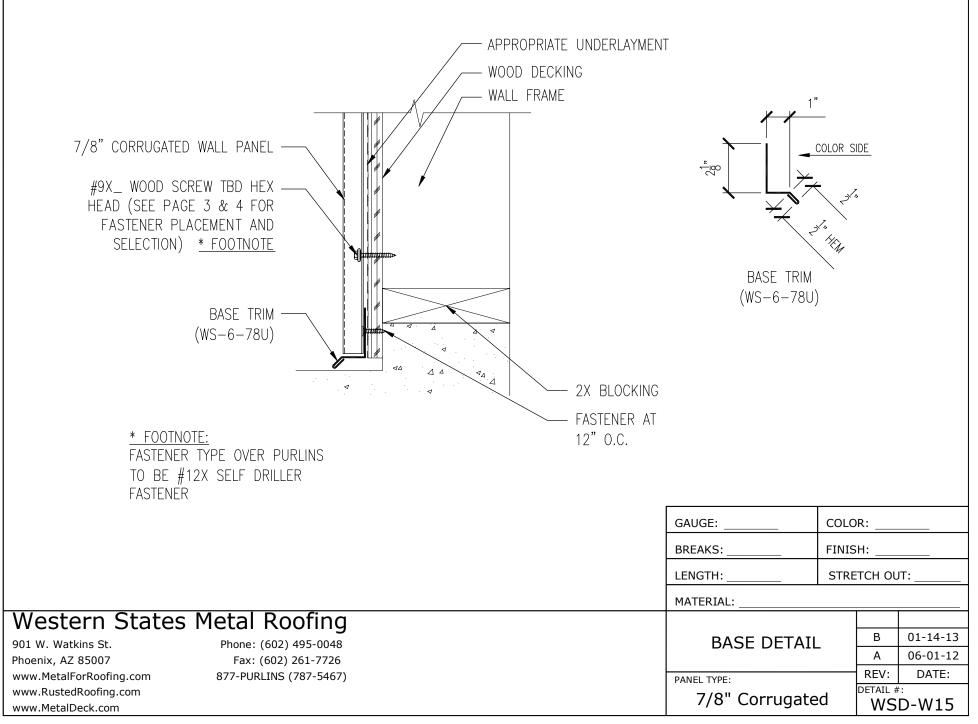


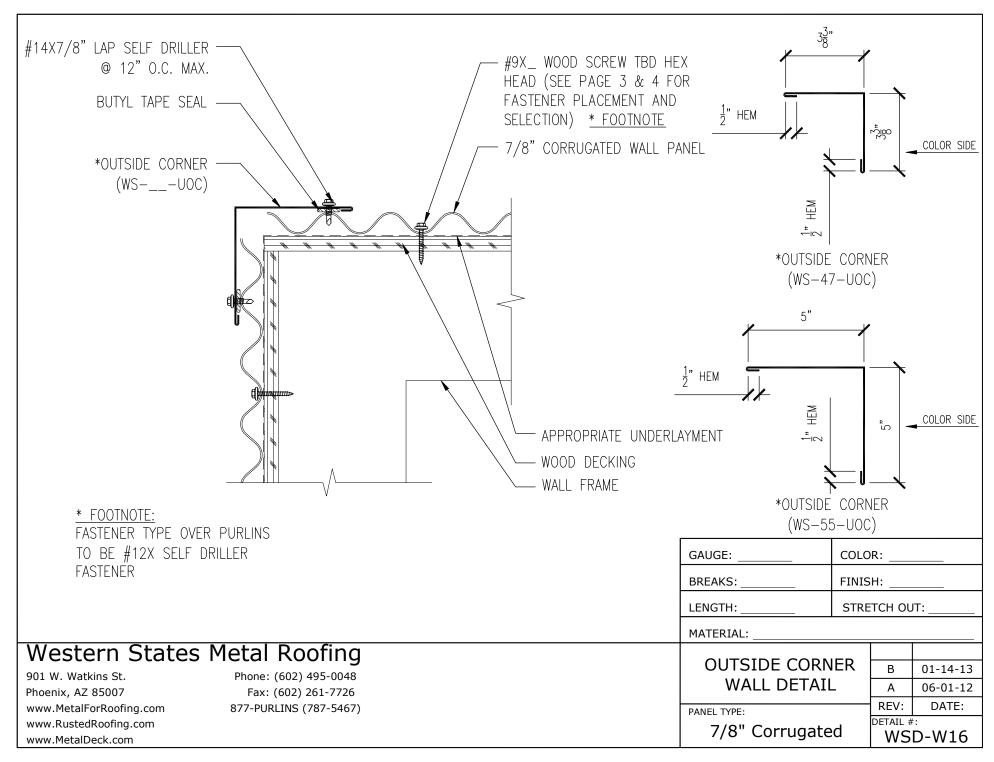
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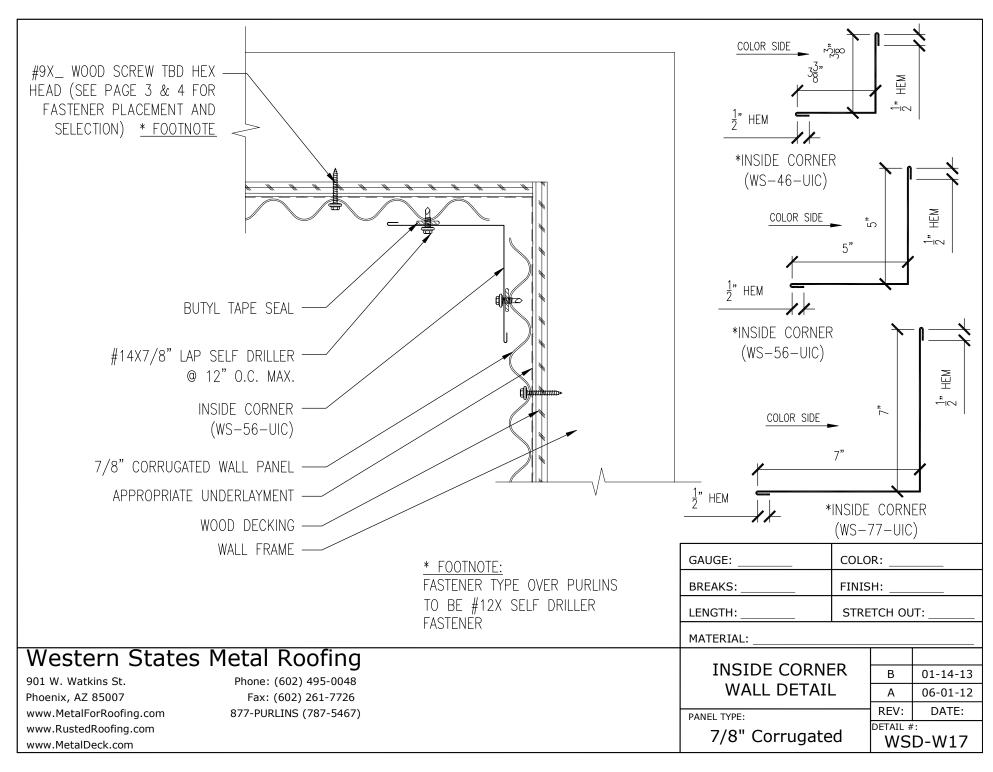
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7/8" Corrugated	DETAIL #: WSD-W1		







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www.MetalForRoofing.com 877-PURLINS (787-5467) www.RustedRoofing.com	PANEL TYPE:	REV:	DATE:
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CUSTOM TRIM COLOR: GAUGE: BREAKS: FINISH: STRETCH OUT: LENGTH: MATERIAL: Western States Metal Roofing **CUSTOM TRIM NAME:** 01-14-13 901 W. Watkins St. Phone: (602) 495-0048 Α 06-01-12 Phoenix, AZ 85007 Fax: (602) 261-7726 REV: DATE: www.MetalForRoofing.com 877-PURLINS (787-5467) PANEL TYPE: DETAIL #: www.RustedRoofing.com 7/8" Corrugated WSD-CT19 www.MetalDeck.com

Installation, Flashings & Shop Drawing Detail Guide

Special Design Considerations

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Consideration should be given for Fit for Purpose, Building use, Climate conditions such as temperature, snow, wind, and moisture, Governing Building Codes, and Maintenance.

It is highly recommended that all trims and flashings be of the same material as the panels (metal, gauge, finish) to ensure long term performance and durability. Where possible, flashing edges should be hemmed to strengthen the edge and protect the cut edge from exposure.

Acceptance

Use of this manual is strictly voluntary. Details that are provided are to be used as a guide only. Details may not be applicable for all situations. This guide provides one standard detail and WSDI accepts that other installation details may be needed and other details may exist. WSDI makes no guarantee as to the Weather Tightness of the system or details found with in this guide. The information in this manual is believed to be correct and accurate at the time of printing. WSDI reserves the right to change details, discontinue products, change designs at any time without incurring obligation. It is best to consult your Design Engineer for recommendations.

Underlayment

There are many types of underlayment's on the market today. All designed with a special purpose depending on the type of Metal and profile. Many different types of metal will require a different type of underlayment, such as A606-4 (Corten) which requires a High Temperature underlayment. It is best to consult your Design Engineer for recommendations.

Valley and Snow Design

Valley design and dimension must be the proper width to accommodate high snow, rain, ice, and slope conditions. If possible, splices, penetrations, valleys, roof elevation changes, should be minimized in areas of high snow and ice accumulations. Details found in this manual may not pertain in areas of high snow and ice accumulations.

Panel coverage and fastening

Normal panel width of 7/8" corrugated panel is 36". However depending on the finish selected and the required coil feed, it may be necessary for WSD to shorten the width of the panel. Please consult with your WSDI representative for details and fastening recommendations.

Safety and Maintenance

Walking on and installing any roof is dangerous! Extreme care should always be used when walking on roofs. Safety should always be a top priority and approved fall protection and equipment as approved by OSHA should always be used.

No roof is immune to severe weather or is completely maintenance free. To keep your roof performing as it was designed; an inspection and comprehensive maintenance program should be implemented.

References

For other installation techniques and details, The Sheet Metal and Air Conditioning Contractors National Association Inc. (SMACNA) and NRCA manuals are great resources for working with sheet metal.

Technical Assistance

Contact your WSDI sales or technical representative for any additional information or assistance. To insure you have the latest information available, please inquire or visit our web sites at www.metaldeck .com or Rustedroofing.com



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