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Western States “Western Rib” Panel
Installation, Flashings & Shop Drawing Detail Guide

Notes to Designer and Installers

The details contained in this guide are proven industry details and are intended to be used as a design aid and installation guide. It does not depict all situations that may be encountered on all projects. Modifications are the responsibility of the designer/owner/installer. 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.

Framing and Substrates
“Western Rib” 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 Purlins.

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 used 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 “Western Rib” panels have a minimum slope requirement of 1:12 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 cannot 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 resource for working with sheet metal.

Technical Assistance
Contact your WSDI sales or technical representative for any additional information or assistance.
Western States Metal Roofing “Western Rib” Panel
Installation, Flashings & Shop Drawing Detail Guide

Fastener Placement and Selection

Western Rib (36” net coverage)

Roof or Wall application

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.
### Fastener Selection

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<tr>
<th>Description</th>
<th>Application</th>
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<tr>
<td>#9 x1” Wood Drillers</td>
<td>Used to attach panels to dimensional Lumber and plywood</td>
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<td>#9 x 1.5” Wood Drillers</td>
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<tr>
<td>#9 x2” Wood Drillers</td>
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<tr>
<td>#12-14 x 1” SD</td>
<td>Used to attach panels to Purlins and other metal substrates</td>
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<td>#12- 14 x1.5” SD</td>
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<tr>
<td>#12- 14 x 2” SD</td>
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<tr>
<td>#14 x 7/8” Lap Self tap</td>
<td>Used to attach Trims and panel side laps. Stainless to be used with A606-4 Steel</td>
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<tr>
<td>#14x7/8 Lap Stainless</td>
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<tr>
<td>#10-12 x1” Pancake Wood</td>
<td>Used to secure trims to substrates. Also available in Stainless Steel.</td>
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<tr>
<td>#10-12 x 1” SD Self Driller</td>
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<tr>
<td>1/8” Stainless Rivets</td>
<td>Used for Trim to Trim attachment or trim to wall panels.</td>
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<tr>
<td>Stainless Screws</td>
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<td>#10 x1  Wood Drillers</td>
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<tr>
<td>#10 x 1.5</td>
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<tr>
<td>#10 x 2”</td>
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- The table above shows the panel Fasteners provided by WSD. Special order screws are available.
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Western States Metal Roofing
901 W. Watkins St. Phoenix, AZ 85007
Phone: (602) 495-0048 Fax: (602) 261-7726
www.MetalForRoofing.com 877-PURLINS (787-5467)

STANDARD TRIM
B 01-14-13
A 08-12-12

DETAIL #:
Western Rib Panel

WSD-ST5
### Western States Metal Roofing

901 W. Watkins St.  
Phoenix, AZ 85007  
www.MetalForRoofing.com  
www.RustedRoofing.com  
www.MetalDeck.com

Phone: (602) 495-0048  
Fax: (602) 261-7726  
877-PURLINS (787-5467)

---

**Western Rib Panel**

- **STANDARD TRIM**
  - **DETAIL #:** WSD-ST6
  - **PANEL TYPE:** Western Rib Panel
  - **REV:** 01-14-13
  - **DATE:** 08-12-12

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www.MetalForRoofing.com  
www.RustedRoofing.com  
www.MetalDeck.com
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<td>3 15/16&quot;</td>
<td>3 5/16&quot;</td>
<td>5 15/16&quot;</td>
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</tbody>
</table>

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STANDARD TRIM
B 01-14-13
A 08-12-12

WESTERN RIB PANEL
DETAIL #: WSD-ST8
NOTE:
FOR HIGH SNOW AREA THE OVERHANG SHOULD BE 1" MAX.

WESTERN RIB PANEL
INSIDE FOAM CLOSURE (SET IN SEALANT)

#12-14X1" SELF DRILLER W/ WASHER (SEE PAGE 3 & 4 FOR FASTENER PLACEMENT AND SELECTION) *FOOTNOTE

FASTENER AT 12" O.C.

#14X7/8" LAP OR STITCH SCREW @ 24" O.C.

WALL PANEL

EAVE FLASHING (WS-304)

* FOOTNOTE:
FASTENER TYPE OVER PLYWOOD TO BE #9X_ WOOD SCREW FASTENER

* DENOTES ANGLE

- GAUGE: 
- COLOR: 
- BREAKS: 
- FINISH: 
- LENGTH: 
- STRETCH OUT: 
- MATERIAL: 

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EAVE DETAIL

B 01-14-13
A 08-12-12

REV: DATE:

DETAIL #: WSD-E1
NOTE:
FOR HIGH SNOW AREA THE OVERHANG SHOULD BE 1” MAX.

WESTERN RIB PANEL
INSIDE FOAM CLOSURE (SET IN SEALANT)

#12-14X1” SELF DRILLER W/ WASHER (SEE PAGE 3 & 4 FOR FASTENER PLACEMENT AND SELECTION) *FOOTNOTE

#14X7/8” LAP OR STITCH SCREW @ 24” O.C.

MINI EAVE FLASHING (WS-340)

MINI EAVE FLASHING (WS-340)

* DENOTES ANGLE

* FOOTNOTE:
FASTENER TYPE OVER PLYWOOD TO BE #9X_ WOOD SCREW FASTENER

ROOF RAFTER

FASTENER AT 12” O.C.

WALL PANEL

GAUGE: _______ COLOR: _______
BREAKS: _______ FINISH: _______
LENGTH: _______ STRETCH OUT: _______
MATERIAL: _______

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MINI EAVE DETAIL

Western Rib Panel

DETAIL #: WSD-ME1

B 01-14-13
A 08-12-12
REV: DATE:
ROOF EAVE STRUT

FASTENER AT 12" O.C.

* FOOTNOTE:
FASTENER TYPE OVER PLYWOOD
TO BE #9X_ WOOD SCREW
FASTENER

WESTERN RIB PANEL
INSIDE FOAM CLOSURE
(SEAL IN SEALANT)

#12-14X1" SELF DRILLER W/
WASHER (SEE PAGE 3 & 4 FOR
FASTENER PLACEMENT AND
SELECTION) *FOOTNOTE

(WS-312) GUTTER STRAP AT 36" O.C
MAX. FASTEN STRAP TO GUTTER
W/(2) #14X7/8" LAP SELF DRILLER

BOX GUTTER PRE-HUNG
(WS-310)
* DENOTES ANGLE

GUTTER END CAP (WS-314)

GUTTER STRAP (WS-331)

* FOOTNOTE:
FASTENER TYPE OVER PLYWOOD
TO BE #9X_ WOOD SCREW
FASTENER

GUTTER END CAP (WS-314)

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**Western Rib Panel**

**Inside Foam Closure (Set in Sealant)**

- **#12-14x1" Self Driller W/ Washer (See Page 3 & 4 for Fastener Placement and Selection)** *Footnote*

- (WS-312) Gutter Strap at 36" O.C. Max. Fasten Strap to Gutter W/(2) #14x7/8" Lap Self Driller

**Roof Eave Strut**

- **#14x7/8" Lap Self Driller @ 12" O.C. Max.**

* Footnote:

- Fastener Type Over Plywood
- To Be #9x_ Wood Screw Fastener

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---

**Eave Detail**

**Post Hung Gutter Detail**

<table>
<thead>
<tr>
<th>GAUGE:</th>
<th>COLOR:</th>
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<tbody>
<tr>
<td>BREAKS:</td>
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<td>LENGTH:</td>
<td>STRETCH OUT:</td>
</tr>
<tr>
<td>MATERIAL:</td>
<td></td>
</tr>
</tbody>
</table>

**Panel Type:** Western Rib Panel

**Detail #:** WSD-EG2

**Rev:** 08-12-12
**Date:** 01-14-13
POP RIVET ONE SIDE
AS REQUIRED

* CUTTER SPLICE (WS-___)

APPLY NON-CURING
BUTYL SEALANT ON
BOTH SIDES OF
GUTTER

NOTE:
GUTTER SPLICE TO BE INSTALLED ON
OUTSIDE OF GUTTER

* SCULPTURE GUTTER SPLICE
(WS-360)

* FOR POST/PRE-HUNG
GUTTER

* DENOTES ANGLE

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#14X7/8" LAP SELF DRILLER
@ 12" O.C. MAX.

BUTYL TAPE SEAL

GABLE FLASHING (WS-311)

7/8" LAP OR STITCH SCREW
@ 24" O.C.

WALL PANEL

#12-14X1" SELF DRILLER W/ WASH,  (SEE PAGE 3 & 4 FOR FASTENER PLACEMENT AND SELECTION) *FOOTNOTE

WESTERN RIB PANEL

COLOR SIDE

GABLE FLASHING (WS-311)

* FOOTNOTE:
FASTENER TYPE OVER PLYWOOD TO BE #9X WOOD SCREW FASTENER

GABLE FLASHING DETAIL

GAUGE: __________ COLOR: __________
BREAKS: __________ FINISH: __________
LENGTH: __________ STRETCH OUT: __________
MATERIAL: __________

Western Rib Panel

DETAIL #: WSD-GF2
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---

**#14X7/8" LAP SELF DRILLER**
@ 12" O.C. MAX.

**BUTYL TAPE SEAL**

**SCULPTURED GABLE FLASHING**
(WS-309)

---

**7/8" LAP OR STITCH SCREW**
@ 24" O.C.

---

**#12-14X1" SELF DRILLER W/ WASHER**
(SEE PAGE 3 & 4 FOR FASTENER PLACEMENT AND SELECTION) *FOOTNOTE

**WESTERN RIB PANEL**

---

**WALL PANEL**

---

**ROOF PURLIN**

---

**SCULPTURE GABLE FLASHING**
(WS-309)

---

* FOOTNOTE: FASTENER TYPE OVER PLYWOOD TO BE #9X_ WOOD SCREW FASTENER

---

**GAGE:**

**COLOR:**

**BREAKS:**

**FINISH:**

**LENGTH:**

**STRETCH OUT:**

**MATERIAL:**

---

**SCULPTURED GABLE FLASHING DETAIL**

**PANEL TYPE:**
Western Rib Panel

**DETAIL #:**
WSD-SGF2

---

**REV:**
B
**DATE:**
01-14-13

---

**REV:**
A
**DATE:**
08-12-12
#14X7/8" LAP SELF DRILLER @ 12" O.C. MAX.  
BUTYL TAPE SEAL  
UNIVERSAL GABLE FLASHING (WS-398)  

7/8" LAP OR STITCH SCREW @ 24" O.C. 

UNIVERSAL GABLE FLASHING (WS-398) 

#12-14X1" SELF DRILLER W/ WASHER (SEE PAGE 3 & 4 FOR FASTENER PLACEMENT AND SELECTION) *FOOTNOTE  
WESTERN RIB PANEL  

COLOR SIDE  
1/2" HEM  

WESTERN RIB PANEL  

* FOOTNOTE:  
FASTENER TYPE OVER PLYWOOD  
TO BE #9X_ WOOD SCREW FASTENER 

# FOOTNOTE:  
FASTENER TYPE OVER PLYWOOD  
TO BE #9X_ WOOD SCREW FASTENER 

GAUGE: _______  COLOR: _______  
BREAKS: _______  FINISH: _______  
LENGTH: _______  STRETCH OUT: _______  
MATERIAL: _______  

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UNIVERSAL GABLE FLASHING DETAIL 

DETAIL #: WSD-UGF2  

B  01-14-13  
A  08-12-12  

PANEL TYPE: Western Rib Panel  

REV:  DATE:
**Western Rib Panel**

**DETAIL #:**

**PANEL TYPE:**

**REV:**

**DATE:**

**#14x7/8” LAP SELF DRILLER**

@ 12” O.C. MAX.

**BUTYL TAPE SEAL**

**PEAK FLASHING**

(WS-319)

**BUTYL TAPE SEAL**

**4X7/8” LAP OR STITCH SCREW**

@ 24” O.C.

**WALL PANEL**

**ROOF PURLIN**

**OUTSIDE FOAM CLOSURE**

SET IN SEALANT)

**#12-14X1” SELF DRILLER W/ WASHER (SEE PAGE 3 & 4 FOR FASTENER PLACEMENT AND SELECTION) **

*FOOTNOTE*

WESTERN RIB PANEL

**BREAKS:**

**FINISH:**

**MATERIAL:**

**GAUGE:**

**COLOR:**

**LENGTH:**

**STRETCH OUT:**

---

*FOOTNOTE:

FASTENER TYPE OVER PLYWOOD TO BE #9X___ WOOD SCREW FASTENER

---

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SIDEWALL FLASHING DETAIL

Western Rib Panel

GAUGE: _________  COLOR: _________
BREAKS: _________  FINISH: _________
LENGTH: _________  STRETCH OUT: _________
MATERIAL: _________

* FOOTNOTE: FASTENER TYPE OVER PLYWOOD TO BE #9X WOOD SCREW FASTENER

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Western Rib Panel

---

**RIDGE/HIP CAP (WS—___)**

* #14X7/8" LAP SELF DRILLER
  @ 12" O.C. MAX.
  BUTYL TAPE SEAL
  FASTENER AT 12" O.C.

* RIDGE/HIP SUPPORT PLATE
  16GA MINIMUM

* FOOTNOTE:
  FASTENER TYPE OVER PLYWOOD
  TO BE #9X_ WOOD SCREW
  FASTENER

---

OUTSIDE FOAM CLOSURE
(SET IN SEALANT)

WESTERN RIB PANEL

* #12-14X1" SELF DRILLER W/
  WASHER (SEE PAGE 3 & 4 FOR
  FASTENER PLACEMENT AND
  SELECTION) *FOOTNOTE

---

COLOR SIDE

* (WS-305H)=7" OR (WS-320H)=10"
  (WS-305)=7" OR (WS-20)=10"

---

GAUGE: __________  COLOR: __________
BREAKS: __________  FINISH: __________
LENGTH: __________  STRETCH OUT: __________
MATERIAL: __________

---

RIDGE/HIP CAP DETAIL

PANEL TYPE:
Western Rib Panel

DETAIL #: WSD-RH6

---

B 01-14-13
A 08-12-12

REV: DATE:
*VALLEY FLASHING
(WS-323, WS-324, WS-325)
* DENOTES ANGLE

#12-14x1" SELF DRILLER W/ WASHER (SEE PAGE 3 & 4 FOR FASTENER PLACEMENT AND SELECTION)

FASTENER AT 12" O.C.

* FOOTNOTE:
FASTENER TYPE OVER PLYWOOD TO BE #9x_ WOOD SCREW FASTENER

VALLEY SUPPORT PLATE
16GA MINIMUM

INSIDE FOAM CLOSURE
(SET IN SEALANT)

WESTERN RIB PANEL
VALLEY FLASHING (WS---)

FASTENER AT 12" O.C.

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OUTSIDE FOAM CLOSURE (SET IN SEALANT) FASTENER AT 12" O.C.

2 ROWS OF BUTYL TAPE SEAL

SUPPORT PLATE 16GA MINIMUM

ROOF PURLIN

#12-14X1" SELF DRILLER W/ WASHER (SEE PAGE 3 & 4 FOR FASTENER PLACEMENT AND SELECTION) *FOOTNOTE

PITCH BREAK HIGH TO LOW (WS-336)

#14X7/8" LAP SELF DRILLER @ 12" O.C. MAX.

BUTYL TAPE SEAL

OUTSIDE FOAM CLOSURE (SET IN SEALANT)

WESTERN RIB PANEL

#12-14X1" SELF DRILLER W/ WASHER (SEE PAGE 3 & 4 FOR FASTENER PLACEMENT AND SELECTION) *FOOTNOTE

* FOOTNOTE: FASTENER TYPE OVER PLYWOOD TO BE #9X_ WOOD SCREW FASTENER

PITCH BREAK HIGH TO LOW FLASHING (WS-336) * DENOTES ANGLE

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Western Rib Panel

GAUGE: ________ COLOR: ________
BREAKS: ________ FINISH: ________
LENGTH: ________ STRETCH OUT: ________
MATERIAL: ________

PITCH BREAK HIGH TO LOW DETAIL

DETAIL #: WSD-PB8

A 08-12-12
B 01-14-13

REV: 08-12-12
DATE: 01-14-13
DETAIL #: WSD-PB9

Western Rib Panel

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#12-14x1” SELF DRILLER W/ WASHNER (SEE PAGE 3 & 4 FOR FASTENER PLACEMENT AND SELECTION)

FASTENER AT 12” O.C.
WESTERN RIB PANEL

OUTSIDE FOAM CLOSURE (SET IN SEALANT)

PITCH BREAK LOW TO HIGH (WS-337)

#14x7/8” LAP SELF DRILLER @ 12” O.C. MAX.

BUTYL TAPE SEAL
OUTSIDE FOAM CLOSURE (SET IN SEALANT)
WESTERN RIB PANEL

PITCH BREAK LOW TO HIGH FLASHING (WS-337) * DENOTES ANGLE

SLOPE S1
SLOPE S2
COLOR 6" 5"

FASTENER AT 12” O.C.
ROOF PURLIN

#12-14x1” SELF DRILLER W/ WASHNER (SEE PAGE 3 & 4 FOR FASTENER PLACEMENT AND SELECTION)

2 ROWS OF BUTYL TAPE SEAL
SUPPORT PLATE 16GA MINIMUM

* FOOTNOTE:
FASTENER TYPE OVER PLYWOOD TO BE #9X_ WOOD SCREW FASTENER

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PITCH BREAK LOW TO HIGH DETAIL

| GAUGE: _______ | COLOR: _______ |
| BREAKS: _______ | FINISH: _______ |
| LENGTH: _______ | STRETCH OUT: _______ |
| MATERIAL: _______ |

Western Rib Panel

BAR 01-14-13
A 08-12-12

DETAIL #: WSD-PB9
CHIMNEY FLASHING DETAILS

Western Rib Panel

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GAUGE: _______  COLOR: _______
BREAKS: _______  FINISH: _______
LENGTH: _______  STRETCH OUT: _______
MATERIAL: _______

DETAIL #: WSD-CF10

DATE: 08-12-12

Footing:

*FOOTNOTE: FASTENER TYPE OVER PLYWOOD TO BE #9X_ WOOD SCREW FASTENER

ANCHOR FASTENER BY OTHERS

BUTYL TAPE SEAL

ROOF PURLIN

CAULK SEALANT

REGLET FLASHING CUSTOM TRIM (WS-329)

#14X7/8" LAP SELF DRILLER @ 12" O.C. MAX.

OUTSIDE FOAM CLOSURE (SET IN SEALANT)

ENDWALL FLASHING (WS-328)

#12-14X1" SELF DRILLER W/ WASHER (SEE PAGE 3 & 4 FOR FASTENER PLACEMENT AND SELECTION) *FOOTNOTE

WESTERN RIB PANEL

COLOR SIDE

ENDWALL (WS-328)

* DENOTES ANGLE

COLOR SIDE

REGLET FLASHING CUSTOM TRIM (WS-329)

COLOR SIDE

3/4" HEM

6"
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**Western Rib Panel**

**ISOMETRIC VIEW**

- **CHIMNEY WALL**
- **APPLY SEALANT BEHIND CRICKET FLASH**
- **CRICKET FLASH FIELD**
  - FAB. FROM FLAT SHEET
- **APPLY SEALANT UNDER HEM**
- **SPLIT PANEL AND SLIDE FLASH UNDER PANEL**
- **BACK-UP AREA W/A FLAT SHEET AND CAULK WATERTIGHT (INSTALL BELOW AND BACK FLASH)**

**PLAN VIEW**

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**WESTERN RIB PANEL**

**CRICKET DETAIL @ CHIMNEY**

**DATE:**
- **B 01-14-13**
- **A 08-12-12**

**DETAIL #:**
- **WSD-CF13**
* SEE MANUFACTURING SPECIFICATIONS FOR INSTALLATION INSTRUCTIONS

VENT/PIPE FLASHING
SET IN SEALANT AND FORM TO PANEL PROFILE

WESTERN RIB PANEL

FASTEN AT 1" O.C.

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#12-14x1" SELF DRILLER W/ WASHER (SEE PAGE 3 & 4 FOR FASTENER PLACEMENT AND SELECTION) *FOOTNOTE

WESTERN RIB PANEL

FASTENER AT 12" O.C.

HEAD TRIM (WS-308)

HEAD AND JAMB DETAILS

Western Rib Panel

<table>
<thead>
<tr>
<th>GAUGE:</th>
<th>COLOR:</th>
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<tbody>
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A 08-12-12
HEAD AND JAMB DETAILS

B 01-14-13

DETAIL #: WSD-W15

HEAD TRIM (WS-308)

CEE CHANNEL

WALL FRAME

JAMB TRIM (WS-303)

2½" HEM

2½" COLOR SIDE

2½" COLOR SIDE

WAFFLE CEBAR
Western Rib Panel

*FOOTNOTE: FASTENER TYPE OVER PLYWOOD TO BE #8X_ WOOD SCREW FASTENER

WALL FRAME

BASE TRIM
(WS-306)

CEE CHANNEL

FASTENER AT 12'' O.C.

#12-14X1'' SELF DRILLER W/ WASHER (SEE PAGE 3 & 4 FOR FASTENER PLACEMENT AND SELECTION) *FOOTNOTE

BASE TRIM (WS-306)
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Western Rib Panel

*FOOTNOTE:
FASTENER TYPE OVER PLYWOOD
TO BE #9X_ WOOD SCREW
FASTENER

#12-14X1" SELF DRILLER W/
WASHER (SEE PAGE 3 & 4 FOR
FASTENER PLACEMENT AND
SELECTION) *FOOTNOTE

INSIDE CORNER
(WS-330)

BUTYL TAPE SEAL

#14X7/8" LAP SELF DRILLER
@ 12" O.C. MAX.

WESTERN RIB PANEL

WALL FRAME

INSIDE CORNER
(WS-330)

COLOR SIDE

3/4"

11/" HEM

BREAKS:
FINISH:
MATERIAL:
LENGTH:
STRETCH OUT:

GAUGE:
COLOR:
BREAKS:
FINISH:
LENGTH:
STRETCH OUT:
MATERIAL:

INSIDE CORNER
WALL DETAIL

B 01-14-13
A 08-12-12

DETAIL #: WSD-W19
Western States “Western Rib” Panel
Installation, Flashings & Shop Drawing Detail Guide

Special Design Considerations

The details contained in this guide are proven industry details and are intended to be used as a design aid and installation guide. It does not depict all situations that may be encountered on all projects. Modifications are the responsibility of the designer/owner/installer.

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 to areas of high snow and ice accumulations.

Panel coverage and fastening

Normal panel width of “Western Rib” 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 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 resource 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