# Western States R Panel

Installation, Flashings & Shop Drawing Detail Guide

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Western States “R” 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
“R” 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 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 “R” 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 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.
Western States Metal Roofing “R” Panel
Installation, Flashings & Shop Drawing Detail Guide

Fastener Placement and Selection

Notes to Installers:

• Fastener Selection will vary depending on type and thickness of substrate.
• Space panel lap screws 12” minimum - 24” 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

<table>
<thead>
<tr>
<th>Description</th>
<th>Application</th>
</tr>
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<tbody>
<tr>
<td>#9 x 1” Wood Drillers</td>
<td>Used to attach panels to dimensional Lumber and plywood</td>
</tr>
<tr>
<td>#9 x 1.5” Wood Drillers</td>
<td></td>
</tr>
<tr>
<td>#9 x 2” Wood Drillers</td>
<td></td>
</tr>
<tr>
<td>#12-14 x 1” SD</td>
<td>Used to attach panels to Purlins and other metal substrates</td>
</tr>
<tr>
<td>#12- 14 x 1.5” SD</td>
<td></td>
</tr>
<tr>
<td>#12- 14 x 2” SD</td>
<td></td>
</tr>
<tr>
<td>#12-24 x 1.25 SD</td>
<td></td>
</tr>
<tr>
<td>¼ 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>
</tr>
<tr>
<td>¼” x 7/8” Lap Stainless</td>
<td></td>
</tr>
<tr>
<td>#10-12 x 1” Pancake Wood</td>
<td>Used to secure trims to substrates. Also available in Stainless Steel.</td>
</tr>
<tr>
<td>#10-12 x 1” SD Self Driller</td>
<td></td>
</tr>
<tr>
<td>1/8” Stainless Rivets</td>
<td>Used for Trim to Trim attachment or trim to wall panels.</td>
</tr>
<tr>
<td>Stainless Screws</td>
<td></td>
</tr>
<tr>
<td>#10 x 1” Wood Drillers</td>
<td>Used for panel attachment for panels made with A606-4 Steel</td>
</tr>
<tr>
<td>#10 x 1.5” Wood Drillers</td>
<td></td>
</tr>
<tr>
<td>#10 x 2” Wood Drillers</td>
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The table above shows the panel Fasteners provided by WSD. Special order screws are available.
<table>
<thead>
<tr>
<th>Detail #</th>
<th>Panel Type</th>
<th>REV</th>
<th>Date</th>
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<tr>
<td>ST-5</td>
<td>R-Panel</td>
<td>A</td>
<td>06-18-12</td>
</tr>
<tr>
<td>B</td>
<td>01-14-13</td>
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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  
www.RustedRoofing.com  
www.MetalDeck.com
<table>
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<th>DATE:</th>
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<td>A 06-18-12</td>
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**STANDARD TRIM**

<table>
<thead>
<tr>
<th>EXTENDED VALLEY WS-225</th>
<th>PEAK FLASHING WS-219</th>
<th>JAMB TRIM WS-203</th>
<th>HEAD TRIM WS-208</th>
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<tr>
<td><img src="image1" alt="Diagram" /></td>
<td><img src="image2" alt="Diagram" /></td>
<td><img src="image3" alt="Diagram" /></td>
<td><img src="image4" alt="Diagram" /></td>
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</tbody>
</table>

**BASE TRIM WS-206**  
**ENDWALL FLASHING WS-228**  
**SIDEWALL FLASHING WS-207**  
**RIDGE/HIP CAP WS-205**

- **BASE TRIM WS-206**
  - 3 3/4”
  - 1 1/2”
  - 1/2” HEM

- **ENDWALL FLASHING WS-228**
  - 4 1/2”
  - 6”
  - 1 1/2” HEM

- **SIDEWALL FLASHING WS-207**
  - 3 3/4”
  - 1 1/2”
  - 1/2” HEM

- **RIDGE/HIP CAP WS-205**
  - 1"  
  - 7/8”

**RIDGE/HIP CAP WS-205H**  
**RIDGE/HIP CAP WS-220**  
**RIDGE/HIP CAP WS-220H**  
**DIE FORMED RIDGE CAP WS-221**

- **RIDGE/HIP CAP WS-205H**
  - 7”
  - 7”
  - 1/2” HEM

- **RIDGE/HIP CAP WS-220**
  - 10”
  - 10”
  - 1/2” HEM

- **RIDGE/HIP CAP WS-220H**
  - 10”
  - 1/2” HEM

- **DIE FORMED RIDGE CAP WS-221**
  - 6:12 PITCH MAX

*Denotes Angle*
<table>
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<tr>
<td><img src="image" alt="OUTSIDE CORNER WS-202" /></td>
<td><img src="image" alt="INSIDE CORNER WS-230" /></td>
<td><img src="image" alt="CRICKET FLASHING CUSTOM TRIM WS-299" /></td>
<td><img src="image" alt="SCULPTURED PRE-HUNG GUTTER WS-201" /></td>
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**STANDARD TRIM**

- **B**: 01-14-13
- **A**: 06-18-12
- **REV:**
- **DATE:**
- **DETAIL #:**
- **PANEL TYPE:** R-Panel
- **WSD-ST7**
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<th>Component</th>
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<tr>
<td>Downspout Strap WS-242</td>
<td><img src="image1" alt="Downspout Strap" /></td>
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<tr>
<td>Downspout Outlet WS-275</td>
<td><img src="image2" alt="Downspout Outlet" /></td>
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<tr>
<td>Gutter Strap WS-212</td>
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<tr>
<td>Box Gutter End Cap WS-214</td>
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<tr>
<th>Sculpture Gutter End Cap WS-249</th>
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<td><img src="image5" alt="Sculpture Gutter End Cap" /></td>
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Phone: (602) 495-0048
Fax: (602) 261-7726
877-PURLINS (787-5467)
NOTE:
FOR HIGH SNOW AREA THE OVERHANG SHOULD BE 1” MAX.

FASTENER AT 12” O.C.

EAVE FLASHING (WS-204)

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

R PANEL
INSIDE FOAM CLOSURE (SET IN SEALANT)

#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

WALL PANEL

* DENOTES ANGLE
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www.MetalDeck.com

NOTE:
FOR HIGH SNOW AREA THE OVERHANG SHOULD BE 1” MAX.

MINI EAVE DETAIL
WSD-ME1
R-Panel

MINI EAVE FLASHING (WS-240)

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

WALL PANEL

FASTENER AT 12” O.C.

ROOF RAFTER

R PANEL
INSIDE FOAM CLOSURE (SET IN SEALANT)

#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

COLOR SIDE
COLOR: __________________
FINISH: __________________
STRETCH OUT: ____________
MATERIAL: ________________

GAUGE: ____________
BREAKS: ____________
LENGTH: ____________

MINI EAVE DETAIL

R-Panel

B 01-14-13
A 06-18-12

RE: ____________
DATE: ____________

DETAIL #: WSD-ME1
**ROOF EAVE STRUT**

**FASTENER AT 12" O.C.**

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

**R PANEL**
INSIDE FOAM CLOSURE (SET IN SEALANT)

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

**GW-212 GUTTER STRAP AT 36" O.C MAX. FASTEN STRAP TO GUTTER W/(2) #14X7/8" LAP SELF DRILLER**

**GUTTER END CAP (WS-214)**

**GUTTER STRAP (WS-212)**

**BREAKS:**

**FINISH:**

**MATERIAL:**

**GAUGE:**
**COLOR:**

**B 01-14-13**

**A 06-18-12**

**DETAIL #:**

**WSD-EPRG1**

**EAVE DETAIL**

**PRE-HUNG**

**GUTTER DETAIL**

**PANEL TYPE:**

**R-Panel**

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877-PURLINS (787-5467)
APPRIOPRIATE UNDERLAYMENT

ROOF EAVE STRUT

R PANEL
INSIDE FOAM CLOSURE
(SET IN SEALANT)

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

(WS-212) GUTTER STRAP AT 36" O.C.
MAX. FASTEN STRAP TO GUTTER
W/(2) #14X7/8" LAP SELF DRILLER

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

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

BOX GUTTER POST-HUNG
(WS-215)

GUTTER END CAP (WS-214)

BOX GUTTER POST-HUNG
(WS-215)

WALL PANEL

GUTTER STRAP (WS-212)

* DENOTES ANGLE

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877-PURLINS (787-5467)
**POP RIVET ONE SIDE AS REQUIRED**

**NOTE:**
GUTTER SPLICE TO BE INSTALLED ON OUTSIDE OF GUTTER

**GAUGE:**

**COLOR:**

**BREAKS:**

**FINISH:**

**LENGTH:**

**STRETCH OUT:**

**MATERIAL:**

**GUTTER SPLICE DETAIL**

*GUTTER SPLICE (WS-213)

* DENOTES ANGLE

"POST/PRE-HUNG GUTTER"

*SCULPTURE GUTTER SPLICE (WS-260)

* DENOTES ANGLE

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877-PURLINS (787-5467)
**GABLE FLASHING**

**DETAIL**

**WSD-GF2**

**R-Panel**

**BREAKS:**

**FINISH:**

**MATERIAL:**

**GAUGE:**

**COLOR:**

**LENGTH:**

**STRETCH OUT:**

---

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www.MetalForRoofing.com 877-PURLINS (787-5467)
#14X7/8" LAP SELF DRILLER @ 12" O.C. MAX.

BUTYL TAPE SEAL

MINI GABLE FLASHING (WS-241)

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

WALL PANEL

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

R PANEL

COLOR SIDE

MINI GABLE FLASHING (WS-241)

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

<table>
<thead>
<tr>
<th>GAUGE:</th>
<th>COLOR:</th>
</tr>
</thead>
<tbody>
<tr>
<td>BREAKS:</td>
<td>FINISH:</td>
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<tr>
<td>LENGTH:</td>
<td>STRETCH OUT:</td>
</tr>
<tr>
<td>MATERIAL:</td>
<td></td>
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</tbody>
</table>
#14x7/8" LAP SELF DRILLER @ 12" O.C. MAX.

BUTYL TAPE SEAL

SCULPTURED GABLE FLASHING (WS-209)

#14x7/8" LAP OR STITCH SCREW @ 24" O.C.

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

R PANEL

6" WARES

1/2" HEM

7 8

5"

ROOF PURLIN

SCULPTURE GABLE FLASHING (WS-209)

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

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877-PURLINS (787-5467)

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

SCULPTURED GABLE FLASHING DETAIL

PANEL TYPE: R-Panel
DETAIL #: WSD-SGF2

REV: B DATE: 01-14-13
A DATE: 06-18-12
#14x7/8" LAP SELF DRILLER @ 12" O.C. MAX.

BUTYL TAPE SEAL

UNIVERSAL GABLE FLASHING (WS-298)

#14x7/8" LAP OR STITCH SCREW @ 24" O.C.

WALL PANEL

ROOF PURLIN

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

R PANEL

3 1/2"

1/2" HEM

COLOR SIDE

UNIVERSAL GABLE FLASHING (WS-298)

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

<table>
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<th>GAUGE:</th>
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<td>MATERIAL:</td>
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Fax: (602) 261-7726
877-PURLINS (787-5467)
PEAK FLASHING/HIGH EAVE DETAIL

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

BUTYL TAPE SEAL

PEAK FLASHING
(WS-219)

BUTYL TAPE SEAL

#14X7/8" 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

R PANEL

5" (VARIES)
COLOR SIDE

2" HEM

PEAK FLASHING/HIGH EAVE FLASHING
(WS-219)
* DENOTES ANGLE

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

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

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877-PURLINS (787-5467)

B 01-14-13
A 06-18-12
REV: DATE:
DETAIL #: WSD-PK3
FASTENER AT 12" O.C.

#14X3/8" LAP SELF DRILLER @ 12" O.C. MAX.

BUTYL TAPE SEAL

WALL PANEL

SIDEWALL FLASHING (WS-207)

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

R PANEL

ROOF PURLIN

SIDEWALL FLASHING (WS-207)

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

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SIDEWALL FLASHING DETAIL

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</table>
**ENDWALL FLASHING DETAIL**

**WALL PANEL**

- #14x7/8" LAP SELF DRILLER @ 12" O.C. MAX.
- OUTSIDE FOAM CLOSURE (SET IN SEALANT)
- ENDWALL FLASHING (WS-228)

**FASTENER AT 12" O.C.**

**BUTYL TAPE SEAL**

**ENGBER AND PANEL**

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

**ROOF PURLIN**

**COLOR SIDE**

**3/4" HEM**

**ENDWALL FLASHING**

**WS-228**

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

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**ENDWALL FLASHING DETAIL**

**PANEL TYPE:** R-Panel

**DETAIL #:** WSD-EW5
DIE FORMED RIDGE (WS-221)

#14X7/8" LAP SELF DRILLER @ 12" O.C. MAX.
BUTYL TAPE SEAL (UNDER RIDGE CAP)
FASTENER AT 12" O.C.

RIDGE/HIP SUPPORT PLATE 16GA MINIMUM

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

* 6:12 PITCH MAX.

FORMED RIDGE DETAIL

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

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R-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

ROOF PURLIN

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

OUTSIDE FOAM CLOSURE
(SET IN SEALANT)

R PANEL

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

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

*FOOTNOTE:
RIDGE/HIP CAP DETAIL

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### VALLEY DETAIL

**VALLEY FLASHING**

(WS-223, WS-224, WS-225)

* DENOTES ANGLE

(WS-224) = 11" OR (WS-225) = 18 3/4"

(WS-223) = 20 3/4"

INSIDE FOAM CLOSURE

(SET IN SEALANT)

---

**FASTENER AT 12" O.C.**

**FASTENER AT 12" O.C.**

---

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

---

**VALLEY SUPPORT PLATE**

16GA MINIMUM

---

**FOOTNOTE:**

FASTENER TYPE OVER PLYWOOD

TO BE #9X_ WOOD SCREW

FASTENER

---

**VALLEY DETAIL**

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---

**GUAGE:**

**COLOR:**

**BREAKS:**

**FINISH:**

**LENGTH:**

**STRETCH OUT:**

**MATERIAL:**

---

**VALLEY DETAIL**

**R-Panel**

**WSD-V7**
PITCH BREAK HIGH TO LOW (WS-236)

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

PITCH BREAK HIGH TO LOW FLASHING (WS-236)  
* DENOTES ANGLE

B 01-14-13
A 06-18-12

PANEL TYPE: R-Panel
DETAIL #: WSD-PB8

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WWW.RUSTEDROOFING.COM
WWW.METALDECK.COM
CHIMNEY FLASHING DETAILS

- PANEL TYPE: R-Panel
- DETAIL #: WSD-CF10
- DATE: 06-18-12

- BUTYL TAPE SEAL
- ROOF PURLIN
- ANCHOR FASTENER BY OTHERS

- REGLET FLASHING CUSTOM TRIM (WS-229)
- ENDWALL FLASHING (WS-228)
- OUTSIDE FOAM CLOSURE (SET IN SEALANT)

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

- CAULK SEALANT

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

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01-14-13
#10-14X1" SELF DRILLER W/ WASHES (SEE PAGE 3 & 4 FOR FASTENER PLACEMENT AND SELECTION) *FOOTNOTE

ANCHOR FASTENER BY OTHERS

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

BUTYL TAPE SEAL

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

CAULK SEALANT
REGLET FLASHING CUSTOM TRIM (WS-229)
SIDEWALL FLASHING (WS-207)

ROOF PURLIN

SIDEWALL FLASHING (WS-207)

REGLET FLASHING CUSTOM TRIM (WS-229)

* DENOTES ANGLE

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**CHIMNEY FLASHING DETAILS**

**DETAIL #:** WSD-CF11

**PANEL TYPE:** R-Panel

**REV:** DATE:
B 01-14-13
A 06-18-12

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CHIMNEY FLASHING DETAILS

**DETAIL #:** WSD-CF12
**PANEL TYPE:** R-Panel

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

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**CHIMNEY FLASHING**
**DATE:** 06-18-12
**REV:** A
**DETAIL #:** WSD-CF12

- **CAULK SEALANT**
- **REGLET FLASHING CUSTOM TRIM (WS-229)**
- **CRICKET FLASHING CUSTOM TRIM (WS-299)**
- **FIELD FORMED CRICKET**
- **INSIDE FOAM CLOSURE** (SET IN SEALANT)
- **R PANEL**
- **FASTENER AT 12" O.C.**
  - #12-14X1" SELF DRILLER W/ WASHER (SEE PAGE 3 & 4 FOR FASTENER PLACEMENT AND SELECTION) *FOOTNOTE
- **ROOF PURLIN**
- **CRICKET SUPPORT PLATE** 16GA MINIMUM
  - ANCHOR FASTENER BY OTHERS

**BREAKS:**
**FINISH:**
**MATERIAL:**

**STRETCH OUT:**
**COLOR SIDE:**

* **DENOTES ANGLE**
ISOMETRIC VIEW

PLAN VIEW

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CRICKET DETAIL @ CHIMNEY
R-Panel

06-18-12
01-14-13
06-18-12
WSD-CF13

ISOMETRIC CRICKET DETAIL @ CHIMNEY
PANEL TYPE:
R-Panel
DETAIL #:
WSD-CF13
REV:
DATE:
B
01-14-13
A
06-18-12

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

R PANEL

FASTEN AT 1” O.C.

* SEE MANUFACTURING SPECIFICATIONS
FOR INSTALLATION INSTRUCTIONS

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PIECE FLASHING
DETAIL

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

PIECE FLASHING
DETAIL

B 01-14-13
A 06-18-12

DETAIL #: WSD-PF14

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

JAMB TRIM (WS-203)

FASTENER AT 12" O.C.

HEAD TRIM (WS-208)

WALL FRAME

R PANEL

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www.RustedRoofing.com
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HEAD AND JAMB DETAILS

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

HEAD TRIM (WS-208)

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

HEAD AND JAMB DETAILS

R PANEL

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HEAD AND JAMB DETAILS

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BREAKS: __________  FINISH: __________
LENGTH: __________  STRETCH OUT: __________
MATERIAL: __________
* 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
* 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

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CUSTOM TRIM NAME: |
| B | 01-14-13 |
| A | 06-18-12 |

PANEL TYPE: R-Panel

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Western States “R” 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 in areas of high snow and ice accumulations.

Panel Coverage and Fastening

Normal panel width of “R” 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