Custom Seal (PVC)
ROOFING DETAILS

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METAL COUNTER FLASHING  
(BY OTHERS) 

USE OF EXISTING METAL COUNTER 
FLASHING TO ALLOW SYSTEM TO VENT  

APPROVED FASTENER 
EACH 24’ O.C. MAX.  

CUSTOM SEAL MEMBRANE  

APPROVED FASTENER EVERY HOLE 

CUSTOM SEAL MEMBRANE  

APPROVED CAULK
Parapet Wall Coping Cap

Detail #: PVC-1.03

(PVC) Systems

Parapet Wall Coping Cap Details:
- Metal Coping
- Approved Fastener
- Metal Clip
- Approved Fastener 24" O.C.
- Custom Seal Membrane
- Treated Wood Nailer

Wall Termination W/ Term Bar and Wood Nailer

Detail #: PVC-1.04

(PVC) Systems

Wall Termination W/ Term Bar and Wood Nailer Details:
- Approved Caulk
- Custom Seal Termination Bar
- Custom Seal Prefabricated Parapet Wall Flashing
- Factory Weld
- Field Weld
- Roof Deck
Prefabricated Wall Base Flashing
Factory Tab on Deck

Detail #: PVC-1.05

(PVC) Systems

Wall Base Flashing
Factory Tab on Wall

Detail #: PVC-1.06

(PVC) Systems
Wall Base Flashing Tab on Deck

Detail #: PVC-1.07

(PVC) Systems

Wall Base Flashing Existing Cant Tab on Deck

Detail #: PVC-1.08

(PVC) Systems

CUSTOM SEAL MEMBRANE

FACTORY WELD

CUSTOM SEAL SEAM PLATE OR METAL BAR ANCHOR

1 1/2" HOT AIR WELD

CUSTOM SEAL MEMBRANE

APPROVED SUBSTRATE

APPROVED FASTENER 12" O.C.

EXISTING CANT

APPROVED FASTENER 12" O.C.

APPROVED INSULATION
4" MAX. FROM DECK W/OUT TREATED WOOD NAILER

APPROVED SUBSTRATE
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**Wall Base Flashing Existing Cant Tab On Wall**

- **Detail #: PVC-1.09**
- **(PVC) Systems**

- **Approved Substrate**
- **Approved Fastener 12" O.C.**
- **Existing Cant**
- **Custom Seal Membrane**
- **Custom Seal Seam Plate or Metal Bar Anchor**
- **Factory Weld**
- **1 1/2" Hot Airweld**
- **Approved Insulation 4" Max. From Deck W/Out Treated Wood Nailer**

**Wall Base Flashing Wood Nailer**

- **Detail #: PVC-1.10**
- **(PVC) Systems**

- **2X4 Anchored To Deck (Where Req’D.)**
- **Custom Seal Membrane**
- **Approved Insulation 4" Max. From Deck W/Out Treated Wood Nailer**
- **Approved Fastener 12" O.C.**
- **Approved Substrate**
- **Custom Seal Seam Plate or Metal Bar Anchor**
- **Factory Weld**
- **1 1/2" Hot Airweld**
- **Approved Substrate**
NOTE: FIRST PARAPET TAB MUST BE NO MORE THAN 24" FROM BASE

Wall Base Flashing
W/High Parapet                  Detail #: PVC-1.11     (PVC) Systems

Wall Termination
Wall Base Flashing              Detail #: PVC-1.12     (PVC) Systems
**Sloped Wall Transition**

**Detail #: PVC-1.13**

**APPROVED FASTENER**

**CUSTOM SEAL WATERSTOP**

**SHINGLES (2 FULL COURSES OVER MEMBRANE)**

**1 1/2" HOT AIR WELD**

**CUSTOM SEAL MEMBRANE**

**TREATED WOOD NAILER (SEE BELOW)**

**APPROVED SUBSTRATE**

**APPROVED FASTENER**

**12" O.C.**

**APPROVED FASTENER**

**24" O.C.**

**NOTE:** ACCEPTABLE ROOFING NAILS MAY BE USED AT 4" O.C. PROVIDING A TREATED WOOD NAILER IS PRESENT

**CURB/SKYLIGHT FLASHING**

**Detail #: PVC-1.14**

**APPROVED FASTENER**

**24" O.C. MAX.**

**CUSTOM SEAL METAL BAR ANCHOR**

W/ APPROVED FASTENER 18" O.C. MAX.

**1 1/2" HOT AIR WELD**

**CUSTOM SEAL MEMBRANE**

**APPROVED INSULATION**

4" MAX. FROM DECK W/OUT TREATED WOOD NAILER
**Curb/Skylight Detail**

**Detail #: PVC-1.15**

1. **Custom Seal Membrane**
2. **Approved Substrate**
3. **Approved Fastener 18" O.C. Max.**
4. **1 1/2" Hot Air Weld**
5. **1" Wood Nailer**
6. **Metal Cap or Counterflashing**
7. **Treated Wood Nailer**
8. **Approved Insulation 4" Max. from Deck W/Out Treated Wood Nailer**

---

**Roof Hatch Detail**

**Detail #: PVC-1.16**

1. **Custom Seal Membrane**
2. **Approved Substrate**
3. **Approved Fastener 18" O.C. Max.**
4. **Rubber Rod Stock Larger Than Opening (By Others)**
5. **Set in Bonding Adhesive**
6. **Metal Cap or Counterflashing (By Others)**
7. **Treated Wood Nailer**
8. **1 1/2" Hot Airweld**

---

**PVC Systems**

1/03
Custom Seal Mechanically Attached

**Detail #: PVC-1.19**  
(PVC) Systems

Prefabricated Closed Pipe Boot

**Detail #: PVC-1.20**  
(PVC) Systems
**Prefabricated Open Pipe Boot**

**Detail #: PVC-1.21**

1/03

**Lightning Rod Detail**

**Detail #: PVC-1.22**

1/03

*NOTE* WRAP THE OPEN FLASHING AROUND THE PIPE, BRING THE TWO SIDES TOGETHER ALLOWING FOR A 2" OVERLAP. WELD TRANSITION FROM VERTICAL TO HORIZONTAL FIRST, THEN WELD THE VERTICAL, AND FINISH WITH THE HORIZONTAL.
Pre-Fab Hot stack flashing

Detail # PVC-1.23

(PVC) Systems

Sump Roof Detail Option

Detail # PVC-1.24

(PVC) Systems

NOTE: ALL BOLTS MUST BE PRESENT AND SECURE
CLAMPING RING
CUSTOM SEAL
WATERSTOP

NOTE: ALL BOLTS MUST BE PRESENT AND SECURE

Existing/New Sump Roof Drain
Detail # PVC-1.25
(PVC) Systems

Roof Drain Insert
Detail # PVC-1.26
(PVC) Systems
NOTE: EXPANSION JOINTS MUST BE DONE ACCORDING TO CUSTOM SEAL INC. STANDARD DETAILS OR PRE-APPROVED SHOP DRAWINGS.

Flat Expansion Or Control Joint

Detail # PVC-1.27

(PVC) Systems

1/03

Raised Expansion Joint

Detail # PVC-1.28

(PVC) Systems

1/03
Custom Seal 2 3/4" Facia Bar/Cover  
Detail # PVC-1.31  
(PVC) Systems  

2 3/4" Fascia Bar Raised  
To Create Gravel Stop  
Detail # PVC-1.32  
(PVC) Systems
2" or 2 3/8" Seam Plate
And Custom Seal Fasteners

PVC Coated Metal Gravel
Stop/Drip Edge

Detail #: PVC-1.32a
(PVC) Systems
1/03

(PVC) Membrane
1 1/2" (3.8cm) Minimum Hot Air Weld

(PVC) Membrane (maximum 37.5" width)
1 1/2" (3.8cm) Minimum Hot Air Weld

(PVC) Coated Metal
Continuous Metal Cleat

Wood Nailer(s)
(equal height to insulation and wider than the metal flange)

Install metalwork in accordance with SMACNA recommendations

---

Snap On Two Piece
Fascia Assembly

Detail #: PVC-1.32b
(PVC) Systems
1/03

Custom Seal (PVC) Membrane Extending min. ½" Past Nailer Secured To The Nailer With The Spring Cleat Of The Snap On Fascia Assembly

Custom Seal (PVC) Reinforced Flashing Or Field Cut (PVC) Membrane Of Sufficient Width To Achieve A 1 1/2" Hot Air Weld Onto The Deck Sheet And Extend Over Dam And Down To Cleat Bend On Metal Spring Cleat

Install metalwork in accordance with SMACNA recommendations

Approved Substrate

Fasten Spring Cleat Assembly In Accordance With Manufacturer's Recommendations But No Less Than 1 Fastener Every 6"
Install metalwork in accordance with SMACNA recommendations.

**PVC Coated Metal Gravel Stop/Drip Edge**

**Detail #: PVC-1.32c**

- PVC Membrane
- Continuous Metal Cleat
- Wood Nailer(s)
- Install metalwork in accordance with SMACNA recommendations

**Insulation**

- 2" or 2 3/8" Seam Plates
- And Custom Seal Fasteners

- 1 1/2" (3.8cm) Minimum Hot Air Weld

- PVC Coated Metal (maximum 37.5" width)

**PVC Coated Metal Gravel Stop / Drip Edge - Option 2**

**Detail #: PVC-1.32d**

- PVC Membrane
- 6" Wide PVC Reinforced Flashing
- Continuous Metal Cleat

- 1 1/2" (3.8cm) Minimum Hot Air Weld

- PVC Coated Metal

**Insulation**

Install metalwork in accordance with SMACNA recommendations.

- Wood Nailer(s)
  (equal height to insulation and wider than the metal flange)

- 2" or 2 3/8" Seam Plates
- And Custom Seal Fasteners

- 1 1/2" (3.8cm) Minimum Hot Air Weld

- PVC Coated Metal (maximum 37.5" width)
1. Cut opening into gravel stop fascia and dam leaving 1" minimum tabs on the 3 sides of the fascia that will connect with scupper sleeve.
2. Fabricate sleeve to fit opening.

3. Set tabs of sleeve in a bead of approved sealant onto the gravel stop / fascia and bend fascia tabs into the front of the sleeve into another bead of approved sealant and pop rivet into place as shown. Fabrication and assembly are to comply with SMACNA recommendations.

4. Strip in gravel stop flange according to system specification with the deck sheet.

5. Flash sleeve with unsupported flashing.
6. Treat metal joints in accordance with detail R-14.09.

Refer to appropriate edge detail for metal edge requirements - the focus of this detail is the fabrication of a gravelstop scupper.
Custom Seal Term Bar Over Edge

Detail # PVC-1.33

(PVC) Systems

Custom Seal Term Bar Over Edge

Detail # PVC-1.33

(PVC) Systems

Walkway Pad

Detail # PVC-1.34

(PVC) Systems
NOTE: CUSTOM SEAL SYSTEMS INC. DOES NOT WARRANT ANY TIE IN AREAS.

System Tie-In  Detail # PVC-1.37  (PVC) Systems

Valley Tie-In  Detail # PVC-1.38  (PVC) Systems
Threshold Termination

**Detail # PVC-1.40**

- **Approved Insulation**: 4" max. for attachment show w/out wood nailer
- **Approved Substrate**: 
- **CUSTOM SEAL Membrane**: 
- **1 1/2" Hot Air Weld**: 
- **CUSTOM SEAL Bar Anchor or CUSTOM SEAL 2" Seem Plates w/approved each 18" O.C. max.**

**System Tie-In**

**Detail # PVC-1.39**

- **Approved Substrate**: METAL BAR ANCHOR OR CUSTOM SEAL 2" DISC W/APPROVED FASTENER 12" O.C.
- **Approved Insulation**: 1 1/2" min. hot air weld
- **CUSTOM SEAL Membrane**: 
- **1 1/2" MIN. HOT AIR WELD**: 
- **NOTE**: DESIGN FOR USE ON BUILDING UP TO 50'-0" IN HEIGHT

**Threshold Termination**

**Detail # PVC-1.40**

- **Approved Insulation**: 4" max. for attachment show w/out wood nailer
- **Approved Substrate**: 
- **CUSTOM SEAL Membrane**: 
- **1 1/2" Hot Air Weld**: 
- **CUSTOM SEAL Bar Anchor or CUSTOM SEAL 2" Seam Plates w/approved each 18" O.C. max.**

**System Tie-In**

**Detail # PVC-1.39**

- **Approved Substrate**: METAL BAR ANCHOR OR CUSTOM SEAL 2" DISC W/APPROVED FASTENER 12" O.C.
- **Approved Insulation**: 1 1/2" min. hot air weld
- **CUSTOM SEAL Membrane**: 
- **1 1/2" MIN. HOT AIR WELD**: 
- **NOTE**: DESIGN FOR USE ON BUILDING UP TO 50'-0" IN HEIGHT

**Threshold Termination**

**Detail # PVC-1.40**

- **Approved Insulation**: 4" max. for attachment show w/out wood nailer
- **Approved Substrate**: 
- **CUSTOM SEAL Membrane**: 
- **1 1/2" Hot Air Weld**: 
- **CUSTOM SEAL Bar Anchor or CUSTOM SEAL 2" Seem Plates w/approved each 18" O.C. max.**
Custom Seal Two Way Breather Vent  
Detail # PVC-1.41  
(PVC) Systems  

Pre-Fab 12" Or Larger Stack Flashing  
Detail # PVC-1.42  
(PVC) Systems  

NOTE: 1. CUT MINIMUM OF 2 1/2" HOLE DOWN TO SUBSTRATE OR VAPOR BARRIER IF USED  
2. MINIMUM 1 VENT PER 1000 SQ. FT. OR LESS
Custom Seal Reinforced Outside Corner Flashing

The flashing is manufactured with one side of the corner base tab factory welded to the deck and vertical portions of the flashing and one side loose to be field welded. This configuration allows the reinforced flashing to be adaptive to a less than perfect corner angle.
1. Cut opening into gravel stop fascia and dam leaving 1" minimum tabs on the 3 sides of the fascia that will connect with scupper sleeve.

2. Fabricate sleeve to fit opening.

3. Set tabs of sleeve in a bead of approved sealant onto the gravel stop / fascia and bend fascia tabs into the front of the sleeve into another bead of approved sealant and pop rivet into place as shown. Fabrication and assembly are to comply with SMACNA recommendations.

4. Strip in gravel stop flange according to system specification with the deck sheet.

5. Flash sleeve with unsupported flashing.

6. Treat metal joints in accordance with detail R-14.09.

Refer to appropriate edge detail for metal edge requirements - the focus of this detail is the fabrication of a gravelstop scupper.
Typical Factory Pre-Fab Panel - Detail

Detail # PVC 1-49
(PVC) Systems

12'6" Tab System Or 24'6" Tab System

Detail # PVC 1-50
(PVC) Systems
Custom Seal Roofing - Installed Per Custom Seal Spec's.

Bead Board Filler Pre-Cut To Fit Width In Metal Roof Deck

1" (Min) Iso (4' X 8")
6 Screws & Plates Per Sheet