Perception Collection®
(Vertical Installation)
Installation Guide
## Perception Collection®
(Vertical Install.)
Installation Guide

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General Notes
The attached installation details are intended to be a design aid and do not depict all situations. Modifications are the responsibility of the designer/user and should take into account climate conditions such as wind and snow, governing code requirements, and the actual usage and maintenance of the structure.

Applications:
Perception Collection can be utilized as a wall panel installed in the vertical or horizontal orientation. It shall not be utilized for roof applications. Perception Collection can be used over solid substrates or over spaced supports. This installation guide depicts clip attached panels installed using flush mounted clips. Details for direct fastened panels or clip attached panels using standoff clips would be similar.

Flashings:
Where possible, flashings should be lapped away from prevailing winds. Certain flashings should be supported if it is likely that equipment (ladder, etc.) will be used against them. Check with AEP Span any time you intend to specify a prefinished flashing in a gauge or finish different than the Perception Collection. It is good practice to specify that all flashings be of the same material (gauge, color, finish) as the roof panels to ensure long-term durability. Field-painted flashings rarely equal the durability and colorfastness of factory baked-on paint systems. The enclosed details have minimized the use of exposed fasteners where possible. The edges of flashings have also been shown hemmed to strengthen and to minimize the exposure of cut edges.

Flashings design and fabrication is generally the responsibility of the contractor. For convenience, we have provided some typical flashing drawings on our website at http://www.aepsan.com/roof/prodDetailad08.html?id=35. Applicable Perception Collection flashing part numbers are referenced within this installation guide. Note that flashing shapes and dimensions may vary greatly based on project requirements. Installation details and flashings referenced within are for general design guidance only.

Condensation, Insulation, & Ventilation:
It is the designer's responsibility to determine the need and composition of condensation control materials including insulation and vapor retarders, as well as ventilation requirements. Metal wall products are susceptible to condensation and its control should be carefully considered.

Thermal Movement:
Both panels and flashings must allow for thermal movement (expansion and contraction) of the materials, especially where long lengths are used. Appropriate gaps or provisions must be provided to accommodate thermal movement.

Oil Canning:
Flat metal surfaces often display waviness commonly referred to as 'oil canning'. This can be caused by variations in raw material, processing variations, product handling, or variations in the installation substrate. Oil canning is a characteristic, not a defect, of panels manufactured from light-gauge metal. To reduce potential for oil canning, substrates should not deviate from a flat plane more than 1/4 inch in 20 feet, or 1/8 inch in 5 feet. Oil canning is not a cause for panel rejection. Additional technical information is available upon request.

References:
The Sheet Metal and Air Conditioning Contractors' National Association Inc. (SMACNA) manual is an excellent reference for sheet metal contractors. It's guidelines for underlayments, gutter and downspout size requirements, and expansion/contraction of metals and flashing joints should be followed.

Technical Assistance:
Contact your AEP Span Sales Representative for additional information.
PC10-12

PC20-12

PC30-12

PC40-12

PC50-12

Panel Interlock Options

Direct Fastened
("D" P/N Suffix)

Clip Attached
("C" P/N Suffix)

Material:
Steel: 22 & 24GA (20GA Non-Std.)
Available Lengths: 5'-20'

AEP Span
Perception Collection
Vertical Install.
Panel Details
PCV-01
PERCEPTION COLLECTION
VERTICAL INSTALL.

FLUSH CLIP
P/N: #WALLCLP

STANDOFF CLIP
P/N: #WALLCLP0.5

INSTALLED POSITION

REV, 6/18/16
CLPC–1P

TOP SIDE CLOSURE FOR ALL PANELS & BOTTOM SIDE CLOSURE FOR PC10–12

CORNER TEAROFF FOR PANEL HEM

CLPC–2P

BOTTOM SIDE CLOSURE FOR PC40–12 & PC50–12

CLPC–3P

BOTTOM SIDE CLOSURE FOR PC20–12 & PC30–12

TEAROFF PERFORATED PLUG SECTIONS TO FILL PANEL REVEALS AS REQUIRED

NOTE: APPLICATIONS UTILIZING STANDOFF CLIP ALSO REQUIRE UNIVERSAL CLOSURE STRIP (AEP #CML1x19.68 OR EQUIV.) TO SEAL OFF ADDITIONAL 1/2" PANEL-TO-SUBSTRATE GAP.
TOP SIDE CLOSURE INSTALLATION

TOP CLOSURE PLUG
SEALANT BEAD

BOTTOM SIDE CLOSURE INSTALLATION (FLUSH MOUNTED PANELS)

BOTTOM CLOSURE PLUG
1X1 UNIVERSAL CLOSURE STRIP (AEP #Clem1X19.68 or equiv.)

BOTTOM SIDE CLOSURE INSTALLATION (PANELS WITH STANDOFF CLIP)

NOTES:
- ALL CLOSURE PLUGS SECURED AND SEALED WITH POLYURETHANE SEALANT
- (X) — NOT BY AEP SPAN

OPTIONAL: 1"W x 1/8"THK FOAM TAPE (MAS.125PE) TO SECURE CLOSURE PLUGS AGAINST PANEL & SEALANT.

OPTIONAL FIELD FABRICATED CLOSURE COVER TRIM (X)
TRIM  DIM A  USAGE
DF026  1 1/4"  FLUSH MOUNT
DF027  1 3/4"  W/0.5" STANDOFF

SUBSTRATE
SPECIFIED UNDERLAYERMENT (X)
BUTYL FLASHING TAPE (MAS.025BF)
CLIP FASTENER
PANEL CLIP
INSIDE CLOSURE (SEALED & SECURED WITH SEALANT)
DRIP FLASHING

1/4" GAP

(X) – NOT BY AEP SPAN
STARTER CLEAT (JC096)
SUBSTRATE
SPECIFIED UNDERLAYMENT (X)
CLIP FASTENER
PANEL CLIP
CONTINUOUS BEAD OF NON-SKINNING BUTYL TAPE OR SEALANT
TRIM FASTENER W/SEALING WASHER OR RIVET AT 12" O.C. MAXIMUM
Z-METAL
OUTSIDE CORNER TRIM (OC111)

(X) – NOT BY AEP SPAN

OUTSIDE CORNER

PERCEPTION COLLECTION
VERTICAL INSTALL.

PCV-08

REV. 8/16/18
1 1/4"
1/2"
1/8"
JC096

1/2"
4"
1/2"
IC093

SUBSTRATE
SPECIFIED UNDERLAYMENT (X)
STARTER CLEAT (JC096)
INSIDE CORNER TRIM (IC093)

TRIM FASTENER W/SEALING WASHER OR RIVET AT 12" O.C. MAXIMUM
CONTINUOUS BEAD OF NON-SKINNING BUTYL TAPE OR SEALANT

(X) – NOT BY AEP SPAN
TRIM DIM.A USAGE
DF032 1 1/8" FLUSH MOUNT
DF033 1 5/8" W/0.5" STANDOFF

1/2" 135° (V) 1/2"
COVER TRIM

135° A
1/2"
OPEN HEM

SUBSTRATE
SPECIFIED UNDERLAYERMENT (X)
BUTYL FLASHING TAPE (MAS.025BF)

PANEL CLIP
CLIP FASTENER
INSIDE CLOSURE (SEALED & SECURED WITH SEALANT)
DRIP FLASHING

1/4" GAP

OPTIONAL FIELD FABRICATED CLOSURE COVER TRIM (X)
OUTSIDE CLOSURE (SEALED & SECURED WITH SEALANT)
CONTINUOUS BEAD OF NON-SKINNING BUTYL TAPE OR SEALANT
TRIM FASTENER W/SEALING WASHER OR RIVET AT 12" O.C. MAXIMUM
COVER TRIM (V)

(X) – NOT BY AEP SPAN
(V) – DIMENSIONS VARY BASED ON PROJECT CONDITIONS

PERCEPTION COLLECTION VERTICAL INSTALL.

SOFFIT (FRONT)

PCV-10
INSIDE CORNER TRIM (ICO93)

POINT OF FIXITY FASTENER;
2 PLACES MIN. AT TOP OF PANEL

SPECIFIED UNDERLAYMENT (X)

SUBSTRATE

TRIM FASTENER W/SEALING WASHER
OR RIVET AT 12" O.C. MAXIMUM

CONTINUOUS BEAD OF NON-
SKINNING BUTYL TAPE OR SEALANT

OUTSIDE CLOSURE (SEALED &
SECURED WITH SEALANT)

OPTIONAL FIELD FABRICATED
CLOSURE COVER TRIM (X)

CLIP FASTENER

PANEL CLIP

(X) – NOT BY AEP SPAN
**TRIM** | **DIM A** | **USAGE**
---|---|---
HT092 | 1 1/8" | FLUSH MOUNT
HT103 | 1 5/8" | W/0.5" STANDOFF

**Substrate**

**Specified Underlayment (X)**

**Butyl Flashing Tape (MAS.0256F)**

**Panel Clip**

**Clip Fastener**

**Inside Closure (Sealed & Secured with Sealant)**

**End Splice / Sill Flashing**

**Point of Fixity Fastener; 2 Places Min. at Top of Panel**

**Trim Fastener W/ Sealing Washer or Rivet at 12" O.C. Maximum**

**Outside Closure (Sealed & Secured with Sealant)**

**Optional Field Fabricated Closure Cover Trim (X)**

(X) – NOT BY AEP SPAN

**Perception Collection Vertical Install.**

**End Splice (W/Trim)**

PCV-12

REV. 6/15/17
WALL CLOSURE (WC217)

TRIM FASTENER W/SEALING WASHER OR RIVET AT 12” O.C. MAXIMUM

CONTINUOUS BEAD OF NON-SKINNING BUTYL TAPE OR SEALANT

OUTSIDE CLOSURE (SEALED & SECURED WITH SEALANT)

OPTIONAL FIELD FABRICATED CLOSURE COVER TRIM (X)

POINT OF FIXITY FASTENER; 2 PLACES MIN. AT TOP OF PANEL

_PANEL CLIP

_CLIP FASTENER

_SUBSTRATE

_SPECIFIED UNDERLAYERMENT (X)

(X) – NOT BY AEP SPAN
DRIP FLASHING
TRIM FASTENER W/SEALING WASHER, OR RIVET
SEALANT
OVERLAP UPPER/LOWER FLASHINGS
WALL PENETRATION

SEAL PERIMETER OF FLASHINGS AND ALL TRIM OVERLAPS WITH A CONTINUOUS BEAD OF NON-SKINNING BUTYL TAPE OR SEALANT
OPTIONAL FIELD FABRICATED CLOSURE COVER TRIM (X)
OUTSIDE CLOSURE (SEALED & SECURED WITH SEALANT)

(X) – NOT BY AEP SPAN

PERCEPTION COLLECTION
VERTICAL INSTALL.

WALL PENETRATION (3D)

PCV-17
- SPECIFIED UNDERLAYMENT (X)
- SUBSTRATE
- DRIP FLASHING (V)
- CONTINUOUS BEAD OF NON-SKINNING BUTYL TAPE OR SEALANT UNDER COVER PERIMETER
- SEAL PENETRATION PERIMETER WITH POLYURETHANE SEALANT
- WALL PENETRATION
- OVERLAPPED PENETRATION COVER

- PROVIDE SUFFICIENT CLEARANCE BETWEEN FLASHING & PENETRATION TO ACCOMODATE THERMAL MOVEMENT
- TRIM FASTENER W/SEALING WASHER OR RIVET
- OUTSIDE CLOSURE (SEALED & SECURED WITH SEALANT)
- OPTIONAL FIELD FABRICATED CLOSURE COVER TRIM (X)

(X) – NOT BY AEP SPAN
(V) – DIMENSIONS VARY BASED ON PROJECT CONDITIONS
MANUFACTURING FACILITY:

Anchorage, Alaska  
2441 Cinnabar Loop  
Anchorage, AK 99507  
Alaska Customer Service: 904-267-3004

Fontana, California  
10905 Beech Avenue  
Fontana, CA 92337

CORPORATE HEADQUARTERS:

ASC Profiles LLC  
2110 Enterprise Boulevard  
West Sacramento, CA 95691

CUSTOMER SERVICE:  
800-733-4955

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