Project Waterproofing Handbook

Working Set — Rev. 0

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Architectural Testing Inc.
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3.A.1 Exterior Head/Jamb
Lap window head flexible flashing over jamb flexible flashing. Set interior side of window flange in full bed of sealant.

3.A.2 Exterior Jamb/Sill
Lap window jamb flexible flashing over sill flashing. Set interior side of window flange in full bed of sealant.

3.A.3 Jamb/Sill Corner Piece Flashing
Install vinyl jamb/sill corner piece flashing into window rough opening. Lap jamb flexible flashing over corner piece.

3.A.4 Window Over Jamb/Sill Corner Piece Flashing
Install window over vinyl jamb/sill corner piece flashing.
The "Method B" installation guide is designed for integral flanged window applications, where the window is installed before the weather-resistive barrier is applied.

Fortifiber Building Systems Group® provides this Window Flashing Installation Guide to assist installers by demonstrating an efficient and effective method for exterior window flashing installation. Compliance with the building code and proper installation are critical in reducing potential water leakage points.

The following Fortifiber flashing products are acceptable for this method:

- Moistop® Flashing, 6, 9, 12, and 18 inch x 300' rolls
- Moistop neXT® Flashing, 6, 9, and 12 inch x 200' rolls
- Moistop® Sealant (Exceeds AAMA Standards)

For further assistance, please call our technical hotline at (800) 773-4777.

**SILL FLASHING**

- Rough opening for window
- Sill flashing length is RO width + (2x flashing width).
- Leave free at bottom edge

Cut the sill flashing (the width of the rough opening + 2x the width of the flashing). Mechanically attach the flashing along the bottom of the rough opening. Be sure not to fasten the lower edge of the flashing so that a weather-resistive barrier may be slipped up underneath the flashing in a weather-board fashion (1a).

**JAMMB FLASHING**

- Jamb flashing length is RO height + (2x flashing width, minus 1”).
- Jamb flashing hangs even with bottom of sill flashing on both sides.

Cut the jamb flashing (rough opening height, + 2x the width of the flashing, minus 1”). Align the flashing flush to the edge of the rough opening and even with the bottom of sill flashing. Attach the jamb flashing at rough opening (2a). As with the sill flashing, do not fasten the lower edge of the jamb flashing (2b). Repeat above steps for the remaining jamb.

CONTINUED...
INSTALLING SILL CORNERS 3.A.3.4

Using Fortifiber’s Moistop Corner Shield®

The lower corner of the sill is a vulnerable spot for water intrusion. That is why the Fortifiber Building Systems Group® developed a revolutionary new product called Moistop Corner Shield. Incorporating this corner protection with any of the existing flashing methods will provide extra insurance against water intrusion.

Compliance with the building code and proper installation are critical in reducing potential water leakage points. This is the responsibility of the Contractor. Fortifiber recommends the use of a well-integrated weather-resistant barrier with all of its flashing systems.

1

INSTALL SILL FLASHING

Sill flashing length is RO width + (2x flashing width).

Moistop PF or Moistop neXT

2

INSTALL CORNER SHIELDS

3/8" Bead of Sealant (Moistop Sealant)

Moistop Corner Shield

3

INSTALL SILL WRAP

Sill wrap is 9" FortiFlash folded

Note: Sill wrap must completely cover the rough opening sill (including Corner Shields)

3” min. downleg
To insure the proper adhesion, wipe the window flange, sill and jamb flashing with a clean rag before applying Moistop® Sealant (3a). Prior to installing the window, apply a continuous ½" bead of Moistop Sealant to the backside (interior) of the mounting flange near the outer edge (3b). The sealant may also be directly applied to perimeter of the rough opening as long as a continuous seal is assured (3c). Then install the window according to manufacturer’s instructions.

**Note:** The length of the head flashing is the width of the rough opening + 2x the width of the flashing plus 2".

To install the head flashing, apply a continuous ½" bead of Moistop Sealant on the top (head) mounting flange (4a). Embed the head flashing over the Moistop Sealant, press the head flashing until the sealant appears at the bottom edge. When using a self-adhesive flashing, sealant at the head flange is not necessary. Be sure to extend the flashing beyond each jamb flashing. Fasten in place.

Limitations: FortiFlash® is the only Fortifiber flashing product that can be installed horizontally or at a slope of less than 80°. Product should be covered as soon as possible. Inspect product to ensure it is free of any protrusions or damage which may compromise its moisture-resistant properties. Direct exposure of sealant to the adhesive side of FortiFlash can be detrimental if the amount of sealant exceeds what is specified above. Please follow these recommendations regarding location and amount of sealant to be used.

Fortifiber strongly recommends against the practice of using a “thick bead of sealant,” or “buttering the flanges” with sealant, because this amount of sealant is excessive and unnecessary.

Call 1-800-773-4777 for Technical Assistance
www.fortifiber.com

Fortifiber Building Systems Group®
Protecting Your World from the Elements®
NATIONAL SALES OFFICE Reno, NV
4.A.1 Head/Jamb
Lap sliding glass door head flexible flashing over jamb flexible flashing. Set interior side of window flange in full bed of sealant.

4.A.2 Jamb/Threshold — Concrete Slab
Install sliding glass door jamb flexible flashing over rough opening. Set jamb flange over jamb flexible flashing in a full bed of sealant.

4.A.3 Jamb/Threshold — Wood Decking
Install sliding glass door jamb flexible flashing over rough opening. Set jamb flange over jamb flexible flashing in a full bed of sealant. Lap jamb flexible flashing over balcony deck sheet metal “L” metal.
1.A.1.a Vertical to Deck
Install balcony guardrail post over a strip of self-adhered sheet flashing. Set guardrail post flange in a full bed of sealant.

1.A.1.b Vertical to Balcony Exterior Wall
Install balcony guardrail post over a strip of self-adhered sheet flashing. Set guardrail post flange in a full bed of sealant.

1.A.1.c Horizontal to Wall
Install balcony guardrail flanges over a strip of self-adhered sheet flashing. Set guardrail flange in a full bed of sealant.

1.A.1.d Exterior Edge
Install a strip of flexible sheet flashing at the balcony deck exterior edge.
BALCONY HANDRAIL POST-TO-DECK

DECK RAILING POST

EXTEND W.P. MEMBRANE UP RAILING POST.

3/8" MIN. SEALANT AND JOINT FILLER

CONCRETE TOPPING SLAB

SELF-ADH. FLASHING STRIP

SET LAG BOLTS IN SEALANT

SET RAILING POST FLANGE IN FULL BED OF SEALANT

SET FABRIC REINFORCEMENT W/ DETAIL MEMBRANE COAT 0/FLANGE

W.P. MEMBRANE

DECK SHEATHING

DRAINAGE BOARD
5.A.1 Plumbing
Install Quickflash® flashing over wall plumbing penetrations.

5.A.2 Electrical Boxes
Install Quickflash® flashing over wall electrical box penetrations.

5.A.3 Grouped Penetrations
Install Quickflash® flashing over grouped wall penetrations. Lap flashings to shed water and seal penetrations to the flashing with sealant.

5.A.4 Anchors
Fasten wall anchors over a strip of self-adhered sheet flashing. Remove release paper and press the remaining strip firmly against the weather resistive barrier.
Apply sealant to building paper term. @ Quickflash.
Apply sealant to building paper term. @ penetration.
Apply sealant to building paper term. @ Quickflash.
5.A.5 Storefront Sheet Metal Flashing —Head/Jamb
Apply self-adhered sheet membrane over sheet metal head and jamb flashing flanges. Apply sheet membrane such that laps shed water.

5.A.7 Storefront Sheet Metal Flashing —Head/Jamb
Apply self-adhered sheet membrane over sheet metal jamb and sill flashing flanges. Apply sheet membrane such that laps shed water.

5.A.8 Roof Corner to Wall
Apply a strip of self-adhered sheet membrane at roof edges to wall intersections.

5.A.9 Flashing Sequence to Weather Barrier
Flash Quickflash® flashing over weather resistive barrier such that laps shed water.
SELF-ADHERED SHEET FLASHING (S.A.F.)

"J" MOLD

SEAL CORNER

NOTE: FRAME NOT SHOWN FOR CLARITY

STORE FRONT WINDOW
HEAD/JAMB CORNER DETAIL

NTS
FLANGED WINDOW - OPTION 2
AAMA RECOMMENDATION
GRACE VYCOR® PLUS SELF-ADHERED FLASHING
1.B.1 Sheet Metal “L” Metal Field Laps
Set all sheet metal laps in a full bed of sealant extending the width of the lap.

1.B.2 Sheet Metal “L” Metal Inside Corners
Mechanically fasten and fully solder watertight the inside corners of the balcony deck sheet metal “L” metal.

1.B.3 Sheet Metal “L” Metal Outside Corners
Mechanically fasten and fully solder watertight the outside corners of the balcony deck sheet metal “L” metal.

1.B.4 Balcony Scuppers
Mechanically fasten and fully solder watertight scupper flanges to the deck sheet metal “L” metal.
SLIDING GLASS DOOR JAMB TO STUCCO

N.T.S.
1.B.5 Exterior Edge Metal
Install balcony deck edge sheet metal flashing. Ensure that the edge metal flashes over a strip of sheet flashing as shown in photo 1.A.1.d.

1.B.6 Exterior Edge Metal Corners
Mechanically fasten and fully solder watertight the deck edge sheet metal to the corner sheet edge metal. Ensure that the corner edge sheet metal is installed over a strip of self-adhered sheet flashing. Seal balcony guardrail flanges to edge sheet metal corner in a full bed of sealant.
2.A.1 Inside Corners
Install sheet metal flashing over stud framing such that flashing extends down to ground level. Ensure that the sheet metal is continuous around inside corners.

2.A.2 Door Jamb Corner
Bring sheet metal flashing around door jamb corners to extend across the full width of the jamb framing. Ensure that the sheet metal is continuous around jamb corners.

2.A.3 Scuppers
Install sheet metal scupper flashing over formed concrete scupper. Mechanically fasten and fully solder watertight scupper flanges.
NOTE:
Cement plaster not shown for clarity.

2 Layers
Building Paper

OSB

Deck Base
"L" Metal

Slab

Sheet Metal Corner Flashing

Weep Screed

1st Floor Patio
Exterior Deck Corner
Diagram showing details of a patio construction:

- **J-Mold Set in Sealant and Screw to Scupper or Spot Weld**
- **Patio Slab Slope to Drain**
- **3-Sided Sheet Metal Scupper**
- **Weep Screed**

**1st Floor Patio**
4.B.1 Finished Corner
Mechanically fasten and fully solder watertight door threshold flashing ends to the balcony deck sheet metal “L” metal.

4.B.2 Wooden Door Jambs
Notch wooden door jambs such that there is no interference with the threshold flashing back dams.

4.B.3 1st Floor Patio Vinyl Sliding Glass Door
Install sliding glass door over concrete floor. Set the door threshold in a full bed of sealant.
1.C.1.b
4.B.1

8 in. x 3 in. sheet metal
Deck perimeter flashed
Topically applied
deck coating

Substrate

Reinforcement detail

Mech. fastened and
fully soldered
water tight door Pan.

Note

1) Lap sheet metal
sections min. 3 in.
set into full bed
of sealant.

Ground floor deck flashing

N.T.S.
5.B.1 Balcony Scupper Flanges
Set scupper flanges in a bed of sealant over the scupper body. Install scupper assembly such that lower flange is flashed over a target patch of weather resistive barrier.

5.B.2 Exhaust Louver Flanges
Spot weld the louver flanges to the sheet metal louver backing.

5.B.3 Plumbing Flashing
Install collared flashing to wall plumbing penetrations.
Balcony Scupper

VAPES, extend past wall finish 2" min.

Scupper installed from balcony side

Install building paper target under outside scupper flange

No drip reqd. Shroud will include drip.

Cement plaster

2 layers building paper

J mold

Sealant

No drip—see shroud for drip.

1/2" hem drip edge

Sealant

J mold

2 layers building paper

Outside scupper flange set in bed of sealant

Built in drip

Example of shroud actual finish configuration TBD.
1.C.1.a.1 Field Laps
Apply a detail coat of the balcony deck waterproofing with reinforcement tape over all horizontal sheet metal “L” metal field laps.

1.C.1.a.2 Inside Corners
Apply a detail coat of the balcony deck waterproofing with reinforcement tape over all horizontal sheet metal “L” metal inside corners.

1.C.1.a.3 Outside Corners
Apply a detail coat of the balcony deck waterproofing with reinforcement tape over all horizontal sheet metal “L” metal outside corners.

1.C.1.a.4 Balcony Scuppers
Apply a detail coat of the balcony deck waterproofing with reinforcement tape over all horizontal sheet metal “L” metal and scupper laps.
SLIDING GLASS DOOR JAMB TO STUCCO

N.T.S.
1.C.1.b Balcony Door Threshold Pans
Apply a detail coat of the balcony deck waterproofing with reinforcement tape over horizontal door threshold sheet metal in contact with the balcony decking.

1.C.1.c Decking Substrate Field Joints
Apply a detail coat of the balcony deck waterproofing with reinforcement tape over all balcony decking field joints.

1.C.1.d Decking Knot Holes
Apply additional coats of balcony deck waterproofing over decking knot holes such that manufacturer’s minimum coating thickness is achieved.

1.C.2.d Balcony Deck Guardrail Post
Apply a detail coat of the balcony deck waterproofing with reinforcement tape over all guardrail post flanges in contact with the decking.

Photo Pending
DECK COATINGS:
COLD APPLIED MEMBRANE SYSTEMS
GENERAL DETAIL - Plywood Seams

NOTES:
1. Elastomeric sheeting embedded within membrane at all junctures

FLOOR TO FLOOR DETAIL 1" = 0' 3" #21
1.C.1.b
4.B.1

8 in. x 3 in. Sheet Metal Deck Perimeter Flashing Topically Applied Deck Coating

Substrate Reinforcement Detail

Mech. Fastened and Fully Soldered Water Tight Door Pan

Note

1. Lap Sheet Metal Sections Min. 3 in. Set Into Full Bed of Sealant.

Ground Floor Deck Flashing

N.T.S.
1.C.2.a Decking Substrate Field
Apply a uniform coating of balcony deck waterproofing. Ensure that the manufacturer’s minimum coating thickness is achieved.

1.C.2.b Inside Corners
Apply a uniform coating of balcony deck waterproofing over the sheet metal “L” metal including the full height of the vertical leg. Ensure that the manufacturer’s minimum coating thickness is achieved.

1.C.2.c Scuppers
Apply a uniform coating of balcony deck waterproofing over the sheet metal “L” metal and scupper flanges including the full height of the vertical leg. Ensure that the manufacturer’s minimum coating thickness is achieved.

1.C.2.d Balcony Deck Guardrail Post
Apply additional coats of balcony deck waterproofing over guardrail post flanges such that manufacturer’s minimum coating thickness is achieved.

Photo Pending
BALCONY HANDRAIL POST-TO-DECK
MECHANICALLY FASTEN & SOLDER WATER-TIGHT FLANGE, FLASH PER SK-37B.

2 LAYERS BUILDING PAPER (B.P.)

CEMENT PLASTER

SELF-ADHERED MEMBRANE (SAM)

THRU WALL SCUPPER

SET LAPPING FLANGE IN BED OF SEALANT (TYP.)

1/2" DRIP EDGE

14"

3" LAP

REINFORCEMENT, PER MANUFACTURERS RECOMMENDATIONS

SHEET METAL FLASHING

DECK COATING

UP L-METAL TO J-BEAD SEE B

THRU WALL SCUPPER FLASING, DECK N.T.S.

DECK COATING

A

B

L-METAL B.P.

J-BEAD DECK COATING
1. Elastomeric sheeting embedded within membrane at all junctures.
5.C.1.a Inside Corners
Install wall weather resistive barrier continuously around inside corners and to the next wall stud. Do not terminate weather resistive barrier at inside corners.

5.C.1.b Outside Corners
Install wall weather resistive barrier continuously around outside corners and to the next wall stud. Do not terminate weather resistive barrier at outside corners.

5.C.1.c Vinyl Flanged Windows/Doors
Install weather resistive barrier such that it overlaps the full flange width with no gaps.

5.C.1.d Flashed Penetrations
Install weather resistive barrier such that it overlaps the full flange width of wall penetration flashings and sheds water.
At vertical seams, apply a minimum 6" vertical overlap. When going around corners, make sure building paper is pulled tightly and properly fastened.

Any succeeding course should be placed horizontally over the lower course in a weather-board fashion with a minimum horizontal overlap of 2", (3" is recommended.)

When a layer of building paper first crosses the path of any window, it needs to be properly integrated with the window sill and jamb flashing for quality moisture management. To do this, tuck building paper under the sill and jamb flashing as shown above. The layers above this point can butt into the window jamb.

Windows, window flashings, and weather barriers must be properly integrated in order to form a comprehensive moisture control system. The windows shown in this guide follow the "High Performance Two-Step" method of window flashing.

Listed below are some of the common settings that you'll encounter when installing building paper.

**WHEN WEATHER-RESISTIVE BARRIER IS INSTALLED AFTER THE WINDOW:**
Use one of the following guides that apply.
- Method A (self adhesive)
- Method B (mechanically attached)
- High Performance Two-Step

**WHEN WEATHER-RESISTIVE BARRIER IS INSTALLED BEFORE THE WINDOW:**
Use the following guide
- Method A1 (self adhesive)

**WEATHER-RESISTIVE BARRIERS AND SPECIALTY WINDOWS**
Use one of the following guides that apply.
- Window and Door Flashing (Installing windows and doors with integral brick mold)
- Arched Window Flashing

Nationwide for Technical Assistance or visit our Web site at...

**Limitations:**
Product should be covered as soon as possible. Inspect product to ensure it is free of any protrusions or damage which may detract from the weather-resistive barrier integrity. Holes, tears or punctures should be sealed with Moistop® Sealant or Fortifiber Sheathing Tape. This product is not recommended for horizontal, roofing or below grade applications.
Provides this guide to assist installers by demonstrating an efficient and effective method for installing in common residential and light commercial settings. The back of this document has details regarding integrating with window flashing.

Compliance with the building code and proper installation are critical in reducing potential water leakage points. It is the responsibility of the architect, or builder to ensure that these standards are met.

There are six grades available:

- **60 minute**
  - 40" x 240 and 324 sq. ft. rolls
- **Two-Ply Super 60 minute**
  - 40" x 162 sq. ft. rolls
- **30 minute**
  - 40" x 324 and 500 sq. ft. rolls
- **Two-Ply 30 minute**
  - 40" x 162 sq. ft. rolls
- **40" x 324 and 500 sq. ft. rolls**
- **Two-Ply**
  - 40" x 162 and 250 sq. ft. rolls

**1 INSTALLING**

Install directly to studs or over an approved exterior sheathing. Starting at the bottom of one end of the wall, place the roll horizontally (overlapping the corner by a minimum of 6") and roll out the first course evenly, covering rough window and door openings. Attach the membrane so that it is tight and flat and then place enough fasteners to hold in place until the final wall cladding is installed. Fasten securely to the exterior wall with appropriate fasteners (Step 2).

**2 FASTENING**

The size of fasteners used and the spacing required is determined on the job site. Apply enough fasteners to hold in place until final cladding is applied.

A higher grade of galvanized fastener, or large headed galvanized nail may be required in certain settings or weather conditions. Apply enough fasteners to hold into place until final cladding is applied.

It is the responsibility of the architect, builder, or foreman to decide the type of exterior grade fastener that will best suit the job at hand. And how many of these fasteners are required.
5.C.1.f Horizontal to Vertical Transitions
Apply self-adhered sheet flashing at horizontal wall feature areas and lap with vertical weather resistive to shed water. Do not use fasteners to secure horizontal lath.

5.C.1.e Balcony Deck Outer Edge Metal
Install weather resistive barrier such that deck edge flexible sheet flashing in photo 1.A.1.d full overlaps below the deck outer edge metal.
5.C.2.a Balcony Scupper J-mold
Install J-mold around scupper. If applying self-adhered flashing over J-mold flange, then seal the gap between the scupper body and J-mold.

5.C.2.b Flashed Electrical Box
Seal weather resistive barrier to Quickflash® flanges with sealant on all sides but the bottom.

5.C.2.c Scaffold Tie Wires
Seal scaffold tie wires with sealant.

5.C.2.d Balcony Guardrail Flanges
Seal weather resistive barrier to balcony guardrail flanges with sealant on all sides but the bottom.
INSTALL & SEAL COVER ON FIXTURE BOX

SEAL LIGHT ON 3-SIDE (BOTTOM OPNG)

STONE

FIXTURE

INSTALL COVER PLATE W/WIRES SEALED AS EXITS BOX TO MAKE WATERtight

SEAL 3-SIDES ELECT. BOX TO STONE

NOTE:
SUBMIT RECOMMENDATIONS FOR SEALING COVER ON FIXTURE BOX.

CLUB HOUSE LITES
5.C.3.a Fasteners
Install lath fasteners with cardboard washers such that a continuous 1/4 in. space is achieved between the metal lath and weather resistive barrier.

5.C.3.b Vertical Corner Aids
Install metal lath corner aids at outside vertical wall corners.

5.C.3.c Horizontal Corner Aids
Install metal lath corner aids at outside horizontal wall corners. Use tie wire in lieu of fasteners to fasten the corner aids to the metal lath.

5.C.3.d Arches
Install expanded metal lath around wall arches.
5.C.3.e Misc. Transitions

Install metal lath around all wall transitions and use metal corner aids where appropriate. Ensure that a 1/4 in spacing is maintained around all wall transitions.
5.C.4.a.1 Inside Corners
Install cement plaster weep screeds at inside wall corners. Ensure that the weep screed flanges are continuous around inside corners and that the weather resistive barrier laps over the entire height of the weep screed flange.

5.C.4.a.2 Outside Corners
Install cement plaster weep screeds at outside wall corners. Ensure that the weep screed flanges are continuous around outside corners and that the weather resistive barrier laps over the entire height of the weep screed flange.

5.C.4.a.3 Vinyl Flanged Door Jamb Terminations
Bring cement plaster weep screed such that it terminates against the door jamb. Lap weather resistive barrier over weep screed flange.

5.C.4.a.4 Hollow Metal Door Jamb Terminations
Bring cement plaster weep screed such that wall flange terminates behind the hollow metal door jamb.
2 LAYERS BUILDING PAPER OVER WEEP SCREED

WEEP SCREED OVER JAMB FLASHING & NAILING FLANGE, BRING TO S.G.D. FRAME

WALL-TO-SLAB SHEET METAL

CONCRETE SLAB

NAILING FLANGE

SHEET METAL TAB TO COVER EXPOSED NAILING FLANGE, SET IN SEALANT.

1ST FLOOR PATIO

WEENP SCREED @ S.G.D.
1.B.1
1.B.2
1.C.1.a.2
4.A.3
5.C.4.a.2

SLIDING GLASS DOOR JAMB TO STUCCO

N.T.S.
5.C.4.a.5 Balcony Scupper Transitions
Install cement plaster J-molds around the balcony scuppers and integrate with the cement plaster weep screeds.

5.C.5 Control Joints
Install cement plaster control joints such that they do not terminate at horizontal surfaces.
MECHANICALLY FASTEN & SOLDER WATERTIGHT FLANGE, FLASH PER SK-37B.

2 LAYERS BUILDING PAPER (B.P.)

CEMENT PLASTER

THRU WALL SCUPPER

SET LAPPING FLANGE IN BED OF SEALANT (TYP.)

1/2" Drip Edge

1 1/4"

3" LAP

REINFORCEMENT PER MANUFACTURER'S RECOMMENDATIONS

SHEET METAL FLASHING

DECK COATING

UP L-METAL TO J-BEAD SEE 6

DECK COATING

THRU WALL SCUPPER

FLASHING, DECK M.T.S.
6.A Valleys
Install sheet metal valley flashing over roofing underlayment and valley centerline.

6.B Sheet Metal Flashing

6.C Vent Hood Penetration
Install sheet metal roof vent hood over roofing underlayment.

6.D Pipe Penetration
Install additional underlayment over pipe flashing metal flange and integrate into roof underlayment.
6.E Roof Underlayment

6.F Roof Eave
Install flexible flashing at roof eave. Counter-flash with edge sheet metal flashing. Install roof underlayment over edge sheet metal flashing flange.

6.G Roof Tiles
SHINGLES

NEW STUCCO WALLS

Title:

INSIDE CORNER
SECTION AT CRICKET
6.B

CEMENT PLASTER WALL
 Plywood
 Underlayment
 2-Piece FRY-REGLET
 Step Flashing
 Shingles
 Underlayment

FRY-REGLET
ONE-PIECE CORNER 'L' EDGE METAL

ONE PIECE FULLY SOLDERED AND MECHANIZED, FASTENED CORNER

LOW ROOF INSIDE CORNER
6.B

Step flashing positioned over shingle so that next course of shingles covers it completely.

Embed end shingle in asphalt plastic cement.

Nail flashing to roof.

Underlayment carried up onto sidewall 3" to 4".

Text:

STEP FLASHING
HEM EDGE 1/2""

PRE-FABRICATED
METAL FLASHING -
MECH. FASTEN AND
SOLDER ALL JOINTS
WATERTIGHT. SEE
DETAIL #13 (SIM.) FOR
INSTALLATION AND
FABRICATION NOTES.

LAP METAL FLASHING
OVER SHINGLES
AT BOTTOM

LAP SHINGLES OVER
METAL FLASHING AT SIDE AND
TOP. NAIL SHINGLES OUTSIDE OF
FLASHING ONLY. SET EDGE
SHINGLES IN FULL BED OF
PLASTIC ROOFING CEMENT

VENT HOOD PENETRATION
6.D

E) PIPE OR CONDUIT

UNDERLAYERMENT
1/2" PLYWOOD

ADDITIONAL UNDERLAYERMENT
SET OVER METAL PIPE
SLEEVE FLANGE AND
INTEGRATED INTO DECK
UNDERLAYERMENT SYSTEM

SHINGLES

METAL PIPE SLEEVE
NOTE:
MECHANICALLY FASTEN
AND SOLDER ALL JOINTS
WATERTIGHT

NAIL AT COVERED AREAS ONLY
DAB BOTTOM AND TOP NAIL
HEAD WITH SEALANT
BEFORE SHINGLING OVER.

Title:
Pipe Penetration
1/2" PLWD. SHEATHING PROVIDE SOLID BLK'G AT ALL LONG PLWD. JOINTS, TYPICAL.

1" x 1/16" SPACER AT 3'-0" O.C., SPACED ALTERNATELY WITH BRACKETS, TYP.

STARTER STRIP

CONT. CLEAT NAIL AT 6" O.C.

METAL Ogee GUTTER LOOSE-LOCKED TO CONTINUOUS CLEAT

1" x 1/8" BRACKET AT 3'-0" O.C., TYP.

6.F (SIM.)

ROOF EAVE / GUTTER