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Knowledge | Experience | Solutions

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ZIP System

Wall & Roof Sheathing
- Includes vapor permeable WRB
- When installed according to Huber’s guidelines, it qualifies as an ABAA Air Barrier Assembly
- Uses ZIP tape produced by 3M Co. as integral system component
ZIP System Tape

- Most obvious weakness of system
- Pressure activated acrylic adhesive
- Use a roller to adhere well
- Tongue and groove system ensures taped joints are correct size

Must Roll the Tape
Fastener Penetrations

- Recommended to be driven flush with the sheathing.
- Over-driven fasteners are generally acceptable (for WRB, not shear strength).
- Removed fasteners must be patched with ZIP System Tape.
Well Flashed Penetrations

- Install the ZIP tape from bottom to tape (shingle lap)
- Turn tape onto penetration ~1/2-inch (non-flanged penetrations)
Deficient Penetrations

- Not Shingle-lapped
- Not turned onto non-flanged penetration
- Missing ZIP tape
Terminations

- Zip tape
- Termination bar and sealant
- Liquid
Terminations

- Irregular Shapes causing difficult flashing?
  Solution: Use Liquid Flash

- 180 day UV exposure warranted

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1. **Optimal Viscosity**
   Flows easily to seal irregular shapes and surfaces.

2. **Quick Cure Time**
   Immediately weather resistant and tack free in as little as 20–40 minutes depending on conditions. Target thickness achieved when substrate is no longer visible.

3. **Weather and UV Resistant**
   Warranted for up to 180 days of extreme weather and UV exposure.

4. **Proper Adhesion to a Wide Range of Surfaces**
   Bonds to wood, concrete, masonry, architectural metals, glass, PVC, FRP, EPDM and most other building materials.
Terminations

- ZIP tape terminations at transition to membrane waterproofing system
Terminations

- Deficiencies seen in the field
Transitions

- Roof to wall (sidewall) transition

Correctly Stripped-in

No Strip-in Flashing
Transitions

- Zip to gypsum sheathing at breezeways

Not Stripped-in

Correctly Stripped-in
Building Wrap Experience?

Window Details

- Stucco Head
- Brick Sill
- Lap Siding Jamb
Door Details

- Brick Head
- Stucco Jamb

Building Wrap Experience?
Building Wrap Experience?

- Install bottom to top
- Ensure proper lengths, tolerances, and sealant application
- Install ZIP tape in a shingle-lap manner at the head and jambs (leave sill open)
Building Wrap Experience?

Saddle Flashing

- Careful Demo as Required
- 4-inch laps of sheet metal with dual continuous sealant lines
- Shingle lap ZIP tape to integrate with ZIP sheathing
Durability and Warranty

• Real-life Durability only proven to last less than a decade

• Reported by Huber to have lasted 75+ years in accelerated aging tests

• Covered by a 30-year system limited warranty
Balcony Horizontal Waterproofing
Demo & Investigation
Typical Balcony WP Section

- Transitions
- Terminations
- Penetrations
Tie-in at Wall

- Primer
- Roller
- Termination
- UV exposure

Siding/stucco to be held 1/2" above top of concrete. No nail penetrations lower than 6" above floor deck or 2" above top of concrete.

9" TW-60 applied over vertical edge of edgemetal.

TW-M1 (MASTIC) adjoinment along seal vertical membrane & horizontal membrane.
Membrane Termination

- Primer
- Roller
- Termination
- Mastic

Siding/stucco to be held 1/2" above top of concrete. No nail penetrations lower than 6" above floor deck or 2" above top of concrete.

9" TW-60 applied over vertical edge of edgemetal.

TW-M1 (Mastic) adjoining along seal between vertical membrane & horizontal membrane.
Use of a Roller
Membrane Termination

- Cove Bead
- Bridge Joint
- Termination
- UV exposure
Membrane Termination
Handrail Penetrations
Handrail Penetrations
Handrail Penetrations

ALL NEW W.P. MEMBRANE (FREE LINE) - EXTEND DOWN VERT. 1" MIN.

DRILL PILOT HOLES FOR HANDRAIL POST BOLTS. 4 HOLE W/ SEALANT.
Wood Post Tie-Ins
T-Bar Shims

- Thickness
- Extend down vertical
- Avoid “sticky to sticky”

APPROPRIATE, COMPATIBLE WEEP SYSTEM [discontinuous spacers (shown), system developed by a weatherproofing professional, as required for proper performance.

CONCRETE

EXTRUDED ALUMINUM BALCONY EDGING (T-BAR)
Cross-sectional shape varies. Drip edge on T-bar not used in Texas.

26 GAUGE GALVANIZED METAL DRIP-EDGE
Other appropriate, compatible, prefabricated drip-edge or a system developed by a design professional.
T-Bar Shims and End Dams
Preformed Metal Corners:

Step 1

- Geometry
- Dimension
- Fasteners
- Material
Preformed Metal Corners:

Step 2

- Two lines of sealant at all metal to metal laps
- Shingle-lap Zip tape
- Fasteners
Preformed Metal Corners:

Step 2

- Two lines of sealant at all metal to metal laps
- Shingle-lap Zip tape
- Fasteners
Preformed Metal Corners:

Step 3

- Two lines of sealant at all metal to metal laps
- Weather-lap wall membrane
- Fasteners
Preformed Metal Corners: 

Step 4

- Thickness
- Extend down vertical
- Avoid “sticky to sticky”
Preformed Metal Corners:

Step 5

• Notch mat at shims, corners

• Sealant beds at corners
Preformed Metal Corners:

Step 6

- Notch mat at shims, corners
- Sealant beds at corners
Repair and Remediation
This concludes The American Institute of Architects Continuing Education Course

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