Detailed Drawings
Single Ply

424 Continuous Endlap Detail

TPA-101 Roof Membrane Layout - Wall

TPA-102 Roof Membrane Layout - Coated Metal

TPA-103 Roof Perimeter Fastening Plan Detail
Detailed Drawings
Single Ply

TPA-104 End Lap Detail

TPA-105 T-Joint Detail

TPA-108 Roof Perimeter Flashing Detail

TPA-206 TremLock Fascia Edge Detail

NOTES:
WINDSTORM RESISTANCE DESIGN SHALL BE DETERMINED FROM FM LOSS PREVENTION DATA SHEET I-28

SOLID AREA INDICATES ROOF AREAS THAT REQUIRE PERIMETER SHEETS
WIDTH OF PERIMETER AREA IS 10% OF THE BUILDING'S NARROWEST
WIDTH OR 40% OF THE BUILDING EAVE HEIGHT, WHICHEVER IS LESS
PER FM LOSS PREVENTION DATA SHEET I-28
FOR EXAMPLE ABOVE: A = 0.4H2 OR 0.1W2  B = 0.4H1 OR 0.1W1
Detailed Drawings
Single Ply

TPA-207 TremLine Edge Detail with Extender

TPA-211 Gravel Stop WITH TPA Coated Metal

TPA-213 Gravel Stop - TPA Coated Metal - Isometric

TPA-220 Through Wall Scupper Detail
Detailed Drawings

Single Ply

TPA-221 Through Wall Scupper - Isometric

TPA-222 Gravel Stop - Scupper Detail

TPA-232 Gutter Detail

TPA-301 Parapet Wall Flashing Detail
Detailed Drawings

**Single Ply**

**TPA-303** Insulated Parapet Wall Flashing Detail

**TPA-304** High Parapet Wall Flashing Detail

**TPA-305** Parapet Wall Flashing Detail

**TPA-310** Wall Counterflashing Detail

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- **CONTINUOUS CLEAT FASTENED AT 16" O.C.**
- **COPING CAP**
- **GROMMETED FASTENER, FASTENED 24" O.C.**
- **PARAPET WALL**
- **INSULATION**
- **SHEET METAL LINER**
- **TPA MEMBRANE ADHERED IN TPA BONDING ADHESIVE**
- **TPA PLATES & SCREWS**
- **HEAT WELDED LAP**
- **TPA MEMBRANE PERIMETER SHEET**
- **ROOF DECK**
- **ROOF INSULATION**

- **SEE SPECIFIC WALL TERMINATION**
- **TPA FASTENERS 8" O.C.**
- **HEAT WELDED LAP**
- **TPA MEMBRANE ADHERED IN TPA BONDING ADHESIVE**
- **TPA PLATES & SCREWS**
- **HEAT WELDED LAP**
- **TPA MEMBRANE PERIMETER SHEET**
- **ROOF DECK**
- **ROOF INSULATION**

- **SEE SPECIFIC WALL TERMINATION**
- **TPA ALUM. BAR OR PLATES & SCREWS FASTENED 8" O.C.**
- **HEAT WELDED LAP**
- **TPA MEMBRANE**
- **TPA PLATES & SCREWS**
- **HEAT WELDED LAP**
- **TPA MEMBRANE PERIMETER SHEET**
- **ROOF DECK**
- **ROOF INSULATION**

**NOTES**

FLASHING MUST BE A MINIMUM OF 8" HIGH. DO NOT COVER OR BLOCK WEEP HOLES WITH FLASHING OR SEALANT.
Detailed Drawings

Single Ply

TPA-321 Door Threshold Flashing Detail

TPA-325 TremLock Surface Mounted Counterflashing

TPA-340 Base Flashing Butt Joint TPA Coated Metal

TPA-402 Expansion Joint at Curb Detail
Detailed Drawings

**Single Ply**

**TPA-403** Expansion Joint Wall Flashing Detail

- TPA WALL FLASHERING
- TPA MEMBRANE FLASHERING
- CLOSED CELL FOAM BACKER ROD
- HEAT WELDED LAP
- TREATED WOOD NAILER
- TPA MEMBRANE PERIMETER SHEET

**NOTE:**
WOOD NAILER SECURED TO THE DECK PER FACTORY MUTUAL LOSS PREVENTION DATA I-49

**TPA-501** Curb Flashing Detail Using Coated Metal

- CURB COUNTERFLASHING
- TPA COATED METAL
- 1" CANT OPTIONAL
- HEAT WELDED LAP
- TREATED WOOD NAILER
- FASTENERS 4" O.C. STAGGERED 1"
- TPA MEMBRANE

**TPA-502** Curb Flashing Detail

- METAL COUNTERFLASHING
- TF TAPE
- TERMINATION BAR FASTENED 6" O.C.
- TPA MEMBRANE
- TPA PLATES & SCREWS
- HEAT WELDED LAP
- TPA MEMBRANE

**NOTE:**
ALL FLASHINGS MUST BE A MINIMUM OF 8" HIGH.

**TPA-510** Drain Flashing Detail

- DRAIN
- DRAIN CLAMP RING
- TREMFAST WATERBLOCK SEALANT
- TPA MEMBRANE

**NOTE:**
A FIELD WELD MUST NOT PASS UNDER THE CLAMPING RING. MEMBRANE MUST EXTEND MINIMUM 1" BEYOND THE BOLT HOLES. THE CLAMPING RING BOLT MUST PENETRATE THE MEMBRANE.
Detailed Drawings

Single Ply

TPA-520 Prefabricated Vent Pipe Flashing Detail

NOTES:
DO NOT CUT PREFABRICATED BOOT, IT MUST BE PULLED OVER VENT PIPE.
PREFABRICATED BOOTS ARE AVAILABLE IN SMALL (1" TO 4" DIAMETER), AND LARGE SIZES (6" TO 8" DIAMETER)

TPA-522 High-Temperature Pipe Flashing Detail

NOTE:
TO BE USED WHEN TEMPERATURE OF STACK EXCEEDS 140F.

TPA-523 I-Beam Flashing Detail

TPA-525 Multiple Pipe Penetration Detail

8.4-13
Detailed Drawings

Single Ply

TPA-526 Pitch Pocket Flashing Detail

TPA-530 Exposed Sleeper Detail

TPA-531 Fixed Equipment Support Detail

TPA-540 Curb Flashing Using TPA Membrane
Detailed Drawings

Single Ply

TPA-601 Valley Flashing Detail

TPA-602 Ridge Flashing Detail

TPA-611 Membrane Termination at Slope Roof

TPA-621 Lightning Cable Support Strap Detail
**Detected Drawings**

**Single Ply**

- **TPA-622 Lightning Rod Base Detail**
  - TPA MEMBRANE
  - 24" X 24" TPA MEMBRANE
  - HEAT WELDED TO ROOF MEMBRANE
  - LIGHTNING ROD BASE ANCHORED TO PAVER
  - 16" X 16" CONCRETE PAVER

- **TPA-623 Wall Mounted Lightning Rod Detail**
  - TPA PLATES & SCREWS
  - SUPPORT PLATE FASTENED TO WALL
  - NEOPRENE GASKET
  - TPA MEMBRANE
  - TPA MEMBRANE PERIMETER SHEET
  - HEAT WELDED LAP
  - ROOF INSULATION

- **FB-104 End Lap Detail**
  - ROUND ALL CORNERS
  - TPA FLEECE BACKED MEMBRANE
  - HEAT WELDED LAPS
  - TPA MEMBRANE STRIP 8" WIDE
  - TPA BONDING ADHESIVE OR HOT ASPHALT

- **FB-206 TremLock Fascia Edge Detail**
  - TREMLock SCREW @ 1" O.C.
  - EXTRUDED COMPRESSION BAR: LAP 1" @ JOINT
  - SPlice PLATE
  - GALVANIZED CANT
  - TPA MEMBRANE ADHERED IN TPA BONDING ADHESIVE
  - HEAT WELD
  - TPA FB MEMBRANE

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Detailed Drawings

Single Ply

FB-220 Through Wall Scupper Detail

- TPA COATED METAL SCUPPER
- TPA FLEECE BACKED MEMBRANE
- TPA ADHESIVE
- HEAT WELDED LAPS
- BACKER ROD AIR SEAL ON ALL FOUR FLANGES
- TPA COATED METAL SCUPPER
- HEAT WELDED LAPS
- TREATED WOOD NAILER
- TPA FLEECE BACKED MEMBRANE
- TPA ADHESIVE OR HOT ASPHALT

ROOF INSULATION

ROOF DECK

FB-221 Through Wall Scupper - Isometric

- TPA COATED METAL SLEEVE
- FOLD DOTTED LINES
- CUT SOLID LINES
- TPA COATED METAL
- FASTENERS WITH NEOPRENE WASHERS
- INSIDE (METAL ONLY)
- TPA STRIP
- OUTSIDE (METAL ONLY)
- TPA FLEECE BACKED MEMBRANE SET IN TPA ADHESIVE: INSTALL OR RESET CORING AFTER INSTALLATION.
- TPA UNIVERSAL CORNERS
- TPA FLEECE BACKED MEMBRANE
- TPA COATED METAL
- TPA ADHESIVE OR HOT ASPHALT

NOTES:
SEE DETAIL FB-220

FB-222 Gravel Stop - Scupper

- USE FOIL TAPE AS BOND BREAKER
- TPA COATED METAL GRANULE STOP WITH HEMMED EDGE
- WOOD NAILER SECURED

SEE NOTE 1

4" MIN.

6" WIDE TPA STRIP WELDED OVER EXP. JOINT

CONTINUOUS HOOK STRIP ONE GAUGE THICKER THAN FASCIA METAL, FASTEN 15° 3/4" C.

NOTES:
MAX FACE DIMENSION SHOULD BE 5" TO PREVENT DISTORTION FROM "OIL CANNING." IF SURFACE DISTORTION IS ACCEPTABLE, FACE DIMENSION MAY BE INCREASED TO 6".

FOR FASCIA GREATER THAN 8" INSTALL IN TWO SECTIONS

SPACING AND FASTENING OF NAILERS SHALL CONFORM TO FACTORY LOSS PREVENTION DATA SHEET 145

FB-232 Roof Edge with Gutter

- TPA MEMBRANE STRIP
- TPA COATED METAL DRIP EDGE, MECHANICALLY ATTACH STAGGERED 3° C.
- HEAT WELD TPA MEMBRANE
- SHEET METAL GUTTER
- MECHANICALLY ATTACH 8° C.
- WOOD NAILER
- TPA FLEECE BACKED MEMBRANE
- TPA BONDING ADHESIVE OR HOT ASPHALT

ROOF DECK

ROOF INSULATION

GUTTER SPACER 30° C.
STAGGERED ALTERNATELY (1/4") WITH BRACKETS

GUTTER BRACKET 30° C.
Detailed Drawings

Single Ply

FB-301 Parapet Wall Flashing Detail

FB-303 Insulated Parapet Wall Flashing Detail

FB-304 High Parapet Wall Flashing Detail

FB-305 Parapet Wall Flashing Detail

NOTE:
SEE DETAIL FB-304 IF WALL HEIGHT EXCEEDS 36".
Detailed Drawings

Single Ply

FB-310 Wall Counterflashing Detail

FB-321 Door Threshold Flashing Detail

FB-325 TremLock Surface Mounted Counterflashing

FB-340 Base Flashing Butt Joint TPA Coated Metal
### Detailed Drawings

#### Single Ply

**FB-511** Drain Flashing Detail

**FB-520** Prefabricated Vent Pipe Flashing

**FB-521** Two-Piece Pipe Flashing Detail

**FB-522** High-Temperature Pipe Flashing Detail

### Notes:

**FB-511**
- **NOTES:**
  - This two piece design must be used when installing the TPA fleece backed membrane.
  - Membrane must extend minimum 1" beyond the bolt holes.
  - Field weld must not pass under the clamping ring.
  - The clamping ring bolt must penetrate the membrane.

**FB-520**
- **NOTES:**
  - Do not cut prefabricated boot. It must be pulled over vent pipe.
  - Prefabricated boots are available in small and large sizes, and must be used whenever possible to flash pipes 1" to 8" in diameter.

**FB-521**

**FB-522**
- **NOTE:**
  - This detail to be used when temperature of stack exceeds 140°F.
Detailed Drawings

Single Ply

FB-523 I-Beam Flashing Detail

FB-526 Pitch Pocket Flashing Detail

FB-530 Exposed Sleeper

FB-531 Fixed Equipment Support Detail
Detailed Drawings
Single Ply

FB-540 Curb Flashing Detail Using TPA Membrane

FB-601 Valley Flashing Detail

FB-602 Ridge Flashing Detail

FB-611 Membrane Termination at Sloped Roof

NOTE:
THIS DETAIL IS USED WHEN A COUNTERFLASHING IS PART OF THE CURB MOUNTED EQUIPMENT.

NOTE:
MEMBRANE FASTENER SPACING NOT TO EXCEED 12" O.C.

NOTE:
THIRD COURSE OF SHINGLES MUST OVERLAP FLASHING.
Detailed Drawings

Single Ply

FB-621 Lighting Cable Support Strap Detail

FB-622 Lightning Rod Base Detail

FB-623 Wall Mounted Lighting Rod Detail