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FOAM STOP AND FASCIA

HEIGHT VARIES DEPENDING ON FOAM THICKNESS

TOP COATING (PRO-TECH "EC-100")

SPRAYED POLYURETHANE FOAM (TECH GUARD)

FASTENERS 12" O.C.

CONTINUOUS CLEAT

NEW OR EXISTING ROOF DECK

PRIMER OR VAPOR RETARDER (IF REQUIRED)
FACE OF PARAPET

EXTEND FINISH COATING 2" MIN. ABOVE FOAM TERMINATION POINT

TOP COATING (PRO-TECH "LC-100")

POLYURETHANE FOAM (TECH GUARD)

NEW OR EXISTING ROOF DECK

PRIMER OR VAPOR RETARDER (IF REQUIRED)

1/2" MIN.
PLYWOOD

4" OVER LAP SLEEVE WITH TECH GUARD

CONTINUOUS SEALANT

RETURN SLEEVE 2" AT EDGES

METAL SLEEVE CONTINUOUS

12"X 6" SCUPPER

TOP COAT (PRO-TECH "EC-100")

1" LIP AT BOTTOM

EXISTING OR NEW ROOF DECK
3/4" MINIMUM TAPE WIDTH BOTH SIDES

ADHESIVE TAPE *

TOP COATING (PRO-TECH "LC-100")

SPRAYED POLYURETHANE FOAM (TECH GUARD)

NEW OR EXISTING ROOF DECK

* TAPE WIDTH MUST EXCEED FLUTE WIDTH BY 1 1/2"
1. INTERNAL GUTTER
2. CORRUGATED METAL ROOF PANELS
3. STRUCTURAL MEMBER
4. ROOF PANEL TRIMMED FLUSH AT GUTTER 'L' METAL INSTALLED WHEN
5. PRO-TECH COATING (EC-100)
6. INSTALL 'L' COUNTERFLASHING IF POLYURETHANE AND PROTECTIVE COATING CANNOT BE APPLIED UNDER SKYLIGHT FRAME

NOTE: CURB MAY BE METAL (OPTIONAL, VENTS)
1. SUBSTRATE
2. SPRAYED POLYURETHANE INSULATION (TECH GUARD)
3. COATING PRO TECH "EC-100"
4. UNISTRUT 0.06 SQUARE STEEL TUSING SPACER MECHANICALLY ATTACHED
5. ELECTRICAL BOX REMOVED FROM WALL AND MOUNTED ON SPACER
6. CONDUIT
1. FULL PLATFORM CONSTRUCTED FROM TREATED 2"X8" MATERIAL AND PLYWOOD TOP

2. 24 GA. GALVANIZED PLATFORM COVER WITH RAISED SUPPORT FLANGE, ALL JOINTS SOLDERED

3. INTERNAL DUCT RUNS THRU PLATFORM

** SWAMP COOLER IS SET WITH 4"X 4" REDWOOD RUNNERS ON TO SIDES OR INSTALL GALVANIZED LEGS FOR SUPPORT
1. WELDED STEEL BRACKETS IS MECHANICALLY ATTACHED TO CURB OR SUBSTRATE WITH BACKING.
2. EXISTING RAISED CURB OR ROOF DECK
3. NEW SITE SCREEN IS CONSTRUCTED ON NEW WOOD BEAM OR FRAMING MEMBER.
4. SPRAY APPLIED POLYURETHANE INSULATION (TECH GUARD) COVERS EXITING CURB AND SEALS STEEL BRACKET TO ROOF.
5. TECH GUARD COATING SYSTEM (PRO-TECH)
1. SUBSTRATE
2. MINIMUM 8"X 6" 1/8" STEEL PLATE MECHANICALLY ATTACHED TO SUBSTRATE WITH LAG BOLTS OR THRU DECK BOLTS
3. STRUCTURAL WOOD OR WOOD OR STEEL JACKING
4. MINIMUM 3/4" RISER PIPE WELDED TO PLATE
5. STANDARD PIPE CAP THREADED ONTO PIPE RISER
6. CHAIN LINK WELDED TO PIPE CAP
7. TURNBUCKLE TO PIPE RISER AND CABLE
8. SPRAYED POLYURETHANE INSULATION (TECH GUARD)
9. TECH GUARD COATING (PRO-TECH)
HOLD ROOF HATCH V.N. 18" FROM PARAPET WALL

1. ROOF HATCH PROVIDE PADLOCK (I.C.B.O.)
2. SPRAYED POLYURETHANE INSULATION (TECH GUARD)
3. TECH GUARD COATING
4. SEE STRUCTURAL DWGS. FOR ROOF OPENINGS
5. STL. SHIPS LADDER

ROOF HATCH (DWG 15)
1. NEW FASTENERS
2. NEW CAP
3. EXISTING PIPE
4. NEW 2X4 SUPPORT
5. NEW TRAF BLOCKING
6. TECH GUARD ROOF SYSTEM
1. YELLOW SPAGHETTI WALK PAD CUT TO FIT
2. SPRAYED POLYURETHANE INSULATION (TECH GUARD)
3. TECH GUARD COATING
4. ROOF DECK
1. SUBSTRATE
2. Rigid Board Insulation
3. Built-Up Roof Gravel Surfacings
4. Gravel Surface Removed Minimum 4 Inches Beyond Flange of Vent
5. DRY WAY MOISTURE RELIEF VENT "BALLARD TYPE"
6. Removed Insulation Board and Built-Up Roof Down to Substrate
7. Cement Vent to Box with Mastic Chemically Attach to Substrate
8. Sprayed Polyurethane Insulation (Tech Guard)
9. Tech Guard Coating System
1. TECH GUARD COATING SYSTEM
2. ANGLE METAL WITH DROOP EDGE (TYPICAL)
3. BIRD STOP (TYPICAL)
4. CONCRETE TILE (TYPICAL)
5. 30 LB. BASE SHEET (TYPICAL)
6. GRADE 5000 9/16" THICK 12" AVERAGE
7. FOAM INSULATION (TECH GUARD)
1. Substrate
2. Sprayed polyurethane insulation applied a maximum 8 inches up slope (Tech Guard)
3. Tech Guard coating system
4. Roll metal or M.B. felt slab under coated base felt
5. Base felt
6. Shingles or tile roofing
1. STRUCTURAL MEMBER
2. STANDING SEAM DECK
3. 1/2 INCH "STRUCT-1" PLYWOOD (4-PLY)
4. MECHANICAL FASTENERS
5. SPRAYED POLYURETHANE INSULATION (TECH GUARD)
6. TECH GUARD COATING SYSTEM
1. CONCRETE DOUBLE TEE
2. CONTINUOUS 6" WIDE SINGLE PLY STRIP 5,000 W/R.
   GRADE OR EQUAL
3. R=30, 4" MINIMUM POLYURETHANE FOAM (TECH GUARD)
4. TECH GUARD COATING SYSTEM

ROOF DECK (dwg. 23)
1. 4" SOLID CAP
2. C.M.U. WALL
3. TECH GUARD COATING SYSTEM
4. 8" CANT STRIP
5. POLYURETHANE FOAM ROOF (TECH GUARD)
6. METAL DECK OVER STEEL JOISTS
1. SUBSTRATE
2. SPRAYED POLYURETHANE INSULATION (TECH GUARD)
3. TECH GUARD COATING SYSTEM
4. TREATED WOOD NAILER MECHANICALLY ATTACHED TO TOP OF PARAPET
5. 22 GA. GALVANIZED CLEAT MECHANICALLY ATTACHED TO WOOD NAILER
6. 24 GA. GALVANIZED STANDING SEAM COPING
7. FASTENER WITH NEOPRENE / LEAD GASKET
1. SUBSTRATE
2. SPRAYED POLYURETHANE INSULATION (TECH GUARD)
3. TECH GUARD COATING SYSTEM
4. GALVANIZED STUCCO 'Z' FLASHING
5. UNDERLAYMENT
6. STUCCO
1. SUBSTRATE
2. VERTICAL WALL TO UPPER ROOF
3. SPRAYED POLYURETHANE INSULATION (TECH GUARD)
4. TECH GUARD COATING SYSTEM
5. COUNTERFLASHING
6. SHINGLES OR TILE ROOFING
7. ROOFING UNDERLAYER
8. COUNTERFLASHING
9. CUT-SLOPING ON "E" SLOPE TO SUBSTRATE MINIMUM 8 INCHES ABOVE ROOF
10. POLYURETHANE INSULATION AND PROTECTIVE COATING TO BE APPLIED (TAPED) AND COUNTERFLASHING INSTALLED UNDER EXISTING ROOF COVERING AND UNDERLAYER "BASIC FELT"
11. COTTING, EDGE METAL, OR COUNTERFLASHING METAL

proTech
PRODUCTS, INC.
3003 North 75th Street, Scottsdale, AZ 85251
402 East Grand Road, Tucson, AZ 85705

ES UL

DRAWN BY:  DATE:  APPROVED:

SCALE:  PROJECT NO:  DRAWING NO:
1. SHEET METAL PARAPET
2. CONTINUOUS SHEET MONOFRAC CLOSURE
3. CONTINUOUS TAPE ELED WOOD SHIM (E.G. BEVELED CEDAR SIDING)
4. HIGH-DOMED, CARPETED GASKETED FASTENERS (APPROX. 18[457mm] O.C. DEPENDING UPON WIND ZONE AND LOCAL CONDITIONS)
5. CONTINUOUS GEL
6. TECH GUARD COATING SYSTEM
7. SPRAYED POLYURETHANE FOAM (TECH GUARD)
8. ROOF DECK
1. BITUTHENE 5000 SHEET (SINGLE PLY)
2. REMOVE AND REPLACE EXISTING CAP FLASHINGS TO FACILITATE INSTALLATION OF SHEET GOODS, FOAM ROOFING ENCLOSURE OF EXISTING FLASHINGS AND ONTO BITUTHENE SHEETING (1 1/2" FOAM THICKNESS ON ROOF, 1" ON VERTICAL WALLS)
3. BAND ALL CAP JOINTS AND TERMINATIONS WITH POLYESTER TAPE AND ROOFING COATINGS 20 MILS MINIMUM.
4. EXISTING SINGLE PLY ROOF SYSTEM.
5. TECH GUARD FOAM ROOFING SYSTEM
1. PRIMER OR VAPOR RETARDER (IF REQ'D)
2. SPRAYED POLYURETHANE INSULATION (TECH GUARD)
3. TECH GUARD COATING SYSTEM
4. G.I. FLASHING NAILED TO FASCIA
5. NEW OR EXISTING ROOF DECK
6. FACADE OF BUILDING
NOTE: SPRAYED FOAM THICKNESSES AND TEXTURES MAY VARY. SEE SPECIFICATION FOR DETAILS.

1. TECH GUARD COATING SYSTEM
2. COATING TO EXTEND TO EAVE TERMINATION
3. FOAMED SEAMLESS INSULATION MEMBRANE

NOTE: SURFACE WILL TELEGRAPH RIB. DEGREE WILL VARY WITH THICKNESS OF FOAM AND CONFIGURATION OF RIB.
1. SUBSTRATE
2. FASCIA
3. 24 GA. GALVANIZED EDGE METAL ATTACHED 4 INCH ON CENTER
4. MINIMUM 22 GA. GALVANIZED GUTTER GRADED (OPTIONAL)
5. SPRAYED POLYURTHANE INSULATION (TECH GUARD)
6. TECH GUARD COATING SYSTEM
1. SUBSTRATE
2. FACIA
3. RAISED EDGE NAILER (DESIGN HEIGHT VARIES)
4. 24 GA GALVANIZED EDGE METAL ATTACHED 4 INCH CN CENTER
5. SPRAYED POLYURETHANE INSULATION (TECH GUARD)
6. TECH GUARD COATING SYSTEM
1. IN CLIMATES WHERE THE WINTER TEMPERATURE REMAINS BELOW FREEZING FOR EXTENDED PERIODS OF TIME, NICHE SUGGEST USING SPH AND INTERIOR DRAINS OR THROUGHOUT TO DRAIN THE ROOF.

2. THIS DETAIL SHOULD BE USED ONLY WHEN THE DECK IS SUPPORTED BY THE OUTSIDE WALL.

3. ATTACH NAiER TO WALL/DECK WITH SUITABLE FASTENERS.

4. FREQUENT NAILING OF SHEET METAL FLANGE IS NECESSARY TO MINIMIZE THERMAL MOVEMENT.

5. OUTER BRACKETS ARE RECOMMENDED TO BE AT LEAST ONE GAUGE HEAVIER THAN GUTTER STOCK.

6. DESIGN GUTTER EXPANSION JOINTS PLACED AT APPROPRIATE INTERVALS CONDENSED WITH TYPE OF METAL.

7. ELASTOMERIC SEALANT TO BE COMPATIBLE WITH COATINGS.
1. EXTEND PROTECTIVE COATING ON EXIST. ROOF
2. 5/8" PLYWOOD SCREW TO CURB
3. 20 GA. G.L. CURB COVER
4. MECHANICAL UNITE
5. TECH GUARD COATING SYSTEM
6. 2 X 12 BLOCKING
7. MECHANICAL CURB
8. NEW FOAM PATCH (TECH GUARD)
9. EXISTING PLYWOOD
10. SECURE CURB TO ROOF DECK
11. EXIST. FOAM ROOF
1. Mask existing foam to protect form overspray lap
2. Sprayed polyurethane insulation (Tech Guard)
3. Tech Guard Coating System
4. Old Substrate
5. Existing Foam Roofing System
6. Roof Deck
7. Taper 4" to 6"
8. Removed all wet or loose foam to substrate

Spray Foam Tie-In (Pwg. 40)

Drawn By: Date: Approved:

Scale: Project No: Drawing No:
1. Remove all coating 1' around cut-out. Mask existing foam 1'.
2. Protect from overspray. Lap new coatings onto old coating 1' in.
3. New sprayed polyurethane insulation (Tech Guard).
4. Tech Guard coating system.
5. Equipment curb by others.
6. Existing foam roofing system.
7. Roof deck.
8. Taper 4" to 6".
1. SUBSTRATE (METAL DECKING)
2. 4" CANT STRIP
3. 5/8" OXYSEM BOARD, IF REQUIRED FOR FIRE RATING
4. SPRAYED POLYURETHANE FOAM (TECH GUARD) WITH TECH GUARD TOP COAT
5. 4" WIDE STRIP OF POLYESTER TAPE PRIMED AND COATED WITH 20 MILS OF WATERPROOFING COATING. TERMINATE 6" INTO FOAM ROOF SYSTEM. HOLD BACK 1" FROM EXTERIOR FACE OF PARAPET.
6. CONTROL JOINT
1. SUBSTRATE
2. DECK SUPPORTED VENT STACK (PIPEVEX BEFORE APPLYING SIP)
3. TECH GUARD COATING SYSTEM
4. SPRAYED FOAM INSULATION (TECH GUARD)

NOTE:
VENT STACKS AND OTHER PIPES SHOULD HAVE A MINIMUM OF 12 INCHES (305mm) OF CLEARANCE ON ALL SIDES FROM WALLS, CURB, AND OTHER PROJECTIONS TO FACILITATE PROPER FLASHING.
1. SUBSTRATE
2. SOL. Primer (Prime before applying SPC)
3. 34 GA. GALVANIZED STANDARD G. FLASHING
4. SPRAYED POLYURETHANE INSULATION (Tech Guard)
5. TECH GUARD COATING SYSTEM
6. TECH GUARD COATING TO EXTEND A MINIMUM 2 INCHES BEYOND INSULATION TERMINATION

PIPE PENETRATION (dwg. 44)

3003 North 75th Street, Scottsdale, AZ 85251
402 East Grand Road, Tucson, AZ 85705
1. SUBSTRATE
2. HOT PIPE
3. 20 GA. GALVANIZED FLASHING MINIMUM 1 INCH AIR SPACE AT HOT STACK
4. 24 GA. GALVANIZED STORM COLLAR
5. SPRAYED POLYURETHANE INSULATION (TECHGUARD)
6. TECHGUARD COATING SYSTEM
7. SILICONE SEALANT SEAL

HOT STACK/STORM COLLAR (dwg. 45)
1. OVERFLOW OPENING IN SCUPPER RECEIVER BOX (TYPICAL)
2. DOWNSPOUT STRAPS (TYPICAL)
3. WALL (TYPICAL)
4. SUBSTRATE
5. MINIMUM 1/2"-1/4" TURNED-DOWN SCUPPER BOX INTO RECEIVER SEAL AROUND LINER TO RECEIVER BOX WITH URETHANE CALKINGS
6. SPRAYED POLYURETHANE INSULATION (TECH GUARD)
7. TECH GUARD COATING SYSTEM
8. SCUPPER BOX CONTINUOUS THROUGH WALL WITH MINIMUM 4" DECK AND WALL FLANGE (TYPICAL)
1. BEND TABS AFTER INSTALLATION & SCUPPER TO LEADER CAN
2. 22 GA. C.L. SCUPPER APPLIED DIRECTLY TO ROOF DECK
3. PROVIDE 5 INCH x 15 INCH OVERFLOW WITH 2 INCH PROJECTION TO
   OUTSIDE BOTTOM EDGE OF OVERFLOW TO BE 2 INCHES ABOVE ROOF LINE
1. SUBSTRATE
2. 24 GA. GALVANIZED SCUPPER ALL JOINTS SOLDERED
3. SPRAYED POLYURETHANE INSULATION (TECH GUARD)
4. TECH GUARD CORING SYSTEM
5. EXTERIOR COVERPLATE (OPTIONAL)
6. ELASTOMERIC CAULKING
1. SUBSTRATE
2. 24 GA. GALVANIZED SCUPPER ALL JOINTS SOLDERED
3. SPRAYED POLYURETHANE INSULATION (TECH GUARD) W/TECH GUARD COATING SYSTEM
4. CAULKBEAD FULL PERIMETER
5. 1/2" DRYMEESE
6. LIQUID MASTIC FULL PERIMETER

SCUPPER (dwg. 50)
1. SUBSTRATE
2. ALTERNATE CURB BEARING LOCATION FOR HEAVY WEIGHT LOADING CONDITIONS
3. TECH GUARD COATING SYSTEM
4. SPRAYED POLYURETHANE INSULATION (TECH GUARD)
5. OPTIONAL WOOD NAILER
6. SEALING MATERIAL
7. OPTIONAL SHEET METAL RECEIVER AND REMOVABLE COUNTERFLASHING

* THE CURB, WOOD NAILER, AND SEAL STRIP ARE TO BE SUPPLIED BY THE CURB MANUFACTURER.
* ATTACH NAILER TO DECK WITH SUITABLE FASTENERS.
* WHEN POSSIBLE, THE MECHANICAL UNITS SHOULD NOT BE SET UNTIL THE ROOF SYSTEM HAS BEEN INSTALLED.
1. SPRAYED POLYURETHANE INSULATION (TECH GUARD) W/TECH GUARD COATING SYSTEM
2. PREFABRICATED METAL CURB
3. OPTIONAL: WOOD NAILER
4. OPTIONAL: SHEET METAL RECEIVER AND REMOVABLE COUNTERFLASHING
5. SEALING MATERIAL - MUST BE CONTINUOUS FULL PERIMETER
6. 1" (25mm) MINIMUM BELOW TOP OF CURB
7. BASE OF UNIT EXTENDS 1/2" (13mm) MINIMUM BEYOND TOP OF CURB
8. MECHANICAL UNIT, HOOQ, ETC.

* THE CURB, WOOD NAILER, AND SEAL STRIP ARE TO BE SUPPLIED BY THE CURB MANUFACTURER.
* ATTACH NAILER TO DECK WITH SUITABLE FASTENERS.
* WHEN POSSIBLE, THE MECHANICAL UNITS SHOULD NOT BE SET UNTIL THE ROOF SYSTEM HAS BEEN INSTALLED.
1. SUBSTRATE
2. FULL PLATFORM MIN. 2 x 8 CONSTRUCTION
3. ANGLE BRACKET-PLATFORM TO ROOF
4. SPRAYED POLYURETHANE INSULATION (TECH GUARD)
5. TECH GUARD COATING SYSTEM
6. MINIMUM 1/2" PLYWOOD PLATFORM TOP
7. HENRY RUPTAC OR SINGLE PLY MEMBRANE
8. 24 GA. GALVANIZED SEAMLESS OR STANDING SEAM PLATFORM COVER
1. Substrate
2. Full platform w/n. 2 x 8 construction
3. Existing roof
4. Sprayed polycarbonate insulation (Tech Guard)
5. Tech Guard coating system
6. Minimum 3/4" plywood platform top
7. Metal pan flashing fastened with sheet metal screws and neoprene washers
1. SUBSTRATE
2. TECH GUARD COATING SYSTEM
3. SPRAYED POLYURETHANE INSULATION (TECH GUARD)
1. SUBSTRATE
2. SPRAYED POLYURETHANE INSULATION (TECH GUARD)
3. TECH GUARD COATING, UP AND OVER NEOPRENE
4. MINIMUM 2’ X 10” CURB
5. ANGLE BRACKET SECURES CURB TO SUBSTRATE WITH MECHANICAL FASTENERS/SHANKED FASTENERS
6. 60 ML NEOPRENE

BUILDING FOAM ROOF JOINT (dwg. 56)
1. SUBSTRATE
2. SPRAYED POLYURETHANE INSULATION (TECH GUARD)
3. TECH GUARD COATING SYSTEM
4. POLYESTER FABRIC
5. JOINTS
6. 3" BACKER ROD W/1" BACKER ROD EACH SIDE
1. SUBSTRATE
2. SPRAYED POLYURETHANE INSULATION (TECH GUARD)
3. TECH GUARD COATING SYSTEM
4. MINIMUM 2" X 10" CURB
5. ANGLE BRACKET SECURES CURB TO SUBSTRATE WITH MECHANICAL FASTENERS
6. RUBBER EXPANSION JOINT COVER EXPAND-O-FLASH (MANVILLE OR EQUAL)
1. SUBSTRATE
2. DOUBLE DOME CURB MOUNT SKYLIGHT ASSEMBLY
3. INTERIOR DRYWALL
4. SPRAYED POLYURETHANE INSULATION (TECH GUARD)
5. TECH GUARD COATING SYSTEM
6. ETHINYL 5000 SELF ADHERING WATERPROOF 60 MIL SHEETING OVER WOOD CURB SIDES AND TOP

SYKLIGHT CURB (cwg. 59)

PROTECH PRODUCTS, INC.
1. SUBSTRATE
2. SKYLIGHT LENS AND FRAME ASSEMBLY ATTACHED TO CURB
3. 2 x 12 WD CURB
4. SPRAYED POLYURETHANE INSULATION (TECH GUARD)
5. TECH GUARD COATING SYSTEM
6. ST/LS PERIMETER ANGLE PEN STRUCTURAL
7. 4" CANT STRIP
1. SUBSTRATE
2. SKYLIGHT CURB 2"x8" OR MIN. 6" ABOVE FINISHED ROOF
3. INTERIOR DRYWALL
4. SPRAYED POLYURETHANE INSULATION (TECH GUARD)
5. TECH GUARD COATING SYSTEM
6. INSTALL "Z" COUNTERFLASHING IF POLYURETHANE AND PROTECTIVE COATING
   CANNOT BE APPLIED UNDER SKYLIGHT FRAME
NOTE: CURB MAY BE METAL (OPTIONAL VENTS)
1. SUBSTRATE
2. EXISTING SMOOTH SUBSTRATE
3. TECH GUARD BASE COAT
4. TECH GUARD SEAMLESS INSULATING MEMBRANE
5. TWO COMPONENT URETHANE PITCH POCKET FILLER
6. TECH GUARD TOP COAT
7. SMOOTH MEMBRANE
8. EXISTING INSULATION
9. MINIMUM 1/2" FOAM TERMINATION MASK SUBSTRATE TO AVOID OUTSPRAY COATING SHIELD EXTENDED 4" MINIMUM PAST FOAM.

NOTE: EXERCISE COMMON ROOFING PRACTICE TO PREVENT PONDED WATER BY INSTALLING TAPERED INSULATION OR CRICKETS TO CREATE POSITIVE DRAINAGE.
1. SUBSTRATE (B-DECKING)
2. RIGID BOARD INSULATION
3. BUILT-UP ROOF (GRAVEL SURFACED)
4. GRAVEL SURFACE REMOVED MINIMUM 12 INCHES
5. REMOVED INSULATION BOARD AND BUILT-UP ROOF MINIMUM 12 INCHES WIDE
6. SPRAYED POLYURETHANE INSULATION (TECH GUARD)
7. ELASTOMERIC COATING SYSTEM (TECH GUARD SURFACE)