A 300 BUR Construction Detail

A3.1 Pitch Pan Detail
A3.2 Hi Temp Pipe Detail
A3.3 Class B Vent Detail
A3.4 Vent Stack Detail
A3.5 Roof Drain Detail
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A3.7 Multiple Fascia Detail
A3.8 Coping Detail
A3.9 Butt End @ Coping Detail
A3.10 Reglet & 2 PC. Counter flashing Detail
A3.11 Surface Mount Counter flashing Detail
A3.12 Expansion Joint Detail
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A3.14 Roof Curb Detail
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A3.18 Equipment Support w/Pipe Chase Detail
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A3.20 Louver Flashing Min. Height Detail
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A3.23 Wood Build Pipe Support Detail
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A3.26 Adjustable Duct Support Detail
A3.27 Equipment Support Detail

Click For DFD Master Specifications

http://www.doa.state.wi.us/dsf/masterspec_view_new.asp?catid=37&locid=4
Pressure Treated Plywood and Lumber: These products shall not be specified or provided for use in roofing projects as a substrate material.

SEE SECTION 07 51 13 FOR INSTALLATION INSTRUCTIONS
HIGH TEMP SEALANT
STAINLESS STEEL DRAW BAND

GALV. SLEEVE WITH FLANGE

GALV. STACK FLASHING WITH 4" FLANGE
(PRIME BOTH SIDES AND FASTEN IN A BED OF
PLASTIC ROCK CEMENT ON 4 PLY MEMBRANE)

PLASTIC CEMENT AT EDGES OF STRIPPING FELTS

MANY PLY STRIPPING FELTS

4 PLY MEMBRANE

WOOD BLOCKING TO MATCH
INSULATION HEIGHT (ANCHORED TO DECK)

INSULATION AS SPECIFIED

MECHANICAL FASTENER
AND/OR ADHESIVE

HIGH TEMP. PIPE DETAIL
NO SCALE

SEE SECTION 07 51 13
FOR INSTALLATION INSTRUCTIONS

Pressure Treated Plywood and Lumber: These products shall not be
specified or provided for use in roofing projects as a substrate material.
1 PART POLYURETHANE SEALANT
STAINLESS STEEL DRAW BAND
GALV. RAIN COLLAR
GALV. STACK FLASHING WITH 4" FLANGE
(PRIME BOTH SIDES AND FASTEN IN A BED OF PLASTIC ROOF CEMENT ON A PLY MEMBRANE)
PLASTIC CEMENT AT EDGES OF STRIPPING FELTS
MULTIPLE PLY STRIPPING FELTS

8" MIN

4 PLY MEMBRANE
WOOD BLOCKING TO MATCH INSULATION HEIGHT
(ANCHORED TO DECK)
INSULATION AS SPECIFIED
MECHANICAL FASTENER
AND/OR ADHESIVE

CLASS B VENT PIPE DETAIL
NO SCALE:

SEE SECTION 07 51 13
FOR INSTALLATION INSTRUCTIONS

Pressure Treated Plywood and Lumber: These products shall not be specified or provided for use in roofing projects as a substrate material.
NOTE:
1. CONTRACTOR TO RAISE EXISTING VENT STACK IF NEEDED TO REACH A 10" MIN. HEIGHT
2. MINIMUM PIPE EXTENSION SHALL BE 4"

ROLL LEAD FLASHING 1" DOWN INTO PIPE
PLASTIC ROOF CEMENT AT EDGES OF STRIPPING PILES
LEAD FLASHING (PRIME BOTH SIDES AND SET IN BED OF PLASTIC ROOF CEMENT ON 4 PLY MEMBRANE)
MULTIPLE PLY STRIPPING FEITs
4 PLY MEMBRANE
INSULATION AS SPECIFIED
MECHANICAL FASTENER AND/OR ADHESIVE

INSTALL WATER STOP SEALANT BETWEEN EXISTING PIPE AND NEW PIPE AT JOINT
PEEL AND STICK EPDM. BUTYL TAPE COVER STRIP

VENT STACK DETAIL
A3.4
NO SCALE:
SEE SECTION 07 51 13
FOR INSTALLATION INSTRUCTIONS
NOTE:
1. CONTRACTOR MAY HAVE TO CUT OUT EXISTING
   DRAIN SUMP TO ALLOW FOR INSTALLATION OF NEW
   INSULATION AND DRAIN SUMP

MIN DRAIN SUMP 48"x48"

DRAIN STRAINER
REPLACE IF BROKEN
OR MISSING WITH NEW
CAST IRON STRAINER

4 PLY MEMBRANE
RUN UNDER CLAMPING RING

INSULATION AS
SPECIFIED

TAPERED INSULATION
TO MATCH EXISTING
DRAIN BOWL HEIGHT
\( \frac{1}{2} \)" PER FT MAX SLOPE

2 PLY MEMBRANE
BELOW LEAD

CLAMPING RING
REPLACE IF BROKEN OR MISSING

30" SQUARE MINIMUM, 4# LEAD SHEET
PRIMED AND SET IN BED OF ROOF CEMENT ON 2
PILES OF MEMBRANE

SEE SECTION 07 51 13
FOR INSTALLATION INSTRUCTIONS
NOTE:
1: AT PERIMETER EDGE CONTRACTOR MUST MAINTAIN AT LEAST A 3" MIN. HEIGHT AT LOWEST LOCATION
2: RUN METAL FASCIA DOWN CANT WITHIN ½" FROM ROOF LINE TO PROTECT MEMBRANE FLASHINGS

Pressure Treated Plywood and Lumber. These products shall not be specified or provided for use in roofing projects as a substrate material.
NOTE:
1. AT PERIMETER EDGE CONTRACTOR MUST MAINTAIN AT LEAST A 3" MIN. HEIGHT AT LOWEST LOCATION
2. RUN METAL FASCIA DOWN CANT WITHIN 1/2" FROM ROOF LINE TO PROTECT MEMBRANE FLASHINGS

METAL FLOATING FASCIA WITH CONTINUOUS CLEAT (RUN DOWN CANT TO WITHIN 1/2 OF ROOF LINE TO PROTECT BUILT UP FLASHINGS)
WOOD BLOCKING AS REQUIRED
FLEXIBLE FLASHING (.045 EPDM)
2 PLY MEMBRANE (RUN 1ST PLY OVER AND DOWN FACE OF WOOD BLOCKING)
BASE FLASHING FASTEN TOP EDGE 8" O/C
TAPERED WEDGE STRIP AS REQUIRED
4 PLY MEMBRANE
INSULATION AS SPECIFIED
MECHANICAL FASTENER AND/OR ADHESIVE

Pressure Treated Plywood and Lumber: These products shall not be specified or provided for use in roofing projects as a substrate material.

SEE SECTION 07 51 13 FOR INSTALLATION INSTRUCTIONS

MULTIPLE FASCIA DETAIL
A 3.7
NO SCALE
NOTE:
1: RUN METAL COPING DOWN INSIDE FACE
   WITHIN 1/2" FROM ROOF LINE TO PROTECT MEMBRANE FLASHINGS
2: IF OVER 8" ADD STIFFENING RIB COUNTER FLASHING

Pressure Treated Plywood and Lumber: These products shall not be specified or provided for use in roofing projects as a substrate material.
NEW 1 PART POLYURETHANE SEALANT
NEW OR EXISTING REGLET, INSTALL METAL RECEIVER AND COUNTER FLASHING

BEND BUTT ENDS UP WALL 4" @ 90° SEAL TOP EDGE WITH POLYURETHANE SEALANT.

METAL COPING W/CONTINUOUS CLEAT

FLEXIBLE FLASHING (MIN .045 EPDM)

NOTE:
1. RUN METAL COPING DOWN INSIDE FACE WITHIN 1/2" FROM ROOF LINE TO PROTECT MEMBRANE FLASHINGS
2. IF OVER 8" ADD STIFFENING RIB COUNTER FLASHING

MECHANICAL FASTENER AND/OR ADHESIVE

1-1/2"

MORTAR BED JOINT

FASTEN IN HEAD OR BEAD OF MORTAR JOINT

1-1/2"

SEE SECTION 07 51 13 FOR INSTALLATION INSTRUCTIONS

Pressure Treated Plywood and Lumber: These products shall not be specified or provided for use in roofing projects as a substrate material.
NOTE:
1. CONTRACTOR MAY HAVE TO CUT NEW REGLET AS REQUIRED TO ACHIEVE A 8" MIN. FLASHING HEIGHT
2. RUN METAL COUNTER FLASHING DOWN INSIDE FACE WITHIN 1/2" FROM ROOF LINE TO PROTECT MEMBRANE FLASHINGS
3. IF OVER 8" ADD STIFFENING RIB TO COUNTER FLASHING

URETHANE ROD
1 PART POLYURETHANE SEALANT
FASTEN IN HEAD OR BEAD OF MORTAR JOINT

NEW OR EXISTING REGLET,
1 PART POLYURETHANE SEALANT
METAL RECEIVER AND COUNTERFLASHING (RUN DOWN CANT TO WITHIN 5" OF ROOF LINE TO PROTECT BUILT UP FLASHINGS)
3 COURSE OVER TOP OF FLASHING
BASE FLASHING - FASTEN TOP EDGE 8" O/C
2 PLY MEMBRANE
FIBER CANT
4 PLY MEMBRANE

INSULATION AS SPECIFIED
MECHANICAL FASTENER AND/OR ADHESIVE

BASE & METAL FLASHING HEIGHT MAY VARY FOR RE-ROOF TERMINATIONS

8"-12" MAX
8" MIN.

SEE SECTION 07 51 13 FOR INSTALLATION INSTRUCTIONS

1 A3.10 NO SCALE

TYPICAL DFD STANDARD
BUR CONSTRUCTION DETAIL

State of Wisconsin
Department of Administration
Division of Facilities Development
NOTE:
1. RUN METAL COUNTER FLASHING DOWN INSIDE FACE
   WITHIN 1/2" FROM ROOF LINE TO PROTECT MEMBRANE FLASHINGS
2. IF OVER 8" ADD STIFFENING RIB TO COUNTER FLASHING

SEE SECTION 07 51 13
FOR INSTALLATION INSTRUCTIONS
NOTE:
1: RUN METAL COUNTER FLASHING DOWN INSIDE FACE
   WITHIN ½" FROM ROOF LINE TO PROTECT MEMBRANE FLASHINGS
2: IF OVER 8" ADD STIFFENING RIB TO COUNTER FLASHING

EXPANSION JOINT DETAIL

SEE SECTION 07 51 13
FOR INSTALLATION INSTRUCTIONS

Pressure Treated Plywood and Lumber: These products shall not be
specified or provided for use in roofing projects as a substrate material.
NOTE:
1. RUN METAL COUNTER FLASHING DOWN INSIDE FACE WITHIN 1/2" FROM ROOF LINE TO PROTECT MEMBRANE FLASHINGS
2. IF OVER 8" ADD STIFFENING RIB TO COUNTER FLASHING
3. CONTRACTOR MAY HAVE TO CUT OUT EXISTING INSULATION TO INSTALL WOOD BLOCKING.
4. CONTRACTOR MAY USE EXISTING WOOD CONSTRUCTION IF IN SOUND CONDITION

Pressure Treated Plywood and Lumber: These products shall not be specified or provided for use in roofing projects as a substrate material.

SEE SECTION 07 51 13 FOR INSTALLATION INSTRUCTIONS
Note:
1. Contractor to raise all existing units / curbs if needed to maintain an 8" min. finished flashing height.
2. Provide tapered saddles behind curbs.
3. Run metal counter flashing down inside face within ½" from roof line to protect membrane flashings.

Pressure Treated Plywood and Lumber: These products shall not be specified or provided for use in roofing projects as a substrate material.

See Section 07 51 13 for installation instructions.

Typical DFD Standard
BUR Construction Detail

State of Wisconsin
Department of Administration
Division of Facilities Development

Agency / Institution

Typical DFD Standard
BUR Construction Detail

Scale
NO.

Sheet Title: ROOF CURB DETAIL
Rev: 10/01/2012

Sheet Number: A3.14
NOTE:
1. CONTRACTOR TO RAISE ALL EXISTING UNITS / CURBS IF NEEDED TO MAINTAIN AN 8" MIN. FINISHED FLASHING HEIGHT.
2. PROVIDE TAPERED SADDLES BEHIND CURBS.
3. RUN METAL COUNTERFLASHING DOWN INSIDE FACE WITHIN 1/2" FROM ROOF LINE TO PROTECT MEMBRANE FLASHINGS.

Pressure Treated Plywood and Lumber: These products shall not be specified or provided for use in roofing projects as a substrate material.

SEE SECTION 07 51 13 FOR INSTALLATION INSTRUCTIONS
NOTE:
1: UNITS/CURBS SHALL BE PROVIDED TO MAINTAIN A 6" MIN. FINISHED FLASHING HEIGHT.
2: PROVIDE TAPERED SADDLES BEHIND CURBS.
3: PROVIDE METAL COUNTER FLASHING AT ALL CURBS ETC.
4: RUN METAL COUNTER FLASHING DOWN INSIDE FACE WITHIN 1/2" FROM ROOF LINE TO PROTECT MEMBRANE FLASHINGS

Pressure Treated Plywood and Lumber. These products shall not be specified or provided for use in roofing projects as a substrate material.
NOTE:
1. UNITS / CURBS SHALL BE PROVIDED TO MAINTAIN A 6" MIN. FINISHED FLASHING HEIGHT.
2. PROVIDE TAPERED SADDLES BEHIND CURBS.
3. PROVIDE METAL COUNTER FLASHING AT ALL CURBS ETC.
4. RUN METAL COUNTER FLASHING DOWN CANT WITHIN 3/4" FROM ROOF LINE

Pressure Treated Plywood and Lumber: These products shall not be specified or provided for use in roofing projects as a substrate material.
EPDM piping boot. Coordinate opening quantities with all trades. This includes electrical conduit and controls conduit.

Seal boot to piping using stainless steel band clamp.

Seal boot to ABS cap using stainless steel band clamp or mechanical locking seal.

Fill curb with compressible insulation.

Optional:
- Wood build curb.
  (Provide internal joists under unit if required.)

Optional:
- Pre-fabricated metal curb.
  (If not insulated provide insulation.
  (Provide internal joists under unit if required.)

NOTES TO SPECIFIER:
Coordinate roofing type and include applicable curb details.
Provide internal joists under unit if needed to support added weight. Coordinate with the structural engineer and add requirements to the drawings.

MULTIPLE PIPE PENETRATIONS THRU ROOF DETAIL

A3.19

REVISED 9/3/10

Pressure Treated Plywood and Lumber: These products shall not be specified or provided for use in roofing projects as a substrate material.
LOUVER INSTALLATION DETAIL

NOTES:
1. SEAL ALL DUCT JOINTS, CORNERS AND SEAMS WATERTIGHT USING SEALANT AND OR SOLDERING. REFER TO SPECIFICATION SECTION 23 31 00 FOR ACCEPTABLE SEALANTS TO BE UTILIZED IN DUCT SYSTEMS.

NOTES TO SPECIFIER:
COORDINATE ACCESS DOOR SIZES AND LOCATIONS FOR EACH INDIVIDUAL PROJECT. THE SIZE LISTED IS A MINIMUM SIZE INTENDED TO BE USED FOR SMALLER SIZE LOUVERS/DUCTS AND SHOULD NOT BE UTILIZED FOR ALL DESIGNS.
1 PART POLYURETHANE SEALANT TO SEAL WINDOW

WINDOW

METAL THRU WALL RECEIVER AND COUNTERFLASHING

BUTYL TAPE ON ALL THRU WALL METAL JOINTS

B" MIN. OFF FINISHED ROOF

1 WINDOW FLASHING MIN. HEIGHT DETAIL

NO SCALE:
NOTE:
1: THESE DRAWINGS ARE FOR INFORMATIONAL PURPOSES ONLY, CONSTRUCTION MAY VARY FOR DIFFERENT APPLICATIONS
2: SEE TABLE BELOW FOR REQUIRED HEIGTHS & WIDTHS

NOTE:
REFER TO SPECIFICATIONS FOR
1: INSULATION TYPE & THICKNESS
2: ROOFING SYSTEM SPECIFICS

WIDTH OF EQUIPMENT OFF FINISHED ROOF

| UP TO 36" | 18" |
| 37" AND UP | 36" |

SET BOLTS IN SEALANT

ADJUSTS VERTICALLY & HORIZONTALLY

NOTE:
SEE DETAIL A_16 FOR CURB CONSTRUCTION & HEIGHT

WOOD BUILD PIPE SUPPORT DETAIL

NO SCALE:

1
A3.23

TYPICAL DFD STANDARD
BUR CONSTRUCTION DETAIL

State of Wisconsin
Department of Administration
Division of Facilities Development

Sheet Title: PIPE SUPPORT DETAIL
Rev: 10/01/2012
Sheet Number A3.23
**NOTE:**
1. THESE DRAWINGS ARE FOR INFORMATIONAL PURPOSES ONLY, CONSTRUCTION MAY VARY FOR DIFFERENT APPLICATIONS.
2. SEE TABLE BELOW FOR REQUIRED HEIGHTS & WIDTHS.

**NOTE:**
REFER TO SPECIFICATIONS FOR:
1. INSULATION TYPE & THICKNESS
2. ROOFING SYSTEM SPECIFICS

---

**Width of Equipment**

<table>
<thead>
<tr>
<th>Width (in)</th>
<th>Off Finished Roof</th>
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<tr>
<td>Up to 36”</td>
<td>18”</td>
</tr>
<tr>
<td>37” and up</td>
<td>36”</td>
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</tbody>
</table>

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**Iron Build Pipe Support Detail**

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State of Wisconsin
Department of Administration
Division of Facilities Development

TYPICAL DFD STANDARD
BUR CONSTRUCTION DETAIL

Sheet Title: PIPE SUPPORT DETAIL
Rev: 10/01/2012
Sheet Number: A3.24
NOTE:
1: THESE DRAWINGS ARE FOR
INFORMATIONAL PURPOSES ONLY.
CONSTRUCTION MAY VARY FOR
DIFFERENT APPLICATIONS
2: SEE TABLE BELOW FOR REQUIRED
HEIGHTS & WIDTHS

NOTE:
REFER TO SPECIFICATIONS FOR
1: INSULATION TYPE & THICKNESS
2: ROOFING SYSTEM SPECIFICS

---

**WOOD BUILD DUCT SUPPORT DETAIL**

Pressure Treated Plywood and Lumber: These products shall not be specified or provided for use in roofing projects as a substrate material.

---

**WIDTH OF EQUIPMENT** | **OFF FINISHED ROOF**
--- | ---
UP TO 36" | 18"
37" AND UP | 36"

---

Sheet Title: DUCT SUPPORT DETAIL
Sheet Number: A3.25
Rev: 10/01/2012
NOTE:
1: THESE DRAWINGS ARE FOR INFORMATIONAL PURPOSES ONLY, CONSTRUCTION MAY VARY FOR DIFFERENT APPLICATIONS
2: SEE TABLE BELOW FOR REQUIRED HEIGHTS & WIDTHS

NOTE:
REFER TO SPECIFICATIONS FOR
1: INSULATION TYPE & THICKNESS
2: ROOFING SYSTEM SPECIFICS

ADJUSTS VERTICALLY & HORIZONTALLY

CAP TOP TO MAKE WATERTIGHT

HEIGHT - SEE TABLE

BASE PLATE ANCHORED TO DECK

WIDTH - SEE TABLE

WIDTH OF EQUIPMENT OFF FINISHED ROOF

| Up to 36" | 18" |
| 37" and up | 36" |

ADJUSTABLE DUCT SUPPORT DETAIL

NOTE TO SPECIFIER: COORDINATE ROOFING TYPE AND INCLUDE APPLICABLE PIPE THRU ROOF DETAIL(S).
WIDTH OF EQUIPMENT OFF FINISHED ROOF

<table>
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<tr>
<th>Width</th>
<th>Offset</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 36&quot;</td>
<td>18&quot;</td>
</tr>
<tr>
<td>37&quot; and Up</td>
<td>36&quot;</td>
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</tbody>
</table>

EQUIPMENT SUPPORT STAND DETAIL

NO SCALE: