A 400 Ballasted EPDM Construction Detail

A4.1  Pitch Pan Detail
A4.2  Hi Temp Pipe Detail
A4.3  Class B Vent Detail
A4.4  Vent Stack Detail
A4.5  Roof Drain Detail
A4.6  Fascia Detail
A4.7  Multiple Fascia Detail
A4.8  Snap On Fascia Detail
A4.9  Coping Detail
A4.10 Butt End @ Coping Detail
A4.11 Reglet & 2 PC. Counter flashing Detail
A4.12 Surface Mount Counter flashing Detail
A4.13 Expansion Joint Detail
A4.14 Wall Exp. Joint Detail
A4.15 Roof Curb Detail
A4.16 Roof Hatch Detail
A4.17 Wood Build Sleeper Curb Detail
A4.18 Prefab. Metal Sleeper Curb Detail
A4.19 Equipment Support w/Pipe Chase Detail
A4.20 Multiple Pipe Support Detail
A4.21 Louver Flashing Min. Height Detail
A4.22 Window Flashing Min. Height Detail
A4.23 Door Flashing Min. Height Detail
A4.24 Wood Build Pipe Support Detail
A4.25 Iron Build Pipe Support Detail
A4.26 Wood Build Duct Support Detail
A4.27 Adjustable Duct Support Detail
A4.28 Equipment Support Stand Detail

Click for DFD Master Specifications

http://www.doa.state.wi.us/dsf/masterspec_view_new.asp?catid=37&locid=4
Pourable sealer mounded to shed water
Pitch pan
Non-shrink grout
Uncured flashing
Wood blocking (to match insulation height)
Specified membrane
Lap sealant
Insulation as specified

See section 07 53 23 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.
HIGH TEMP. PIPE DETAIL

SEE SECTION 07 53 23 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
STAINSLESS STEEL DRAW BAND
GALV. RAIN COLLAR
GALV. STACK FLASHING WITH 4" FLANGE
(SET IN SEALANT AND FASTENED OVER 0.60 EPDM)
FIELD WRAP 0.60 UNCUR ED EPDM
LAP SEALANT AT EDGES OF FLASHING
MEMBRANE AS SPECIFIED
WOOD BLOCKING
INSULATION AS SPECIFIED

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 53 23
FOR INSTALLATION INSTRUCTIONS
NOTE:
1. CONTRACTOR TO RAISE EXISTING VENT STACK IF NEEDED TO REACH A 6" MIN. HEIGHT
2. MINIMUM PIPE EXTENSION SHALL BE 4"

VENT STACK DETAIL

SEE SECTION 07 53 23 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"

INSULATION AS SPECIFIED

TAPERED INSULATION TO MATCH EXISTING DRAIN BOWL HEIGHT 1/8" PER FT MAX SLOPE

EPDM UNDER CLAMPING RING AND SEALED TO BOWL WITH WATER STOP MASTIC

CLAMPING RING REPLACE IF BROKEN OR MISSING

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

SEE SECTION 07 53 23 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.

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FOR INSTALLATION INSTRUCTIONS
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SEE SECTION 07 53 23
FOR INSTALLATION INSTRUCTIONS
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

SEE SECTION 07 53 23
FOR INSTALLATION INSTRUCTIONS
1 PART POLYURETHANE SEALANT
NEW OR EXISTING REGLET
AND 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

SEE SECTION 07 53 23
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

METAL RECEIVER AND COUNTER FLASHING
(RUN DOWN INSIDE FACE TO WITHIN 3/4" FOR ROOF LINE TO PROTECT ROOF FLASHING)

ADHERE MEMBRANE UP WALL AND FASTEN TOP WITH ALUMINUM COMPRESSION BAR 12” O/C

INSTALL WATER STOP SEALANT BEHIND MEMBRANE

REINFORCED PERIMETER SECURITY STRAP WITH FASTENER PLATES 12” O/C

MEMBRANE AS SPECIFIED

INSULATION AS SPECIFIED

GRAVEL BALLAST

EXISTING DECK

1-1/2”

URETHANE ROD

1 PART POLYURETHANE SEALANT

FASTEN IN HEAD OR BEAD OF MORTAR JOINT

FASTEN IN HEAD OR BEAD OF MORTAR JOINT

SEE SECTION 07 53 23 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.

Typical DFD Standard
Ballasted EPDM Detail
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 53 23 FOR INSTALLATION INSTRUCTIONS
NOTE:
1. CONTRACTOR MAY USE EXISTING WOOD CONSTRUCTION IF IN SOUND CONDITION
2. CONTRACTOR MAY HAVE TO RAISE EXISTING JOINT
3. RUN METAL COUNTER FLASHING DOWN INSIDE FACE WITHIN 1/4" FROM ROOF LINE TO PROTECT MEMBRANE FLASHINGS
4. IF OVER 8" ADD STIFFENING RIB TO COUNTER FLASHING

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

State of Wisconsin
Department of Administration
Division of Facilities Development

TYPICAL DFD STANDARD
BALLASTED EPDM DETAIL

Sheet Title: EXP. JT. DETAIL
Rev: 10/01/2012
Sheet Number: A4.13
NOTE:
1. CONTRACTOR MAY HAVE TO CUT OUT EXISTING INSULATION TO INSTALL WOOD BLOCKING.
2. CONTRACTOR MAY USE EXISTING WOOD CONSTRUCTION IF IN SOUND CONDITION
3. CONTRACTOR MAY HAVE TO CUT NEW REGLET AS REQUIRED TO ACHIEVE A 3" MIN. FLASHING HEIGHT
4. RUN METAL COUNTER FLASHING DOWN INSIDE FACE WITHIN 1/2" FROM ROOF LINER TO PROTECT MEMBRANE FLASHINGS
5. IF OVER 8" ADD STIFFENING RIB TO COUNTER FLASHING

SEE SECTION 07 53 23 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 ALL EXISTING UNITS / CURBS IF NEEDED TO MAINTAIN AN 8" MIN. FINISHED FLASHING HEIGHT.
2. PROVIDE TAPERED SADDLES BEHIND CURBS.
3. REMOVABLE HOOD, SINGLE PLY TERMINATED AT INTERIOR OF CURB, NON REMOVABLE HOOD, REQUIRE TERM BAR AND METAL COUNTER FLASHING
4. RUN METAL COUNTER FLASHING DOWN TO WITHIN 1/4" FROM ROOF LINE TO PROTECT MEMBRANE FLASHINGS
5. IF OVER 8" ADD STIFFENING RIB TO COUNTER FLASHING

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

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**SEE SECTION 07 53 23 FOR INSTALLATION INSTRUCTIONS**

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**Typical DFD Standard**

**Ballasted EPDM Detail**

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State of Wisconsin
Department of Administration
Division of Facilities Development

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Sheet Title: ROOF CURB DETAIL
Sheet Number: A4.15
Rev: 10/01/2012
NOTE:
1: ROOF HATCH SHALL BE PROVIDED TO MAINTAIN A 8" 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 TO WITHIN 1/2" FROM ROOF LINE TO PROTECT MEMBRANE FLASHINGS
5: IF OVER 8" ADD STIFFENING RIB TO COUNTER FLASHING

SEE SECTION 07 53 23 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: ROOF HATCH SHALL BE PROVIDED TO MAINTAIN A 8" MIN. FINISHED FLASHING HEIGHT.
2: PROVIDE TAPERED SADDLES BEHIND CURBS.
3: PROVIDE METAL COUNTER FLASHING AT ALL CURB ETC.
4: RUN METAL COUNTER FLASHING DOWN TO WITHIN 1/2" FROM ROOF LINE TO PROTECT MEMBRANE FLASHINGS.
5: IF OVER 8" ADD STIFFENING RIB TO COUNTER FLASHING

Pressure Treated Plywood and Lumber; These products shall not be specified or provided for use in roofing projects as a substitute material.
NOTE:
1. ROOF HATCH SHALL BE PROVIDED TO MAINTAIN A 8" 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 TO WITHIN ½" FROM ROOF LINE TO PROTECT MEMBRANE FLASHINGS
5. IF OVER 8" ADD STIFFENING RIB TO COUNTER FLASHING

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 53 23 FOR INSTALLATION INSTRUCTIONS
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.

NOTE:
1: PROVIDE INTERNAL JOISTS UNDER UNIT IF NEEDED
   TO SUPPORT ADDED WEIGHT
2: CURB MUST BE 12" MIN. HEIGHT OFF OF FINISHED
   ROOFING MEMBRANE

EQUIPMENT SUPPORT W/PIPE CHASE DETAIL

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 COMPRRESSIBLE INSULATION.

ATTACH CAP TO CURB PER MANUFACTURERS INSTRUCTIONS.

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.

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.)

MULTIPLE PIPE PENETRATIONS THRU ROOF DETAIL

Pressure Treated Plywood and Lumber. These products shall not be specified or provided for use in roofing projects as a substrate material.
NOTES:
1: SEAL ALL DUCT JOINTS, CORNERS AND SEAMS WATERTIGHT USING SEALANT OR SOLDERING. REFER TO SPECIFICATION SECTION 23 31 00 FOR ACCEPTABLE SEALANTS TO BE UTILIZED IN DUCT SYSTEMS.
1 PART POLYURETHANE SEALANT TO SEAL WINDOW

WINDOW

METAL THRU WALL RECEIVER AND COUNTERFLASHING

BUTYL TAPE ON ALL THRU WALL METAL JOINTS

8" MIN. OFF FINISHED ROOF

WINDOW FLASHING MIN. HEIGHT DETAIL

NO SCALE:
DOOR FLASHING MIN. HEIGHT DETAIL

8" MIN. OFF FINISHED ROOF SYSTEM

EXISTING DECK

METAL RECEIVER UNDER DOOR SILL

METAL COUNTERFLASHING

DOOR SILL
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 OFF FINISHED ROOF

<table>
<thead>
<tr>
<th>UP TO 36&quot;</th>
<th>37&quot; AND UP</th>
</tr>
</thead>
<tbody>
<tr>
<td>18&quot;</td>
<td>36&quot;</td>
</tr>
</tbody>
</table>

WOOD BUILD PIPE SUPPORT DETAIL

NO SCALE:

TYPICAL DFD STANDARD BALLASTED EPDM DETAIL

PIPE SUPPORT DETAIL

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

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</tr>
<tr>
<td>37&quot; AND UP</td>
<td>36&quot;</td>
</tr>
</tbody>
</table>

--- Diagram ---

CAP TOP TO MAKE WATERTIGHT
ADJUSTS VERTICALLY & HORIZONTALLY
HEIGHT = SEE TABLE
BASE PLATE ANCHORED TO DECK
WIDTH = SEE TABLE

SEE STACK FLASHING DETAIL FOR LEGS
ADJUSTS VERTICALLY

1. IRON BUILD PIPE SUPPORT DETAIL
NO SCALE:

--- Print Information ---

State of Wisconsin
Department of Administration
Division of Facilities Development

Typical DFD Standard
Ballasted EPDM Detail
Pipe Support Detail
Rev 10/01/2012

--- Sheet Information ---

Sheet Title: Pipe Support Detail
Sheet Number: A4.25
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

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</tr>
<tr>
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<td>36&quot;</td>
</tr>
</tbody>
</table>

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.

TYPICAL DFD STANDARD
BALLASTED EPDM DETAIL
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
SEE STACK FLASHING DETAIL FOR LEGS
BASE PLATE ANCHORED TO DECK
HEIGHT - SEE TABLE
WIDTH - SEE TABLE

WIDTH OF EQUIPMENT OFF FINISHED ROOF

<table>
<thead>
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<th>Width</th>
<th>Off Finished Roof</th>
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<tbody>
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<td>18&quot;</td>
</tr>
<tr>
<td>37&quot; and up</td>
<td>36&quot;</td>
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</tbody>
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ADJUSTABLE DUCT SUPPORT DETAIL

NO SCALE:

TYPICAL DFDM STANDARD
BALLASTED DFDM DETAIL

Sheet Title: DUCT SUPPORT DETAIL  Rev: 10/01/2012

State of Wisconsin
Department of Administration
Division of Facilities Development

Agency / Institution:

Sheet Number: A4.27
WIDTH OF EQUIPMENT | OFF FINISHED ROOF
---|---
UP TO 36" | 16"
37" AND UP | 36"

EQUIPMENT SUPPORT STAND DETAIL
NO SCALE:

TYPICAL DFD STANDARD
BALLASTED EPDM DETAIL

Rev-10/01/2012

Sheet Title: EQUIPMENT SUPPORT DETAIL