WARRANTY PROVIDER
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A REFERENCE GUIDE OF
TYPICAL RAINSCREEN
WALL AND WINDOW
DETAILS

Per: 2006 B.C.B.C.
Part 9
DISCLAIMER

THE INFORMATION CONTAINED IN THIS DOCUMENT REPRESENTS CURRENT WOOD FRAME BUILDING PRACTICES IN THE BRITISH COLUMBIA COASTAL REGION AND HAS BEEN REVIEWED BY A SPECTRUM OF INDUSTRY PARTICIPANTS.

THE READER IS ADVISED TO EVALUATE THE INFORMATION, MATERIALS AND TECHNIQUES CAUTIOUSLY AND TO CONSULT APPLICABLE BUILDING CODES AND GUIDELINES TO DETERMINE WHETHER THE INFORMATION, MATERIALS AND TECHNIQUES ARE SUITABLE IN EACH INSTANCE.

THE DRAWINGS AND TEXT ARE INTENDED AS A GENERAL REFERENCE GUIDE ONLY. PROJECT AND SITE SPECIFIC FACTORS INCLUDING CLIMATE, EXPOSURE, COMPLEXITY, AESTHETICS, ETC. MUST ALWAYS BE TAKEN INTO CONSIDERATION.

LIMITATIONS

THESE DETAILS ARE INTENDED AS A PRACTICAL REFERENCE GUIDE FOR ASSEMBLING THE BUILDING ENVELOPE IN WOOD FRAME CONSTRUCTION. IT IS NOT INTENDED TO REPLACE PROFESSIONAL ADVICE.

ENSURE THAT ALL PROPOSED PRODUCTS AND SYSTEMS ARE ACCEPTABLE TO THE BUILDING AUTHORITY HAVING JURISDICTION PRIOR TO INSTALLATION.

THE INFORMATION PRESENTED HEREIN IS NOT EXCLUSIVE, MANY PRODUCTS AND METHODS MAY BE USED AS ALTERNATIVES TO SATISFY REGIONAL REQUIREMENTS, COST CONSIDERATIONS, AVAILABILITY AND SPECIFIC DESIGN REQUIREMENTS.

ENSURE THAT MATERIALS USED IN CONJUNCTION WITH ONE AND ANOTHER ARE COMPATIBLE.
**Sill Flashing Paper & Gussets**

*Install peel & stick (P&S) gussets with primer as per manufacturer's instructions.*

- **Cut sheathing flush with frame on all sides.**
- **Min. 3/8" gap in sheathing.**
- **12" strip of 60 min. flashing paper staple top edge only so building paper (B.P.) can be installed underneath later.**
- **2" dia. min. hole for ventilation.**

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**Detail**

March 2007
OVERLAP ALL FLASHING PAPER SHINGLE STYLE (AS SHOWN)

APPLY P&S WITH PRIMER AS PER MANUFACTURERS REQUIREMENTS FROM INSIDE OF SILL EXTEND DOWN THE PAPER AND UP THE JAMBS BY 3" Min.

Place plastic horseshoe shims on sill spaced as per window manufacturers specifications. Ensure that the shims do not extend past the inside of the window frame. Place one behind each fastener when fastening the sill flange.

60 MIN. FLASHING PAPER

Peel & Stick & Flashing Paper

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Detail 1.1
Apply a generous bead of polyurethane caulk (or approved alternate) to the paper 3/4" out from the opening to jamb and head only.

Do not caulk the sill to allow for drainage.

Fasten window as per manufacturer's instructions.

Insert horseshoe shim under each nail in the sill flange only.
ALL VERTICAL LAPS TO BE 12" Min. AND STAGGERED
THE INSIDE OF THE FRAME IS TO BE SEALED TO THE AIR/VAPOUR BARRIER (A.B & V.B.) ON ALL FOUR SIDES WITH POLYURETHANE CAULK AT THE SILL AND ROD & CAULK AT THE JAMBS & HEAD

SEAL FIELD PAPER TO FLANGE WITH MASTIC OR POLYURETHANE CAULK (or approved alternate)

HEAD FLASHING WITH END DAMS AS PER 9.27.3.8

ENSURE FIELD PAPER LAPS UNDER FLASHING PAPER AT SILL

INSTALL PAPER WITH FULL HALF LAPS + 2"

START WITH HALF ROLL OF 30 MINUITE BUILDING PAPER

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Building paper installation

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Detail 1.3

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1. HALF ROLL STARTER STRIP UNDER

2

3/8" GAP BETWEEN STRAPPING AND WINDOW

4

5

6

7

8

SEAL BUILDING PAPER TO HEAD FLASHING AND TO FLANGE OF WINDOW AT JAMB WITH POLYURETHANE CAULK (or approved alternate)

HEAD FLASHING WITH END DAM

SILL FLASHING WITH END DAM BEHIND STRAPPING

BUG SCREEN

SILL PEEL & STICK (P&S)

SILL FLASHING PAPER

10MM. Min. THICKNESS PRESSURE TREATED PLYWOOD STRAPPING AS PER 9.27.2.2 @ 16" O/C Max. ATTACHED TO STUDS WITH APPROVED FASENERS

Building paper and strapping installation

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Detail 1.4

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**Window Head Flashing with End Dam - Per: 9.27.3.8**

**Step 1**
- Folded Safety Edge
- Notch out front face
- Minimum 75mm
- Minimum by code 10mm, 25mm is recommended
- 110°
- Do not cut here

**Step 2**
- Fold up edge
- Do not crimp back fold tight so positive slope is maintained
- 25mm
- End dam must extend to face of cladding

**Step 3**
- Fold over outer corner to create a safety edge
- 50mm

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<table>
<thead>
<tr>
<th>Date</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>March 2007</td>
<td>Detail 2.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NTS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>
Window Sill (flanged window with trim)

ALTERNATE 2 X 6 TRIM WITH 25MM. Min. NOTCH IN BOTTOM per 9.27.3.8 (2a)

SILL FLASHING WITH END DAM
(all dimensions similar to head flashing)

5MM GAP AS PER 9.27.3.8 (4e)

POLYURETHANE CAULK

5MM GAP AS PER 9.27.3.8 (5)

PEEL & STICK MEMBRANE

SILL FLASHING W/110 DEGREE SLOPE END DAMS AND 1/2" SAFETY EDGE AS PER 9.27.3.8 (5)

PEL & STICK MEMBRANE

SILL FLASHING W/110 DEGREE SLOPE END DAMS AND 1/2" SAFETY EDGE AS PER 9.27.3.8 (5)

PEL & STICK MEMBRANE

25MM

5MM GAP

CAULK WINDOW FRAME TO P&S

CAULK WINDOW FRAME TO P&S

EXTerior CLADDING

BUGIN MEMBRANE

TRIM BOARD

12" FLASHING PAPER

P.T. STRAPPING AT 16" O/C Max.

FLASHING ON TOP OF STRAPPING

TWO LAYERS OF 30 MINUTE BUILDING PAPER

SHEATHING

SHEATHING

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Window Head (section)

ROD & CAULK

TRIM FLASHING WITH DAM ENDS

MIN. 10MM AIR SPACE FOR VENTILATION

Both layers of building paper to overlap back leg of head flashing

60 MIN FLASHING PAPER

2 LAYERS 30 MIN BLDG PAPER BOTH LAYERS OF BLDG PAPER TO OVERLAP BACK LEG OF HEAD FLASHING

P.T. STRAPPING AT 16" O/C Max.

CLADDING

TRIM FLASHING WITH DAM ENDS

1X6 WOOD TRIM

INSECT SCREEN

BACK CAULK WINDOW FLANGE

MIN. 10MM AIR SPACE FOR VENTILATION

SLOPED HEAD FLASHING WITH END DAMS

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Detail 3.1
B.P. to extend over window flange
Seal to flange with approved sealant

3/4" wood trim
Cladding caulked to wood trim

2 layers 30 min building paper
60 min flashing paper

Back caulk flange at head and jamb only with approved sealant

Polyurethane caulk

Rod and caulk frame to (A.B. & V.B.)
Poly (A.B. & V.B.)

Seal poly here

Window jamb with 3/4" trim

1 1/2" wood trim
Cladding caulked to wood trim

Polyurethane caulk

Rod and caulk frame to (A.B. & V.B.)
Poly (A.B. & V.B.)

Seal poly here

Window jamb with 1 1/2" trim

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Detail

3.2
PEEL & STICK AT SILL & 6" UP DOOR JAMB

CAULK

TRIM

VERTICAL STRAPPING @ 16" O/C

SHEATHING

150 MM

50 MM Min.
Bottom & top of Walls at Cantilever

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Detail

10 MM Min. GAP
VINYL "J" TRIM

10 MM Min. STRAPPING
CLADDING

FLASHING ON TOP OF STRAPPING

TWO LAYERS 30 MIN BUILDING PAPER

SEAL POLY AIR / VAPOUR BARRIER

PERFORATED SOFFIT
VINYL "J"

10 MM Min. SPACE FOR VENTING
BUG SCREEN

10 MM Min. STRAPPING
CLADDING

2 LAYERS 30 MINUTE BUILDING PAPER

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Roof to Wall Intersection

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60 MIN FLASHING PAPER ON SHEATHING BEHIND ROOF FRAMING AND FLASHING

15LB ROOFING FELT

METAL FLASHING

2 LAYERS OF 30Min BUILDING PAPER TO LAP FLASHING MIN 4" SEAL TO FLASHING

P.T. STRAPPING

CLADDING 1/2" LOWER THAN STRAPPING

BUG SCREEN

FLASHING TO HAVE 6" BACKLEG UP WALL CLADDING TO LAP FLASHING BY 4" MIN 2" CLEARANCE BETWEEN CLADDING AND ROOFING

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BRING DECKING MATERIAL OVER THRESHOLD AND UP SIDE OF JAMB 4" MIN

MEMBRANE TO EXTEND UP WALL 8" MIN

60 MIN FLASHING PAPER

1 1/2 x 1 1/2 x 6" WEDGE UNDER MEMBRANE

DECK MATERIAL RETURNS OVER FLASHING EDGE

DECK EDGE FLASHING

LAP WATERPROOFING OVER FLAP SO A PROPER LAPPING SEQUENCE CAN BE MADE WITH FIELD PAPER

Deck to Wall Interface

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5.2

Detail

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**Typical Corners NTS**

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**Detail 6.0**

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VINYLI NSIDE CORNER TRIM

TWO LAYERS OF BUILDING PAPER DOUBLE LAPPED AT CORNERS

CLADDING

VINYL INSIDE CORNER TRIM (BACK TO BACK STOP WILL NOT BE ACCEPTED)

TWO LAYERS OF BUILDING PAPER DOUBLE LAPPED AT CORNERS

CLADDING

VINYL OUTSIDE CORNER TRIM

CLADDING

LEAVE 10MM GAP IN CORNER

STRIP OF 60 MINUTE BUILDING PAPER ON TOP OF STRAPPING

CLADDING TO 2 X2

CAULK

ALL LAYERS OF BUILDING PAPER TO LAP AROUND THE CORNER BY 6" min.

LEAVE GAP IN STRAPPING AT CORNER

STRIP OF 60 MINUTE BUILDING PAPER ON TOP OF STRAPPING

FOR VINYL SIDING

FOR SIDING

---

1 X 4

1 X 4

CAULK
TWO LAYERS OF BUILDING PAPER
PT STRAPPING TO HANG 3/4" BELOW CONCRETE
CLADDING TO HANG 1/2" BELOW STRAPPING

8" MIN

DRYWALL
VAPOUR BARRIER
SILL GASKET
THERMAL BREAK
SLAB ON GRADE

Base of Wall
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Detail 7.0
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A - 2 LAYERS 30 MINUTE BUILDING PAPER
B - PT PLYWOOD STRAPPING
C - EXTERIOR CLADDING
D - BUG SCREEN
E - PRE-FINISHED FLASHING
F - 60MIN FLASHING PAPER
G - 2" X 10" TRIM
H - DIVERTER FLASHING

Through Wall Flashing & Band Board

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Detail

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SHEATHING
2 LAYER 30 MIN BUILDING PAPER
60 MIN FLASHING PAPER
STRAPPING
CLADDING
HEAD FLASHING
BUG SCREEN
POLYURETHANE CAULKING
WALL CAP COMBO VENT WITH DRIP FLANGE
BUILT IN DRIP FLANGE
BUG SCREEN
60MIN FLASHING PAPER
2 LAYERS 30MIN BUILDING PAPER UNDER FLASHING PAPER
STRAPPING
CLADDING
Drill or punch (do NOT cut with a knife) a 1/4” hole in the middle of a 12” x 12” square of EPDM rubber roofing membrane and push the pipe thorough it. IT MUST MAKE A TIGHT FIT.

Place the pipe in the wall and staple only the top of the membrane to the wall sheathing. Solder the pipe into the plumbing system at the inside of the wall.

Take care not to heat the EPDM membrane.

When applying the building paper, pull the bottom of the EPDM membrane outwards and then push it back along the pipe so it bulges OUT NOT IN at the pipe.

Seal the membrane to the pipe with polyurethane caulk.

Apply the lower paper under the membrane and the upper paper over the membrane as shown. Be sure that the upper paper laps over the joint between the lower paper and the membrane by at least 4” as shown.

Trim out the hose bib at the cladding line with an approved vinyl trim kit.
ALL ELECTRICAL BOXES MUST HAVE GASKETS AND FLANGES

Attach the flanged box on the wall with a piece of strapping behind the flange.

Apply polyurethane caulk to the flange of the box.

Cut a hole 1" smaller in both directions than the size of the opening in the box in the middle of a 12" x 12" square of EPDM rubber roofing membrane.

Stretch the membrane over the opening of the box and seal it to the flange.
IT MUST BE A TIGHT FIT,
Staple only the top of the membrane to the wall.

Apply the lower paper under the membrane and the upper paper over the membrane as shown. Be sure that the upper paper laps over the joint between the lower paper and the membrane by at least 4" as shown.

Trim out the electrical box at the cladding line with an approved vinyl trim kit.

LOWER PAPER UNDER THE EPDM MEMBRANE

UPPER PAPER LAPPED OVER THE MEMBRANE AND THE LOWER PAPER BY 4" Min.