DISCLAIMER
THE PROCEDURES PRESENTED IN THIS FIELD ASSEMBLY GUIDE ARE INTENDED AS A GUIDELINE ONLY, TO PROVIDE A BASIC UNDERSTANDING OF THE CONCEPTS INVOLVED IN THE PROPER AND AFFECTIVE INSTALLATION OF OUR HP+™ WALL SYSTEMS.

FOR CODE, DESIGN, AND INSTALLATION INFORMATION, PLEASE REFER TO THE BASF HP+™ TECHNICAL INSTALLATION MANUAL AND THE DrJ ENGINEERING TECHNICAL EVALUATION REPORT.

IT REMAINS THE RESPONSIBILITY OF THE HP+™ WALL SYSTEMS INSTALLER AND/OR BUILDER TO MESURE ALL WORK PERFORMED CONFORMS TO APPLICABLE BUILDING CODE AND LABOUR SAFETY REGULATIONS GOVERNING THE CONSTRUCTION.

NOTE:
ALL REFERENCES TO MASTERSEAL® NP1™ OR 1/2" OR 1" FOAM SEALANT TAPE IS FOR BEST PRACTICE TO IMPROVE AIR TIGHTNESS
**HIGH PERFORMANCE WALL : X SERIES - CANADA**

**WALL COMPONENTS**
- EXTERIOR CLADDING
- 1" x 3" VERT. STRAPPING @ 16" C/C OR 24" C/C
- 1" THICK NEOPORE® GRAPHITE - ENHANCED EXPANDED POLYSTYRENE INSULATION (1.35 lb/ft³ MINIMUM DENSITY)
- OSB WALL SHEATHING
- 2" x 4" STUDS @ 16" C/C OR 24" C/C
- 2 1/2" THICK WALLTITE® SPRAYED ONTO SURFACE OF OSB PANEL
- 1/2" GYPSUM BOARD

### TYPICAL WALL NOMINAL R VALUE

<table>
<thead>
<tr>
<th>COMPONENTS</th>
<th>R VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>OUTSIDE AIR FILM</td>
<td>R 0.17</td>
</tr>
<tr>
<td>EXTERIOR CLADDING</td>
<td>+/- R 0.62</td>
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<tr>
<td>AIR SPACE 3/4&quot;</td>
<td>R 1.02</td>
</tr>
<tr>
<td>NEOPORE® SHEATHING 1&quot;</td>
<td>R 4.70</td>
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<tr>
<td>OSB WALL SHEATHING 1/4&quot;</td>
<td>R 0.35</td>
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<tr>
<td>WALLTITE® CM01, 2 1/2&quot;</td>
<td>R 13.5</td>
</tr>
<tr>
<td>AIR SPACE 1&quot;</td>
<td>R 1.02</td>
</tr>
<tr>
<td>GYPSUM BOARD 1/2&quot;</td>
<td>R 0.44</td>
</tr>
<tr>
<td>INSIDE AIR FILM</td>
<td>R 0.68</td>
</tr>
<tr>
<td><strong>TOTAL R</strong></td>
<td><strong>R 22.50</strong></td>
</tr>
</tbody>
</table>

* **FOR PLASTIC FOAM INSULATION AT HEADERS AND THERMAL BARRIER REFER TO THE APPLICABLE BUILDING CODE.**

| **NOMINAL R VALUES DETERMINED ACCORDING TO COMMON INDUSTRY PRACTICE** |

**BASF**
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**HIGH PERFORMANCE WALL : X SERIES - CANADA**

**WALL COMPONENTS**

- EXTERIOR CLADDING
- 1" x 3" VERT. STRAPPING @ 16" C/C OR 24" C/C
- 1 1/2" THICK NEOPOR® GRAPHITE - ENHANCED EXPANDED POLYSTYRENE INSULATION (1.35 lb/ft³ MINIMUM DENSITY)
- OSB WALL SHEATHING
- 2" x 4" STUDS @ 16" C/C OR 24" C/C
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- 1/2" GYPSUM BOARD

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**TYPICAL WALL NOMINAL R VALUE**

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</tr>
<tr>
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</tr>
<tr>
<td><strong>TOTAL R</strong></td>
<td><strong>R 24.80</strong></td>
</tr>
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* TYPICAL WALL NOMINAL R VALUE

* NOMINAL R VALUES DETERMINED ACCORDING TO COMMON INDUSTRY PRACTICE

**FOR PLASTIC FOAM INSULATION AT HEADERS AND THERMAL BARRIER REFER TO THE APPLICABLE BUILDING CODE.**

---

**BASF**

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**HP+™ WALL SYSTEM X SERIES FIELD ASSEMBLY GUIDE**

**02/26/15**
**HIGH PERFORMANCE WALL: X SERIES - CANADA**

**WALL COMPONENTS**

- EXTERIOR CLADDING
- 1" x 3" VERT. STRAPPING @ 16" C/C OR 24" C/C
- 2" THICK NEOPORE® GRAPHITE - ENHANCED EXPANDED POLYSTYRENE INSULATION (1.35 lb/ft³ MINIMUM DENSITY)
- OSB WALL SHEATHING
- 2" x 4" STUDS @ 16" C/C OR 24" C/C
- 2 1/2" THICK WALLTITE® SPRAYED ONTO SURFACE OF OSB PANEL
- 1/2" GYPSUM BOARD

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**TYPICAL WALL NOMINAL R VALUE**

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<tr>
<td>NEOPORE® SHEATHING 2&quot;</td>
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<tr>
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</tr>
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<td>WALLTITE® CM01, 2 1/2&quot;</td>
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<tr>
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<td>R 0.44</td>
</tr>
<tr>
<td>INSIDE AIR FILM</td>
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TOTAL R = R 27.20

*Nominal R values determined according to common industry practice*

---

**FOR PLASTIC FOAM INSULATION AT HEADERS AND THERMAL BARRIER REFER TO THE APPLICABLE BUILDING CODE.**

HP™ WALL SYSTEM X SERIES FIELD ASSEMBLY GUIDE
**STEP 1 - FLOOR ASSEMBLY**

ENSURE SEAL OF ALL FLOOR FRAMING COMPONENTS ANCHORED TO FOUNDATION WALL

- SEALING GASKET UNDER THE SILL PLATE
  - (USE 2 PLIES IF TOP OF CONCRETE FOUNDATION WALL IS VERY ROUGH)

- MASTERSEAL® NP1™ SEALANT OR
  - 1/2” OR 1” FOAM SEALANT TAPE

HP+™ WALL SYSTEM X SERIES FIELD ASSEMBLY GUIDE
STEP 2 - WALL FRAMING

FIRST WALL FRAMING ASSEMBLY

- 2" x 4" OR 2" x 6" STUD
- 2" x 4" OR 2" x 6" TOP PLATE
- 2" x 4" OR 2" x 6" BOTTOM PLATE

MASTERSEAL® NP1™ SEALANT OR 1/2" OR 1" FOAM SEALANT TAPE

HP+™ WALL SYSTEM X SERIES FIELD ASSEMBLY GUIDE

We create chemistry
STEP 3A - EXTERIOR OSB WALL SHEATHING INSTALLATION

INSTALL OSB SHEATHING

NOTE:
FOR SHEATHING FASTENERS AND SPACING
REFER TO THE BASF HP+™ TECHNICAL INSTALLATION MANUAL
AND THE DrJ ENGINEERING TECHNICAL
EVALUATION REPORT.

EXTEND OSB PANEL TO COVER HEADER AT THIS STAGE OR LATER
STEP 3B- EXTERIOR INSULATION

INSTALL NEOPOR® GRAPHITE - ENHANCED EXPANDED POLYSTYRENE INSULATING SHEATHING

NOTE:
FOR SHEATHING FASTENERS AND SPACING
REFER TO THE BASF HP+™ TECHNICAL INSTALLATION MANUAL AND THE D+J ENGINEERING TECHNICAL EVALUATION REPORT.
NOTE:
NEOPOR'S® FASTENERS ARE NOT SHOWN ON THIS PAGE AND THE FOLLOWING PAGES TO SIMPLIFY THE DRAWINGS.

NOTE:
WEATHER RESISTIVE BARRIER INSTALLED AS PER MANUFACTURER SPECIFICATIONS
STEP 4 - NEOPOR® SEALING JOINTS - VARIOUS OPTIONS

SEAL BUTT JOINTS; SHIPLAP AND T&G JOINTS MAY BE LEFT UNSEALED WHEN DESIGN SHEDS WATER

SEALANT TAPE APPROVED BY BASF CANADA

WEATHER RESISTIVE BARRIER (WRB)
STEP 5 - STRAPPING INSTALLATION

NOTE:
FOR SHEATHING AND STRAPPING FASTENERS AND SPACING, REFER TO THE BASF HP+™ TECHNICAL INSTALLATION MANUAL AND THE DrJ ENGINEERING TECHNICAL EVALUATION REPORT.

NAIL 12" C/C

INSULATION TO COVER HEADER AT THIS STAGE OR LATER
STEP 6 - RAISE WALL ASSEMBLY IN PLACE
STEP 7A - WALL FRAMING WITH OPENING

SECOND WALL FRAMING AND ASSEMBLY
APPLY MASTERSEAL® NP1™ SEALANT AT ALL CORNERS OF OPENINGS

LEGEND

MASTERSEAL® NP1™ SEALANT OR
1/2" OR 1" FOAM SEALANT TAPE

MASTERSEAL® NP1™ SEALANT AT
ALL CORNERS OF OPENINGS
ALL REFERENCE TO MASTERSEAL® NP1™ OR 1/2" OR 1" FOAM SEALANT TAPE FOR THE LINTEL IS FOR BEST PRACTICE TO IMPROVE AIR TIGHTNESS

LEGEND

MASTERSEAL® NP1™ SEALANT OR 1/2" OR 1" FOAM SEALANT TAPE

A SECTION

B SECTION

C 3D VIEW

MASTERSEAL® NP1™ SEALANT OR 1/2" OR 1" FOAM SEALANT TAPE (TOP AND BOTTOM)
STEP 8A - OSB WALL SHEATHING INSTALLATION

INSTALL OSB SHEATHING

NOTE:
FOR SHEATHING FASTENERS AND SPACING
REFER TO THE BASF HP+™ TECHNICAL INSTALLATION MANUAL
AND THE DrJ ENGINEERING TECHNICAL EVALUATION REPORT.
STEP 8B - EXTERIOR INSULATION

INSTALL NEOPOR® GRAPHITE - ENHANCED EXPANDED POLYSTYRENE SHEATHING

NOTE:
FOR SHEATHING FASTENERS AND SPACING
REFER TO THE BASF HP+™ TECHNICAL INSTALLATION MANUAL
AND THE DrJ ENGINEERING TECHNICAL
EVALUATION REPORT.

ATTACH THIS SECTION AFTER RAISING WALL

(2019-05-01)
A - ENSURE THAT MASTERSEAL® NP1™ SEALANT HAS BEEN APPLIED IN ALL CORNERS OF OPENINGS

B - INSTALL AIR BARRIER AND WATERPROOFING MEMBRANE AT EACH CORNER, COVERING SEALANT INSTALLED IN STEP 7A

C - STARTING ALONG BOTTOM EDGE, INSTALL MEMBRANE AROUND ENTIRE PERIMETER OF OPENINGS
STEP 9A - AIR / WATER TIGHTNESS OF OPENINGS

D - FOLD MEMBRANE INTO OPENING

E - INSTALL MEMBRANE ALONG VERTICAL EDGES OF OPENINGS

A

F - WHEN REQUIRED BY MANUFACTURER USE ROLLER TO APPLY PRESSURE AND SEAL MEMBRANE TO SUBSTRATE

G - INSTALL THE WINDOW HEAD FLASHING
**STEP 9B - AIR / WATER TIGHTNESS OF OPENINGS - WEATHER-RESISTIVE BARRIER OPTION**

EXECUTE STEPS "A TO G" AND CONTINUE WITH THE FOLLOWING STEPS WHEN USING A WEATHER-RESISTIVE BARRIER

H - INSTALL THE WEATHER-RESISTIVE BARRIER

I - INSTALL A SELF-ADHESIVE TAPE ALONG THE EDGES OF THE WEATHER-RESISTIVE BARRIER
**STEP 9C - AIR / WATER TIGHTNESS OF OPENINGS - WEATHER-RESISTIVE BARRIER + LIQUID MEMBRANE OPTION**

**A - INSTALL THE WEATHER-RESISTIVE BARRIER AND FOLD THE EDGES AT THE FOUR SIDES OF THE OPENING**


**C - EXTEND THE HP+™ FLASH LIQUID FLASHING MEMBRANE USING A TROWEL**

**D - FOLD AND FIX THE WEATHER-RESISTIVE BARRIER TOWARDS THE INTERIOR OF THE OPENING, AND APPLY A SECOND LAYER OF HP+™ FLASH**
**STEP 9C - AIR / WATER TIGHTNESS OF OPENINGS - WEATHER-RESISTIVE BARRIER + LIQUID MEMBRANE OPTION**

**E - EXTEND THE HP+™ FLASH LIQUID FLASHING MEMBRANE USING A TROWEL**

**F - INSTALL THE WINDOW HEAD FLASHING**

**C**

**G - APPLY MASTERSEAL® NP1™ SEALANT ON TOP OF THE WINDOW HEAD FLASHING**
STEP 10 - WALL AND OPENING DETAILS

A SECTION

B SECTION - WEATHER-RESISTIVE BARRIER OPTION

C SECTION - WEATHER-RESISTIVE BARRIER + LIQUID MEMBRANE OPTION

D PLAN SECTION
**STEP 11 - STRAPPING INSTALLATION AROUND WINDOWS**

(SEE STEP #5)

**NOTE:**
FOR SHEATHING AND STRAPPING FASTENERS AND SPACING, REFER TO THE BASF HP+™ TECHNICAL INSTALLATION MANUAL AND THE DJ ENGINEERING TECHNICAL EVALUATION REPORT. FURRING STRIPS IS BEST PRACTICE.

SECURE STRAPPING TO WINDOW OPENING AFTER DRIP FLASHING INSTALLATION

16" OR 24" C/C
**STEP 12 - RAISE WALL ASSEMBLY**

- **ATTACH TOP PLATE**
- **SECURE STRAPPING TO WINDOW OPENING AFTER DRIP FLASHING INSTALLATION**
- **APPLY A FILL PIECE OF NEOPOR® TO CLOSE THE CORNER**
STEP 13 - CORNER VIEW OF INSTALLED WALLS

MASTERSEAL® NP1™ SEALANT OR 1/2" OR 1" FOAM SEALANT TAPE
STEP 14 - CORNER STRAPPING INSTALLATION

1" x 4" STRAPPING

1" x 6" BOARD

2" x 4" OR 2" x 6" BOTTOM PLATE

2" x 4" OR 2" x 6" OSB WALL SHEATHING

1" x 3" STRAPPING

NEOPOR® GRAPHITE - ENHANCED EXPANDED POLYSTYRENE SHEATHING

A

MASTERSEAL® NP1™ SEALANT OR 1/2" OR 1" FOAM SEALANT TAPE

SEALANT TAPE APPROVED BY BASF CANADA

1" x 6" BOARD

1" x 4" STRAPPING

SEALANT TAPE APPROVED BY BASF CANADA

A

SECTION
STEP 15 - SECOND FLOOR ASSEMBLY

ENSURE SEAL OF ALL FLOOR FRAMING COMPONENTS USING MASTERCLEAN® NP1™ SEALANT OR 1/2" OR 1" FOAM SEALANT TAPE
STEP 16A - BUILD AND POSITION SECOND FLOOR WALLS

(SEE STEPS 2 TO 14)
SECTION A

3D VIEW B

MASTERSEAL® NP1™ SEALANT OR 1/2" OR 1" FOAM SEALANT TAPE

SEALANT TAPE
APPROVED BY BASF CANADA

HP+™ WALL SYSTEM X SERIES FIELD ASSEMBLY GUIDE
STEP 17 - ROOF FRAMING

A 3D VIEW

SECTION

VAPOUR BARRIER*

MASTERSEAL® NP1™ SEALANT OR 1/2’ OR 1’ FOAM SEALANT TAPE

*AS REQUIRED BY CODE
STEP 18A - WINDOWS AND DOORS INSTALLATION

WINDOW INSTALLATION ACCORDING TO CSA A440.4

LOW EXPANSION FOAM SEALANT

MASTERSEAL® NP1™

BACKER ROD

SELF-ADHERING MEMBRANE

BEVELED SILL

LOW EXPANSION FOAM SEALANT

SELF-ADHERING MEMBRANE
STEP 18B - WINDOWS AND DOORS INSTALLATION - ALTERNATIVE DETAIL

WINDOW INSTALLATION ACCORDING TO CSA A440.4

A 3D VIEW

LOW EXPANSION FOAM SEALANT

MASTERSEAL® NP1™

BACKER ROD

MASTERSEAL® NP1™

BEVELED SILL

LOW EXPANSION FOAM SEALANT

MASTERSEAL® NP1™

FLASH LIQUID FLASHING MEMBRANE

WEATHER RESISTIVE BARRIER

B SECTION

HP+™ FLASH LIQUID FLASHING MEMBRANE

WEATHER RESISTIVE BARRIER

HP+™ WALL SYSTEM X SERIES FIELD ASSEMBLY GUIDE
STEP 19A - INTERIOR INSULATION CORNER DETAILS

WALLTITE® MUST BE INSTALLED, IN ACCORDANCE WITH BASF’S QUALITY ASSURANCE PROGRAM.

WALLTITE® IS INSTALLED BEFORE OR AFTER ELECTRICAL WIRING AND PLUMBING TASKS

NOTE: REFER TO THE BASF HP+™ TECHNICAL INSTALLATION MANUAL AND THE DrJ ENGINEERING TECHNICAL EVALUATION REPORT

WALLTITE® IN THE CORNER

1" x 6" BOARD

2" x 4" OR 2" X 6" BOTTOM PLATE

2" x 4" OR 2" X 6"

NEOPOR® GRAPHITE - ENHANCED EXPANDED POLYSTYRENE SHEATHING

OSB WALL SHEATHING

SEALANT TAPE APPROVED BY BASF CANADA

1" x 4" STRAPPING

SEALANT TAPE APPROVED BY BASF CANADA

WALLTITE® IN THE CORNER

1" x 6" BOARD

2" x 4" OR 2" X 6"

MASTERSEAL® NP1™ SEALANT OR 1/2" OR 1" FOAM SEALANT TAPE

SEALANT TAPE APPROVED BY BASF CANADA

WALLTITE® IN THE CORNER

1" x 4" STRAPPING

SEALANT TAPE APPROVED BY BASF CANADA

WALLTITE® IN THE CORNER

1" x 6" BOARD

2" x 4" OR 2" X 6"

MASTERSEAL® NP1™ SEALANT OR 1/2" OR 1" FOAM SEALANT TAPE

SEALANT TAPE APPROVED BY BASF CANADA

WALLTITE® IN THE CORNER

1" x 4" STRAPPING

SEALANT TAPE APPROVED BY BASF CANADA

WALLTITE® IN THE CORNER

1" x 6" BOARD

2" x 4" OR 2" X 6"

MASTERSEAL® NP1™ SEALANT OR 1/2" OR 1" FOAM SEALANT TAPE

SEALANT TAPE APPROVED BY BASF CANADA

WALLTITE® IN THE CORNER

1" x 4" STRAPPING

SEALANT TAPE APPROVED BY BASF CANADA

WALLTITE® IN THE CORNER

1" x 6" BOARD

2" x 4" OR 2" X 6"

MASTERSEAL® NP1™ SEALANT OR 1/2" OR 1" FOAM SEALANT TAPE

SEALANT TAPE APPROVED BY BASF CANADA

WALLTITE® IN THE CORNER

1" x 4" STRAPPING

SEALANT TAPE APPROVED BY BASF CANADA

WALLTITE® IN THE CORNER

1" x 6" BOARD

2" x 4" OR 2" X 6"

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SEALANT TAPE APPROVED BY BASF CANADA

WALLTITE® IN THE CORNER

1" x 4" STRAPPING

SEALANT TAPE APPROVED BY BASF CANADA

WALLTITE® IN THE CORNER

1" x 6" BOARD

2" x 4" OR 2" X 6"

MASTERSEAL® NP1™ SEALANT OR 1/2" OR 1" FOAM SEALANT TAPE

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WALLTITE® IN THE CORNER

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SEALANT TAPE APPROVED BY BASF CANADA

WALLTITE® IN THE CORNER

1" x 4" STRAPPING

SEALANT TAPE APPROVED BY BASF CANADA

WALLTITE® IN THE CORNER

1" x 6" BOARD

2" x 4" OR 2" X 6"

MASTERSEAL® NP1™ SEALANT OR 1/2" OR 1" FOAM SEALANT TAPE

SEALANT TAPE APPROVED BY BASF CANADA

WALLTITE® IN THE CORNER

1" x 4" STRAPPING

SEALANT TAPE APPROVED BY BASF CANADA

HP+™ WALL SYSTEM X SERIES FIELD ASSEMBLY GUIDE
STEP 19C - INTERIOR INSULATION: SECOND FLOOR WALLS AND HEADERS

3D VIEW

SECTION

HP+™ WALL SYSTEM X SERIES FIELD ASSEMBLY GUIDE

We create chemistry
VARIOUS DETAILS: 1- KNEE WALL

A 3D VIEW

B SECTION

MASTERSEAL® NP1™ SEALANT OR 1/2" OR 1" FOAM SEALANT TAPE

SEALANT TAPE APPROVED BY BASF CANADA

HP+™ WALL SYSTEM X SERIES FIELD ASSEMBLY GUIDE
VARIOUS DETAILS:
2- CANTILEVERED FLOOR

B 3D VIEW

MASTERSERL® NP1™ SEALANT OR 1/2" OR 1" FOAM SEALANT TAPE

A SECTION

MASTERSERL® NP1™ SEALANT OR 1/2" OR 1" FOAM SEALANT TAPE

HP+™ WALL SYSTEM X SERIES FIELD ASSEMBLY GUIDE
VARIOUS DETAILS:
3- CANTILEVERED FLOOR ON BEAM

- MASTERSEAL® NP1™ SEALANT OR 1/2" OR 1" FOAM SEALANT TAPE
- SELF-ADHERING MEMBRANE

SECTION

INTERIOR

EXTERIOR

3D VIEW
NOTE:
ALL EXPOSED FOAM PLASTIC INSULATION MUST BE COVERED WITH A THERMAL BARRIER APPROVED BY CODE.
VARIOUS DETAILS: 5- RAISED HEEL ROOF TRUSS

3D VIEW

SECTION

OSB AND NEOPOR®
UP TO THE SOFFIT

VAPOUR BARRIER*

MASTERSEAL® NP1™
SEALANT OR 1/2" OR 1"
FOAM SEALANT TAPE

*AS REQUIRED BY CODE