HIGH PERFORMANCE WALL : R SERIES - CANADA

PATENT PENDING

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 : R SERIES - CANADA

PATENT PENDING

WALL COMPONENTS

- EXTERIOR CLADDING
- 2" X 3" VERT. STRAPPING @ 16" C/C OR 24" C/C
- 1" THICK WALLTITE[®] SPRAYED ONTO SURFACE OF NEOPOR[®] SHEATHING
- * SHEATHING:
- 1" THICK NEOPOR® GRAPHITE ENHANCED EXPANDED POLYSTYRENE INSULATION (1.35 LB/FT³ MINIMUM DENSITY) - 2" X 4" STUDS @ 16" C/C OR 24" C/C
- INSULATION BETWEEN STUDS BASED ON REQUIRED "R" VALUE
- 1/2" GYPSUM BOARD

TYPICAL WALL NOMINAL R VALUE

TO VALIDATE ACCORDING TO THE WALL COMPOSITION

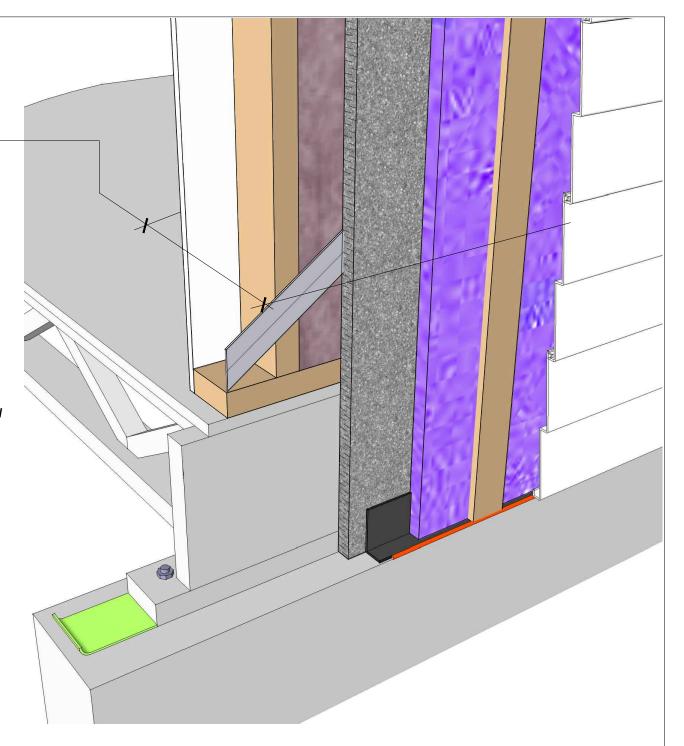
* SHEATHING CAN BE:

- MINIMUM 1" OF NEOPOR[®];
- 0.8" EXTRUDED POLYSTYRENE (XPS);
- 1/2" GYPSUM BOARD;
- 7/16" ASPHALT FIBERBOARD;
- 1/4" OSB;
- 1" EXPANDED POLYSYRENE (EPS) TYPE II;
- 7/16" NATURAL FIBERBOARD.

IMPORTANT:

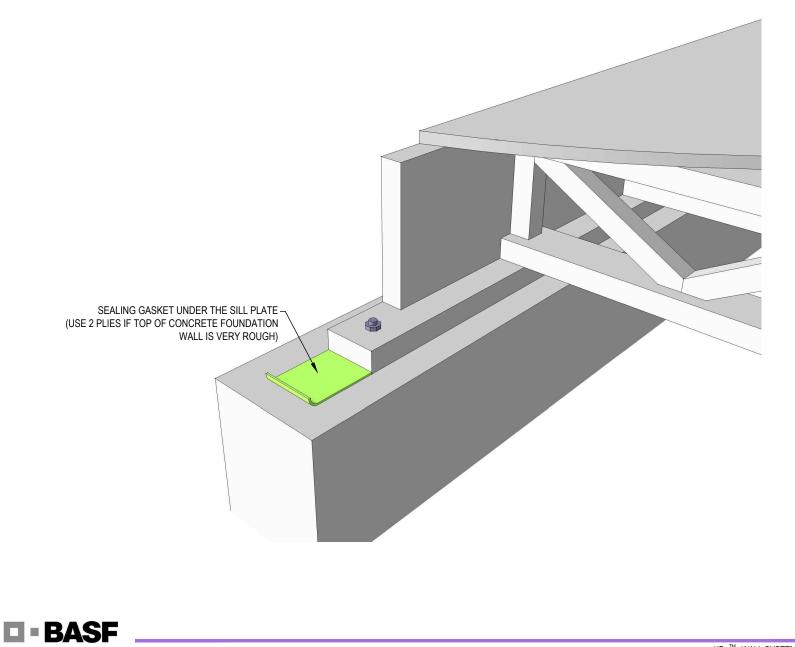
RATING AND THICKNESS OF THE SHEATHING TO BE AS PER ARTICLE 9.23.17.2 OF NBC 2015, IF EXTERIOR CLADDING REQUIRES INTERMEDIATE FASTENING BETWEEN SUPPORTS (STUDS).





STEP 1 - FLOOR ASSEMBLY

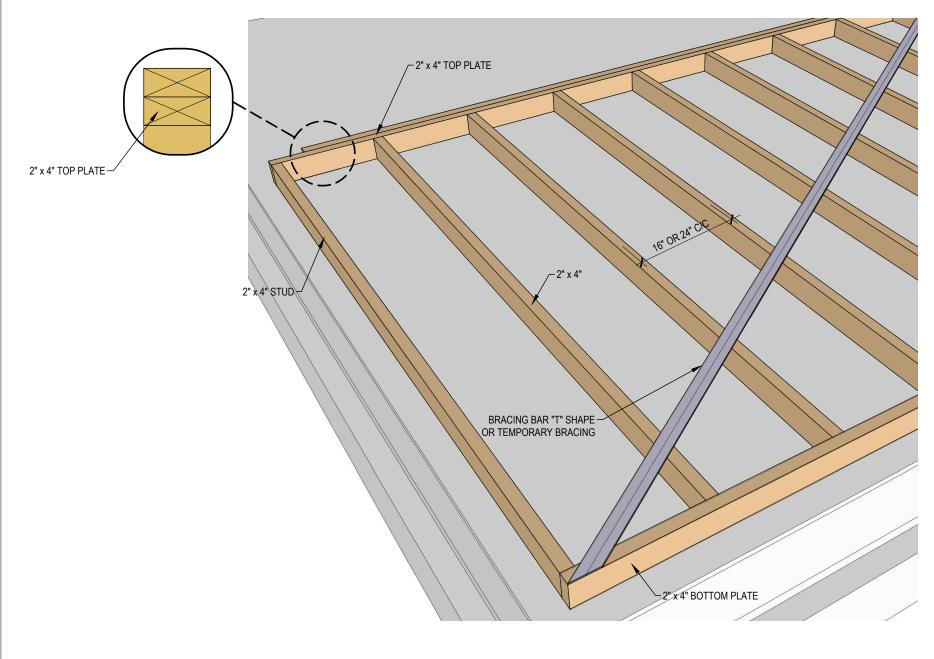
ENSURE SEAL OF ALL FLOOR FRAMING COMPONENTS ANCHORED TO FOUNDATION WALL



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STEP 2 - WALL FRAMING

FIRST WALL FRAMING ASSEMBLY



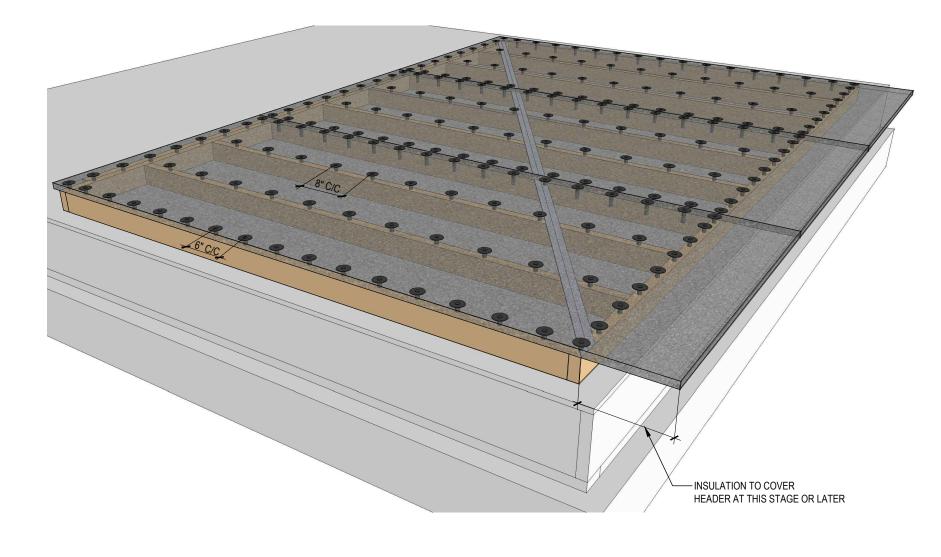


STEP 3A- EXTERIOR INSULATION

INSTALL NEOPOR® GRAPHITE - ENHANCED EXPANDED POLYSTYRENE INSULATING SHEATHING

NOTE:

FOR SHEATHING FASTENERS AND SPACING REFER TO THE BASF HP+[™] TECHNICAL INSTALLATION MANUAL AND THE DrJ ENGINEERING TECHNICAL EVALUATION REPORT

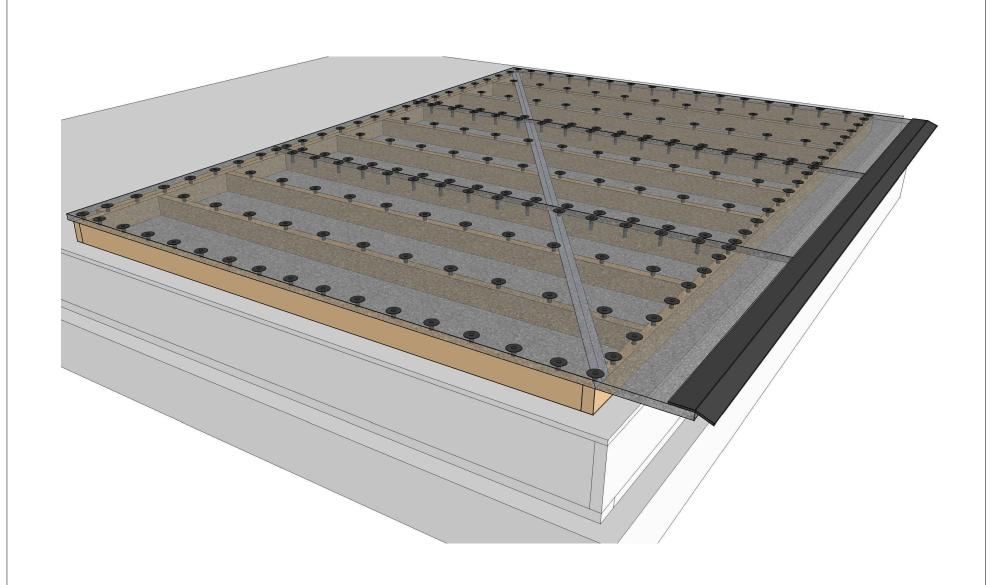




HP+[™] WALL SYSTEM *R SERIES* FIELD ASSEMBLY GUIDE

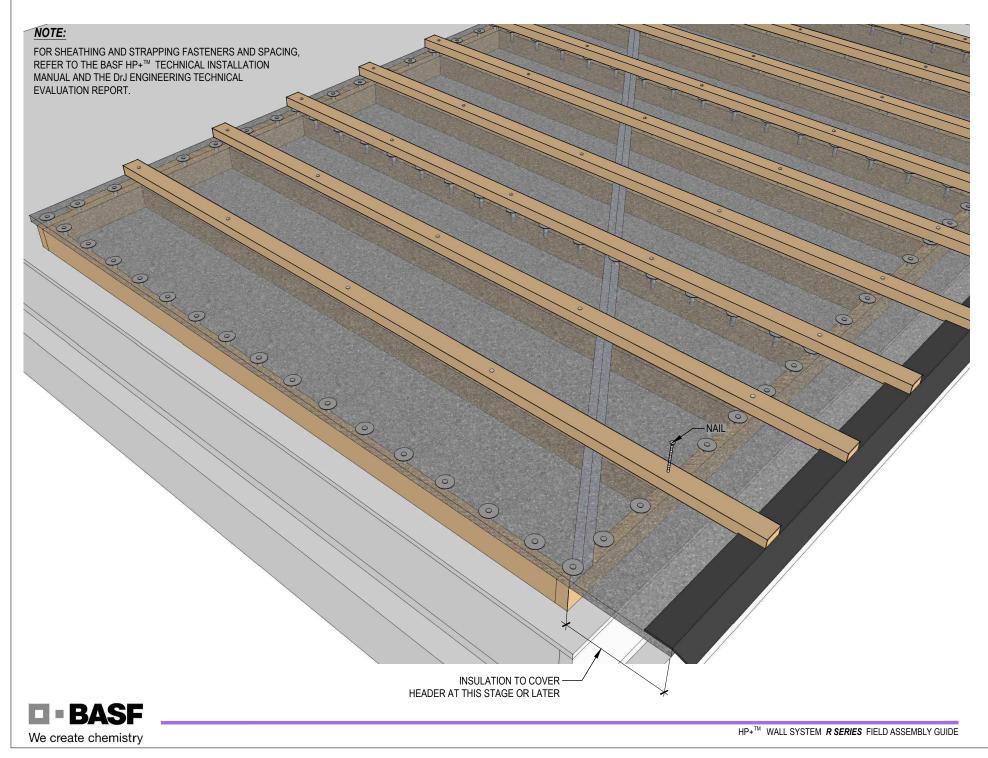
STEP 3B - SEALING

INSTALL TRANSITION MEMBRANE APPROVED BY BASF





STEP 4A - STRAPPING INSTALLATION

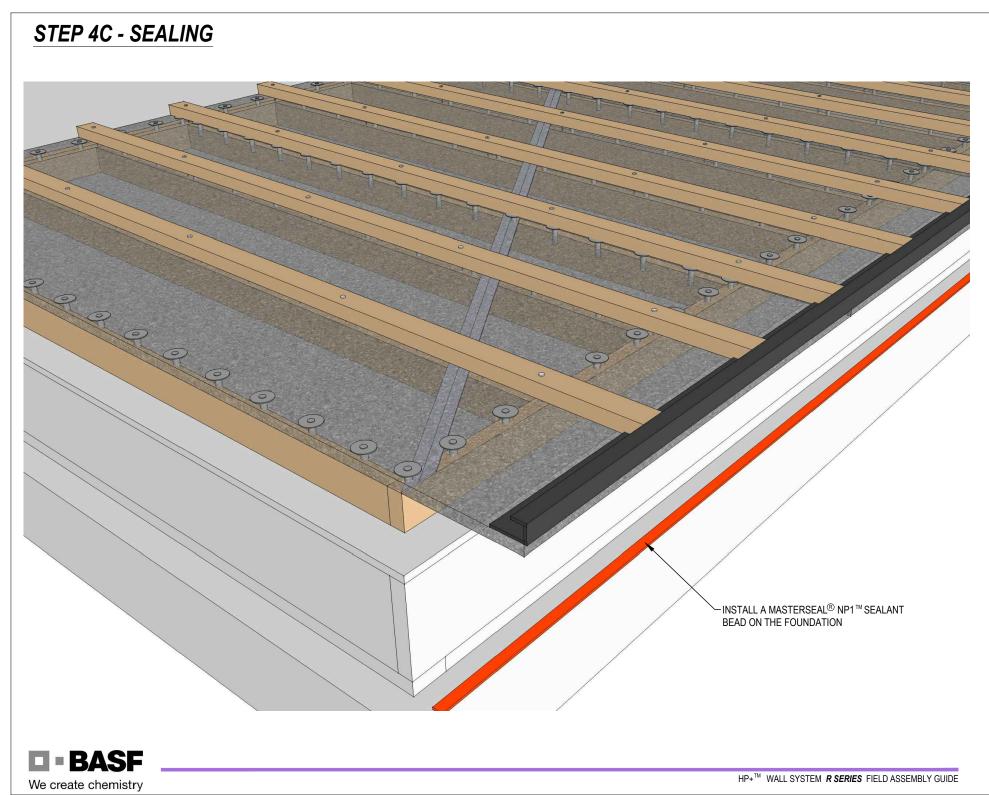


STEP 4B - SEALING

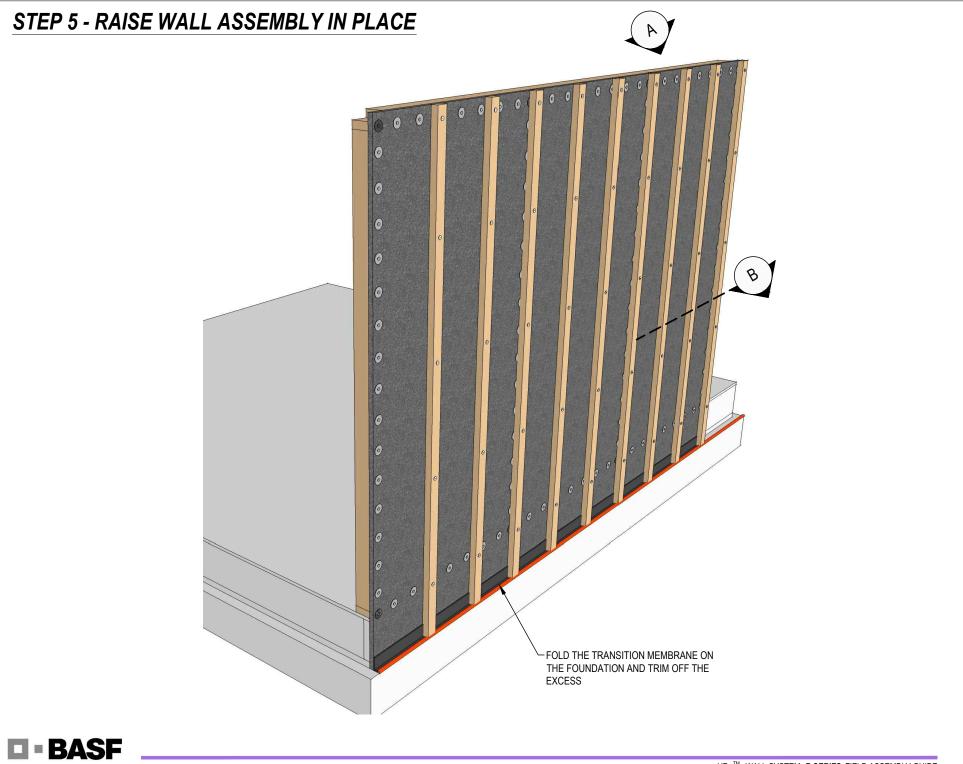
FOLD THE MEMBRANE ON THE FURRING STRIPS



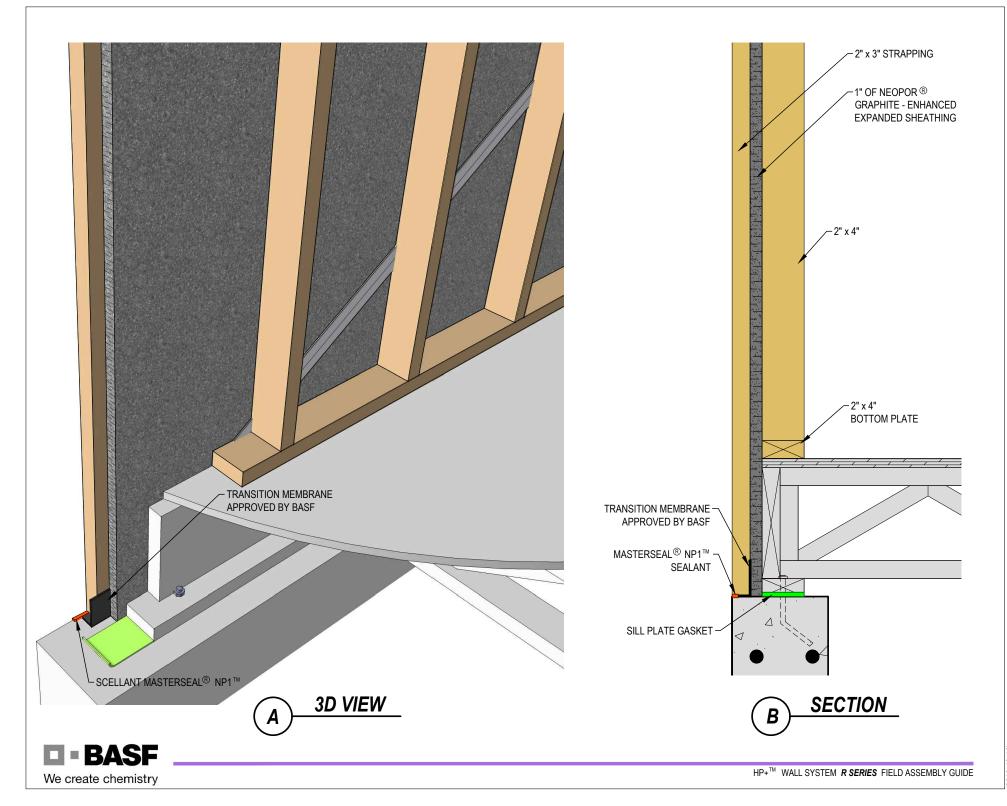




(2019-10-21)



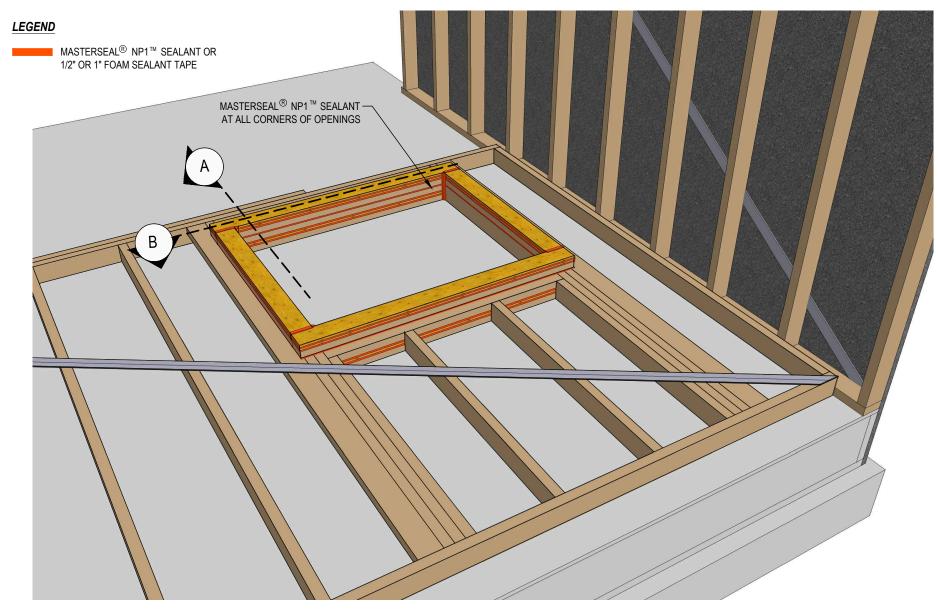
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STEP 6A - WALL FRAMING WITH OPENING

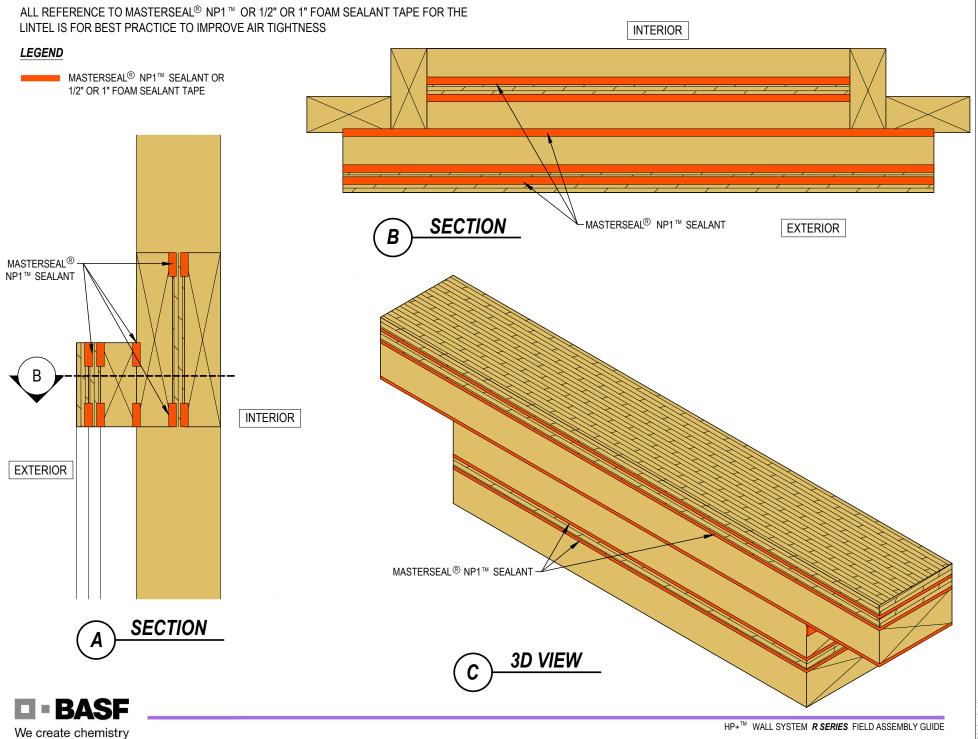
SECOND WALL FRAMING AND ASSEMBLY

APPLY MASTERSEAL[®] NP1[™] SEALANT AT ALL CORNERS OF OPENINGS



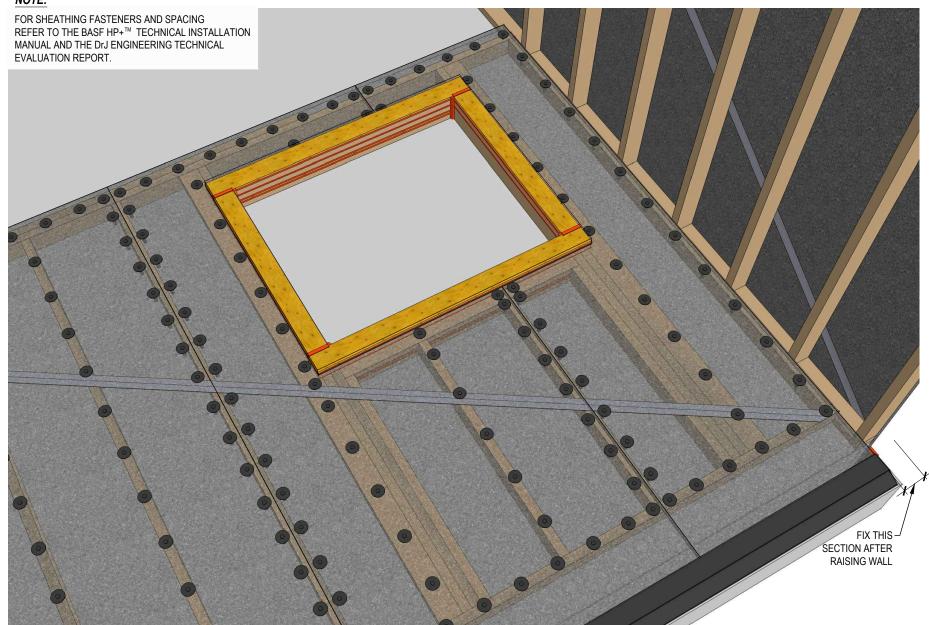


STEP 6B - LINTEL DETAILS



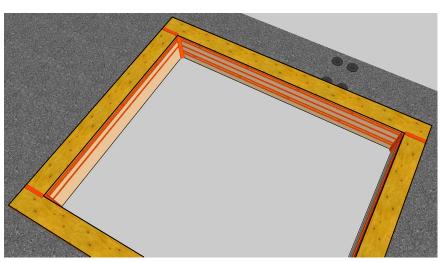
STEP 7 - EXTERIOR INSULATION AND SEALING

INSTALL NEOPOR[®] GRAPHITE - ENHANCED EXPANDED POLYSTYRENE SHEATHING AND TRANSITION MEMBRANE APPROVED BY BASF **NOTE**:

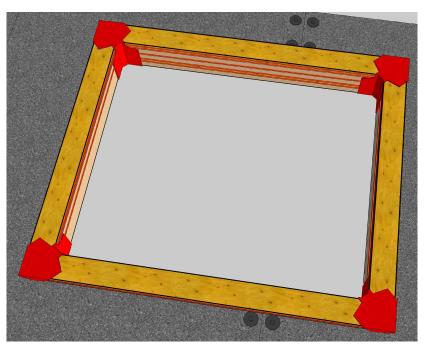




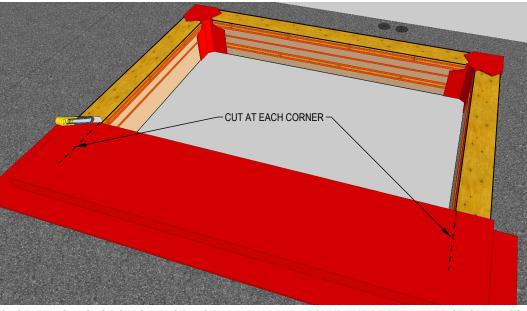
STEP 8 - AIR / WATER TIGHTNESS OF OPENINGS



A - ENSURE THAT MASTERSEAL[®] NP1[™] SEALANT HAS BEEN INSTALLED IN ALL CORNERS OF OPENINGS



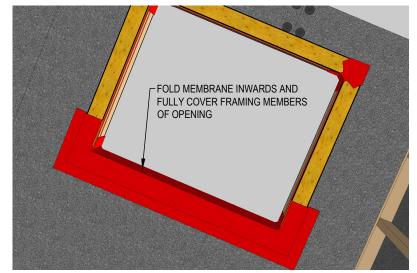
B - INSTALL AIR BARRIER AND WATERPROOFING MEMBRANE AT EACH CORNER, COVERING SEALANT INSTALLED AT STEP 6A



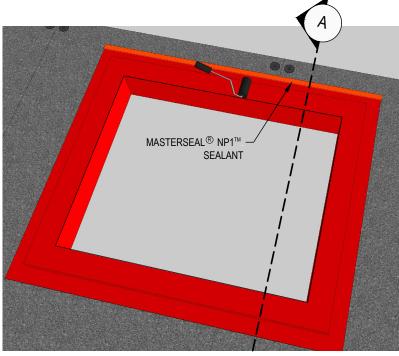
C - STARTING ALONG BOTTOM EDGE, INSTALL MEMBRANE AROUND ENTIRE PERIMETER OF OPENINGS



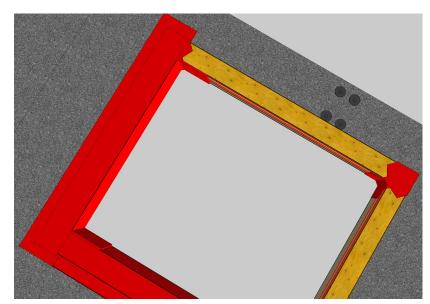
STEP 8 - AIR / WATER TIGHTNESS OF OPENINGS



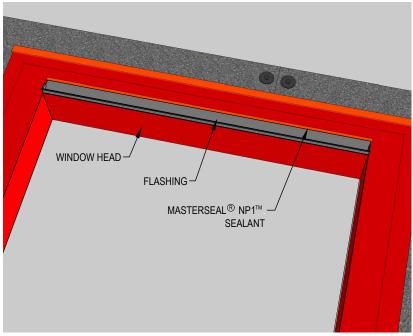
D - FOLD MEMBRANE INTO OPENING



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



E - INSTALL MEMBRANE ALONG VERTICAL EDGES OF OPENINGS

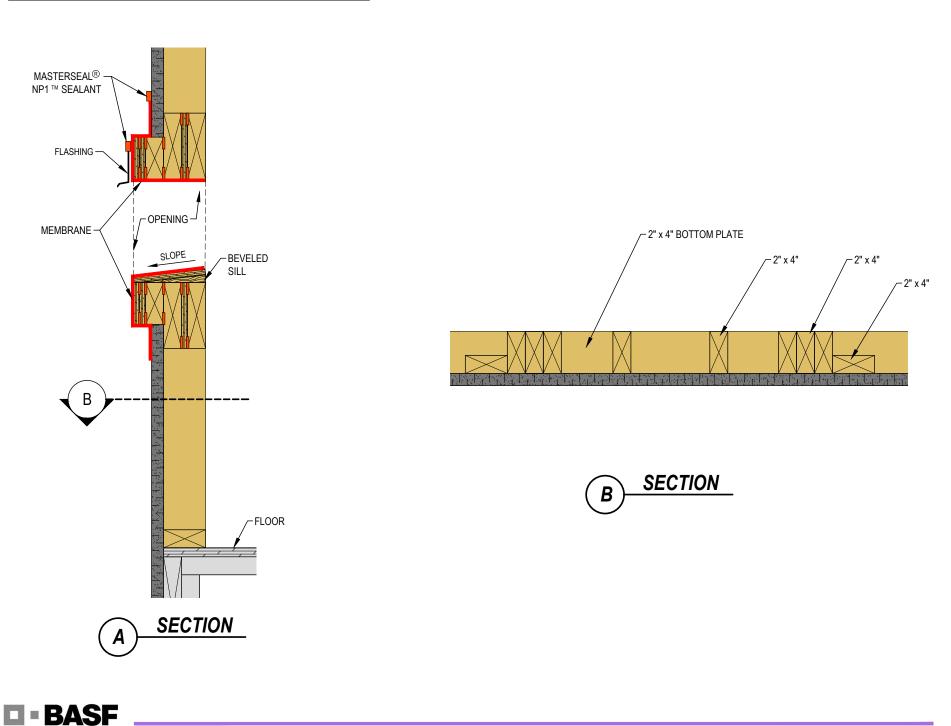


G - INSTALL THE WINDOW HEAD FLASHING



STEP 9 - WALL AND OPENING DETAILS

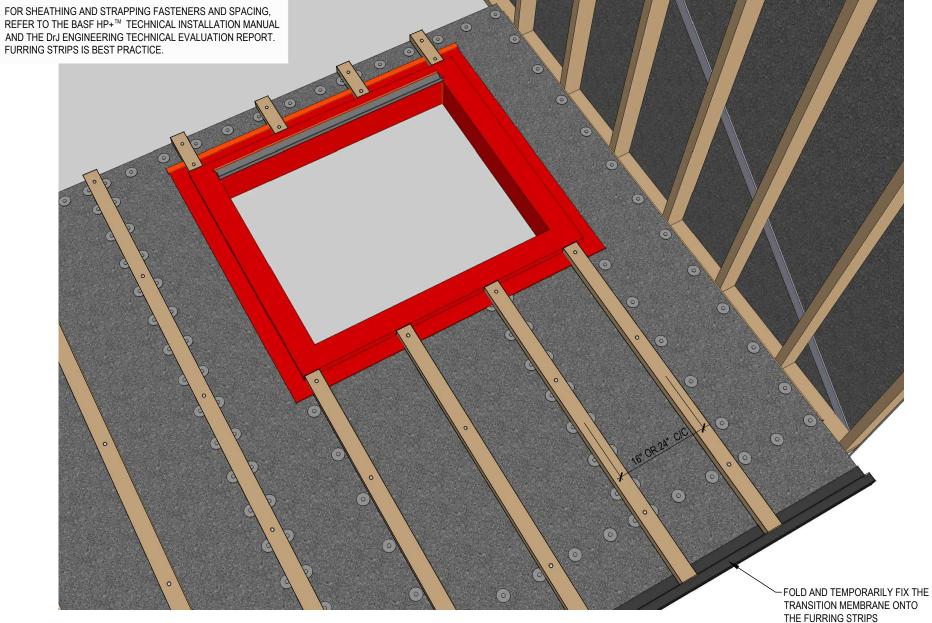
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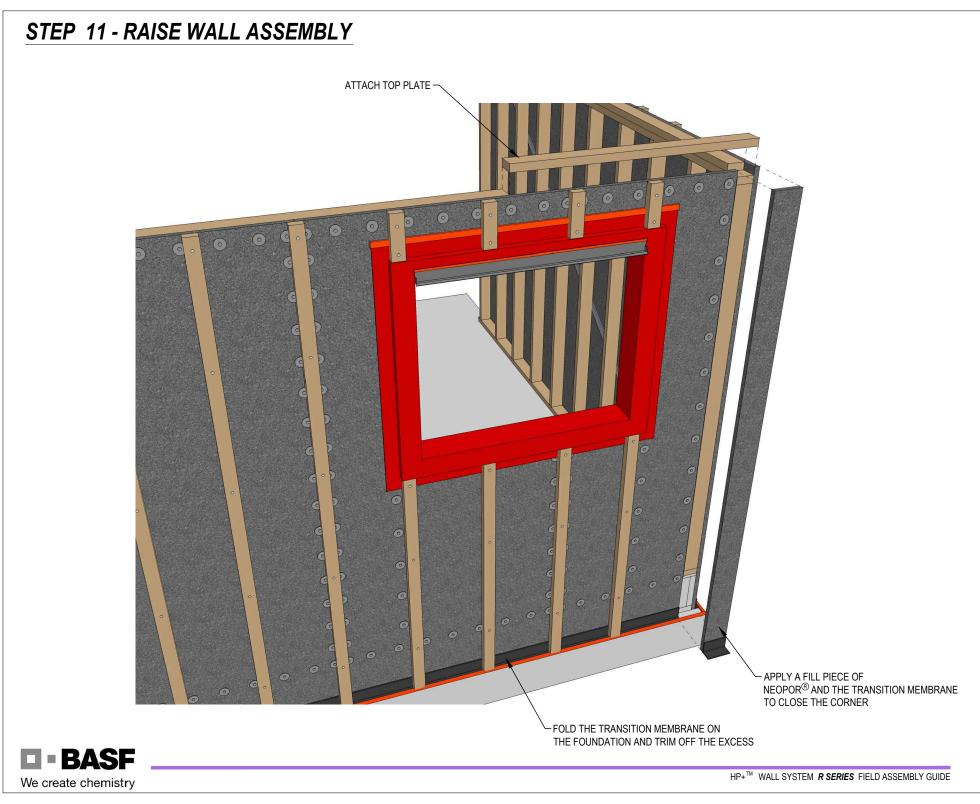
STEP 10 - STRAPPING INSTALLATION AROUND WINDOWS

(SEE STEP #4)

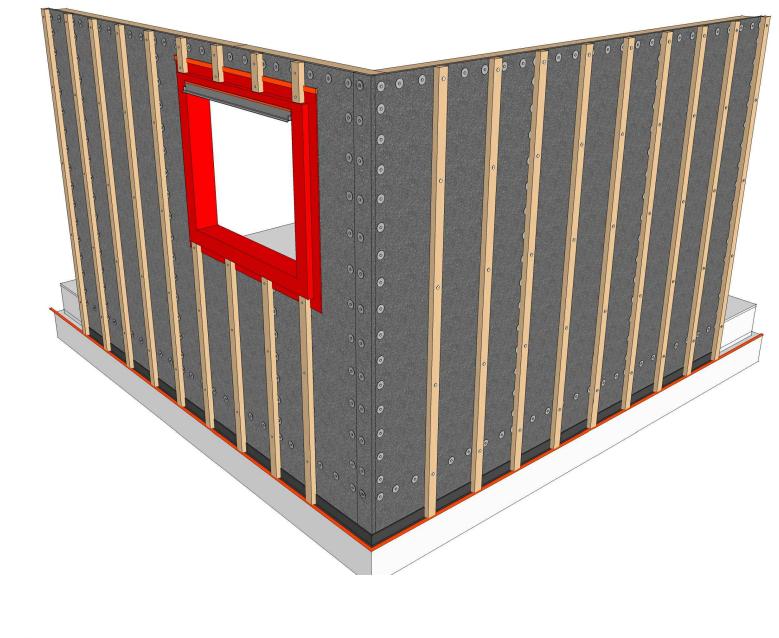
NOTE:



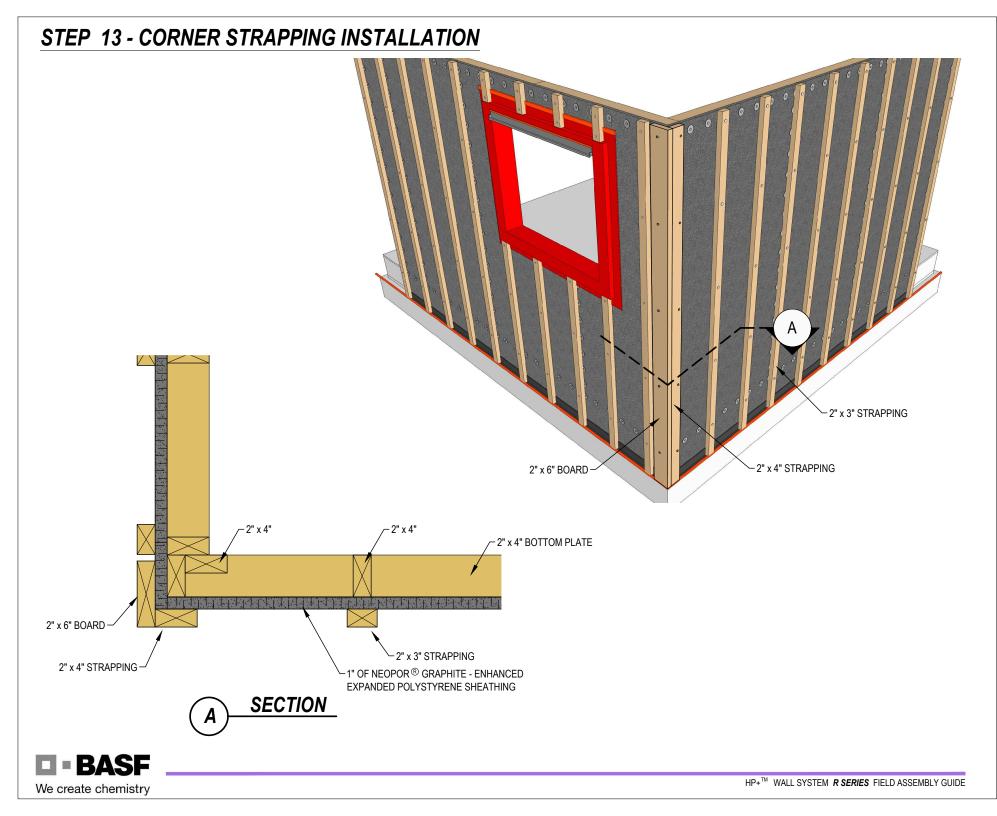




STEP 12 - CORNER VIEW OF INSTALLED WALLS

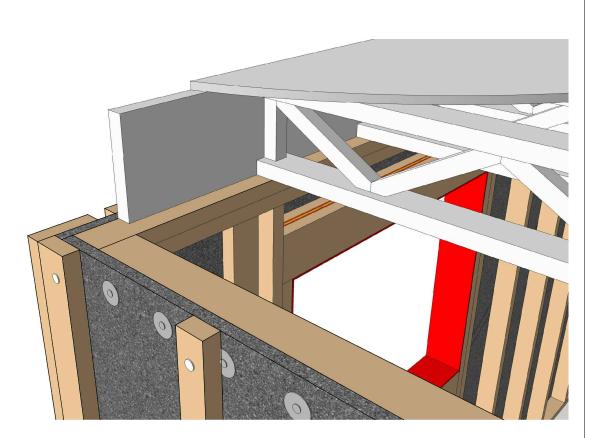


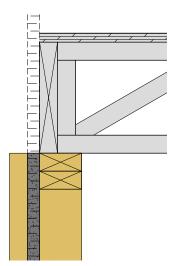




STEP 14 - SECOND FLOOR ASSEMBLY

ENSURE SEAL OF ALL FLOOR FRAMING COMPONENTS USING MASTERSEAL[®] NP1[™] SEALANT OR 1/2" OR 1" FOAM SEALANT TAPE





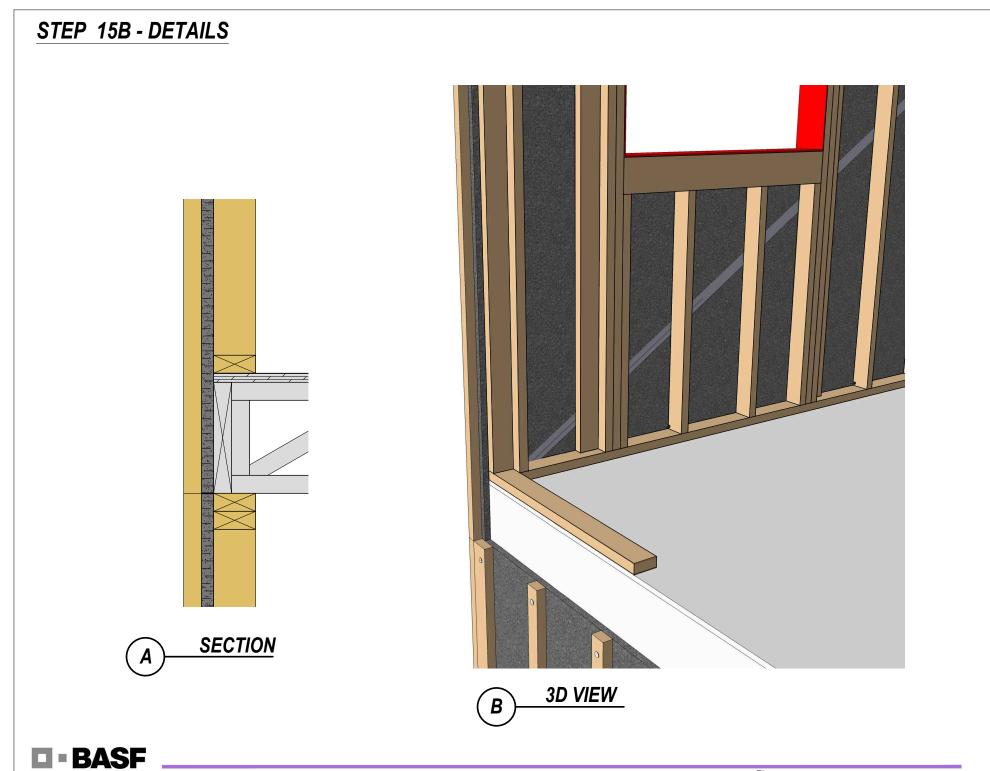


STEP 15A - BUILD AND POSITION SECOND FLOOR WALLS AND ROOF

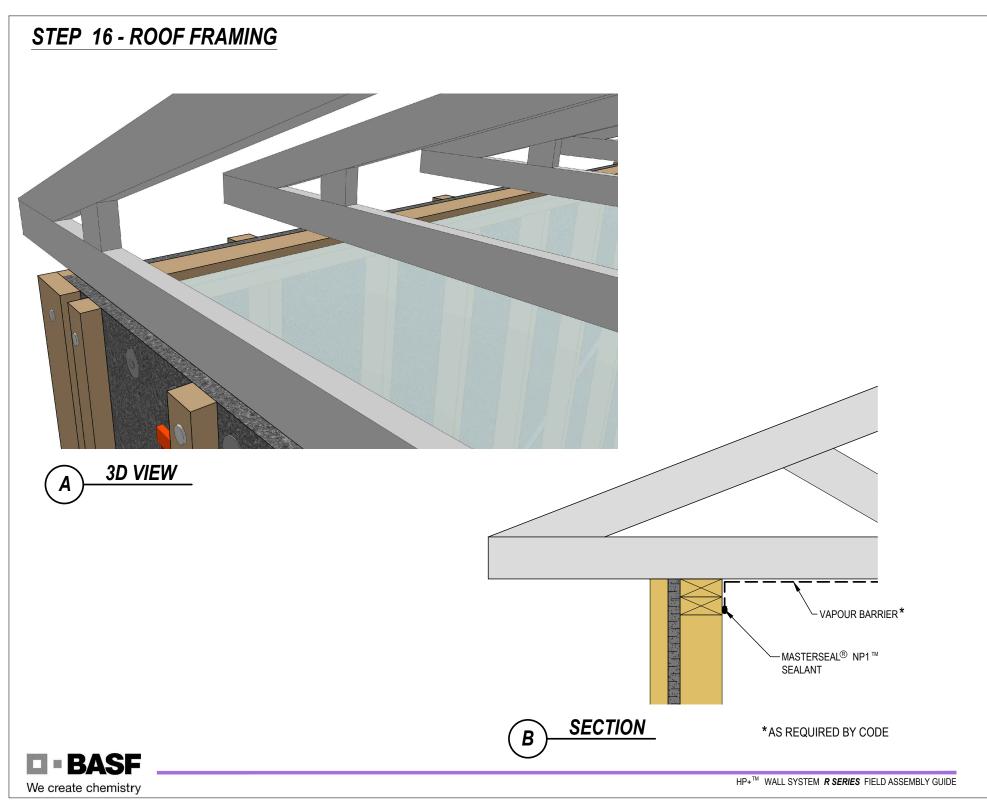
(SEE STEPS 2 TO 14)





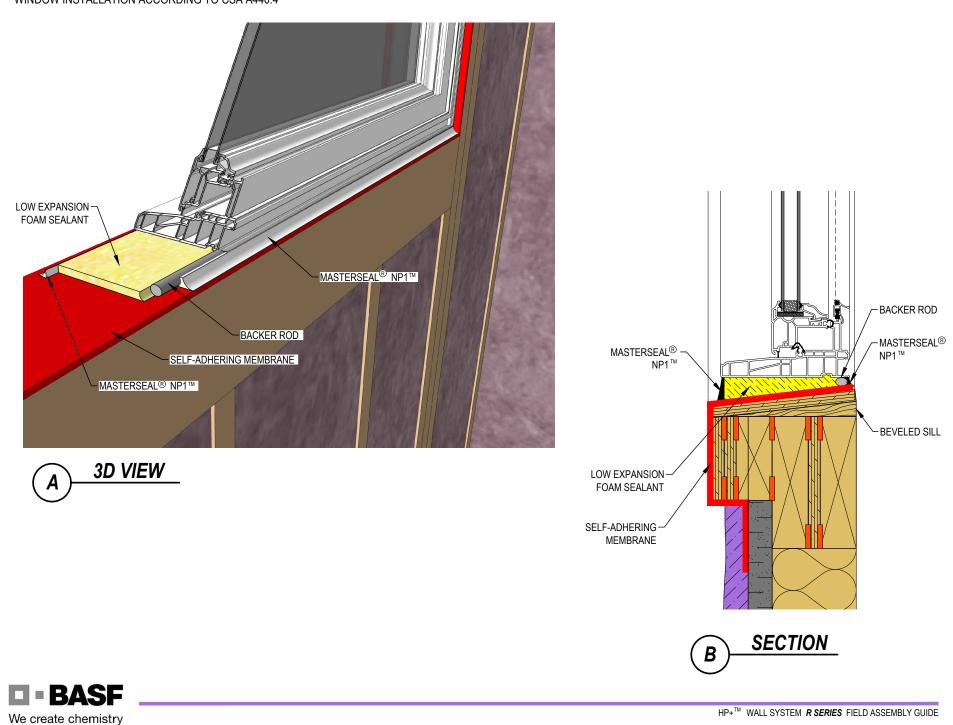


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STEP 17 - WINDOWS AND DOORS INSTALLATION

WINDOW INSTALLATION ACCORDING TO CSA A440.4



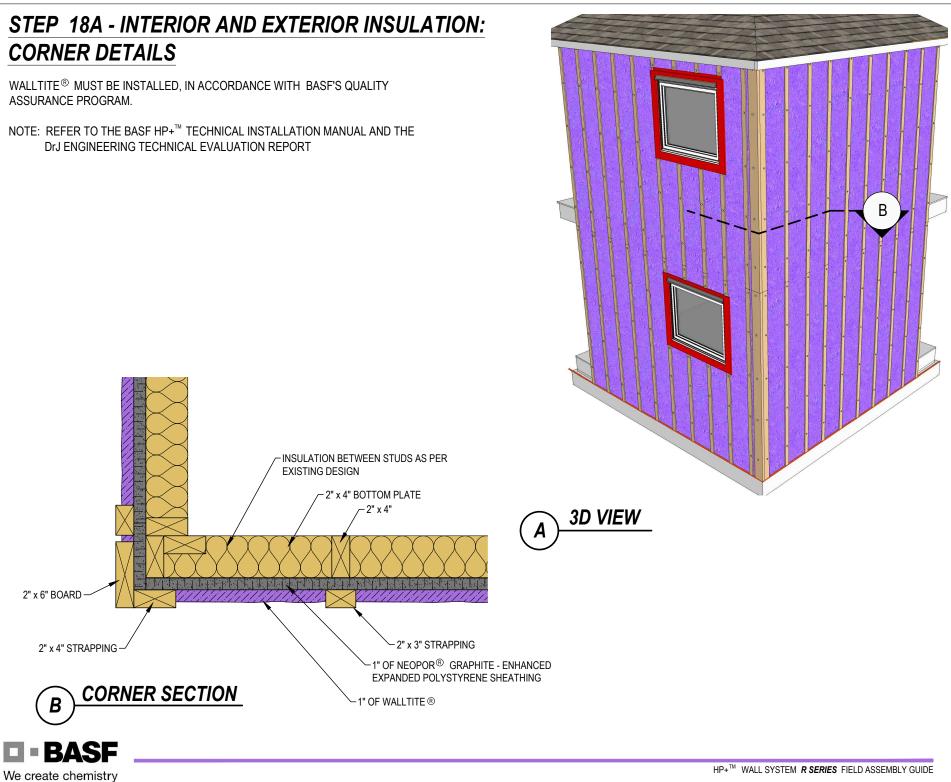
STEP 18A - INTERIOR AND EXTERIOR INSULATION: CORNER DETAILS

WALLTITE[®] MUST BE INSTALLED, IN ACCORDANCE WITH BASF'S QUALITY ASSURANCE PROGRAM.

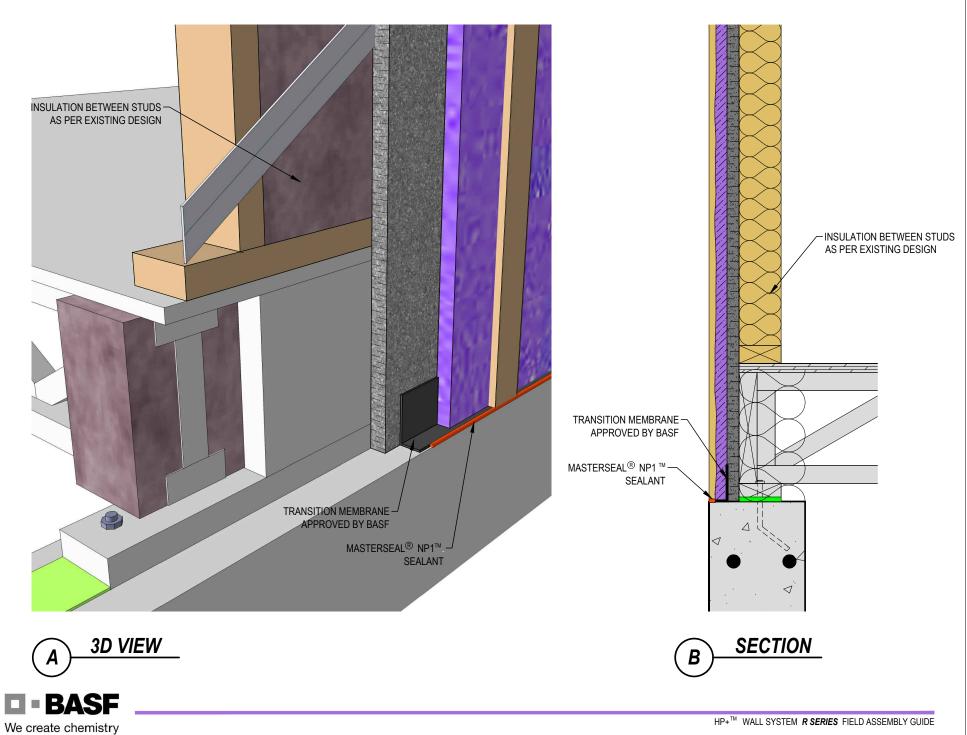
2" x 6" BOARD

В

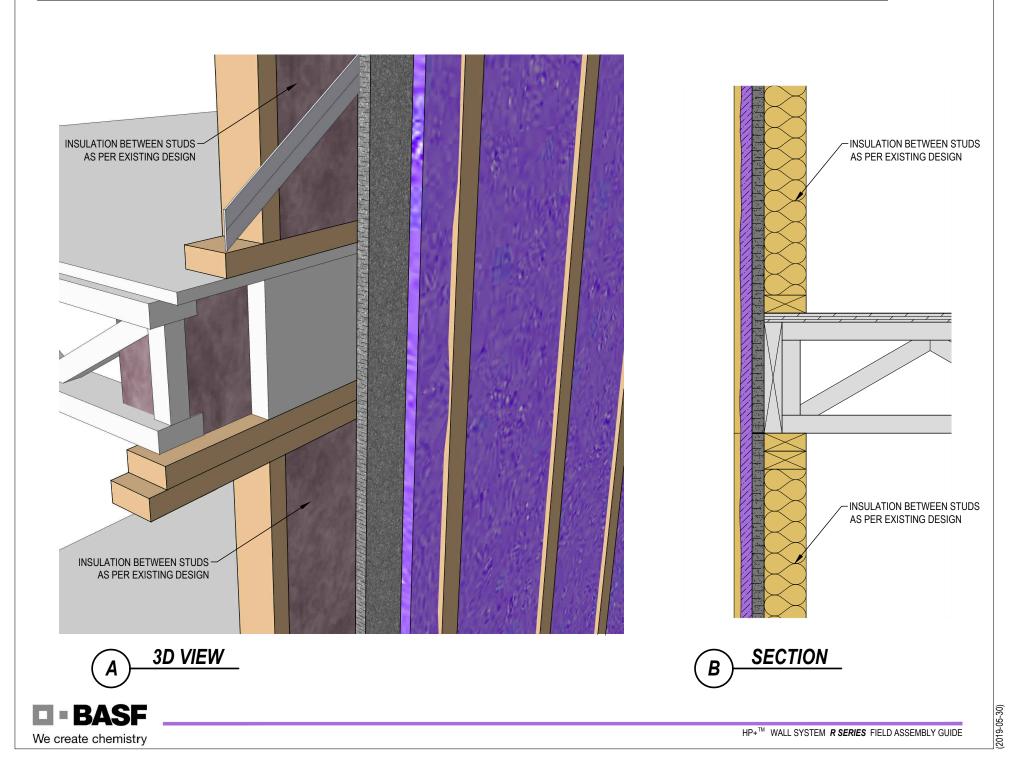
NOTE: REFER TO THE BASF HP+[™] TECHNICAL INSTALLATION MANUAL AND THE DrJ ENGINEERING TECHNICAL EVALUATION REPORT



STEP 18B - INTERIOR AND EXTERIOR INSULATION: FIRST FLOOR WALLS AND HEADERS

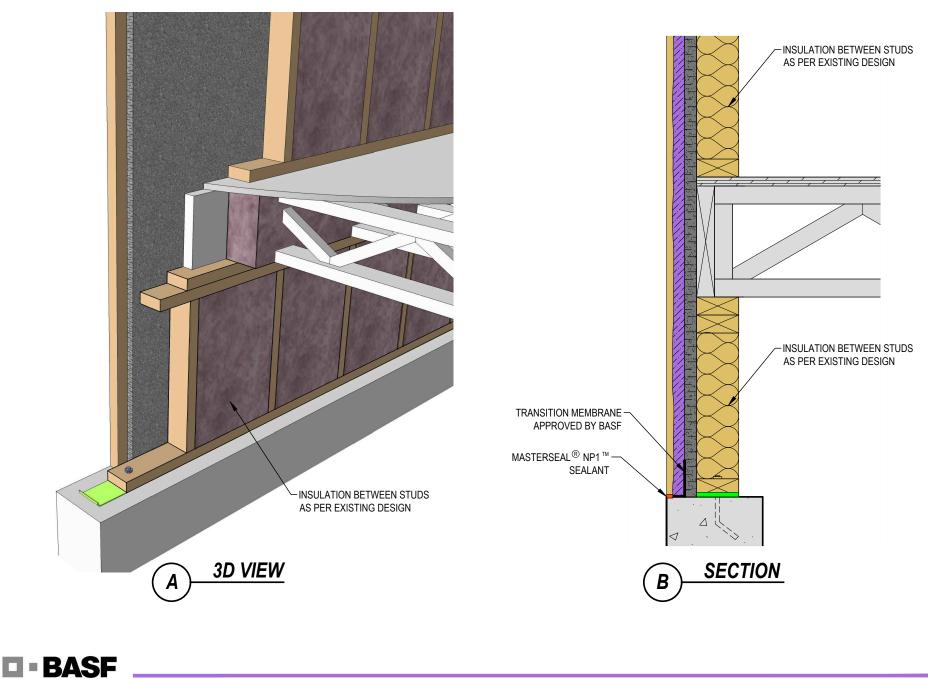


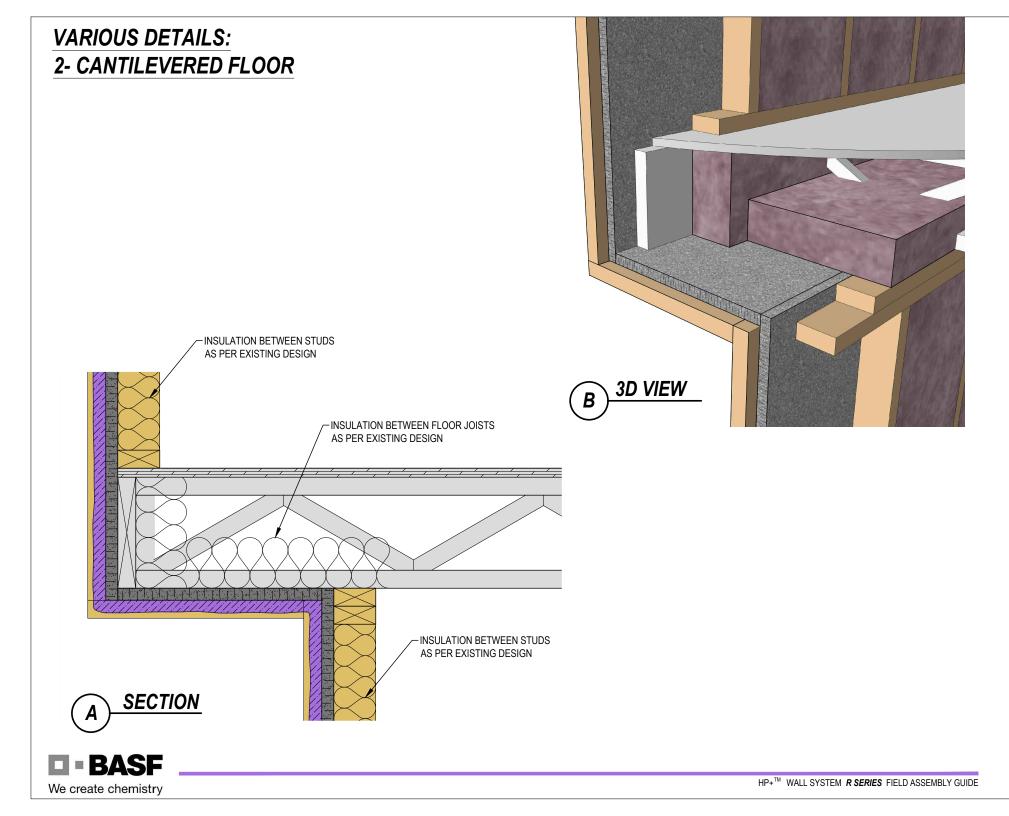
STEP 18C - INTERIOR AND EXTERIOR INSULATION: SECOND FLOOR WALLS AND HEADERS



VARIOUS DETAILS: 1- KNEE WALL

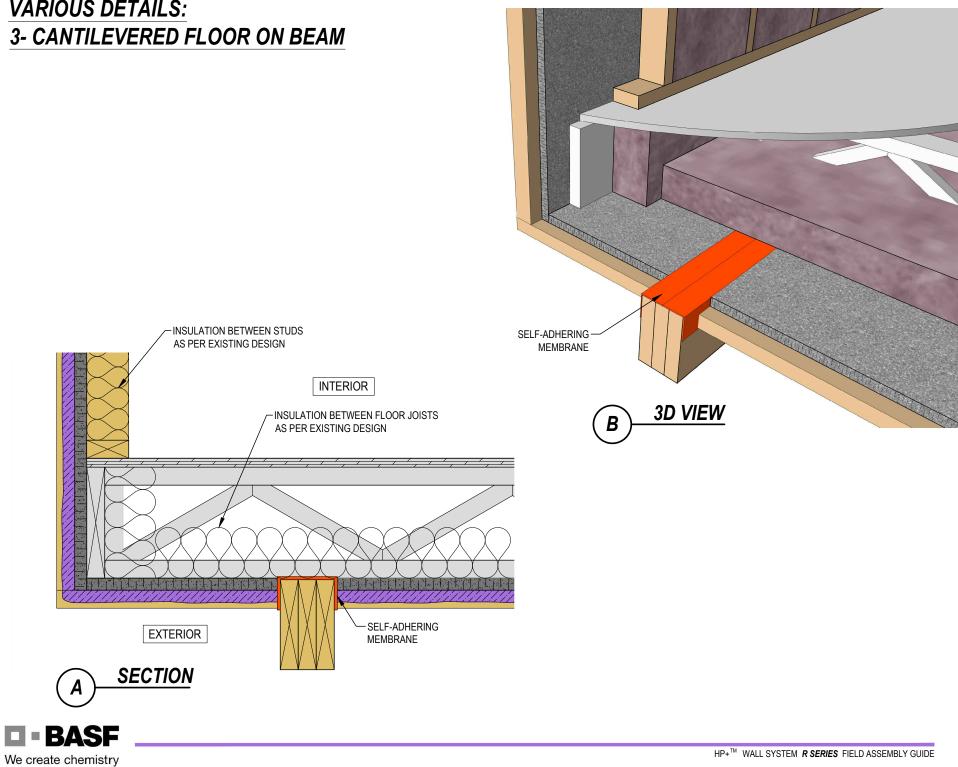
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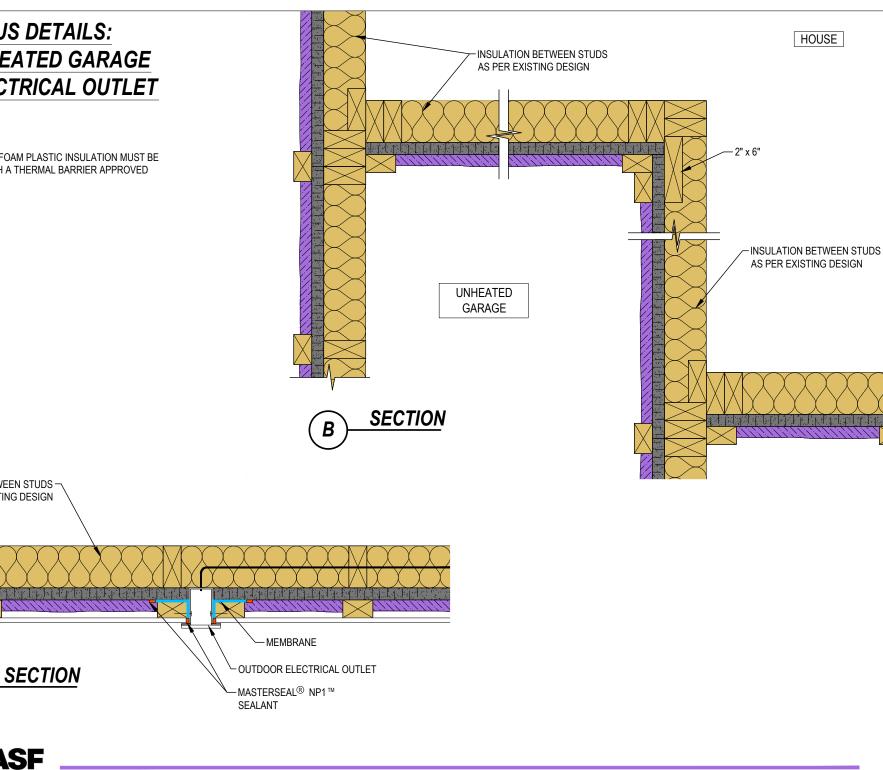
VARIOUS DETAILS:



VARIOUS DETAILS: **4- UNHEATED GARAGE** ELECTRICAL OUTLET

NOTE:

ALL EXPOSED FOAM PLASTIC INSULATION MUST BE COVERED WITH A THERMAL BARRIER APPROVED BY CODE

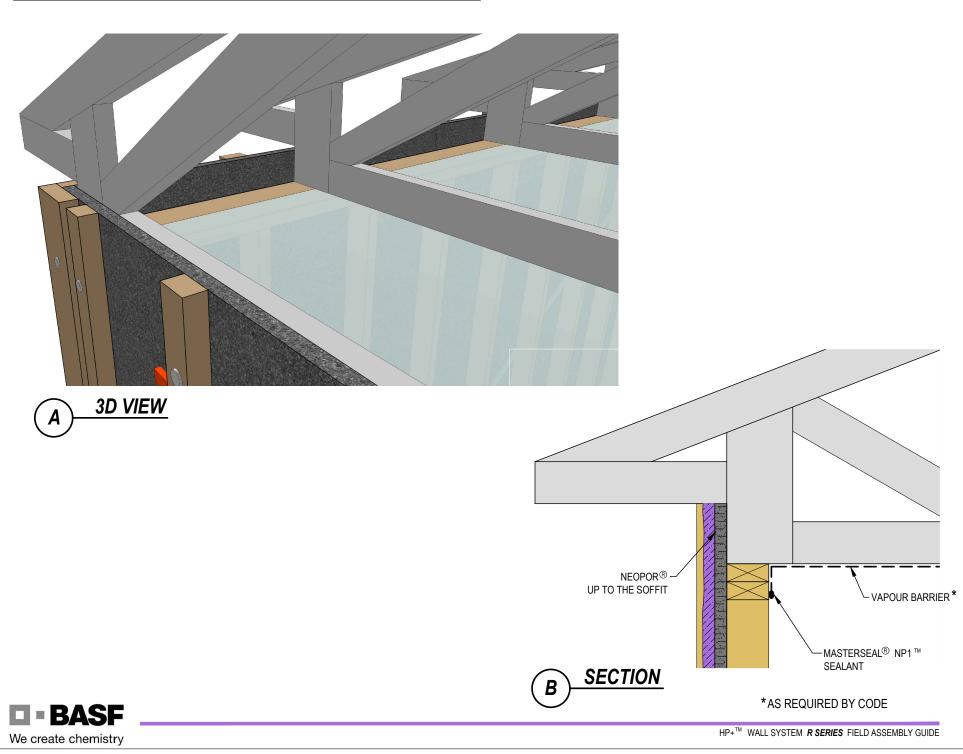


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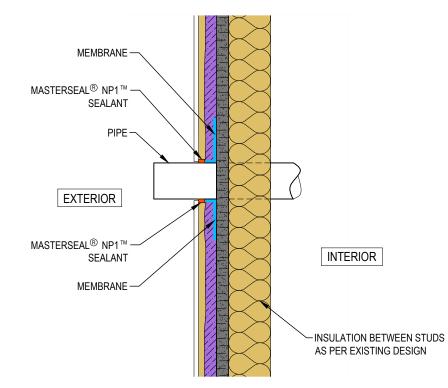
BASF

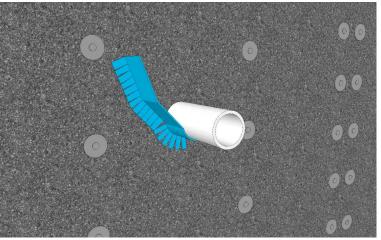
INSULATION BETWEEN STUDS -AS PER EXISTING DESIGN

VARIOUS DETAILS: 5- RAISED HEEL ROOF TRUSS

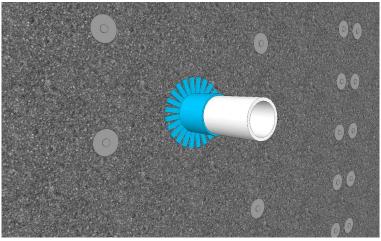


VARIOUS DETAILS: 6- SEALING AROUND WALL PENETRATIONS





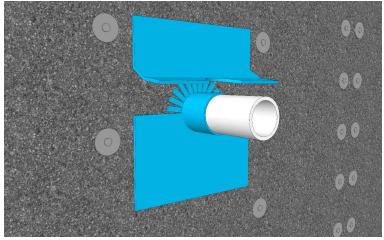
A - INSTALL A TRANSITION MEMBRANE AROUND THE PIPE. CUT THE EDGE OF THE MEMBRANE TO ENSURE THE MEMBRANE IS WELL ADHERED TO THE WALL AND ALONG THE PERIMETER OF THE PIPE. NOTE: INSTALL THE MEMBRANE STARTING FROM THE BOTTOM OF THE PIPE.



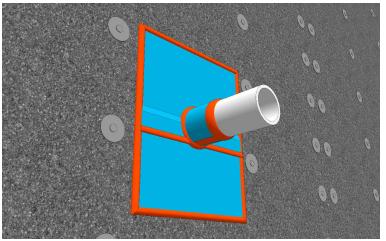
B - ENSURE THE MEMBRANE IS WELL ADHERED TO THE WALL AND ALONG THE ENTIRE PERIMETER OF THE PIPE



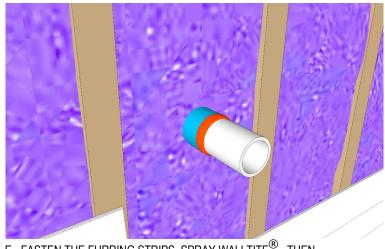
VARIOUS DETAILS: 6- SEALING AROUND WALL PENETRATIONS



C - INSTALL A MEMBRANE ON THE WALL TO COVER THE LOWER HALF OF THE PIPE.



D - INSTALL A SECOND MEMBRANE ON THE WALL TO COVER THE UPPER PART OF THE PIPE AND OVERLAP WITH THE LOWER MEMBRANE. SEAL THE PERIMETER AND ALL THE MEMBRANE JOINTS.



E - FASTEN THE FURRING STRIPS, SPRAY WALLTITE[®], THEN INSTALL THE VINYL SIDING.

