

ZIP SYSTEM® R-SHEATHING, CLADDING DETAILS

ZIP SYSTEM® R-SHEATHING GENERAL NOTES

ZIP SYSTEM® R-SHEATHING PANELS ARE INSULATED STRUCTURAL SHEATHING PANELS WITH AN INTEGRATED WATER-RESISTIVE BARRIER AND AIR BARRIER. THE PANELS CONSISTS OF A 7/16" WOOD STRUCTURAL PANEL WITH A LAYER OF RIGID FOAM INSULATION BONDED TO THE INTERIOR FACE. ZIP SYSTEM® R-SHEATHING IS CODE RECOGNIZED IN ICC-ES ESR-3373 AS AN ALTERNATE TO THE WATER-RESISTIVE BARRIER REQUIRED IN CHAPTER 14 OF THE IRC AND CHAPTER 7 OF THE IRC AND SATISFIES THE REQUIREMENTS FOR AIR BARRIERS AS DEFINED IN THE ICC INTERNATIONAL ENERGY CONSERVATION CODE. THE RIGID POLYISOCYANURATE FOAM PLASTIC COMPLES WITH THE ICC-ES ACCEPTANCE CRITERIA FOR FOAM PLASTIC INSULATION (AC12). ZIP SYSTEM® R-SHEATHING IS ONLY INTENDED FOR TYPE V CONSTRUCTION.

ZIP SYSTEM® R-SHEATHING IS AVAILABLE WITH A 1/2", 1", 1-1/2" OR 2" THICK FOAM INSULATION PANEL. THE OSB WOOD STRUCTURAL PANEL SUBSTRATE IS AVAILABLE IN 7/16" THICKNESS AND CARRIES THE EXPOSURE 1 BOND CLASSIFICATION. THE 7/16" ZIP SYSTEM® SUBSTRATE SATISFIES THE PROVISIONS OF U.S. DEPARTMENT OF COMMERCE VOLUNTARY PRODUCT STANDARD 2 (PS2) PERFORMANCE STANDARD FOR WOOD-BASED STRUCTURAL-USE PANELS AS SPECIFIED IN SECTION 3.0 OF THE EVALUATION REPORT. R-SHEATHING PANELS MAY BE USED AS BRACED WALL PANELS IN ACCORDANCE WITH BRACING METHOD WSP IN THE 2009, 2012, 2105 AND 2018 IRC. IT MAY ALSO BE USED IN THE CONSTRUCTION OF WOOD-FRAMED SHEAR WALLS, PER 2009, 2012, 2015 AND 2018 IBC. REFER TO TABLE 2 IN ESR-3373 FOR ALLOWABLE SHEAR CAPACITIES FOR ZIP SYSTEM® R-SHEATHING IN SEISMIC DESIGN CATEGORIES A, B AND C. WHEN USED AS STRUCTURAL BRACING IN SDC DO, D1, D2, AND E, PLEASE REFER TO ER-0482. THE ASPECT RATIO FOR ZIP SYSTEM® R-SHEATHING IS CURRENTLY LIMITED TO 2:1 FOR SHEAR WALL APPLICATIONS. THIS ASPECT RATIO LIMITATION ONLY APPLIES TO SHEAR WALLS, NOT PRESCRIPTIVE BRACING METHOD WSP. FASTENER TYPE AND SPACING DO NOT AFFECT THE PERFORMANCE OF ZIP SYSTEM® R-SHEATHING TO FUNCTION AS A WATER-RESISTIVE BARRIER, AIR BARRIER AND EXTERIOR INSULATION. FASTENERS MUST HAVE A MINIMUM 1-1/2" PENETRATION INTO THE WOOD FRAMING WHEN USED AS A BRACING OR SHEAR PANEL.

APPROVED WALL COVERINGS INCLUDE BRICK, VINYL, STONE FIBER CEMENT, WOOD, TRADITIONAL HARD-COAT STUCCO AND ADHERED STONE ON BUILDINGS OF TYPE V CONSTRUCTION AND CONSTRUCTION PERMITTED UNDER THE IRC. REFER TO IRC TABLE R703.15.1 FOR CLADDING WEIGHT REQUIREMENTS.

ZIP SYSTEM® R-SHEATHING IS NOT CODE-RECOGNIZED IN ESR-3373 FOR ROOF APPLICATIONS. DO NOT USE AS ROOF SHEATHING.

FOR COMPATIBLE SEALANT SELECTION, REFERENCE THE TECHNICAL TIP "WINDOW AND DOOR SEALANT COMPATIBILITY WITH ZIP SYSTEM PRODUCTS." ZIP SYSTEM LIQUID FLASH IS FULLY COMPATIBLE WITH ZIP SYSTEM R-SHEATHING.

FOR USE IN FIRE-RATED WALL ASSEMBLIES, ZIP SYSTEM® R-SHEATHING IS RECOGNIZED IN UL DESIGN NO. V302, V303, V318 AND U364. IT MAY NOT BE USED AS A SUBSTITUTE FOR CONVENTIONAL WOOD STRUCTURAL PANELS IN FIRE-RATED WALL ASSEMBLIES SPECIFYING "WOOD STRUCTURAL PANELS."

FASTENING REQUIREMENTS FOR PRESCRIPTIVE BRACING^{1, 2} AND ENGINEERED SHEAR WALL DESIGN³

ZIP System® R-Sheathing Type	FRAMING ⁴		FASTENERS		SHEAR VALUES		
	Nominal Stud Size (in.)	Maximum Stud Spacing (in.)	Fastener Specifications ⁵	Edge/Field Spacing (in.)	Minimum Penetration into Framing (in.)	Allowable Seismic Controlled Shear Values* (plf)	Allowable Wind Controlled Shear Values* (plf)
R-3	2-by-4	24	0.131" shank nails	4/12	1.5	245	343
R-3	2-by-4	24	0.131" shank nails	3/12	1.5	280	393
R-3	2-by-4	16	16ga staples, 7/16" crown, 2" length	3/6	1.0	210	294
R-6	2-by-4	24	0.131" shank nails	4/12	1.5	230	322
R-6	2-by-4	24	16ga staples, 7/16" crown, 2.5" length	3/6	1.0	NA ⁷	NA
R-6	2-by-4	24	0.131" shank nails	3/12	1.5	255	357
R-9	2-by-4	24	0.131" shank nails	3/12	1.5	240	336
R-12	2-by-4	24	0.131" shank nails	3/12	1.5	215	301

For SI: Inch = 25.4mm; 1 pound per foot (plf) = 14.59 N/m.
 1 Prescriptive bracing requirements with Douglas Fir-Larch Framing under the 2015, 2012, and 2009 IRC.
 2 Not approved for use as prescriptive wall bracing where wind design is required by R501.2.1.1.
 3 Engineered shear wall requirements with Douglas Fir-Larch Framing under the 2015, 2012, and 2009 IBC.
 4 For framing with other than Douglas Fir-Larch, the shear value above must be multiplied by the Specific Gravity Adjustment Factor = $(1 - (0.50 - SG))$, where SG=Specific Gravity of the framing lumber in accordance with the ANSI/APA NDS. This adjustment factor must not be greater than 1.
 5 Fasteners must be common nails or equivalent, or staples, of a type generally used to attach wood sheathing.
 6 The sheathings must have a maximum height-to-width aspect ratio of 2:1.
 7 This panel and fastening configuration is only applicable to the prescriptive bracing requirements under the 2015 IRC.
 8 ZIP System R-sheathing used as the lateral resistance system in seismic zones D_s, D₁, D₂, and E should be designed in accordance to ER-482.

ZIP SYSTEM® R-SHEATHING - INSTALLATION INSTRUCTIONS

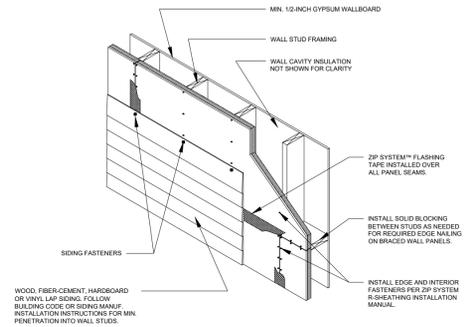
- INSTALL ZIP SYSTEM® R-SHEATHING PANELS WITH THE WATER-RESISTIVE BARRIER FACING OUT. PANELS CAN BE ORIENTED VERTICALLY OR HORIZONTALLY. INSTALL BLOCKING PER LOCAL CODE REQUIREMENTS.
- FASTEN THE PANELS TO THE FRAMING IN ACCORDANCE WITH THE FASTENING REQUIREMENTS OF THE ZIP SYSTEM® R-SHEATHING INSTALLATION MANUAL.
- TAPE ALL SEAMS USING ZIP SYSTEM™ FLASHING TAPE ENSURING THE TAPE IS CENTERED OVER THE SEAM WITHIN ±1/2". USE THE ZIP SYSTEM TAPE GUN OR J-ROLLER TO APPLY ADEQUATE PRESSURE AND SMOOTH OUT ANY WRINKLES.
- VERTICAL OR HORIZONTAL TAPE SPLICES SHOULD OVERLAP A MIN. 3". AT T-JOINTS, THE TAPE PIECES SHOULD OVERLAP A MIN. 1".
- THE DETAILS SHOWN ON THIS PAGE ARE TYPICAL AND FOR GENERAL PURPOSE. FOR MORE INFORMATION ABOUT OTHER FINISHED WALL COVERINGS AND APPLICATIONS OR TO VIEW THE INSTALLATION MANUAL, VISIT WWW.ZIPSYSTEM.COM FOR A LIBRARY OF DETAILS AND TECHNICAL TIPS.



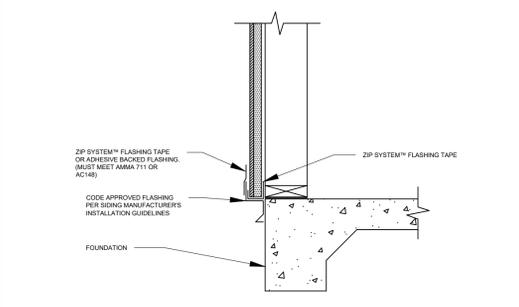
ZIPsystem™
R-SHEATHING

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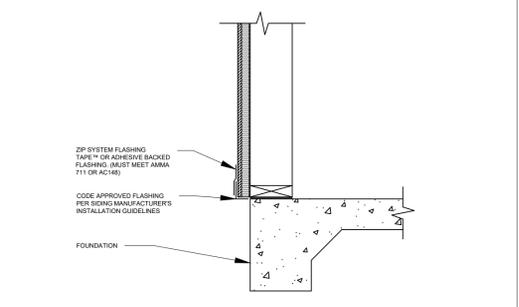
HUB-4330 REV 07/22



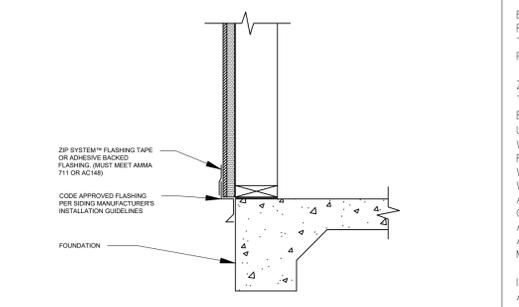
ZIP SYSTEM R-SHEATHING WITH LAP SIDING
R-11 NTS



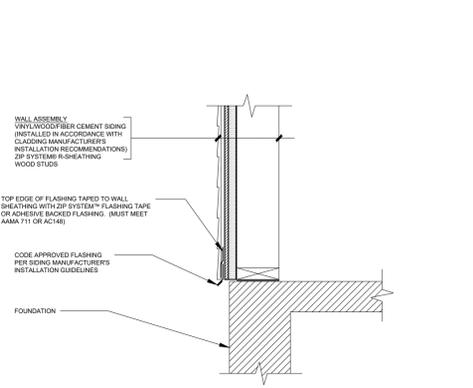
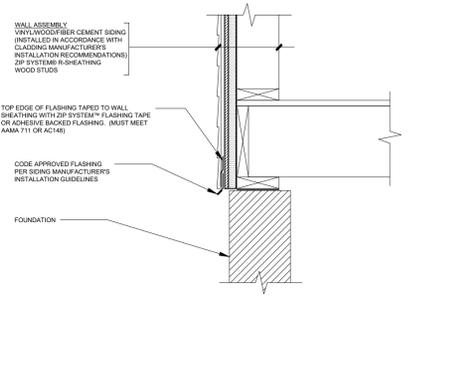
OPTIONAL ZIP SYSTEM R-SHEATHING TERMINATION
R-12 NTS



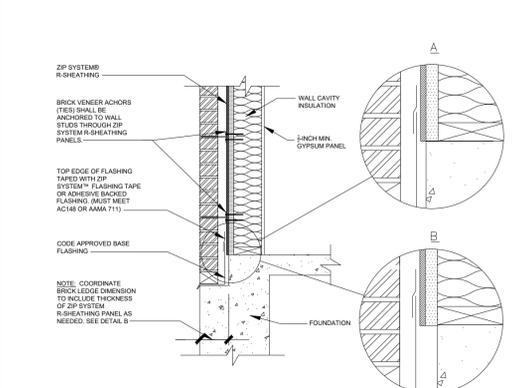
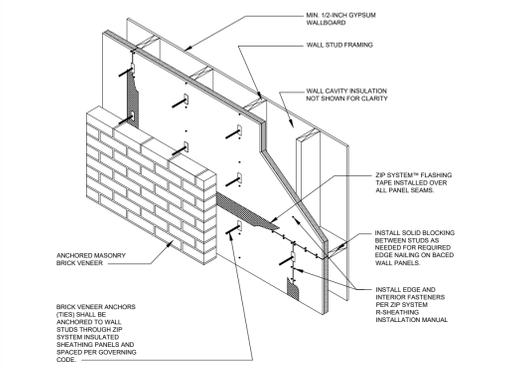
OPTIONAL ZIP SYSTEM R-SHEATHING TERMINATION
R-13 NTS



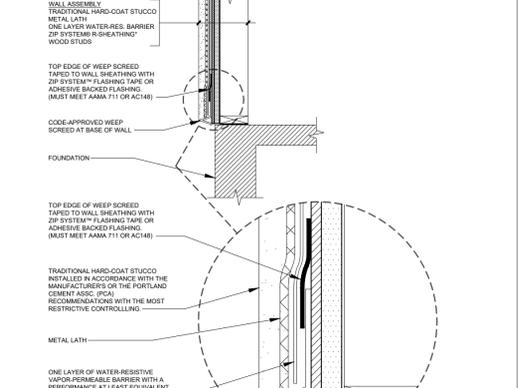
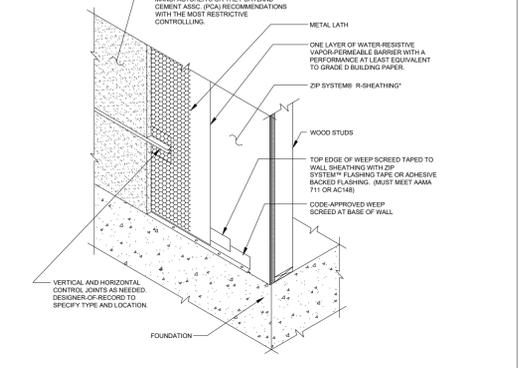
OPTIONAL ZIP SYSTEM R-SHEATHING TERMINATION
R-14 NTS



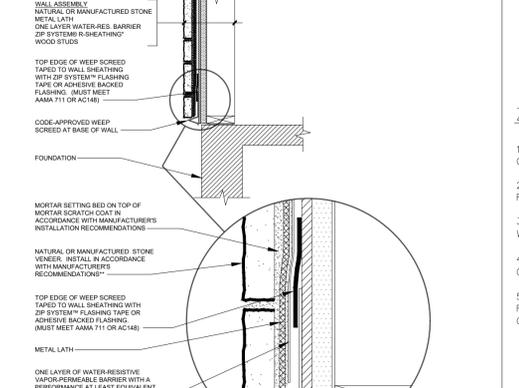
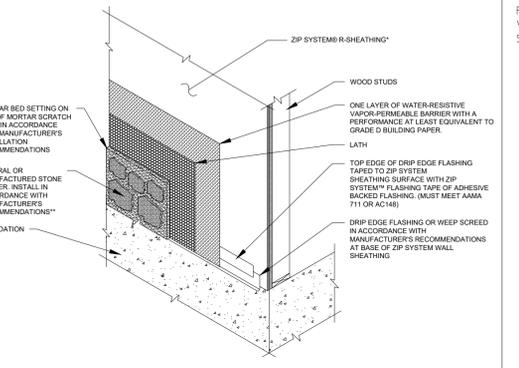
ZIP SYSTEM R-SHEATHING WITH BRICK VENEER
R-15 NTS



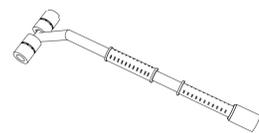
ZIP SYSTEM R-SHEATHING WITH ADHERED STONE
R-17 NTS



ZIP SYSTEM R-SHEATHING WITH ADHERED STONE
R-19 NTS



ZIP SYSTEM R-SHEATHING WITH ADHERED STONE
R-21 NTS



ROLL THE TAPE

