

Application : Vinyl Siding Wall

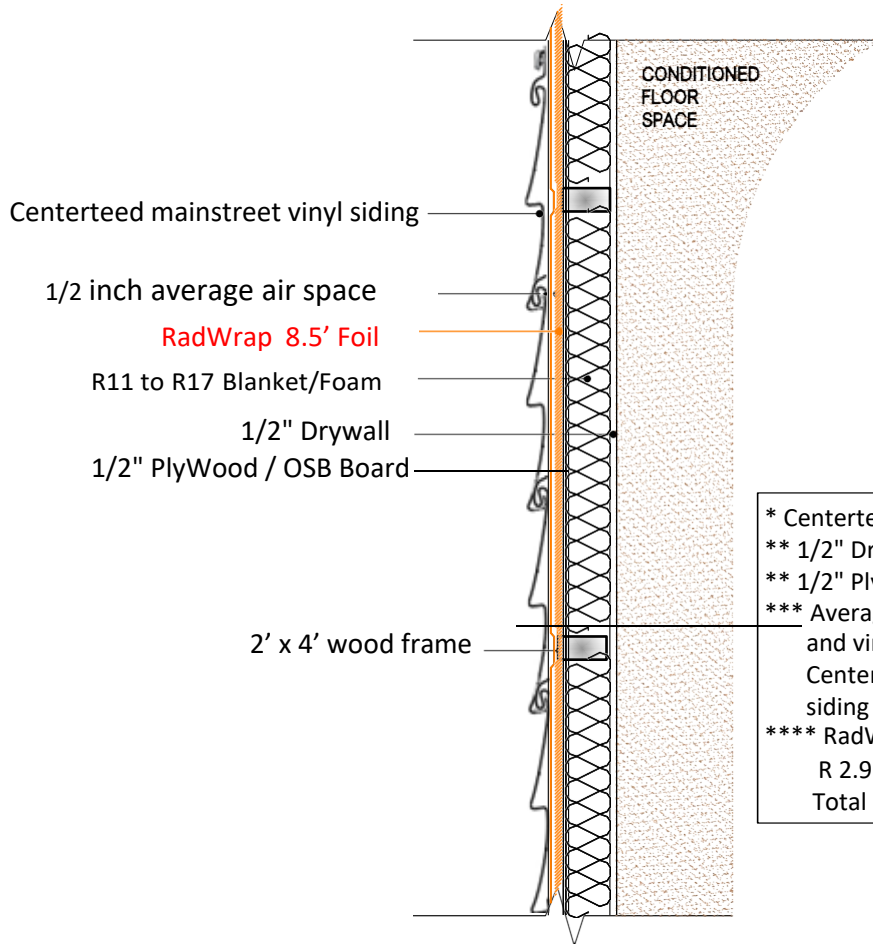
Drawing References: MCW-4.2 334w18a

Updated version: Feb 2023

Insulation proposed: Polyshield RadWrap

Product : RadWrap 8.5' foil facing

Minimum requirements for walls R value for all climate zones please refer to local codes and R value requirements.



For complete design rules and concessions for reducing R value in walls by building classifications and climate zones, please consult with Radiant Barrier USA technical experts.

- * Centerteed vinyl siding R value =0.61
- ** 1/2" Drywall R value = 0.45
- ** 1/2" Plywood/OSB board R value = 0.60
- *** Average airgap between RadWrap and vinyl siding is 1/2" to 3/4" (following Centerteed 1/8" suggested lose gap and the siding 3/4" corrugation)
- **** RadWrap E=5% with 1/2" airgap contributes R 2.91 (R 2.62 to R2.91 ASTM C-518 Modified test)
- Total R value R 4.28 (based on ASTM C-518)

Product name	Total R-Value (Rt) (ft2xFxh/BTU)****
RadWrap with R 11 blanket/foam	15.28
RadWrap with R 13 blanket/foam	17.28
RadWrap with R 15 blanket/foam	19.28
RadWrap with R 17 blanket/foam	21.28

The proposed R values rating of Polyshield Reflective Insulation products are calculated and certified by Mr. James Fricker, M.AIRAH, M.IEA, CPEng. All calculations are determined according to ASHRAE Handbook-Fundamentals (2021) p.26.21

Compliance method: Deem To Satisfy

SPECIFICATIONS FOR INSTALLATION:

SPECIFICATIONS AND INSTALLATION GUIDE -Metal clad wall:

Unrolled and attach Polyshield™ RadWrap onto the external wall frame, using staple gun with 12mm pins, or, similar fixing method. Ensure to have the foil side faces the vinyl siding. Place the vinyl siding ontop of the RadWrap as instructed by the vinyl siding manufacture. Allow a minimum of 2"-4" overlaps for Polyshield™ RadWrap sheets with aluminum™ tape, or 6" without tape.

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Application : Jame Hardie Board with a RainScreen

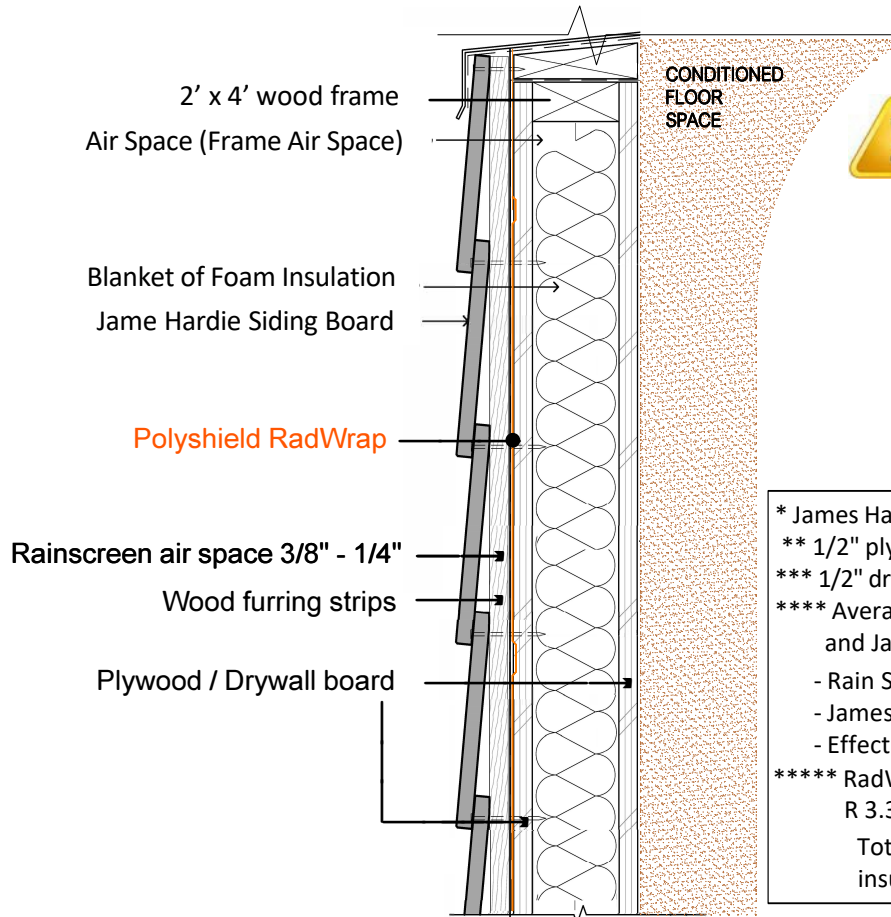
Minimum requirements for walls R value for all climate zones please refer to local codes and R value requirements.

Drawing References: MCW-4.2 334w18b

Updated version: October 2024

Insulation proposed: Polyshield RadWrap

Product : RadWrap 8.5' foil facing



For complete design rules and concessions for reducing R value in walls by building classifications and climate zones, please consult with Radiant Barrier USA technical experts.

* James Hardie Siding Board R value =0.37
 ** 1/2" plywood R value = 0.60
 *** 1/2" drywall R value = 0.45
 **** Average airgap between RadWrap and James Hardie Siding is 0.53"
 - Rain Screen air gap = 3/8" (0.375")
 - James Hardie Thickness: 0.31"
 - Effective air gap = 0.375+0.31/2 = 0.53"
 ***** RadWrap E=5% with 0.53" air gap contributes R 3.32 (R 2.62 to R2.91 ASTM C-518 Modified test)
 Total system Rt Value Excluding bulk insulation: 0.37+0.60+0.45+2.62= R4.04

Product name	Total R-Value (Rt) (ft2xFxh/BTU)*****
RadWrap with R 11 blanket/foam	15.04
RadWrap with R 13 blanket/foam	17.04
RadWrap with R 15 blanket/foam	19.04
RadWrap with R 17 blanket/foam	21.04

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Compliance method: Deem To Satisfy

SPECIFICATIONS FOR INSTALLATION:

SPECIFICATIONS AND INSTALLATION GUIDE -James Hardie Siding Board with furring strips:
 Unrolled and attach Polyshield™ RadWrap onto the external plywood or osb board, using staple gun with 12mm plastic cap staples, or plastic cap nails, or, similar water proof fixing method. Ensure to have the foil side faces the siding. Place the wood furring strips on top of the RadWrap as instructed by the siding manufacture. Allow a minimum of 2"-4" overlaps for Polyshield™ RadWrap sheets with Polyshield metalized or equivalent 3" tape.

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