ENERGY-EFFICIENT WALL ASSEMBLIES

APA RATED LAP SIDING OVER WOOD STRUCTURAL PANEL SHEATHING AND ADVANCED FRAMING

Outside surface (15 mph wind) 0.17
APA RATED SHEATHING 0.43 - 0.78
Cavity insulation
Option A - R20 20.00
Option B - R21 21.00
1/2" gypsum wallboard 0.45
Inside surface (still air) 0.68

APA RATED SIDING OVER RIGID FOAM INSULATION SHEATHING AND CONVENTIONAL FRAMING

Outside surface (15 mph wind) 0.17
APA RATED SIDING 0.43 - 0.78
Rigid foam insulation 4.00 (min.)
Cavity insulation
Option C – R13 13.00
Option D – R15 15.00
Option E – R20 20.00
Option F – R21 21.00
1/2" gypsum wallboard 0.45
Inside surface (still air) 0.68

(a) See APA Technical Note: APA Rated Siding Panels over Rigid Foam Insulation Sheathing, Form C465.
(b) Average U values include adjustment for 25% framing area with studs spaced 16" o.c. When studs are spaced 24" o.c. (22% framing area), average U values are slightly lower and corresponding R values are higher. Average U value is based on R value at framing of 4.38 for 2x4 wood studs and 6.88 for 2x6 wood studs.
(c) Consult rigid foam manufacturer for R-value and panel permeability values. (See APA Technical Topics: Wood Moisture Content and the Importance of Drying in Wood Building Systems, Form TT-111).