

R-Values: Applications & Air Space Requirements



1. Do-it-Yourself & Residential Applications (HVAC)

For any applications claiming R-Values, reflective insulations MUST face at least one open airspace cavity, or be installed within an enclosed air space (without free air flow).

The charts below outlines various Air Space Requirements by application, the location of the airspace(s) needed to achieve the R-Values shown. and specific rFOIL™ products recommended for each application,

| liant rrier ummer) | NT Radiant Barrier [®] (4800 Series) | Attic Air Chaco | Installed on Bottom of Rafters, or |
|--------------------------|--|--|--|
| ummer) | | Attic Air Space | Directly to Inside of Roof Deck |
| Vinter) | 2200 Series (Double-Sided Reflective Insulation) | 0.75" | Underside of Decking |
| liant rrier | NT Radiant Barrier® (4800 Series) | 0.75" | Underside of Decking |
| ummer) Vinter) | 2200 Series (Double-Sided Reflective Insulation) | 0.75" | Underside/Base of Rafter |
| 1.1 | Concrete UnderPad® (4320/4620 Series) (Double-Sided Reflective Insulation) | Airspace Within Product (Bubble Structure) | Directly Beneath Concrete Slab |
| 3.8 | Ultra CBF® - Concrete Barrier Foil (Double-Sided Reflective Insulation) | Airspace Within Product (Bubble Structure) | Directly Beneath Concrete Slab |
| 17 | 2220 or 2290 Series (Double-Sided Reflective Insulation) | 9.5" Floor (Min.) Joist Cavity | Installed to Underside of Joist |
| 21 | 2220 or 2290 Series (Double-Sided Reflective Insulation) | Two Air Spaces at 4.75" each - Split within 9.5" (Min.) Joist Cavity | Insulation Centered Within 9.5" Cavity (Splitting Airspace) |
| -3 | 2200 Series (Double-Sided Reflective Insulation) | Attach to Interior Side of Door | 3/8" Spacer Between Garage Doo and Insulation |
| 3.4 | Reflective House Wrap (4800 Series) | 0.5" Behind Brick | Attach on Inside of Exterior Panel |
| 2.5 | Reflective House Wrap (4800 Series) | 0.25" Behind Siding | Attach on Inside of Exterior Panel |
| -16 13 Batt) | 2200 Series (Double-Sided Reflective Insulation) | Back of Knee Wall | Attach to Back (Attic Side) of Knee Wall Studs |
| -19 13 Batt) | 2200 Series (Double-Sided Reflective Insulation) | Back of Knee Wall and 0.75" Air Space from Furring | Attach to 1" x 2" Furring (Added to Attic Side of Knee Wall Studs) |
| 14.4 13 Batt) | 2200 Series (Double-Sided Reflective Insulation) | 0.75" - Within Wall Cavity (Offset from Interior Wall) | Installed Between Studs and Offset 0.75" Behind Interior Wall |
| -21 19 Batt) | 2200 Series (Double-Sided Reflective Insulation) | 0.75" - Within Wall Cavity (Offset from Interior Wall) | Installed Between Studs and Offset 0.75" Behind Interior Wall |
| 3.7 | 2200 Series (Double-Sided Reflective Insulation) | 0.75" - 1"x 2" nominal Furring | Attach to Masonry Wall, Behind 1" x 2" furring strips |
| 4.2 | 2200 Series (Double-Sided Reflective Insulation) | 0.75" - 1"x 2" nominal Furring | Attach to Masonry Wall, Behind 2" x 2" furring strips |
| 6.1 | 2200 Series (Double-Sided Reflective Insulation) | Two Air Spaces at 0.75" each (split within 2" x 2" nominal furring) | Attach to Masonry Wall, Behind 2" x 2" furring strips |
| | rier ummer) Vinter) 1.1 3.8 17 21 -3 3.4 2.5 16 13 Batt) 19 13 Batt) 4.4 13 Batt) 4.9 19 Batt) 3.7 4.2 | rrier NT Radiant Barrier (4800 Series) Immer) 2200 Series (Double-Sided Reflective Insulation) 1.1 Concrete UnderPad® (4320/4620 Series) (Double-Sided Reflective Insulation) 3.8 Ultra CBF® - Concrete Barrier Foil (Double-Sided Reflective Insulation) 17 2220 or 2290 Series (Double-Sided Reflective Insulation) 21 2220 or 2290 Series (Double-Sided Reflective Insulation) 2200 Series (Double-Sided Reflective Insulation) 3.4 Reflective House Wrap (4800 Series) 2.5 Reflective House Wrap (4800 Series) 16 2200 Series (Double-Sided Reflective Insulation) 19 2200 Series (Double-Sided Reflective Insulation) 19 2200 Series (Double-Sided Reflective Insulation) 4.4 2200 Series (Double-Sided Reflective Insulation) 21 2200 Series (Double-Sided Reflective Insulation) 3.7 2200 Series (Double-Sided Reflective Insulation) 4.2 2200 Series (Double-Sided Reflective Insulation) 2200 Series (Double-Sided Reflective Insulation) | Immer) 2200 Series (Double-Sided Reflective Insulation) |

Call Toll Free: 1-800-837-8961 Local: 416-798-1340 Fax: 416-798-1342 Email: sales@rfoil.com Visit our Website: www.rfoil.com