

Review Sheet – Windows

- Windows and Heat Loss
 - Solar radiation has infrared (IR), ultraviolet (UV), and visible waves
- Factors in window selection
 - U factor
 - Visible Transmittance (VT)
 - Solar Heat Gain Coefficient (SHGC)
 - Air Leakage (AL)
 - Condensation Resistance (CR)
 - $R = 1 / U$
 - $LSG = VT / SHGC$
- Shading Devices
 - Roller Shades
 - Vertical Blinds
 - Venetian Blinds
- Window Technologies
 - Types of Glazing
 - Chemically or Physically Altered Glass (tinting)
 - Coated glass or films
 - Spectrally Selective Coatings
 - Low-e Coatings
 - Soft Coat
 - Hard Coat
 - Heat Mirror
 - Aftermarket Films
 - Multiple-layered assemblies
 - Gas Fills (argon, krypton)
 - Layers of Glass and Air Spaces
 - Single Pane

- Double Pane
 - Multiple Pane
 - Frame and Spacer Materials
- Smart Windows
 - Suspended Particle Devices (SPDs)
- Heat Loss = Area x HDD x 24 / R-value