Worksheet

Drexel University Energy & Architecture

Assignment #1 - "U" Value Calculation

Wall Construction Exterior air film Wood shingles R-7 polystyrene sheathing R-11 batt insulation between 2 x 4 studs @ 16" o.c. 2-ply kraft paper vapor retarder 1/2" gypsum wallboard Interior air film	"R" Value "U" Value "F" Value
Wall Total	0.00 #DIV/0!
Windows Double pane insulated glass with 1/4" air space	
Slab edge R-5 insulation extending 2' vertically	
Roof / Attic insulation Exterior air film Asphalt shingle roof 1/2" plywood roof sheathing 2 x 8 rafters @ 16" o.c. Vented attic space 2 layers of R-19 blanket insulation 1st layer between 2 x 6 joists @ 24" o.c. 2nd layer continuous across joists 6 mil polyethylene vapor barrier 1/2" gypsum wallboard ceiling Inside air film Roof / Attic Total Door	0.00 0.00 0.00 0.00 0.00 #DIV/0!
Infiltration Number of air changes per hour	