

Doors U-Factors

Nominal Door Thickness, mm	Description	No Storm Door	Wood Storm Door	Metal Storm Door
Wood Doors ^{a,b}				
35	Panel door with 11mm panels ^e	3.24	1.87	2.1
35	Hollow Core flush door	2.67	1.7	1.82
35	Solid core flush door	2.21	1.48	1.59
45	Panel door with 11mm panels ^e	3.07	1.82	2.04
45	Hollow core flush door	2.61	1.65	1.82
45	Panel door with 29mm panels ^e	2.21	1.48	1.59
45	Solid core flush door	2.27	N/A	1.48
57	Solid core flush door	1.53	1.14	1.19
Steel Doors ^b				
45	Fiberglass or mineral wool core with steel stiffeners, no thermal break ^f	3.41	N/A	N/A
45	Paper honeycomb core without thermal break ^f	3.18	N/A	N/A
45	Solid urethane foam core without thermal break ^a	2.27	N/A	N/A
45	Solid fire rated mineral fiberboard core without thermal break ^f	2.16	N/A	N/A
45	Polystyrene core without thermal break [18 gage (1.31mm) commercial steel] ^f	1.99	N/A	N/A
45	Polyurethane core without thermal break [18 gage commercial steel] ^f	1.65	N/A	N/A
45	Polyurethane core without thermal break [24 gage (0.70mm) residential steel] ^f	1.65	N/A	N/A
45	Polyurethane core with thermal break and wood perimeter [24 gage residential steel] ^f	1.14	N/A	N/A
45	Solid urethane foam core with thermal break ^a	1.14	N/A	0.91

Note: All U-factors for exterior doors in the table are for doors with no glazing, except for the storm doors which are in addition to the main exterior door. Any glazing area in exterior doors should be included with the appropriate glass type and analyzed as a window. Interpolation and moderate extrapolation are permitted for door thicknesses other than those specified.

^a Values are based on a nominal 810 mm by 2030 mm door size with no glazing.

^b Outside air conditions: 24 km/h wind speed, -18 °C air temperature; inside air conditions: natural convection, 21 °C air temperature.

^c Values for wood storm door are for approximately 50 % glass area.

^d Values for metal storm door are for any percent glass area.

^e 55 % panel area.

^f ASTM C236 hotbox data on a nominal 910 mm by 2130 mm door size with no glazing.