

# MANKO 3100i SERIES 3 1/4" ARCHITECTURAL GRADE FIXED, PROJECTED, AND CASEMENT WINDOW SYSTEM THERMAL PERFORMANCE AND CAPABILITIES

Whole Window U-Value (BTU/H·FT <sup>2</sup> )			
COG U-Value	Whole Window U-Value Per NFRC-100*		
	Fixed	Projected	Casement
0.48	0.50	0.57	0.56
0.44	0.46	0.55	0.54
0.40	0.43	0.52	0.51
0.36	0.39	0.49	0.49
0.32	0.36	0.46	0.46
0.28	0.32	0.44	0.43
0.24	0.29	0.41	0.41
0.20	0.25	0.38	0.38

All values shown are calculated with Manko standard  
Tri-Seal insulated units and no grids present

Whole Window Visible Light Transmittance			
COG Vt	Whole Window Vt Per NFRC-200 <sup>1</sup>		
	Fixed	Projected	Casement
0.80	0.71	0.57	0.57
0.70	0.62	0.50	0.50
0.60	0.53	0.42	0.42
0.50	0.44	0.35	0.35
0.40	0.35	0.28	0.28
0.30	0.26	0.21	0.21
0.20	0.18	0.14	0.14
0.10	0.09	0.07	0.07

All values shown are calculated with Manko standard  
Tri-Seal insulated units and no grids present

Whole Window Solar Heat Gain Coefficient			
COG SHGC	Whole Window SHGC Per NFRC-200*		
	Fixed	Projected	Casement
0.75	0.56	0.69	0.69
0.70	0.53	0.64	0.64
0.65	0.49	0.60	0.60
0.60	0.45	0.55	0.55
0.55	0.41	0.51	0.51
0.50	0.38	0.46	0.46
0.45	0.34	0.41	0.41
0.40	0.30	0.37	0.37
0.35	0.26	0.32	0.32
0.30	0.23	0.28	0.28
0.25	0.19	0.23	0.23
0.20	0.15	0.19	0.19
0.15	0.12	0.14	0.14
0.10	0.08	0.10	0.10

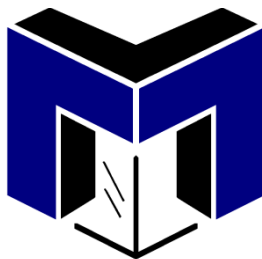
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Tri-Seal insulated units and no grids present

\* U-values and SHGC have been calculated using Manko standard insulated glass unit construction with Tri-Seal airspace and standard sealants. Substitution of different airspacers and/or sealants will effect values.

All values listed have been calculated using standard NFRC-100 and NFRC-200 procedures. Some values listed have been extrapolated for clarity and ease of presentation.

All values listed have been calculated at standard NFRC Gateway Sizes.

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