

# MANKO 3135xpt SERIES 3 1/2" ARCHITECTURAL GRADE VERTICAL SLIDING, SINGLE HUNG (SH) and FIXED WINDOW SYSTEM THERMAL PERFORMANCE CAPABILITIES

| Whole Window U-Value (BTU/HxFT <sup>2</sup> ) |                                       |             |
|---|---------------------------------------|-------------|
| COG<br>U-Value                                | Whole Window U-Value<br>Per NFRC-100* |             |
|   | Fixed(2135)                           | Single Hung |
| 0.41  | 0.45                                  | 0.46        |
| 0.38  | 0.42                                  | 0.44        |
| 0.35  | 0.40                                  | 0.42        |
| 0.32  | 0.37                                  | 0.40        |
| 0.29  | 0.35                                  | 0.38        |
| 0.26  | 0.32                                  | 0.36        |
| 0.23  | 0.30                                  | 0.34        |
| 0.20  | 0.27                                  | 0.32        |

All values shown are calculated with Manko standard  
Tri-Seal insulated units

| Whole Window Visible Light Transmittance |  |             |
|--|--|-------------|
| COG<br>Vt                                | Whole Window Vt<br>Per NFRC-200 <sup>1</sup> |             |
|  | Fixed(2135)                                  | Single Hung |
| 0.80                                     | 0.60   | 0.58        |
| 0.70                                     | 0.52   | 0.51        |
| 0.60                                     | 0.45   | 0.44        |
| 0.50                                     | 0.37   | 0.36        |
| 0.40                                     | 0.30   | 0.29        |
| 0.30                                     | 0.23   | 0.22        |
| 0.20                                     | 0.15   | 0.15        |
| 0.10                                     | 0.07   | 0.07        |

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| Whole Window Solar Heat Gain Coefficient |                                    |             |
|--|------------------------------------|-------------|
| COG<br>SHGC                              | Whole Window SHGC<br>Per NFRC-200* |             |
|  | Fixed(2135)                        | Single Hung |
| 0.80                                     | 0.64                               | 0.62        |
| 0.75                                     | 0.60                               | 0.58        |
| 0.70                                     | 0.56                               | 0.54        |
| 0.65                                     | 0.52                               | 0.51        |
| 0.60                                     | 0.48                               | 0.47        |
| 0.55                                     | 0.44                               | 0.43        |
| 0.50                                     | 0.40                               | 0.39        |
| 0.45                                     | 0.36                               | 0.35        |
| 0.40                                     | 0.32                               | 0.31        |
| 0.35                                     | 0.28                               | 0.27        |
| 0.30                                     | 0.24                               | 0.23        |
| 0.25                                     | 0.21                               | 0.20        |
| 0.20                                     | 0.17                               | 0.16        |
| 0.15                                     | 0.13                               | 0.12        |
| 0.10                                     | 0.09                               | 0.08        |
| 0.05                                     | 0.05                               | 0.04        |

All values shown are calculated with Manko standard  
Tri-Seal insulated units

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