Simulated Centre-of-Glass Thermal and Optical Performance Values

The following tables provide the simulated centre-of-glass thermal and optical performance values for 46 mm IGUs with low-e coatings manufactured by Cardinal Glass Industries. The simulations were performed using BERKELEY LAB WINDOW v7.8.80, IGDB 106.0.0 in general conformance with EN 673 and EN 410 following the B.C. Reference Procedure for Using THERM to Determine Window Performance Values for Use with the Passive House Planning Package. The centre-of-glass U-value, solar heat gain (g-value), and visible transmittance (VT) are for simulated IGUs installed in Defender 88PH+ Pro and 88PH+ XI windows manufactured by Innotech Windows + Doors.

Note: The following values are not NFRC values. The following values are glass specific values required by Passive House International for Passive House Planning Package (PHPP) evaluations only. These are not compatible with, applicable to, or interchangeable with evaluations requiring NRFC values. If required, visit our website or contact your Product Representative for NFRC values.

Defender 88PH+ Pro & 88PH+ XI Windows
46 mm Overall IGU Thickness

INSULATED GLASS	U-FACTOR SI	SHGC	VT
6mm 366/4 mm CLR/4 mm 180	0.583 W/m2-K	0.267	0.557
6mm 270/4 mm CLR/4mm 270	0.569 W/m2-K	0.333	0.527
6mm 270/4mm CLR/4 mm 180	0.602 W/m2-K	0.346	0.599
6mm 180/4mm CLR/4mm 180	0.638 W/m2-K	0.541	0.681
4mm 366/4mm CLR/4mm 180	0.559 W/m2-K	0.270	0.564
4mm 270/4mm CLR/4mm 270	0.537 W/m2-K	0.339	0.533
4mm 270/4mm CLR/4mm 180	0.575 W/m2-K	0.353	0.606
4mm 180/4mm CLR/4mm 180	0.606 W/m2-K	0.562	0.691
6mm 180/6mm CLR/6mm 180	0.677 W/m2-K	0.533	0.664
6mm 270/6mm CLR/6mm 180	0.641 W/m2-K	0.343	0.584
6mm 270/6mm CLR/6mm 270	0.610 W/m2-K	0.331	0.514
6mm 366/6mm CLR/6mm 180	0.623 W/m2-K	0.266	0.543