Simulated Centre-of-Glass Thermal and Optical Performance Values

The following tables provide the simulated centre-of-glass thermal and optical performance values for 35 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 76TS windows manufactured by Innotech Windows + Doors.

*Overall IGU thickness varies due to thickness of glass. See table below.

	Defender 76TS Windows			
INSULATED GLASS	OVERALL IGU THICKNESS	U-FACTOR SI	SHGC	VT
6mm 366/4 mm CLR/4 mm 180	34.5 mm	0.797 W/m2-K	0.270	0.557
6mm 270/4 mm CLR/4mm 270	34.5 mm	0.783 W/m2-K	0.334	0.527
6mm 270/4mm CLR/4 mm 180	34.5 mm	0.813 W/m2-K	0.348	0.599
6mm 180/4mm CLR/4mm 180	34.5 mm	0.846 W/m2-K	0.541	0.681
4mm 366/4mm CLR/4mm 180	35 mm	0.745 W/m2-K	0.272	0.564
4mm 270/4mm CLR/4mm 270	35 mm	0.730 W/m2-K	0.337	0.526
4mm 270/4mm CLR/4mm 180	35 mm	0.762 W/m2-K	0.354	0.606
4mm 180/4mm CLR/4mm 180	35 mm	0.795 W/m2-K	0.591	0.691
6mm 180/6mm CLR/6mm 180	36.7 mm	0.884 W/m2-K	0.532	0.664
6mm 270/6mm CLR/6mm 180	36.7 mm	0.852 W/m2-K	0.345	0.584
6mm 270/6mm CLR/6mm 270	36.7 mm	0.823 W/m2-K	0.332	0.514
6mm 366/6mm CLR/6mm 180	36.7mm	0.837 W/m2-K	0.269	0.543

Additional NFRC values are available for different glass combinations, including various glass thicknesses, laminated glass options and Low-E coatings. Contact your Product Representative for additional NFRC values. See next page for legend and additional notes.