



Harbor Light and ComfortSmart

Great Lakes Window

How is Harbor Light Comparable to Vista

- Singular Sight Lines
- Clean Interior Look
- Balance Covers
- Exterior Glazing bead
- Constant Force Balancer
- Interlocking Meeting rail
- Extruded lift rail
- Finished header insert
- Jamb Adjusters
- Accessory grooves
- Nail fin and J-Channel (welded)
- Extruded aluminum screens
- Available reinforced meeting rail
- Sloped sill with bulb seal
- Double weather stripping
- Intercept Ultra spacer (EnergyEdge)
- NFRC Performance

How is Harbor Light Beneficial over Vista

- Sill Lock
- More chambers for structural integrity
- No weep holes
- Interior and exterior accessory groove
- Interior Surface lowE available
- Manufactured in one plant

Benefits of Comfort Smart over Harbor Light

- Heavier mil vinyl
- Block and Tackle
- Interior Glaze
- Co-extrusion, paint, woodgrains
- Three spacer options – EnergyTek (polycarbonate)
- More glass space
- Addition of Krypton Availability
- Recessed locks or low profile combo lock


Increase U-Value on all Lines over Vista

	Harbor Light LowE/Argon	LowE/Argon	SmartCore	SmartCore Frame and Sash	Interior Surface LowE
EnergyEdge	.30	.30	.29	.28	.24
<i>Intercept</i>	<i>.31</i>	<i>.31</i>	-	<i>.31</i>	-
EnergyEdge+	.30	.29	.28	.27	.23
<i>Intercept Ultra</i>	<i>.30</i>	<i>.30</i>	-	<i>.30</i>	-
EnergyTek	.28	.28	.27	.26	.22
<i>SuperSpacer</i>	<i>.29</i>	<i>.29</i>	-	<i>.29</i>	-
EnergyTek/Krypton/IS		.26	.25	.24	
		-	-	-	

Lowest U-Value: .15/.21 – EnergyGuard 3 KS IS with EnergyTek

Air Infiltration

- Air infiltration rate of .08
- 50% improvement over Vista (.15)
- Why?
 - No weep holes
 - Sill dam
 - Full Interlocking meeting rails



Product Type	Test Unit Size (inches)	Overall Rating	Air Infiltration/Exfiltration (scfm/ft²)	
			Air Infiltration	Air Exfiltration
Double Hung (Standard)	52x78	H-R20	0.30	0.15
	44x75	H-LC30	0.08	0.07
	40x63	H-LC40	0.08	0.07
Double Hung (RigidCore)	52x78	H-LC25	0.19	0.16
	44x75	H-LC35	0.08	0.07
	40x63	H-LC45	0.08	0.07

Sill Lock

- Lower air exfiltration
- Lower air and water infiltration
- Physical block
- Assists bulb seal
- Rigid structure to assist in prevention of bowing sill

Casements

- Continuous head and sill for twin+ casements = price advantage
- Standard Smart Core (hopper, awning)
- Similar hardware to what we are offering
- Triple weather stripping (vs double)
- Same across all lines

Internal Surface LowE

- Hard Coat
- Reduces U-Value by .04
- Chemically resistant
- Maintains visible light transmittance
- *Increased condensation probability*

What makes ComfortSmart > Vista

- Increased U-Value – all 7/8" glass packs are U-value - .01
- Air infiltration of .08 vs .15
- Block and Tackle vs Constant Force
- Interior dual walled glazing bead vs exterior single wall glazing bead
- Locks are not visible from exterior
- Co-Extrusions
- Single Frame Casements using common mull
- EnergyTek spacer
- IS lowE coatings
- Non-field applied nail fin.
- No weep holes
- We control manufacturing environment
- Quality Wall
- More glass space
- Consistency of accessories
- Krypton available in double pane
- LowE on all three sashes in triple pane
- Simulated Divided Lites
- Availability of Georgian 1 1/16" grids
- Exterior perimeter groove
- Opti-View and Solar Screen availability