

A person wearing a blue lab coat and black pants is standing in a factory or workshop. They are holding a red hose. In the background, there are various industrial equipment, including a red vertical lift and a white machine. A large blue text box is overlaid on the image, containing the text "How new windows can save money and lives in stratas".

How new windows can
save money and lives in
stratas

HELLO!

I'm Mark Estrada
Key Accounts Manager
Certified Window Geek



What are your windows like now?



- Noticed condensation, mold



What are your windows like now?



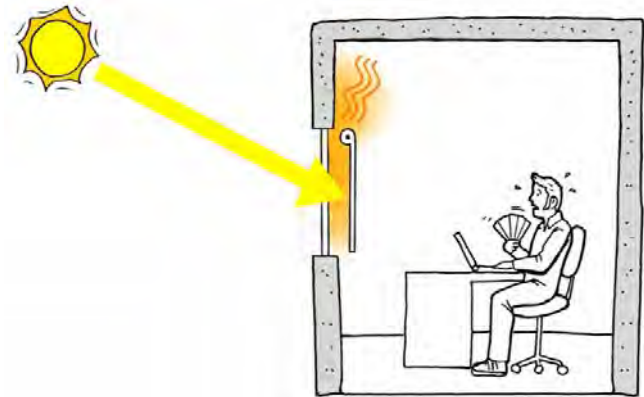
- Noticed discomfort drafts



What are your windows like now?



- Worried about life safety and overheating



What are your windows like now?



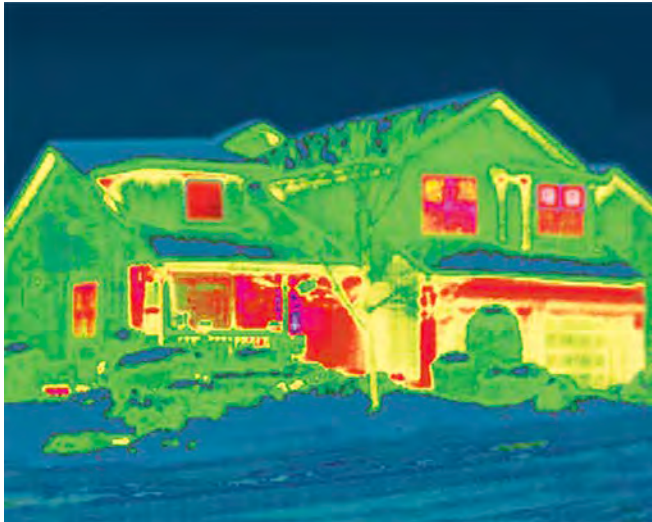
- Noticed sun damage on furniture, floors/walls



What are your windows like now?



- Want to reduce energy consumption but don't know where to start



Where to Start



- Depreciation report
- Building envelope condition assessment
 - Assesses the building /works as asystem
 - Opportunities for energy efficiency (trade-offs)
- Do you need a permit?
- Do you need a envelope consultant?



1.Window Technology

Evolution



History



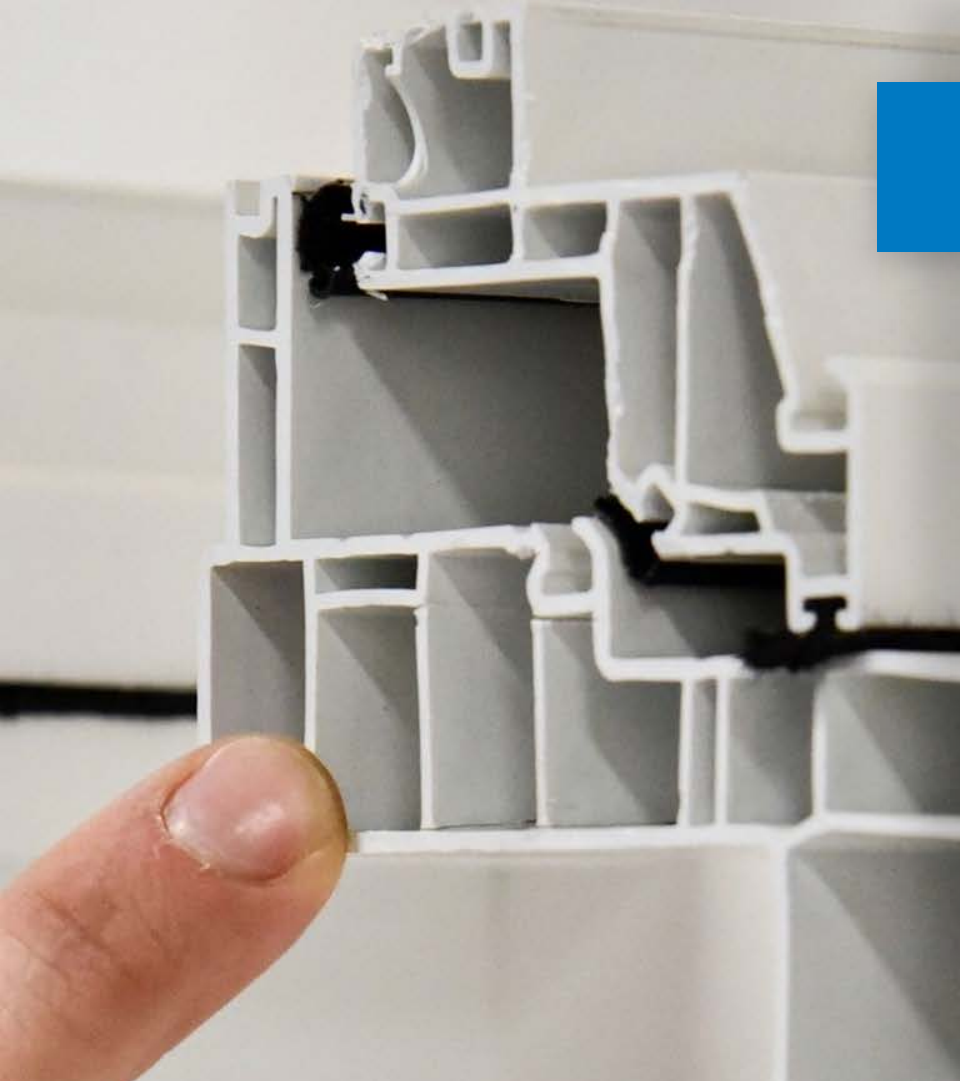
- 40 years ago windows were not energy efficient
- Largest source of heat loss
- Typically, single paned aluminum-framed
- No standards



Today's Window Technology



- Dual/triple pane windows
- Designed to provide better insulation
- Reduces heat loss or excessive overheating



Frame



- Vinyl windows
- Multi- chambered
- More rigid

Benefits:

- Improved strength & insulation

What is Lo E Glass



- Metal coating made of silver (similar technology as thermos)





What is LoE Glass

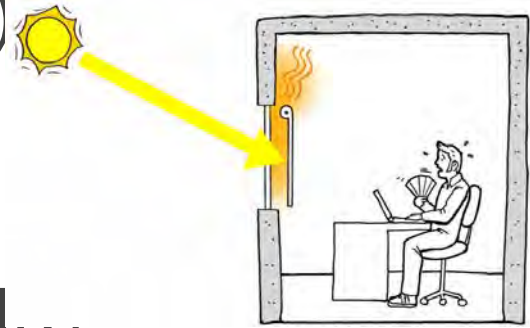


- Reflects heat back to source
- Can lower heating / cooling costs
- LoE and argon is no longer a feature. It is required by code

Glass coatings



- 1 coat LoE 1 (~20% HR)
- 2 coat LoE 2 (46% HR)
- 3 coat LoE3 (88% HR)
- 4 coat LoE2 + S4 (92% H.,



Solar heat gain + right coating = right solution

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DO NOT REMOVE UNTIL FINAL INSPECTION/NE PAS RETIRER AVANT L'INSPECTION FINALE

Energy Performance Ratings
Évaluation des propriétés énergétiques

U-Factor
Facteur-U
1.10
W/m²•K

Solar Heat Gain Coefficient
Coefficient de gain de chaleur solaire
0.35

Energy Rating
Rendement énergétique
36

Visual Transmittance
Transmission visible
0.53

Window Company Ltd.

Triple X Operable Casement
Vinyl frame, triple glaze, Low-e coating (e=0.022, S3, S5)
Krypton/air filled (both cavities), Grills <=13mm
WCTXCAPO.022G



Energy performance and visual transmittance ratings certified to **CSA A440.2-14**. Ratings are determined for a fixed set of environmental conditions and a specific product. Certification agency does not recommend or warrant product for any specific use.

Les taux de performance énergétique et de transmission visible sont certifiés **CSA A440.2-14**. Les taux sont déterminés selon une série de conditions environnementales fixes et une taille de produit particulière. L'agence de certification ne recommande ni ne garantit le produit aux fins d'utilisation particulière.

Energy Star



- Understand what the 4 values represent: U factor, SHGC, Visual Transmittance, ER
- Use as a recommendation, not as standard

Centra
WINDOWS



So You're Looking for Windows 🔑

Custom built windows or off the shelf?

Questions to ask:

- Warranty
- Sub-contractors
- Can the building be occupied during renovations
- Hazard assessments



Starting the Process



What are your goals?

- Comfort
- Life safety
- Reduced energy consumption
- Appearance
- Functionality
- Property value
- Budget

Resources



- Visit our website: <https://www.centrawindows.com/>
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THANKS



Any questions?

You can find me at:

[https://www.linkedin.com/in/markestradavancouver /](https://www.linkedin.com/in/markestradavancouver/)

mestrada@centra.ca

www.centra.ca

Victoria: [\(250\) 4122525](tel:(250)4122525)

Nanaimo: [\(250\)756-3010](tel:(250)756-3010)