The Langham Hotel Window Film Project

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The Langham Hotel

Problem:
- The Langham guests were experiencing comfort issues related to excessive solar heat gain.

Practical Considerations:
- The hotel needed a solution which would:
  - Reduce solar heat gain
  - Retain the visual esthetics of the existing windows system (minimizing reflectivity both internally as well as externally)
  - Provide an attractive Return on Investment
  - Minimal long-term maintenance costs/efforts, provide a robust warranty
Window Film Energy Analysis

DOE-2 Return on Investment

- New England Window Film and Eastman examined:
  - type/orientation of the window system
  - HVAC equipment and hours of usage
  - current annual energy costs for the building

- Produced a DOE-2 Energy Analysis Program that shows:
  1) Kilowatt Demand Reduction
  2) Projected Annual Energy Savings in Dollars
  3) Projected Return on Investment in Years
  4) Annual CO2 Reduction Values
• EnerLogic Window Film

EnerLogic does more than any film in history.

• Emissivity 0.07
• Visible Light Transmitted 33%
• Ultraviolet Rejected 99%
• Total Solar Energy Rejected 76%

• Annual floor space savings/SF $0.209
ENERLOGIC LOW-E FILM

Solution for The Langham

- Reduce energy by reducing solar heat gain and radiant heat loss
- Increase comfort of occupants
- Reduce glare
- Correct temperature imbalances
- Enhance the exterior appearance of building
- Reduce fading of interiors
• Tom Wallace
  New England Window Film
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