

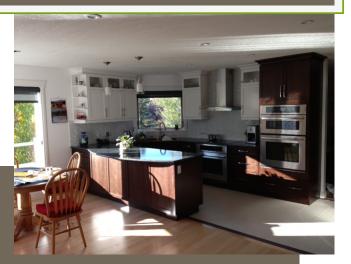


Presented by:
Vern Solbak RHI, LEED ap BD+C

ABDC's Conference
What's Next in
Green Building



Outline



- My Background
- What Makes a Product Green?
- How to Avoid Green-washing Credibility
- Certifications
- Tools and Information Programs
- Alberta Infrastructure Standards
- A Word about 'Why LEED?'
- Summary / Future Trends

My Background

- Private industry 2 architectural firms
- City of Edmonton Buildings and Construction Branch – project management
- Technical Services Branch :
 - Design review for capital projects
 - Participate in integrated design for larger projects
 - Resource group for other Branches
 - Research and Development of TSB standards
 - Currently includes studies in sustainability
 - Attending/presenting conferences

What Makes a Product Green?

Green Attributes



- Avoid Hazardous Ingredients
- Low-emitting [VOC's]
- Bio-based and Sustainably Sourced
- Responsible Corporate Practices
- Information Transparency
- Renewable Energy Equipment



Source: www.buildinggreen.com/auth/article.cfm/2012/2/2/What -Makes-a-Product-Green/

What Makes a Product Green?

Green Attributes



- Reduces Material Use
- Durable or Low Maintenance
- Reusable, Recyclable or Compostable
- Prevents Moisture or Air-quality Problems
- Rapidly Renewable
- Reduces Heating and Cooling Loads



How to Avoid Green-washing

- Importance of Credibility
- Nine types of Green-wash



- Green by Association
- Lack of Definition
- Unproven Claims
- The Non Sequitur [using a valid claim to make a further claim that is not supported]
- Forgetting the Life Cycle [the red herring]

How to Avoid Green-washing

Importance of Credibility



- Bait and Switch
- Rallying behind a Lower Standard
- Reluctant Enthusiast
- Outright Lying

Certifications

Building Environmental Standards





































C.A.F.E. Practices

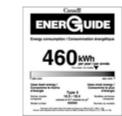




SCHOOLS









Certifications

Understanding Certifications



- Standards development ISO, ANSI, CSA [standard versus certification]
- Certifications to labels 1st, 2nd, 3rd party
- Indoor Air Quality Certifications
- Forestry Certifications
- Energy Certifications
- Multiple Attribute Certifications
- Other Certifications and Performance Labels
- Remember certifications are just tools







Certifications

Example – Greenguard certification website



Source: http://www.greenguard.org/en/CertificationPrograms/CertificationPrograms_ChildrenSchools.aspx

Tools & Programs

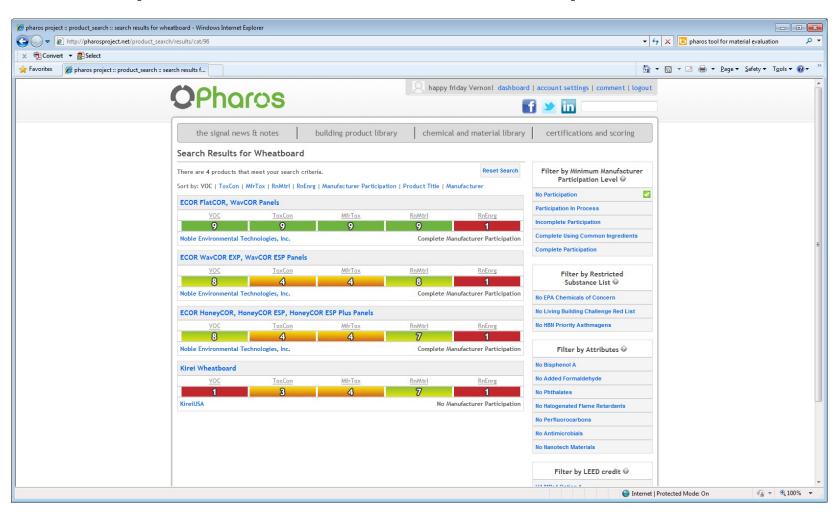
Moving Towards Transparency



- California Section 01350
- The Pharos Project
- GreenSpec Directory
- BEES 4.0 [Life Cycle Analysis]
- Athena Institute [Life Cycle Analysis]
- EPD's [Environmental Product Declaration]
- HPD's [Health Product Declaration]

Pharos Project

Example – Screenshot for 'wheatboard' products



Source: http://pharosproject.net/product_search/results/cat96

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Pharos Project

Example – Highest rated 'wheatboard' product

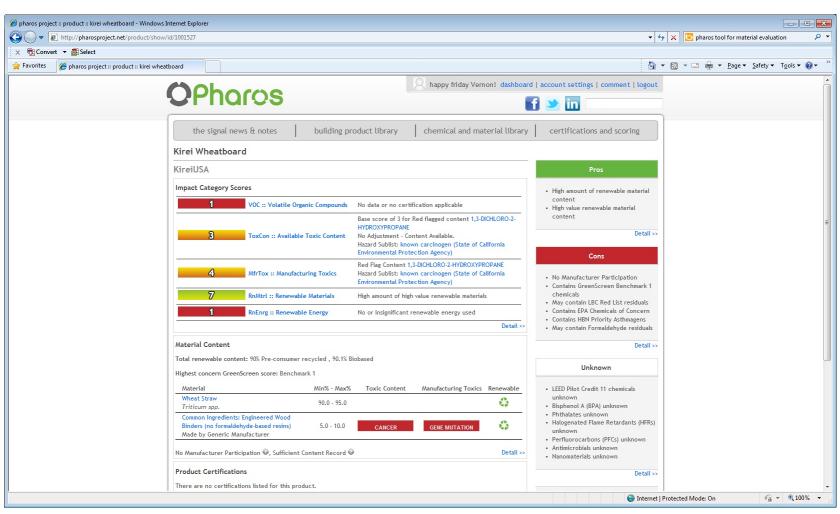


Source: http://pharosproject.net/product_search/results/cat96

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Pharos Project

Example – Lowest rated 'wheatboard' product

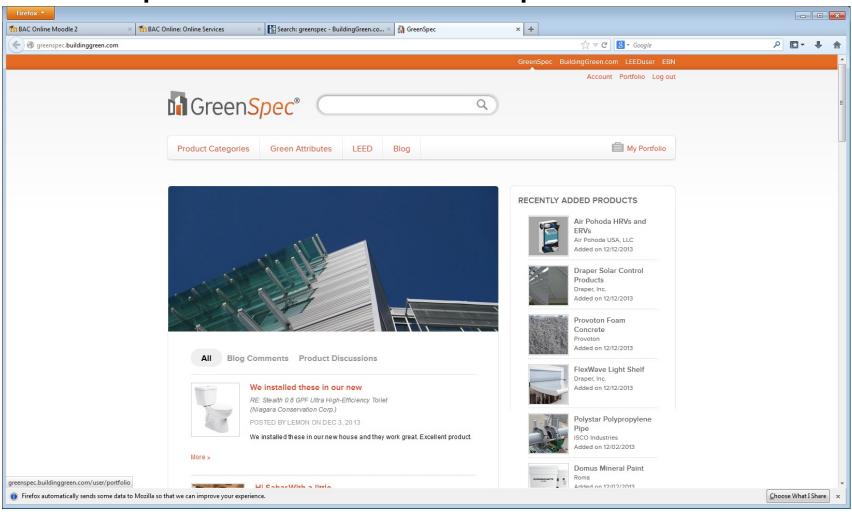


Source: http://pharosproject.net/product_search/results/cat96

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GreenSpec

Example – Search for 'wheatboard' product

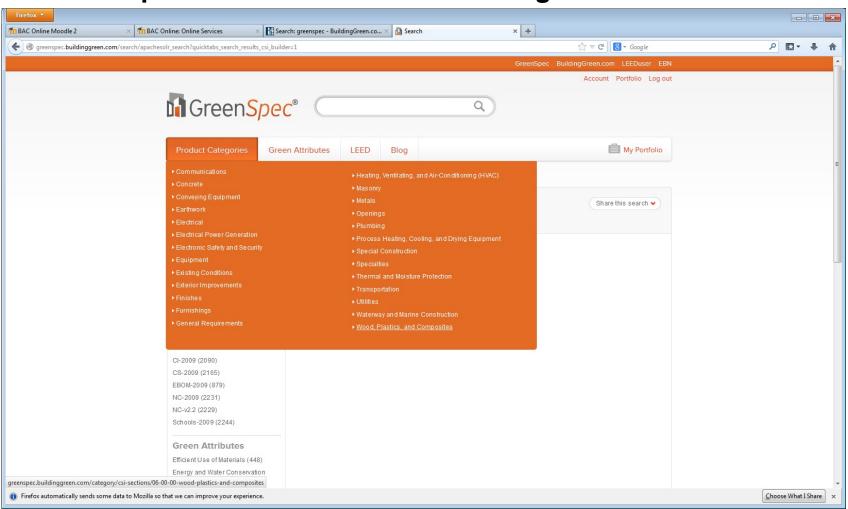


Source: www.greenspec.buildinggreen.com

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GreenSpec

Example – Select from 'Product Categories'

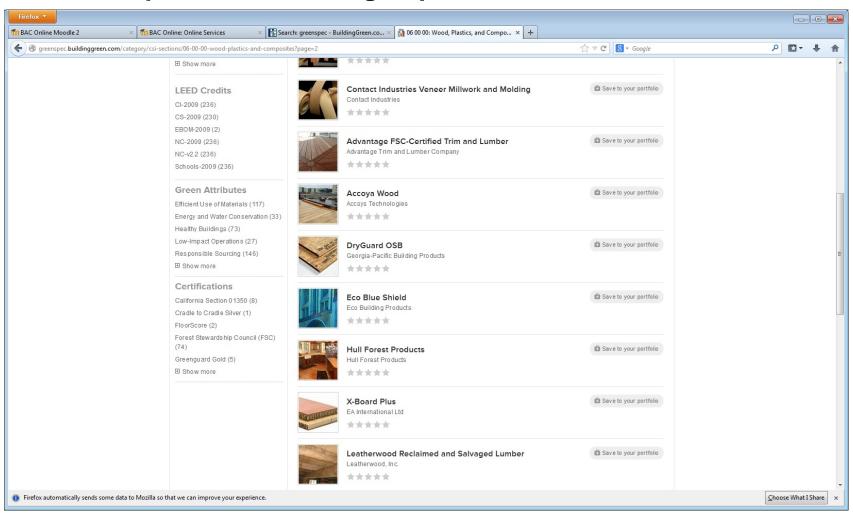


Source: www.greenspec.buildinggreen.com

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GreenSpec

Example – Scroll through options or 'Search'

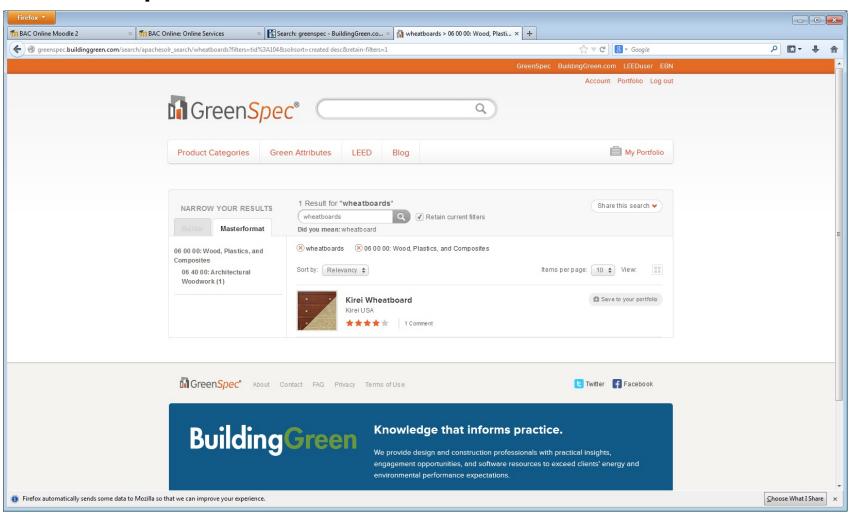


Source: www.greenspec.buildinggreen.com

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GreenSpec

Example – 'Search' for 'wheatboard'.

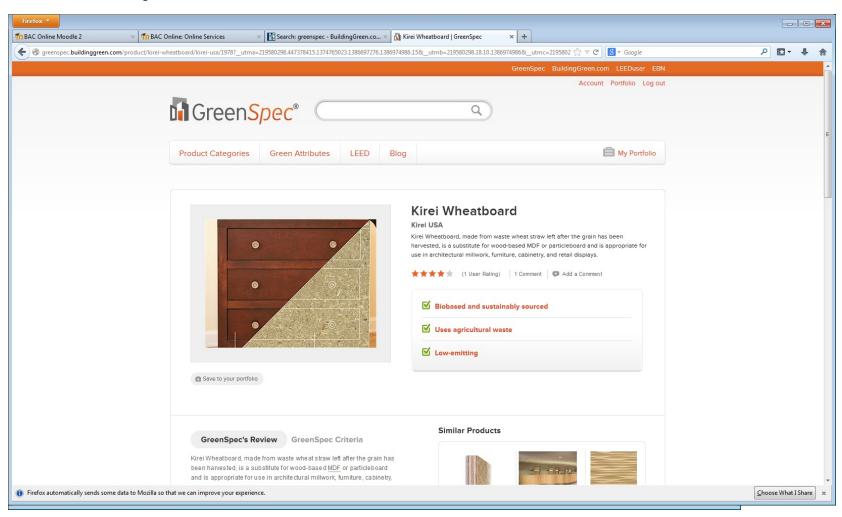


Source: www.greenspec.buildinggreen.com

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GreenSpec

Example – 'Click' on 'Kirei Wheatboard'.

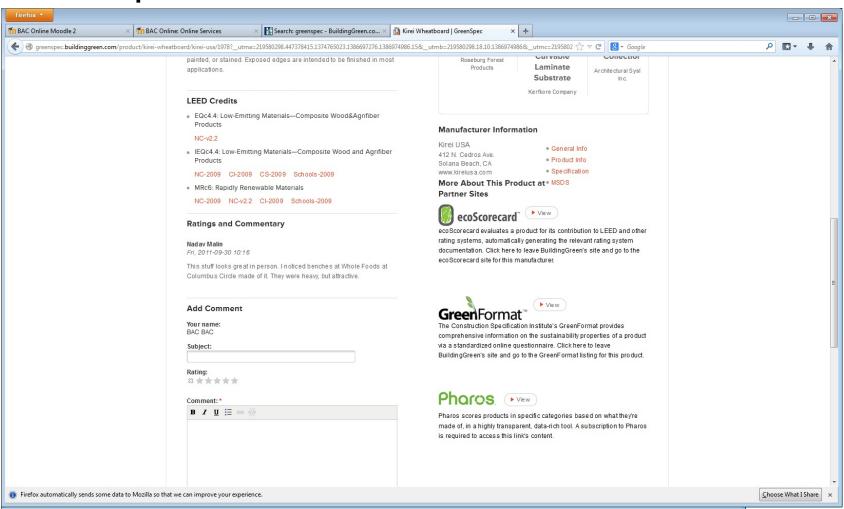


Source: www.greenspec.buildinggreen.com

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GreenSpec

Example – Note other tools and related LEED credits



Source: www.greenspec.buildinggreen.com

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Alberta Infrastructure Standards

Red Book Standard, Blue Book, Green Book

- Sustainability [LEED Silver for larger projects]
- Building Envelope [PERSIST standard, ASHRAE]
- S/M/E standards
- Acoustics
- Barrier-Free Design
- Site Services
- Landscape Development [avoiding flood zones]
- Environmental [avoiding hazmat]
- Basic Master Specifications

A Word About 'Why LEED?'

- Embracing LEED
 - Before LEED
 - Each successive version of LEED ups the bar
 - LEED brought credibility to the green movement
 - Claims are 3rd party verified [audited]
 - LEED although a voluntary standard has become dominant in the world - revolutionary
 - LEED is a community standard
 - LEED asks people to have integrity
 - People are now demanding healthier buildings

Summary / Future Trends

- Building ProductTransparency Labels
- Energy and other information dashboards for buildings
- Take Transparency from Best Practice to Standard Practice
- Life Cycle Assessment for buildings and building materials – common practice
- CSR [Corporate Social Responsibility] the leading driver for major companies

Source: http://transparency.perkinswill.com/Media

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Thank you!

Questions?



