



# LEED® Green Building Rating System™

Patrick Brouillard

December , 2012



# Agenda

- What is LEED® (Leadership in Energy and Environment Design ) ?
- Why certify ?
- Benefits for Corian®
- LEED® in different businesses
- What are the categories and the structure of credit?
- Which Performance Categories & Credits Corian® contribute for LEED® points?
- Documentation

# LEED®

- **Reduce or eliminate** the environmental footprint on our planet.
- Building & Construction has a **profound impact** on our natural environment, economy, health and productivity.
- Select the right materials that are better for the human life to protect our health and planet, to have more a comfortable life and a better indoor air quality
- LEED® is a **system of evaluation** only for the buildings  
A product on it's own can't be LEED® certified.

## LEED® Historic

- created by the US Green Building Council in 1998 (USGBC)
- has become the most widely used system for environmental assessment of buildings in the world.
- The goal is to reduce all resources used during the construction and to take care of the environment
  - Consumption of Natural Resources
  - Environmental Loadings
  - Environmental risks
  - Health of users
- Each building has the his specific requirement
  - LEED® Building Design + Construction, LEED® Operations + Maintenance, LEED® Neighborhood development, LEED® Home Design + Construction, LEED® Interior Design + Construction

# What does LEED® measure?

LEED® promotes the 5 key areas of human and environmental health:

1. Sustainable site development
2. Water savings
3. Energy efficiency
4. Materials selection
5. Indoor environmental quality



# LEED® 2009 rating systems - Categories

## **Building Design & Construction**

- New Construction (NC)
- Core & Shell (CS)
- Schools
- Retail: New Construction and Major Renovations
- Healthcare

## **Interior Design & Construction**

- Commercial Interiors
- Retail: Commercial Interiors

## **Building Operations & Maintenance**

- Existing Buildings: Operations & Maintenance

## **Neighborhood Development**

- Neighborhood Development

## **Home Design and Construction**

- Homes

# LEED® 2009 Reference Guide



\* These rating systems are under development or in pilot. Once they are available supplements will be sold for the new LEED 2009 Reference Guides.

## WHY CERTIFY ?

- Create a healthier and Cleaner environment
- Experience immediate and measurable results by saving energy, water and other resources ultimately reducing the carbon footprint
- Lowering the operating costs
- Enjoy tax benefits and incentives for green buildings



## WHAT are the BENEFITS of GREEN Building ?

- Green buildings REDUCE:
  - ENERGY USE
  - CO<sub>2</sub> Emissions
  - WATER USE
  - SOLID WASTE
- Environmental
- Health and community
- Economic

# The Categories

- Sustainable Sites (SS)
- Water Efficiency (WE)
- Energy and Atmosphere (EA)
- Materials and Resources (MR)
- Indoor Environmental Quality (IEQ)
- Innovation in Design (ID)
- Regional Priority (RP)
- Awareness & Education (AE)
- Locations & Linkages (LL)



## Structure of a Credit

Each credit provides the following information:

**Intent:** purpose or intent of each credit

**Requirement:** how to comply

**Potential Technologies & Strategies:** best practices, potential strategies for compliance, and recommendations

# Type of labels

Based on the number of total number of points a building can get a label going from

Certified to Platinum



Example for commercial interiors:

- Sustainable Sites (SS) 1-21 points
- Water Efficiency (WE) 1-11 points 1 prerequisite
- Energy and Atmosphere (EA) 1-37 points 3 prerequisites
- Materials and Resources (MR) 1-14 points 1 prerequisite
- Indoor Environmental Quality (IEQ) 1-17 points 2 prerequisites
- Innovation in Design (ID) 1-6 points
- Regional Priority (RP) 1-4 points

- Certified 40-49 points
- Silver 50-59 points
- Gold 60-79 points
- Platinum 80 points and above

## In brief...

LEED® is not a standard, it is a system of evaluation.

LEED® applies only to the buildings, not to products.

LEED® has certification and performance standards for divisions of building.

This certification obtained after examination concerning the building, from design to construction.



# LEED® Credits & points for Corian®



# In what Area Corian® can bring points ?

- **Materials and Resources (MR)**
- **Indoor Environmental Quality (IEQ)**
- **Innovation in Design (ID)**

Possible to have points for Corian®



- 
- Sustainable Sites (SS)
  - Water Efficiency (WE)
  - Energy and Atmosphere (EA)
  - Regional Priority (RP)
  - Awareness & Education (AE)
  - Locations & Linkages (LL)

No points for Corian®

# LEED® New Construction & Major Renovations

## Materials & Resources (MR)

- MR credit 1.2 Building Reuse 1-3 points
- MR credit 3 Materials Reuse 1-2 points
- MR credit 4 Recycled Content 1-2 points
- MR credit 5 Regional Materials 1-2 points

## Indoor Environmental Quality (IEQ)

- IEQ credit 4 Low Emitting Materials: Adhesives & Sealants 1 point

## Innovation & Design (ID)

- ID credit 1: Innovation in Design 1 point



## LEED® for Homes 2008

### Materials & Resources (MR)

- MR Credit 2.2 Environmentally Preferable Products:
  - Environmentally Preferable Products.
  - Low emissions
  - Local production

### Innovation & Design (ID)

- ID Credit 3: Innovative or Regional Design

# LEED® for Commercial Interiors

## Materials & Resources (MR)

- MR Credit 1.2 Building Reuse 1- 2 points
- MR credit 3.1 Materials Reuse 1- 2 points
- MR credit 3.2 Materials Reuse - Furniture & Furnishings 1 point
- MR credit 4 Recycled Content 1- 2 points
- MR credit 5 Regional Materials 1- 2 points

## Indoor Environmental Quality (IEQ)

- EQ credit 4.1: Low Emitting Materials- Adhesives & Sealants 1 point
- EQ Credit 4.5: Low-Emitting Materials -Systems Furniture and Seating 1 point

## Innovation & Design (ID)

- ID credit 1: Innovation in Design 1 point

## LEED® for Core & Shell (CS)

### Materials & Resources (MR)

- MR prerequisite 1 Storage & collection of recyclables required
- MR credit 1 Building Reuse 5 points
- MR credit 2 Construction waste management 2 points
- MR credit 3 Material reuse 1 point
- MR credit 4 Recycled Content 2 points
- MR credit 5 Regional Materials 2 points

### Indoor Environmental Quality (IEQ)

- EQ prerequisite 1 Minimum IAQ performance required
- EQ prerequisite 2 Environmental Tobacco Smoke (ETS) control required
- EQ credit 4.1: Low Emitting Materials- Adhesives & Sealants 1 point



# Documentation



DuPont™ Corian® business has obtained numerous eco-labels and worldwide recognition demonstrating the continuous innovation effort in developing improved sustainable solutions.

- GreenGuard certificates of compliance for Corian®
  - Indoor Air Quality standard for building materials n°3143-410
  - Children & schools standard n°3143-420
- GreenGuard certificates of compliance for JA
  - Indoor Air Quality standard for building materials n°3151-410
  - Children & schools standard n°3151-420
- DPS LEED Recycle Brochure (8 sheets)
- Green Approved Products certificate #00041 valid until June 2012 (NAHB)
- Volatile Organic Compound (VOC) content of Corian® products
- Conformity to RoHS (Restriction of Hazardous Substances directive) Directive 2011/65/EU





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