



19 NOVEMBRE 2010
BOLOGNA

LEED: I PRODOTTI PER L'EDILIZIA

Iris Visentin
LEED AP BD+C

GREEN BUILDING COUNCIL ITALIA

Sommario

- I prodotti e LEED
- Policy di comunicazione
- Il Master Format
- I Crediti per i prodotti e le certificazioni
- Esempi di alcuni prodotti



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- LEED presenta quattro *livelli* di certificazione (100 punti base, 6 possibili in ID e 4 per priorità regionali):
 - CERTIFIED (40 – 49)
 - SILVER (50 – 59)
 - GOLD (60 – 69)
 - PLATINUM (80 +)



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I PRODOTTI E LEED®



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Non esistono prodotti certificati LEED

Un prodotto non può dare automaticamente un punteggio al progetto



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Un prodotto può contribuire o essere conforme ai requisiti dello standard LEED

‘CONTRIBUTE TOWARD’

‘COMPLY WITH’



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Alcuni prodotti possono contribuire a più crediti

Nel progetto vengono valutati dal LEED AP che deve analizzare la documentazione relativa



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I CREDITI E IL PROCESSO LEED

Ci sono due tipologie di crediti a seconda del momento della sottomissione:

Design Credits: da sottomettere in fase di progettazione;

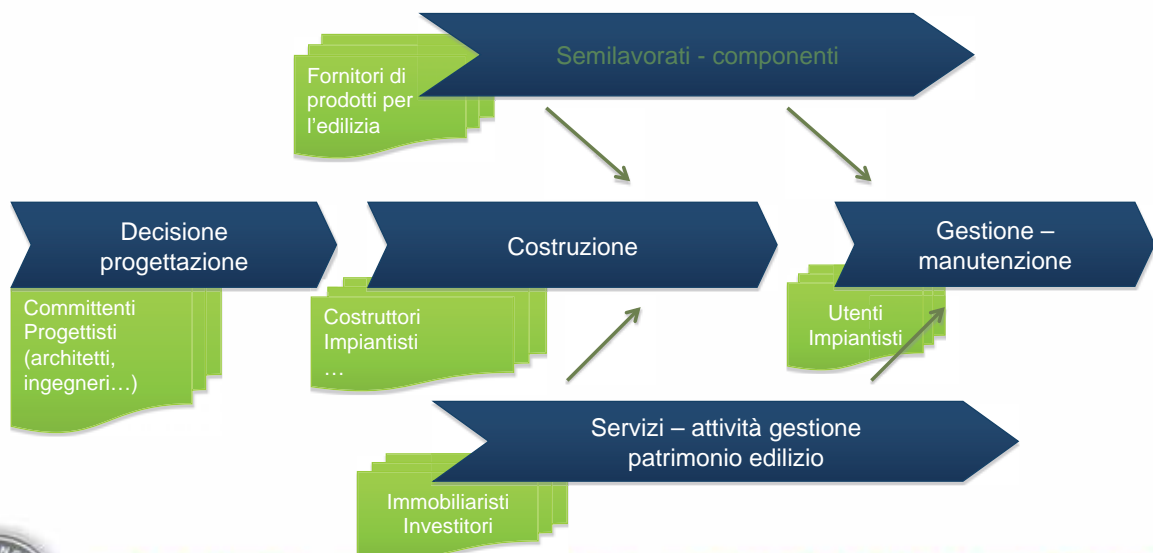
Constraction Credits: da sottomettere in fase di costruzione



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COINVOLGIMENTO DI TUTTA LA FILIERA



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RICADUTE SUL SISTEMA

Maggiore richiesta di documentazione e certificazioni che attestano le 'performance'

Riflessi sull'organizzazione del cantiere

Riflessi sulla definizione dei progetti

Coinvolgimento di tutta la filiera



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LA DOCUMENTAZIONE

Gli obiettivi e quindi i requisiti sono definiti in fase di progettazione

La documentazione deve essere richiesta ai fornitori

La documentazione deve essere allegata al momento della compilazione del template



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MASTERFORMAT™

2004 EDITION NUMBERS & TITLES

6/8/2004 (revised August 2004, November 2004, October 2005)

The numbers and titles presented here are identical to the MasterFormat™ 2004 Edition Numbers and Titles that were distributed on June 8, 2004 and revised in August 2004, save for additional selected title corrections that were made in the process of copy editing the MasterFormat publication. These corrections are listed separately on <http://www.csinet.org/MasterFormat>. The numbers and titles presented here are identical to the numbers and titles presented in the full MasterFormat 2004 Edition (2nd printing, October 2005) publication available for purchase from CSI and CSC.

MasterFormat™ is the specifications-writing standard for most commercial building design and construction projects in North America. It lists titles and section numbers for organizing data about construction requirements, products, and activities. By standardizing such information, MasterFormat facilitates communication among architects, specifiers, contractors and suppliers, which helps them meet building owners' requirements, timelines and budgets.



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GreenFormat

GreenFormat™ Questionnaire Version 1.0 November 17, 2008

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Introduction

GreenFormat™ is a CSI Format that identifies and organizes the sustainability measuring properties of products. It will help manufacturers accurately identify key product characteristics and provide designers, constructors and building operators with basic information to help meet "green" requirements. The Format consists of a questionnaire to obtain specific information from manufacturers about the sustainability of the products they produce, and the construction materials and processes they use. The information shared in the questionnaire will be made available to designers and other construction professionals in GreenFormat through a website (www.greenformat.com). GreenFormat allows manufacturers to identify the sustainable criteria, standards and certifications that apply to their products, and gives designers, constructors and others an easy way to evaluate the various sustainable aspects of materials, products and processes.



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2.1.3 Third Party Certification - Indoor Emissions

This certification indicates that an independent third party has tested a product's compliance to an emissions standard or set of criteria.

	Certification Organization	Level	Certification Number	Activation Date	Length of Term
GREENGUARD	_____	*drop list	_____	_____	_____
FloorScore	SCS /RFCI	N/A	_____	_____	_____
Indoor Advantage	SCS	**drop list	_____	_____	_____
CHPS/CA 01350	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____

*GREENGUARD Indoor Air Quality/Greenguard for Children & Schools
 **Indoor Advantage/Indoor Advantage Gold



2.1.5 Second Party Certification - Whole Product Sustainability

Second party certification indicates that a government, industry organization, or other invested party has set a standard for sustainable criteria, and the organization certifies that the manufacturer complies with stated sustainable criteria. Many countries have a single government-recognized organization to provide certification. In the USA however, standard development and product certification may be conducted by a variety of different entities. These certifications indicate that a second party has tested a product's compliance to a multi-attribute standard that attempts to cover all key aspects of a product's sustainability. This category contains questions that relate to LEED rating system points. For specifics, see the GreenFormat-LEED Relationships Table.

	Certification Organization	Level	Certification Number	Activation Date	Length of Term
Cradle-to-Cradle	MBDC	* drop list	_____	_____	_____
SMaRT	MIS	_____	_____	_____	_____
EU Flower	_____	_____	_____	_____	_____
Nordic Swan (Scandinavia)	_____	_____	_____	_____	_____
Blue Angel (Germany)	_____	_____	_____	_____	_____
Environmental Choice /	_____	_____	_____	_____	_____



2.1.9 Self-Declaration of Compliance - Whole Product Sustainability

Self-declaration of compliance, or 'first party' certification, indicates that a manufacturer or supplier declares the product meets a specific listed standard. For ANSI approved standards like NSF-140, a manufacturer must have the option to have the product first-, second- or third-party certified to the standard. While a manufacturer may self declare that their carpet meets NSF-140, many manufacturers obtain certification by an independent third party for the added credibility that independent assessment provides.

	Certification Organization	Level	Certification/Standard Number	Test Organization	Test Date
BIFMA E3 Business and Institutional Furniture Sustainability Standard		Silver/Gold/Platinum			
NSF 140 Sustainable Carpet Assessment		Silver/Gold/Platinum			



Acceptable

"Product A contributes toward satisfying Credit X under LEED."

"Product A [complies with] X requirements of Credit X under LEED."

NOTE: Short statements claiming that a product meets certain LEED performance criteria may be used if the statement does not suggest endorsement by USGBC or product certification and the following statement is included in connection with the claim:

Products are not reviewed or certified under the LEED Rating System. LEED credit requirements cover the performance of materials in aggregate, not the performance of individual products or brands. For more information on LEED, visit www.usgbc.org/leed

Unacceptable

"Product A is LEED [certified/qualified/compliant/ accredited/approved]"

"LEED product"

"Product A [meets/satisfies/fulfills/complies with] Credit X"

Statements not mentioned above connecting the performance of a product with LEED must be reviewed and approved by the USGBC Marketing Department. Contact: marketing@usgbc.org



SS SITI SOSTENIBILI

Questa area va ad interessare:

- ✓ **CANTIERE**, ponendo come **PREREQUISITO** le modalita' di **cantierizzazione**
- ✓ **LOCALIZZAZIONE DELL' AREA**
- ✓ **QUANTITA' E TIPOLOGIA DEGLI SPAZI APERTI**,
- ✓ **PROGETTAZIONE ILLUMINOTECNICA**,



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Sustainable Sites		Possible Points: 26
Prereq 1	Construction Activity Pollution Prevention	
Credit 1	Site Selection	1
Credit 2	Development Density and Community Connectivity	5
Credit 3	Brownfield Redevelopment	1
Credit 4.1	Alternative Transportation—Public Transportation Access	6
Credit 4.2	Alternative Transportation—Bicycle Storage and Changing Rooms	1
Credit 4.3	Alternative Transportation—Low-Emitting and Fuel-Efficient Vehicles	3
Credit 4.4	Alternative Transportation—Parking Capacity	2
Credit 5.1	Site Development—Protect or Restore Habitat	1
Credit 5.2	Site Development—Maximize Open Space	1
Credit 6.1	Stormwater Design—Quantity Control	1
Credit 6.2	Stormwater Design—Quality Control	1
Credit 7.1	Heat Island Effect—Non-roof	1
Credit 7.2	Heat Island Effect—Roof	1
Credit 8	Light Pollution Reduction	1



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WE EFFICIENZA DELL'ACQUA

Questa area va ad interessare:

- ✓ **PROGETTAZIONE E ALLESTIMENTO DEGLI IMPIANTI E DEI DISPOSITIVI DELLE ACQUE**
- ✓ **PROGETTAZIONE DEL VERDE/PAESAGGISTICA**



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Water Efficiency		Possible Points:	10
Prereq 1	Water Use Reduction—20% Reduction		
Credit 1	Water Efficient Landscaping		2 to 4
	<input type="checkbox"/> Reduce by 50%		2
	<input type="checkbox"/> No Potable Water Use or Irrigation		4
Credit 2	Innovative Wastewater Technologies		2
Credit 3	Water Use Reduction		2 to 4
	<input type="checkbox"/> Reduce by 30%		2
	<input type="checkbox"/> Reduce by 35%		3
	<input type="checkbox"/> Reduce by 40%		4



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EA ENERGIA E ATMOSFERA

Questa area va ad interessare:

✓ **PROGETTAZIONE E CANTIERE**, ponendo come **PREREQUISITO** il **FOUNDAMENTAL COMMISSIONING** dei sistemi e degli impianti (meccanici, elettrici, illuminotecnici, idrico sanitari, energie rinnovabili), secondo le modalità proprie della disciplina che partono dalla verifica della rispondenza del progetto ai requisiti, attraverso la supervisione e verifica delle caratteristiche degli impianti dalla consegna e durante le fasi di installazione, fino alle fasi di verifica e collaudo.



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Energy and Atmosphere		Possible Points: 35
Prereq 1	Fundamental Commissioning of Building Energy Systems	
Prereq 2	Minimum Energy Performance	
Prereq 3	Fundamental Refrigerant Management	
Credit 1	Optimize Energy Performance	1 to 19
	Improve by 12% for New Buildings or 8% for Existing Building Renovations	1
	Improve by 14% for New Buildings or 10% for Existing Building Renovations	2
	Improve by 16% for New Buildings or 12% for Existing Building Renovations	3
	Improve by 18% for New Buildings or 14% for Existing Building Renovations	4
	Improve by 20% for New Buildings or 16% for Existing Building Renovations	5
	Improve by 22% for New Buildings or 18% for Existing Building Renovations	6
	Improve by 24% for New Buildings or 20% for Existing Building Renovations	7
	Improve by 26% for New Buildings or 22% for Existing Building Renovations	8
	Improve by 28% for New Buildings or 24% for Existing Building Renovations	9
	Improve by 30% for New Buildings or 26% for Existing Building Renovations	10
	Improve by 32% for New Buildings or 28% for Existing Building Renovations	11
	Improve by 34% for New Buildings or 30% for Existing Building Renovations	12
	Improve by 36% for New Buildings or 32% for Existing Building Renovations	13
	Improve by 38% for New Buildings or 34% for Existing Building Renovations	14
	Improve by 40% for New Buildings or 36% for Existing Building Renovations	15
	Improve by 42% for New Buildings or 38% for Existing Building Renovations	16
	Improve by 44% for New Buildings or 40% for Existing Building Renovations	17
	Improve by 46% for New Buildings or 42% for Existing Building Renovations	18
	Improve by 48%+ for New Buildings or 44%+ for Existing Building Renovations	19
Credit 2	On-Site Renewable Energy	1 to 7
	1% Renewable Energy	1
	3% Renewable Energy	2
	5% Renewable Energy	3
	7% Renewable Energy	4
	9% Renewable Energy	5
	11% Renewable Energy	6
	13% Renewable Energy	7
Credit 3	Enhanced Commissioning	2
Credit 4	Enhanced Refrigerant Management	2
Credit 5	Measurement and Verification	3
Credit 6	Green Power	2



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MR MATERIALI E RISORSE

Questa area va ad interessare:

✓ **PROGETTAZIONE** per la **GESTIONE DEI RIFIUTI**, ponendo come **PREREQUISITO** di individuare un'area **ORGANIZZATA** all'interno dell'area di progetto per raccolta differenziata dei materiali riciclabili.

✓ **TIPOLOGIA DI INTERVENTO** sul patrimonio esistente, promuovendo il mantenimento/riuso/ampliamento di strutture edilizie e/o di materiali pre-esistenti

✓ **CANTIERE**

✓ **PROGETTAZIONE ARCHITETTONICA E STRUTTURALE**,
MATERIALI UTILIZZATI



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Materials and Resources		Possible Points: 14
Prereq 1	Storage and Collection of Recyclables	
Credit 1.1	Building Reuse—Maintain Existing Walls, Floors, and Roof	1 to 3
	Reuse 55%	1
	Reuse 75%	2
	Reuse 95%	3
Credit 1.2	Building Reuse—Maintain 50% of Interior Non-Structural Elements	1
Credit 2	Construction Waste Management	1 to 2
	50% Recycled or Salvaged	1
	75% Recycled or Salvaged	2
Credit 3	Materials Reuse	1 to 2
	Reuse 5%	1
	Reuse 10%	2
Credit 4	Recycled Content	1 to 2
	10% of Content	1
	20% of Content	2
Credit 5	Regional Materials	1 to 2
	10% of Materials	1
	20% of Materials	2
Credit 6	Rapidly Renewable Materials	1
Credit 7	Certified Wood	1



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IAQ QUALITA' DELL'AMBIENTE INTERNO

Questa area determina parametri legati alla SALUBRITA' degli interni, e alla SALUTE ed al COMFORT egli occupanti, interessando:

- ✓ **PROGETTAZIONE DEGLI IMPIANTI e DELLE AREE FUNZIONALI** , ponendo come requisito una **PERFORMANCE MINIMA** di qualità dell'aria interna, e la protezione dall'inquinamento da fumo.
- ✓ **CANTIERE**,
- ✓ **SALUBRITA'** degli ambienti, **SALUTE e COMFORT** degli occupanti,



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Indoor Environmental Quality		Possible Points:	15
Prereq 1	Minimum Indoor Air Quality Performance		
Prereq 2	Environmental Tobacco Smoke (ETS) Control		
Credit 1	Outdoor Air Delivery Monitoring		1
Credit 2	Increased Ventilation		1
Credit 3.1	Construction IAQ Management Plan—During Construction		1
Credit 3.2	Construction IAQ Management Plan—Before Occupancy		1
Credit 4.1	Low-Emitting Materials—Adhesives and Sealants		1
Credit 4.2	Low-Emitting Materials—Paints and Coatings		1
Credit 4.3	Low-Emitting Materials—Flooring Systems		1
Credit 4.4	Low-Emitting Materials—Composite Wood and Agrifiber Products		1
Credit 5	Indoor Chemical and Pollutant Source Control		1
Credit 6.1	Controllability of Systems—Lighting		1
Credit 6.2	Controllability of Systems—Thermal Comfort		1
Credit 7.1	Thermal Comfort—Design		1
Credit 7.2	Thermal Comfort—Verification		1
Credit 8.1	Daylight and Views—Daylight		1
Credit 8.2	Daylight and Views—Views		1



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ID INNOVAZIONE

Questa area va ad interessare l'INNOVAZIONE.

✓**INNOVAZIONE:** rientrano in questa tipologia sia le PRESTAZIONI ECCEZIONALI (individuate rispetto ai Crediti della lista), sia soluzioni del progetto che abbiano la caratteristica di essere RIPETIBILI e che apportino un avanzamento dimostrato nella disciplina.

✓**LEED AP**, promuovendo l'inserimento nel team di progetto della figura del LEED AP.



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Innovation and Design Process		Possible Points: 6
Credit 1.1	Innovation in Design: Specific Title	1
Credit 1.2	Innovation in Design: Specific Title	1
Credit 1.3	Innovation in Design: Specific Title	1
Credit 1.4	Innovation in Design: Specific Title	1
Credit 1.5	Innovation in Design: Specific Title	1
Credit 2	LEED Accredited Professional	1

Regional Priority Credits		Possible Points: 4
Credit 1.1	Regional Priority: Specific Credit	1
Credit 1.2	Regional Priority: Specific Credit	1
Credit 1.3	Regional Priority: Specific Credit	1
Credit 1.4	Regional Priority: Specific Credit	1



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I CONTRIBUTI CHE LA PIASTRELLA PUO' DARE ALLO STANDARD LEED®

LEED 2009 for New Construction and Major Renovation		Project Name																																																								
Project Checklist		Site																																																								
Sustainable Sites Possible Points: 26		Materials and Resources, Continued																																																								
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Materials and Resources Possible Points: 14		Regional Priority Credits Possible Points: 4																																																								
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Total Possible Points: 110																																																										



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LA PIASTRELLA



MR 4 – Contenuto Materiale Riciclato

MR 5 – Materiali regionali

SS 7 – Effetto isola di calore

EQ 4 – Materiali a bassa emissione



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LA PIASTRELLA: Materiale Riciclato

MR Credito 4: Contenuto di riciclato

1 - 2 Punti

Finalità

Aumentare la domanda di prodotti da costruzione che contengano materiali a contenuto di riciclato, riducendo in tal modo gli impatti derivanti dall'estrazione e dalla lavorazione di materiali vergini.

Template



CREDIT COMPLIANCE

Enter the material descriptions and their corresponding recycled content information in the table below. The combined post-consumer and pre-consumer recycled percentage should not be greater than 100%.

*For cost values do not use commas and enter numbers only i.e. enter 100000 for \$100,000

Material Name	Manufacturer	Material Cost* (\$)	Post-Consumer Recycled Content (%)	Pre-Consumer Recycled Content (%)	Recycled Content Information Source

CLEAR

CLEAR



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LA FINESTRA



[EAp2 – Performance Energetiche](#)

[EAcr1 – Ottimizzazione efficienza energetica](#)

[MRcr4 – Materiale riciclato](#)

[MRcr5 – Materiale regionale](#)

[MRcr7 – Legno Certificato](#)

[EQcr4 – Materiali basso emissivi](#)



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LA FINESTRA: Ottimizzazione dell'efficienza energetica

Requisito



EA Credito 1: Ottimizzazione delle prestazioni energetiche

1 - 19 Punti

Finalità

Raggiungere livelli crescenti di prestazioni energetiche per gli edifici e gli impianti proposti, superiori ai valori minimi richiesti dalla normativa, al fine di ridurre gli impatti economico-ambientali associati all'uso eccessivo di energia.



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LA FINESTRA: Ottimizzazione dell'efficienza energetica (La modellizzazione)

Le specifiche richieste da **ASHRAE 90.1-2004** riguardano il valore della **trasmissione U** e del **fattore solare** in dipendenza della superficie finestrata; a seconda del tipo di vetro scelto/richiesto saranno da fornire tali valori.
U -> gruppo prestazionale 2.1 secondo DIN 4108 ($2,0 < U_r \leq 2,8$ W/mq °K); g -> a seconda del tipo di vetro scelto/richiesto ($g_{max} = 0,41$);

Table 4: Baseline and Proposed Design Input Parameters

Performance Rating Method Compliance Report			Page 2
Comparison of Proposed Design versus Baseline Design Energy Model Inputs:			
Building Element	Proposed Design Input	Baseline Design Input	
Envelope			
Above Grade Wall Construction(s)	1. Steel-frame Construction, R-19 insulation, 16 in. OC, 6" depth, U-factor = 0.109	Steel-frame Construction, R-13 insulation, U-factor = 0.124	
Below Grade Wall Construction	Not applicable	Not Applicable	
Roof Construction	Built-up Roof, Insulation entirely above deck, R-30 ci, U-factor = 0.032, Roof Reflectivity = 0.45 (cool roof)	Insulation entirely above deck, R-15ci, U-factor = 0.063, Roof Reflectivity = 0.30	
Exterior Floor Construction	Not Applicable	Not Applicable	
Shad-on-Grage Construction	Uninsulated, r=0.730	Uninsulated, r=2.730	
Window-to-Gross Wall Ratio	23%	23%	
fenestration Type(s)	1. Dual-Pane Metal Frame tinted low-E glass doors with thermal break 2. Dual-Pane Metal-Frame low-E glass windows with thermal break	1. North Orientation 2. South, East, West Orientations	
Fenestration Assembly U-factor	1. 0.61 2. 0.59	1. 0.57 2. 0.57	
Fenestration Assembly SHGC	1. 0.25 2. 0.25	1. 0.39 2. 0.25	
Fenestration Visual Light Transmittance	1. 0.44 2. 0.44	1. 0.44 2. 0.44	
Fixed Shading Devices	1. None	1. None	




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LA FINESTRA: Ottimizzazione dell'efficienza energetica (Certificazione - documentazione)

ES. Certificato Valore U

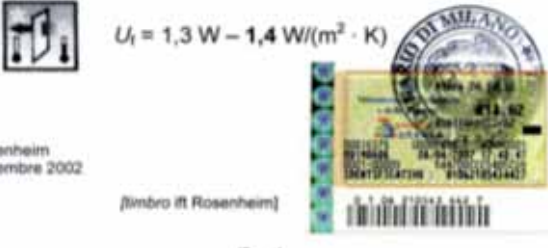


Coefficiente di trasmissione termica

$U_f = 1,3 \text{ W} - 1,4 \text{ W}/(\text{m}^2 \cdot \text{K})$

ift Rosenheim
25 novembre 2002

(timbro ift Rosenheim)




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LA FINESTRA: Legno certificato

MR Credito 7: Legno certificato

1 Punto

Finalità

Incoraggiare l'uso ecologico e responsabile della gestione forestale.

Template



CERTIFIED WOOD MATERIALS CALCULATION

Enter the values for all new wood-based components below to calculate the certified wood percentage for the project.

*For cost values do not use commas and enter numbers only i.e. enter 100000 for \$100,000

Product Name	Vendor	Product Cost (\$)*	Wood Component Percentage (%)	FSC Certified Wood Percentage (%) of Wood Component	FSC Chain-of-Custody Certificate Number from Vendor or On-Product Label
			%	%	
			%	%	

CLEAR

CLEAR



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LA FINESTRA: Emissioni

QI Credito 4.1: Materiali basso emissivi: adesivi, primer, sigillanti, materiali cementizi e finiture per legno

1 Punto

Finalità

Ridurre all'interno dell'edificio i contaminanti che risultano odorosi, irritanti e/o nocivi per il comfort ed il benessere degli installatori e degli occupanti.

List of all Indoor Aerosol Adhesives

Product Manufacturer	Product Name / Model	Product VOC Content (g/L)	Green Seal, GS-36, Allowable VOC Content (g/L)	Source of VOC Data



VT INDUSTRIES LEED® Version 3 CERTIFICATION OPPORTUNITIES

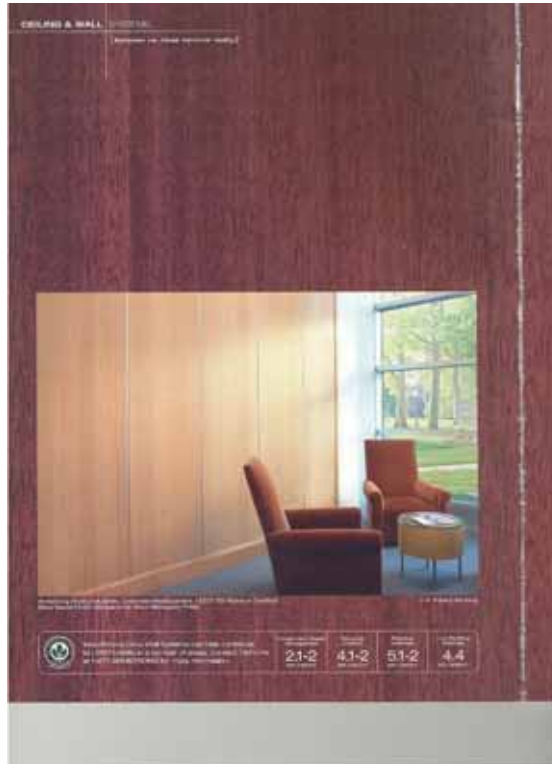
The LEED® Building for Innovation and Environmental Design Green Building Rating System is a voluntary, consensus-based national standard for identifying high performance, sustainable buildings. Members of the U.S. Green Building Council representing 49 segments of the building industry developed LEED and continue to contribute to its evolution.

In VT, specifically, the green industry assisting our manufacturing industries to create environmental opportunities, VT Green Building Center joined with the GREEN SOURCE™ Environmental Institute (EI), and via GREENSOURCE our GreenSource® and GreenSource® Green & Smart® Certified. Our website also assists in achieving LEED credits including the key credits: regional materials, rapidly renewable materials, recycled wood and low-volatile organic.

VT INDUSTRIES CAN ASSIST IN ACHIEVING LEED v3 CERTIFICATION
For projects registered with the USGBC after June 30, 2009

LEED CREDIT	LEED CRITERIA	PLUM BOARDS	STILE & RAIL DOORS
4	Recycled Content 7.5 points 10% Recycled Content + 7.5 pre-consumer 20% Recycled Content + 7.5 pre-consumer	Yes	Yes
5	Regional Materials 7.5 points 10% Fabricated, Processed and Manufactured Regionally 20% Fabricated, Processed and Manufactured Regionally	Yes	Yes
6	Rapidly Renewable Material	Yes	Yes
7	Certified Wood 1 point FSC Certified	Yes	Yes
4.4	Low-Volatile Materials - Low-Volatile Wood and Adhesive Products	Yes	Yes





GREEN BUILDING COUNCIL ITALIA

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LEED Product Evaluation

CSW

Product: Homasote Products Company: Homasote Company
Completed By: James Clunan - Sales Engineer

1. Product Entry

When did this product enter the market and what are the dates of improvements, updates, or revisions?

The basic Homasote® board (now known as 440 SoundBarrier®) has been manufactured since 1956. Pre-finished wall panels (DesignWall®, Burlap Panel, and NovaCork®) were introduced after World War I. Pinnacle™ panels (440 SoundBarrier sanded on both sides) were introduced in 2003. Roofing products (EasyFly® and Finest® Roof Deck, Thermoac® and N.C.F.R.® Thermoac® Nailbase Roof Insulation) and the Homax300 concrete expansion joint were introduced in the 50's and expanded upon through the 60's, 70's and 80's. All Homasote products have been manufactured from recycled post-consumer paper since the company's founding in 1900.

2. Third Party Certifications - LEED MR Credit 7

List any third party certifications your product or company holds (i.e. Green Seal, Forest Stewardship Council, Energy Star).

Forest Stewardship Council (FSC) certification, Certif SGS-COC-000682.

3. Warranty & Leasing Options - LEED MR Credits 3.1-2

Briefly describe warranties and lease-back options.

Please see the Homasote Company Limited Warranty at <http://www.homasote.com/warranty>.

4. Manufacturing Location - LEED MR Credits 5.1-2

Where is the product manufactured?

Homasote products are manufactured at our sole manufacturing facility located in West Trenton, New Jersey, 08625.

5. Distribution Location - LEED MR Credit 5.1

From where is the product distributed?

We ship from our West Trenton manufacturing location to distributors across the U.S., and internationally.

6. Regional Materials - LEED MR Credit 5.2

From where are the product's raw materials extracted, harvested or recovered? Please list approximate percentages.

Homasote sources its raw materials (post-consumer paper) from the recycling programs of two New Jersey counties within 50 miles of the plant.

7. Renewable Materials - LEED MR Credit 6

What percentage, if any, does the manufacturing process use of any rapidly renewable materials or agricultural waste?

LEED Product Evaluation

CSW

Homasote uses a "closed-loop" system, recycling all process water, dust, scrap and product rejects.

1. Recycled & Reused Content - LEED MR Credits 3.1-2, 4.1-2

What percentage of recycled, salvaged or reused materials is used in your manufacturing process? What percentage is post-consumer? Post-industrial?

Depending upon product, from a maximum of 98% to a minimum 44% is post-consumer recycled content. Our production system recycles all dust, scrap and product rejects on a continuous basis.

8. Packaging - LEED MR Credits 3.1, 3.2

Is packaging minimized or reusable, or does it contain any recycled material?

Packaging is minimized.

10. Emissions - LEED EQ Prerequisite 1, ED Credit 1, 4.1-4.4

Does the product, its installation, or maintenance of it emit any known airborne toxins? (i.e. VOCs, CO₂, SO_x, NO_x, CFCs, HCFCs, HFCs, etc.)

Homasote products are not produced with, nor do they contain formaldehydes, ureas, phenolics or resins.

11. Waste - LEED MR Credits 2.1-2

Does installation of this product involve waste material? If so, what is the typical average percentage?

All Homasote products typically are installed as shipped, creating almost no product waste.

12. Reuse - LEED MR Credits 3.1, 3.2

Is your product reusable and/or do installation techniques allow it to be easily removed without damage?

Homasote products are recyclable. Easy removal depends upon installation.

13. Disposal - LEED MR Credits 2.1-2

Does disposal of your product present any known environmental risks?

None. Homasote is paper-based, recyclable and biodegradable.

End

HomasoteLEED_Eval_2006226



GREEN BUILDING COUNCIL ITALIA

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DOMANDE



GREEN BUILDING COUNCIL ITALIA