

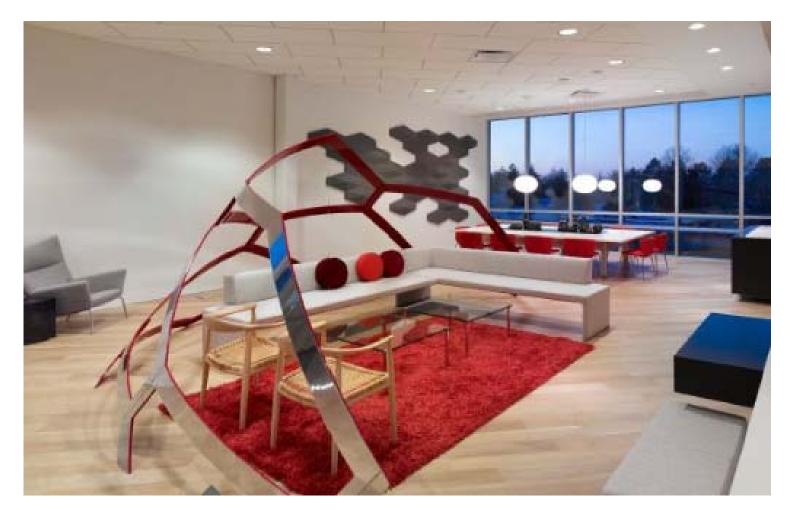
Mary Ellen Mika, LEED-AP, C.P.M. Supply Chain Manager, Steelcase Inc. GC3 Annual Meeting, Sysco, Houston, Texas April 2010 Steelcase

### **Key Drivers for Sustainability at Steelcase**

"Protect the Environment," a Steelcase core value
 > 90% of customer RFQs include sustainability inquiries
 "Lean and Green" solutions reduce waste and cost













# **Steelcase Sustainability Initiatives**

Materials Chemistry | Life Cycle Assessment | Recycling & Reuse

 $(MC + LCA + R^2)$ 

□ Eliminating potentially hazardous materials from products and processes.

- □ Maintaining responsibility for full product composition and life cycle.
- Designing products to facilitate recycling and reuse.

### **Recycling / Reuse**



Significant Recycled Content

Designed for quick disassembly

Parts marked for proper recycling stream

Help our customers dispose of / recycle product at the end of its useful life.

#### Steelcase Environmental Partnership Program Provides a network to donate, refurbish, resell and recycle.

# What supporting information do customers want? Steelcase Product Environmental Profile – Answer®

Product Category —	Systems	Solutions:	Panel-based
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Certifications

- MBDC Cradle to Cradle Certified<sup>CM</sup>– Silver
   SCS Indoor Advantage<sup>™</sup> and Indoor Advantage<sup>™</sup> Gold certified (depending on
- options) for indoor air quality in North America
   level™ 2 (depending on options) and level™ 1 certified to BIFMA e3 standard
- LEED Contribution Recycled content, regional materials, rapidly renewable materials, certified wood, low emitting materials, daylight and views and sustainable purchasing

Environmental Facts – 73% recyclable

- 44% recycled content
- PVC-free work surface edge banding available
- PVC-free power available



#### Materials Chemistry

Together with McDonough Braungart Design Chemistry (MBDC), one of the world's leading sustainable design firms, we're assessing all of the chemicals and materials used in our products down to 100 parts per million - evaluating them against 19 human and environmental health criteria. As a result, we're forming a cradle-to-cradle strategy for all of our products. All major categories of materials for Answer have been assessed.

## What supporting information do customers want?

#### Life Cycle Assessment

We work with the University of Michigan's Center for Sustainable Systems to complete life cycle assessments for all of our major products to better understand the environmental impact of every stage of a product's life. A life cycle assessment has been completed on standard Answer workstation components.

#### **Recycling & Reuse**

We select materials that can be recycled at the end of a product's use and then design in such a way that they can be easily disassembled and separated. To simplify recycling, we minimize co-mingled components, consider the number and type of fasteners and are committed to making disassembly easy with common hand tools. Adhesives are eliminated if possible.

#### **Recycled Content Summary**

Total Weight (lbs) 570.7 - BIFMA Typical Open Plan Workstation

Recycled Content (lbs)	251.8	Recycled Content	44%
Post Consumer (lbs)	105.5	Post Consumer	18%
Pre Consumer (lbs)	146.3	Pre Consumer	26%
Recyclable Content (lbs)	414.8	Recyclable Content	73%

### What supporting information do customers want?

CONFIDENTIAL

#### Sustainability Score Card

SSC

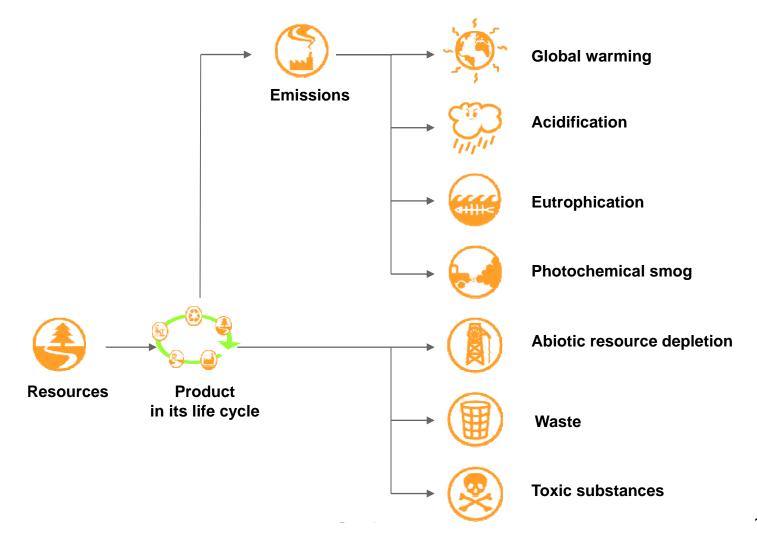
#### Metrics

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CATEGORY	PARAMETER	LBS	%	INDEX
RECYCLING	Pre-Consumer	12.533	17.9	
	Post-Consumer	0.000	0.0	
	Recyclable	50.456	72.3	0
C2C CERTIFICATIONS	Gold	10.934	15.7	0
	Silver	30.267	43.4	0.0
C2C Chemistry	Green	2.987	4.3	0
	Yellow	34.245	49.1	0
	Red	0.600	0.0	
	Black	0.456	0.6	 
	Grey	32.092	46.0	
SCS Indoor Advantage	Gold	6.345	9.1	
	Silver	50.356	72.2	0

# Life Cycle Assessment

...measuring the impact at each stage of the product's "life"



## Results of the Life Cycle Assessment for one Steelcase Product

#### Distribution of the environmental impacts for the relevant life cycle stages

	Category	Unit	Total	Materials	Production	Transport	End of Life
				G			
-)	Global warming	[g CO <sub>2</sub> -eq.]	102 610.0	67 800.0	27 700.0	3 720.0	3 390.0
	Acidification	[g SO <sub>2</sub> -eq.]	836.6	535.0	266.0	35.3	0.3
	Eutrophication	[g NO <sub>3</sub> -eq.]	712.2	471.0	179.0	59.2	3.0
	Photochemical smog	[g C <sub>2</sub> H <sub>4</sub> -eq.]	24.2	18.0	0.8	4.6	0.7

No relevant environmental exchanges occur during the use stage of the product.

#### Draft level certification list: NeoCon 2010:

#### level 1:

- o media:scape lounge
- media:scape-submitted for level 1
- Convene
- o Icon
- Context
- Dearborn
- o Crew
- o Uno
- o Jenny
- Jersey
- Wood Seating

#### level 2:

- EE6
- Walden
- Montage
- o Universal Storage

#### level 3:

- Think (no restrictions)
- o cobi
- Leap
- Amia

Level Certification

level 1

level 2

level 3

5.9.1

## Supplier Data Collection: BIFMA e3 / level

	Credit		Description	Points		
	Credit 5.2		Climate Neutral Materials			
	Credit 5.3		Life Cycle Assessment			
	5.3.1	Apply first two	of the four elements in ISO 14040 during product design	1		
	5.3.2	Evidence that a company	has completed an LCA utilizing all four components outlined in ISO 14040	1		
	5.3.3	Evidence that a compan	y has completed an independent third party peer review of its LCA	1		
	Credit 5.4		Efficient Use of Materials			
	5.4.1		Material efficiency of 60%	1		
	5.4.2		Material efficiency of 70%	1		
	Credit 5.5		Rapidly Renewable Materials			
	5.5.1	Select rene	wable materials for use as an element of the product	1		
	5.5.2	Ensure that renewable material production waste is not destined for dispoal				
	Credit 5.6	Biobased Renewable Materials - Sustainable Wood				
ons)	5.6.1 Base	50% of the total wood weight of the product is compliant to a qualified organizations sustainable forest practices, OR				
		A minimum of 20% of the total wood weight of the product is compliant to FSC responsible forest practices				
	5.6.2 Adv.	75% of the total wood weight of the product is compliant to a qualified organizations sustainable forest practices, OR				
		A minimum of 30% of the	e total wood weight of the product is compliant to FSC responsible			
		Product Related	forest practices			
Point	s Required	<b>Points Required</b>	Recycled Content			
20	-44 points	5 points	umer + 1/2 post-industrial) or meet Table One Guidelines	1		
52	-++ points	5 points	+ 1/2 post-industrial) or exceed Table One Guidelines by 20%	1		
45	-62 points	11 points	Packaging	1		
63	-90 points	18 points	Recyclable and Biodegradable Materials y: Identify and quantify the amount of recyclable & biodegradable materials in the product.	1		
			- materials in the product			

# Supplier Data Collection

#### SUPPLIER'S COMMI (to be emailed as a pdf to kgray2@steelca

Name of the supplier (referred to below as "the Supplier")

Name of the supplier's representative;...

Email address of the supplier's representative;

commits to inform Steelcase Inc. and/ when new substances included in the Referto: http://echa.europa.eu/chem

From:

To:

Cc:

Subject:

			CARB	Phase 2 Effectiv	e Dates	
			HWPW-VC: 1-1-2010	MDF: 1-1-2011	PB: 1-1-2011	
			HVPV-CC: 7-1-	Thin MDF: 1-1-2012		
	0			Certs Collected f		
	Supplier Name Altus	h1 Statu	HVPV	MDF	PB	
	Aitus American Hardwoods Inc.	Complete Complete		Flakeboard ph1 Empresa 121 ph1		
	AmFab Inc.	Complete		Plum Creek ph1 & 2*	Tafisa ph1	
1	This op ne.	Complete			Sierrapine ph1 Uniboard ph1	
UPPLIER'S COMMITMENT	Arconas Corp	NA		W. Fraser ph1		
to <u>kgray2@steelcase.com</u> ,	Babcock	Complete		ATC ph1	ATC ph1 Uniboard ph1	
	Bay View Industries	Complete		Temple-Inland ph1	Sierrapine ph1 & 2*	
w as "the Supplier"):	Bennett/Peter Lumber	Complete	SHJW ph1 & 2 PASA - PW exemp			
	Bold Companies	Complete		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
(a.	BTD Wood Powder	Complete		i and Cra	aftwood li	ndustries
sentative;	Coating [tier 1 supplier: Innovative Plastics, Inc.]			"Tr. on		
	CCN International	Complete	JSC RB ph2			
	Cedar Crest Wood Produc	Complete				
	Central Hardwoods	Complete	Mt. Baker ph1			
m Steelcase Inc. and/or its aff	Chervan	Complete	Krasnyi Yakor ph2			
ances included in the Candic			OAO Fanplit ph?			
a.europa.eu/chem_data/car	Columbia Forest Products	Complete	OAO UIFK ph2			
_	Columbia Porest Products	Complete	Syktyvkar ph2 Syktyvkar ph1 OAO Fanplit ph?	April 30, 2	2009	
	Concannon Lumber/	Complete	OAO UIFK ph? JSC RB ph2			
From: 👄 Gray, Karen			Sent: Fri 2/20	1		
To: OPeter.Dow@Milliken.com				All	products sold or	shipped by Craf
Cc: 🛛 🔴 Rogalla, Aron; 💌 Mika, Mary	/Ellen			and/or its	affiliates and sub	sidiaries ("Steel
Subject: New European Union REACH	Regulation			Phase I re	quirements as of	May 15, 2009.1
🖂 Message   🖳 Milliken & Co - REACH.x	Is (22 KB)	EACH Supp	olier's Commitment-		ce which confirm	
Dear Supplier,				Industries	Inc. produces or	ootains noifi su
As a supplier of products to Steelcase In- sold to our customers in Europe, please : 1. a list of all products on the attache	send us:			11	hhi	1
	p. saaster sep priou			1 00 11		

Terry W. Beckering President / Owner Craftwood Industries, Inc.

Supplier Name	FRRoforence		The Courseline second in the information
AGRITEK IND INC	1A18260		The Supplier commits to infor ("Steelcase") when new subst
APEX SPRING & STAMPING	1A45364		(products). (Refer to: http://ech
ASBER ENTERPRISE COLTD	1B26504		(producis). (Refer to: mtp.//eci
ASBER ENTERPRISE COLTD	1B26499		
ASBER ENTERPRISE COLTD	1B26495		YES
ASBER ENTERPRISE COLTD	1A75145		120
ASBER ENTERPRISE COLTD	1B26512		NO
BRAYTON INTERNATIONAL	1A09208		
BRAYTON INTERNATIONAL	1A09209		
BRAYTON INTERNATIONAL	1A05120	2	
ERVINS GROUP LLC	1B06978		The Supplier commits to inf
ERVINS GROUP LLC	1A847216205		formulation of its products.
ERVINS GROUP LLC	1A98194		
ERVINS GROUP LLC	1B15040		100
ERVINS GROUP LLC	1A98193		YES
ERVINS GROUP LLC	1A84724		
ERVINS GROUP LLC	1A847216284		NO
ERVINS GROUP LLC	1B08670		
ERVINS GROUP LLC	1A88299	891046502	UPHOLSTERY - J-CHANNEL, BA
ERVINS GROUP LLC	1A88298	891046501	UPHOLSTERY - J-CHANNEL ,SE
ERVINS GROUP LLC	1A45351	909046200	FLEX WEBBING ASSEMBLY
ERVINS GROUP LLC	1A48782 6296	906246212-5	010 COVER-SEAT, UNDER - (FRA) S
ERVINS GROUP LLC	1B26517	909048200	FLEX WEBBING ASSEMBLY - 48
ERVINS GROUP LLC	1A88301	891046512	UPHOLSTERY - J CHANNEL, B/
EST COMPANY	1B06972	803146200	BACK FRAME ASSEMBLY - AL
G & T INDUSTRIES INC.	1B29211	893048201	BUMPER-STOP, CLIP, TALL
	1A84677		100 SCREW - SHOULDER, SPECIAL,
GEXPRO SERVICES	1A09210	852045653	RIVET - PIVOT, TENSION
GEXPRO SERVICES	1A45346	851030100	NUT - PUSH, PALNUT, 250
GEXPRO SERVICES	1A33508	871045620	RECEIVER - PINTLE, CASTER
GEXPRO SERVICES	102039	854045802	SCREW - TAPPING, TRUSS HD,
GEXPRO SERVICES	103796	854045327	SCREW-TAPPING, PNH, TORX, 2
GEXPRO SERVICES	1B17122	853046202-9	100 SCREW - TAPPING.TRH. 220 X.

3. the concentration (weight percentage) of these substances in the product; and 4. the attached commitment ("REACH Supplier's Commitment"); completed and signed (regardless of whether your products contain any of these substances).

2. the CAS (Chemical Abstract Service) number of these substances;

Steelcase is required to have this information to fulfil our legal obligations under REACH by the end of March 2009. Please send your response by March 15, 2009.

included in the European Chemical Agency (ECHA) Candidate list of "Substances of Very

http://echa.europa.eu/chem\_data/candidate\_list\_table\_en.asp [please be aware that the CAr

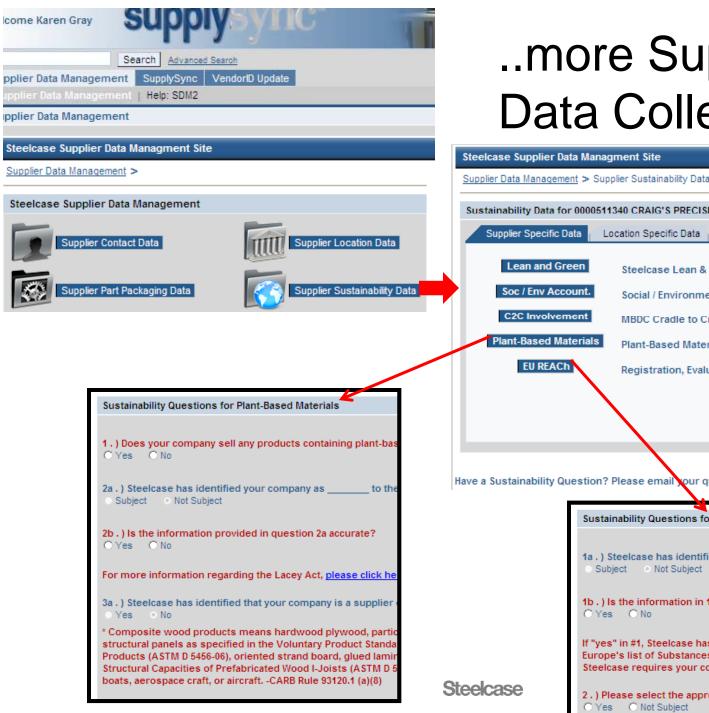
Background information on the REACH Regulation.

Concern" (found at the following website:

List will be regularly updated by ECHA]);

The European REACH Regulation Number 1907/2006 on the Registration, Evaluation, Authorization and restriction of Chemicals entered into force on June 1, 2007. While setting new rules for the management of chemical substances, REACH requires more communication between customers and suppliers on the substances they buy and sell.

On October 28, 2008, ECHA included 15 substances on their initial Candidate List of Substances of Very High Concern (SVHC) for authorization. The inclusion of SVHCs in the Candidate List for authorization (REACH Article 59) triggers the notification and communication requirements for "substances in articles"



...more Supplier **Data Collection** 

	Steelcase Supplier Data Managment Site						
	Supplier Data Management > Supplier Sustainability Data						
	Sustainability Data for (	0000511340 CRAIG'S PRECISION MACHINE					
ta	Supplier Specific Data	a Location Specific Data Material Specific Data					
	Lean and Gree	Steelcase Lean & Green Assessment					
y Data	Soc / Env Accou	nt. Social / Environmental Accountability					
	C2C Involveme	MBDC Cradle to Cradle Involvement					
	Plant-Based Mate	rials Plant-Based Materials, Lacey Act, and CARB 93120					
	EU REACh	Registration, Evaluation, Authorisation and Restriction of Chemicals					
as	Have a Sustainability Que	estion? Please email your questions to <u>Karen Gray</u> or <u>MaryEllen Mika</u> .					
	Г	Sustainability Questions for EU REACh					
ne tic da nir 55	teelcase	1a.) Steelcase has identified that your company is to REACH         Subject       Not Subject         1b.) Is the information in 1a accurate?         Yes       No         If "yes" in #1, Steelcase has records indicating that any of the produ         Europe's list of Substances of Very High Concern (SVHCs) will be u         Steelcase requires your continued compliance to REACh by reporti         2.) Please select the appropriate button below to acknowledge that O Yes					

List of Materials to provide Chemicals of Interest data for:									
₽	Status	\$	Material Number	÷	Material Description		÷		
$\nabla$	*	-							
	9		19162A02		SPL JUNCTION ASSY XT TRIM 54				
	9		19778A01		SPL HORZ BEAM, ASM, 1750 MM JPN				
	9		19778A02		HORIZONTAL BEAM, ASM, 1550 MM				
	9		19778A03		SPL HORIZONTAL BEAM ASM, 750 mm				
	9		19778A04		HORIZONTAL BEAM, ASM, 400 MM				
	Z Z Page 1 of 46 Z Z								
Rese	Reset Limit List to Selected Materials View Chemicals of Interest Data								
Chemicals of Interest for Selected Materials.									
C	CAS Registry Number Chemical Name PPM (Optional) DI						DI		
No.d	No data eviste for this material OD a Material basent been selected to View/Indate								

No data exists for this material OR a Material hasn't been selected to View/Update.

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#### Select Chemical(s) of Interest

₽	CAS Registry Number	Chemical Name
$\nabla$		
	(NONE)	None of the Listed Chemicals of Interest
	amixtureof	$\label{eq:approx_star} A \ mixture \ of: \ 4-[[bis-(4-fluorophenyl)-methylsilyl]methyl]-4H-1, 2, 4-triazole; \ 1-[[bis-(4-fluorophenyl)methyl-silyl]-methyl]-1H-1, 4-triazole; \ 1-[[bis-(4-fluorophenyl)methyl-silyl]-methyl]-1H-1, 4-triazole; \ 1-[[bis-(4-fluorophenyl)methyl-silyl]-methyl]-1H-1, 4-triazole; \ 1-[[bis-(4-fluorophenyl]methyl]-1H-1, 4-triazole; \ 1-[[bis-(4-fluorophenyl]methyl]-1H-1, 4-triazole; \ 1-[[bis-(4-fluorophenyl]methyl]methyl]-1H-1, 4-triazole; \ 1-[[bis-(4-fluorophenyl]methyl]methyl]methyl]-1H-1, 4-triazole; \ 1-[[bis-(4-fluorophenyl]methyl]methyl]methyl]methyl]methy$
	arsenicinorg	Arsenic (inorganic oxides)
	benzidinedye	Benzidine-based dyes
	ceramicfib	Ceramic fibers (airborne particles of respirable size)
	Page 1 of 121	
Rese	Add CASRN to Wor	k Area

"One size fits all" for suppliers? Or a "tailored solution"?

The dilemma... "whether to align the whole company's policies with the 'highest common denominator' and bear the costs of setting stringent standards worldwide, or to deal with the complexity of a patchwork of standards in operations around the globe."

### Stronger Supply Chain = Stronger Steelcase.



