

# GUIDE TO LEED V4 CREDITS

When you choose Scranton Products sustainable materials for your restrooms, lockers and other applications, you are supporting a healthier environment. Scranton Products High Density Polyethylene (HDPE) reduces environmental impact and offers both initial and long-term improvements to the indoor air quality of your projects.

Incorporating Scranton Products HDPE sustainable materials can contribute

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## Material & Resources

- Recycled Content
- REACH Optimization
- Construction Waste Diversion

## Indoor Air Quality

- Low Emitting Materials
  - Interior Lighting - Surface
  - Reflectance
- 

points toward LEED v4 certification in the following categories:

### **MATERIAL & RESOURCES**

LEED v4 Credit Information - Building Product Disclosure and Optimization - Sourcing of Raw Materials

Option 2. Leadership Extraction Practices (1 point)

Use products that meet at least one of the responsible extraction criteria below for at least 25%, by cost, of the total value of permanently installed building products in the project.

Recycled content. Recycled content is the sum of the post-consumer recycled content plus one-half the pre-consumer recycled content, based on cost. Products meeting recycled content criteria are valued at 100% of their cost for the purposes of credit achievement calculations.

How Scranton Products Contributes to LEED v4 Recycled Content Credit

Scranton Products uses factory responsible recycling to incorporate between 30 and 85% recycled content in each product. This recycled content is made up of both post-consumer and pre-consumer materials. Refer to the charts below for recycled content by color for HDPE Solid Plastic Bathroom Par ons and Lockers made by Scranton Products.

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## POST-CONSUMER & PRE-CONSUMER RECYCLED CONTENT

COLOR	PARTITIONS COLORS			
	Black		Fire-Rated	
	Post	Pre	Post	Pre
Black	0%	70%	0%	42.3%
Blueberry	0%	6%	0%	21.8%
Bronze	0%	14.7%	0%	18.4%
Burgundy	0%	13.4%		
Charcoal Grey	0%	39%	0%	31.5%
Concrete	0%	8.7%		
Desert Beige	0%	19%	0%	13.6%
Fossil	0%	10%		
French Blue	0%	14%		
Glacier Grey	0%	16.2%		
Grey	0%	14%	0%	20.9%
Hunter Green	0%	0.2%		
Linen	0%	10.2%	0%	21.4%
Mahogany	0%	16.2%		
Midnight	0%	27.2%		
Mocha	0%	6.2%		
Nickel	0%	13%	0%	17.5%
Paisley	0%	79.3%	0%	54.2%
Sandcastle	0%	13.3%		
Sandstone	0%	21.3%		
Shale	0%	42.2%	0%	30.5%
Stainless Steel	0%	23.3%	0%	23.1%
White	0%	32.9%	0%	19.1%

COLOR	LOCKER COLORS			
	Tufftec		Duralife	
	Post	Pre	Post	Pre
Black	0%	73.6%	0%	83.8%
Blueberry	0%	16.1%	0%	0%
Burgundy	0%	0%	0%	0%
Charcoal Grey	0%	69.3%	0%	51.4%
Desert Beige	0%	23.2%	0%	0%
Glacier Grey	0%	21.4%	0%	0%
Grey	0%	30.4%	0%	31.9%
Hunter Green	0%	0%	0%	0%
Mahogany			0%	0.5%
Red			0%	0%
Royal Blue			0%	10.4%
Sandcastle	0%	9.2%	0%	0%
Yellow			0%	0%

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## **LEED v4 Credit Information - Building Product Disclosure and Optimization - Material Ingredients**

Option 2. Material Ingredient Optimization (1 point)

Use products that document their material ingredient optimization using the paths below for at least 25%, by cost, of the total value of permanently installed products in the project.

International Alternative Compliance Path – REACH Optimization. End use products and materials that do not contain substances that meet REACH criteria for substances of very high concern. If the product contains no ingredients listed on the REACH Authorization or Candidate list, value at 100% of cost.

### **How Scranton Products Contributes to LEED v4 REACH Optimization**

The solid plastic sheet material used to construct Scranton Products bathroom partitions and lockers is not manufactured or formulated above the 0.1% threshold, with any of the 161 Substances of Very High Concern (SVHC) listed in the candidate list that is current as of the effective date of December 17, 2014 (<http://echa.europa.eu/web/guest/candidate-list-table>).

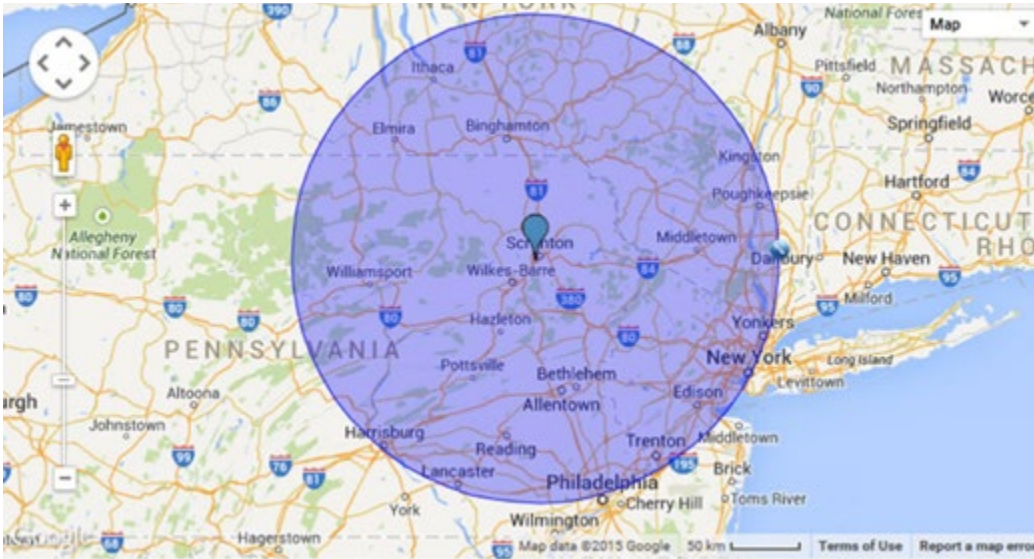
## **LEED v4 Credit Information - Building Product Disclosure and Optimization - Local Sourcing**

For Building Product Disclosure and Optimization credit achievement calculation (Recycled Content and REACH Optimization), products sourced (extracted, manufactured, and purchased) within 100 miles (160 km) of the project site are valued at 200% of their base contributing cost.

### **How Scranton Products Contributes to LEED v4 Local Sourcing**

Below is a map showing a 100 mile radius from Scranton Products manufacturing location at 801 East Corey Street, Scranton, PA 18505.

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## LEED v4 Credit Information - Construction and demolition waste management

Recycle and/or salvage nonhazardous construction and demolition materials. Calculations can be by weight or volume but must be consistent throughout.

Option 1. diversion (1-2 points)

Path 1. divert 50% and three material streams (1 point)

Divert at least 50% of the total construction and demolition material; diverted materials must include at least three material streams.

Path 2. divert 75% and four material streams (2 points)

Divert at least 75% of the total construction and demolition material; diverted materials must include at least four material streams.

Option 2. reduction of total waste material (2 points)

Do not generate more than 2.5 pounds of construction waste per square foot (12.2 kilograms of waste per square meter) of the building's floor area.

## How Scranton Products Contributes to LEED v4 Construction Waste Diversion

Scranton Products HDPE solid plastic products are 100% recyclable. Scranton Products offers a program by which all unwanted solid plastic articles we manufacture can be returned for recycling. Please contact a customer service agent for more information.

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## INDOOR ENVIRONMENTAL QUALITY

### LEED v4 Credit Information - Low Emitting Materials

Furniture evaluation. New furniture and furnishing items must be tested in accordance with ANSI/BIFMA Standard Method M7.1-2011. Comply with ANSI/BIFMA e3-2011 Furniture Sustainability Standard, Sections 7.6.1 and 7.6.2, using either the concentration modeling approach or the emissions factor approach. Model the test results using the open plan, private office, or seating scenario in ANSI/BIFMA M7.1, as appropriate. USGBC-approved equivalent testing methodologies and contaminant thresholds are also acceptable. For classroom furniture, use the standard school classroom model in CDPH Standard Method v1.1. Documentation submitted for furniture must indicate the modeling scenario used to determine compliance.

Salvaged and reused furniture more than one year old at the time of use is considered compliant, provided it meets the requirements for any site-applied paints, coatings, adhesives, and sealants.

### How Scranton Products Contributes to LEED v4 Low Emitting Materials

Scranton Products solid plastic bathroom partitions and lockers are GREENGUARD Gold certified. Please click on the link below to download GREENGUARD certification documents <http://productguide.ulenvironment.com/SearchResults.aspx?BrandID=1033>. In addition, Scranton Products solid plastic HDPE products do not require any site-applied paints, coatings, adhesives or sealants. Power-washable and steam cleanable means harmful chemical cleaners are not needed.

### LEED v4 Credit Information - Interior lighting

Option 2. Lighting quality (1 point)

Choose four out of seven strategies.

E. For 90% of the regularly occupied floor area, meet the following thresholds for area-weighted average surface reflectance: 85% for ceilings, 60% for walls, and 25% for floors.

F. If furniture is included in the scope of work, select furniture finishes to meet the following thresholds for area-weighted average surface reflectance: 45% for work surfaces, and 50% for movable partitions.

G. For 75% of the regularly occupied floor area, meet ratio of average wall surface illuminance (excluding fenestration) to average work plane (or surface, if defined) illuminance that does not exceed 1:10. Must also meet strategy E, strategy F, or demonstrate area weighted surface reflectance of 60% for walls.

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Color Selection	LRV	Aira Hiny Hiders Eclipse	Tufftec	Duralife
Black	4	●	●	●
Blueberry	6	●	●	●
Bronze	22	●		
Burgundy	8	●		●
Charcoal Grey	15	●		●
Concrete	36	●		
Desert Beige	40	●	●	●
Fossil	24	●		●
French Blue		●		
Glacier Grey	72	●		●
Grey	33	●	●	
Hunter Green	7	●		●
Linen	63	●		●
Mahogany	5	●		
Midnight		●	●	
Mocha	31	●		
Nickel	30	●		
Paisley	4	●		
Parchment	54	●		
Red	11			●
Royal Blue	7			●
Sandcastle	50	●		●
Sandstone	44	●		
Shale	11	●		
Stainless Steel	31	●		
Steel Blue	28			●
Violet	9			●
White	87	●		
Yellow	49			●

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