

Attachment - 2: ITEMS REQUIRING RECYCLED MATERIALS

1. RECYCLED CONSTRUCTION PRODUCTS

The recovered materials content levels for construction products are listed in the following tables:

**Recovered Materials Content Levels for Building Insulation**

<b>Item</b>	<b>Recovered Materials (%)</b>
Rock Wool	Slag 75
Fiberglass	Glass Cullet 20-25
Cellulose Loose-Fill and Spray-On	Postconsumer Paper 75
Perlite Composite Board	Postconsumer Paper 23
Plastic Rigid Foam Polyisocyanurate/ Polyurethane:	
- Rigid Foam	Recovered Material 9
- Foam-in-Place	Recovered Material 5
- Glass Fiber Reinforced	Recovered Material 6
Phenolic Rigid Foam	Recovered Material 5
Plastic, Non-Woven Batt	Recovered Material 100

**Recovered Materials Content Levels for Structural Fiberboard and Laminated Paperboard**

<b>Product</b>	<b>Postconsumer Recovered Paper (%)</b>	<b>Total Recovered Materials Content (%)</b>
Structural Fiberboard		80-100
Laminated Paperboard	100	100

**Recovered Materials Content Levels for Reprocessed & Consolidated Latex Paint**

<b>Product</b>	<b>Postconsumer Content (%)</b>	<b>Total Recovered Materials Content (%)</b>
Reprocessed Latex Paint		
- White, Off White, Pastel Colors	20	20
- Grey, Brown, Earth tones, & Other Dark Colors	50-99	50-99
Consolidated Latex Paint	100	100

**Recovered Materials Content Levels for Showers & Restroom Dividers/Partitions Containing Recovered Steel or Plastic**

<b>Product</b>	<b>Postconsumer Content (%)</b>	<b>Total Recovered Materials Content (%)</b>
Steel	16	25-30
	67	100
Plastic	20-100	20-100

**Recommended Specifications for Cement and Concrete Containing Recovered Materials**

<b>Cement Specifications</b>	<b>Concrete Specifications</b>
ASTM C 595, "Standard Specification for Blended Hydraulic Cements"	ASTM C 618, "Standard Specification for Fly Ash and Raw or Calcined Natural Pozzolan for use as a Mineral Admixture in Portland Cement and Concrete"
ASTM C 150, "Standard Specification for Portland Cement"	ASTM C 311, "Standard Methods of Sampling and Testing Fly Ash and Natural Pozzolans for Use as a Mineral Admixture in Portland Cement"
AASHTO M 240, "Blended Hydraulic Cements"	AASHTO M 302, "Ground-Granulated Blast Furnace Slag for Use in Concrete and Mortars"
	American Concrete Institute Standard Practice ACI 226R1, "Ground-Granulated Blast Furnace Slag as a Cementitious Constituent in Concrete"

**Recovered Materials Content Levels for Carpet**

<b>Product</b>	<b>Resin</b>	<b>Postconsumer Materials (%)</b>
Polyester Carpet Face Fiber	PET	25-100

**Recovered Materials Level for Floor Tiles and Patio Blocks**

<b>Product</b>	<b>Material</b>	<b>Postconsumer Materials (%)</b>	<b>Total Recovered Materials (%)</b>
Patio Blocks	Rubber or Rubber Blends	90-100	-
	Plastic or Plastic Blends	-	90-100
Floor Tiles (heavy duty/commercial use)	Rubber	90-100	-
	Plastic	-	90-100

**Recovered Material Content Levels for Carpet Cushion**

<b>Product</b>	<b>Material</b>	<b>Postconsumer Content (%)</b>	<b>Total Recovered Materials (%)</b>
Bonded Polyurethane	Old Carpet Cushion	15-50	15-50
Jute	Burlap	40	40
Synthetic Fibers	Carpet Fabrication Scrap	-	100
Rubber	Tire Rubber	60-90	60-90

**Materials Quantities for Flowable Fill Mixture**

Component	Quantity per Cubic Yard (lbs)
Cement	50
Coal Fly Ash	250
Foundry Sand	2850
Water	500

**Recovered Materials Content Levels for Railroad Grade Crossing Surfaces**

Surface Material	Recovered Material	Postconsumer Content (%)	Total Recovered Materials (%)
Concrete	Fly Ash	-	15-50
Rubber	Tire Rubber	-	40
Steel	Steel	16	25-30
		67	100

2. PARK AND RECREATION PRODUCTS

**Recovered Materials Content Levels for Fencing Containing Recovered Plastics**

Material	Postconsumer Content	Total Recovered Materials (%)
Plastic	60-100	90-100

**Recovered Materials Content Levels for Playground Surfaces and Running Tracks**

Product	Material	Postconsumer Recovered Materials (%)
Playground Surfaces	Rubber or Plastic	90-100
Running Tracks	Rubber or Plastic	90-100

**Recovered Materials Content Levels for Park Benches and Picnic Tables**

Product	Postconsumer Content	Postconsumer Recovered Materials (%)
Plastics	90-100	100
Plastic Composites	50-100	100
Aluminum	25	25
Concrete	-	15-40
Steel	67	100

**Recovered Materials Content Levels for Playground Equipment**

Product	Postconsumer Content	Postconsumer Recovered Materials (%)
Plastics	90-100	100
Plastic Composites	50-75	95-100
Steel	16	25-30
	67	100
Aluminum	25	25

### 3. LANDSCAPING PRODUCTS

#### **Recovered Materials Content Levels for Hydraulic Mulch Products**

<b>Hydraulic Mulch Products</b>	<b>Recovered Materials (%)</b>
Paper-Based Hydraulic Mulch	Post consumer Recovered Paper 100
Wood-Based Hydraulic Mulch	Recovered wood and/or Paper 100

#### **Recovered Materials Content Levels for Lawn and Garden Edging**

<b>Material</b>	<b>Postconsumer Content</b>	<b>Total Recovered Materials (%)</b>
Plastic and/or Rubber	30-100	30-100