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# Use of Recycled Materials in Highway Construction

Appendix I

February 1992

WA-RD 252.3

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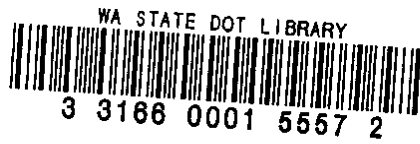
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TRANSPORTATION DIVISION



**Washington State Department of Transportation**  
Planning, Research and Public Transportation Division

25292



APPENDIX I. \*

DATABASE OF RECYCLED MATERIALS SUPPLIERS AND VENDORS

\* Special thanks to Mr. Ed Lowe, editor of the "OFFICIAL" Recycled Products Guide, who allowed us to use some of their listings for purposes of this study only.

## Recycled and Waste Materials

<u>Type of Material</u>	Aggregate
<u>Source/ Vendor</u>	Portland Sand & Gravel 10717 SE Division Portland, OR 97266 (503) 252-3497
<u>Contact</u>	Ralph Griffin
<u>Activity</u>	Processor
<u>Certified Minimum Recycled Content</u>	100% recycled aggregate from construction and demolition sites. Sometimes strengthened with lime.
<u>Remarks</u>	Both new and recycled cost about the same. Significant (15-20%) cost savings on quarrying to processor.

Recycled and Waste Materials

Type of Material

Aggregate

Source/  
Vendor

Tualatin Valley Paving  
21880 SW Farmington Road  
Beaverton, OR 97007  
(503) 642-2531

Contact

Jim Records

Activity

Certified  
Minimum  
Recycled  
Content

100% recycled aggregate from construction and demolition sites. Sometimes strengthened with lime.

Remarks

Recycled availability is good. More supply could be processed if it were made available.

Recycled and Waste Materials

Type of Material

Aggregates

Source/  
Vendor

Stoneway Rock and Recycling  
6808 So. 140th  
Renton, WA 98055  
(206) 226-1000

Contact

Activity

Certified  
Minimum  
Recycled  
Content

Unknown

Remarks

Recycled and Waste Materials

Type of Material      Anti-freeze

Source/  
Vendor                Lilyblad Petroleum Inc.  
P. O. Box 1556  
2244 Port of Tacoma Rd.  
Tacoma, WA 98401 (206) 682-1990    Fax: (206)  
383-8724

Contact                Mr. John Schute

Activity

Certified  
Minimum  
Recycled  
Content                50% recycled content  
45% post-consumer waste

Remarks                Ecogreen brand. Meets all equipment manufacturers  
requirements.

Recycled and Waste Materials

Type of Material

Anti-freeze - Recycled

Source/  
Vendor

Anti-Freeze Environmental Service Corp.  
c/o 17414 - 143rd Place NE  
Woodinville, WA 98072  
(206) 483-9191

Contact

Robert Wander

Activity

Certified  
Minimum  
Recycled  
Content

Remarks

Recycled and refined ethylene glycol produces a low silicate, non-phosphate anti-freeze. AES's two formulas meet coding, freeze protection and corrosion requirements.

Recycled and Waste Materials

<u>Type of Material</u>	Asphalt - Chips
<u>Source/ Vendor</u>	Asphalt Recovery Systems, Inc. 4415 W. Montrose Ave., Ste 1 Chicago, IL 60641 (312) 202-8308 Fax: 312/202-0214
<u>Contact</u>	Michael M. Gaudio
<u>Activity</u>	Manufacturer
<u>Certified Minimum Recycled Content</u>	100% Total Recycled Content 100% Waste Roofing & Aggregate
<u>Remarks</u>	Partial substitute for virgin asphalt in hot paving mixes.



Recycled and Waste Materials

Type of Material Asphalt - Crack Sealant

Source/  
Vendor Craftco, Inc.  
10 Grandview Dr.  
Lathem, NY 12110  
(518) 783-8020, (800) 441-6959 Fax: 518/783-8027

Contact Tom Kelly

Activity Manufacturer

Certified  
Minimum  
Recycled  
Content 25% Total Recycled Content  
25% Postconsumer Tires

Remarks Contact directly for local dealer.

Recycled and Waste Materials

Type of Material Asphalt - Crack Sealant

Source/  
Vendor W.R.C. Inc.  
P.O. Box 7  
Castle Rock, CO 80104  
(303) 791-1030

Contact Don Padilla

Activity Manufacturer

Certified  
Minimum  
Recycled  
Content Up to 35% Total Recycled Content  
20-35% Postconsumer Tires  
30-50% Asphalt

Remarks

Recycled and Waste Materials

Type of Material Asphalt - Rubber Membrane

Source/  
Vendor Asphalt Rubber Systems  
466 Forbes St.  
Riverside, RI 02915  
(401) 433-3343 Fax: 401/437-0570

Contact Ed Hamlin

Activity Manufacturer

Certified  
Minimum  
Recycled  
Content 23% Total Recycled Content  
23% Postconsumer Tires

Remarks

## Recycled and Waste Materials

<u>Type of Material</u>	Asphalt - Rubberized
<u>Source/ Vendor</u>	Asphalt Rubber Systems 466 Forbes St. Riverside, RI 02915 (401) 433-3343 Fax: 401/437-0570
<u>Contact</u>	Ed Hamlin
<u>Activity</u>	Manufacturer
<u>Certified Minimum Recycled Content</u>	23% Total Recycled Content 23% Postconsumer Tires
<u>Remarks</u>	

Recycled and Waste Materials

Type of Material Asphalt - Rubberized

Source/  
Vendor Craftco, Inc.  
10 Grandview Dr.  
Lathem, NY 12110  
(518) 783-8020, (800) 441-6959 Fax: 518/783-8027

Contact Tom Kelly

Activity Manufacturer

Certified  
Minimum  
Recycled  
Content 25% Total Recycled Content  
25% Postconsumer Tires

Remarks Contact directly for local dealer.

Recycled and Waste Materials

Type of Material Asphalt - Rubberized

Source/  
Vendor International Surfacing, Inc.  
6751 W. Galveston  
Chandler, AZ 85226  
(602) 268-0874 Fax: 602/961-0766

Contact Jeffrey R. Smith

Activity Manufacturer

Certified  
Minimum  
Recycled  
Content 23% Total Recycled Content  
23% Postconsumer Tires

Remarks We distribute and apply our own products.

**Recycled and Waste Materials**

**Type of Material**

Asphalt - Rubberized

**Source/  
Vendor**

W.R.C. Inc.  
P.O. Box 7  
Castle Rock, CO 80104  
(303) 791-1030

**Contact**

Don Padilla

**Activity**

Manufacturer

**Certified  
Minimum  
Recycled  
Content**

Up to 35% Total Recycled Content  
25-35% Postconsumer Tires  
65-75% Asphalt

**Remarks**

## Recycled and Waste Materials

<u>Type of Material</u>	Asphalt - Rubberized Chip Seal
<u>Source/ Vendor</u>	Asphalt Rubber Systems 466 Forbes St. Riverside, RI 02915 (401) 433-3343 Fax: 401/437-0570
<u>Contact</u>	Ed Hamlin
<u>Activity</u>	Manufacturer
<u>Certified Minimum Recycled Content</u>	23% Total Recycled Content 23% Postconsumer Tires
<u>Remarks</u>	



Recycled and Waste Materials

Type of Material Asphalt - Rubberized Chip Seal

Source/  
Vendor W.R.C. Inc.  
P.O. Box 7  
Castle Rock, CO 80104  
(303) 791-1030

Contact Don Padilla

Activity Manufacturer

Certified  
Minimum  
Recycled  
Content Up to 35% Total Recycled Content  
20-35% Postconsumer Tires  
30-50% Asphalt

Remarks

## Recycled and Waste Materials

<u>Type of Material</u>	Asphalt Products
<u>Source/ Vendor</u>	Special Asphalt Products, Inc. 710 Railroad Ave. Kent, WA 98032 (206) 859-2886
<u>Contact</u>	Barney Balcom
<u>Activity</u>	
<u>Certified Minimum Recycled Content</u>	
<u>Remarks</u>	Tru-stop - parking stops and speed bumps manufactured from recycled plastic; Resufacer - pavement sealer made with recycled ingredients; Hot pour - crack sealer manufactured with recycled rubber.

Recycled and Waste Materials

Type of Material Bumper - Trailer

Source/  
Vendor Durable Mat Co.  
75 N. Pleasant St.  
Norwalk, OH 44857  
(419) 668-8138, (800) 537-1603 Fax: 419/668-8068

Contact Charlie Rice

Activity Manufacturer

Certified  
Minimum  
Recycled  
Content 80% Total Recycled Content  
80% Postconsumer Truck Tires

Remarks

Recycled and Waste Materials

Type of Material

Bumper - Trailer

Source/  
Vendor

Schuyler Rubber Co., Inc.  
16901 Wood-Red Rd. NE  
Woodinville, WA 98072  
(206) 488-2255, (800) 426-3917 Fax: 206/488-2424

Contact

Dennis Kerber

Activity

Manufacturer

Certified  
Minimum  
Recycled  
Content

Up to 95% Total Recycled Content  
90-95% Postconsumer Tires

Remarks

Call for distributor list.

Recycled and Waste Materials

Type of Material      Bumper - Trailer

Source/  
Vendor                Scientific Developments Inc.  
P.O. Box 2522  
Eugene, OR 97402  
(503) 686-9844, (800) 824-6853      Fax: 503/485-8990

Contact                Dan Walden

Activity                Manufacturer

Certified  
Minimum  
Recycled  
Content                100% Total Recycled Content  
100% Postconsumer Tires

Remarks                Currently selling direct.

Recycled and Waste Materials

Type of Material      Bumper - Trailer

Source/  
Vendor                Tennessee Mat Co.  
1400 Third Ave. So.  
Nashville, TN 37210  
(615) 254-8381, (800) 251-1431      Fax: 615/255-4428

Contact                Nick Mead

Activity                Manufacturer

Certified  
Minimum  
Recycled  
Content                95% Total Recycled Content  
95% Postconsumer Tires

Remarks                Over 6000 distributors.    Call for local  
distributor.

Recycled and Waste Materials

<u>Type of Material</u>	Bumper-D-Guard
<u>Source/ Vendor</u>	Schuyler Rubber Co., Inc. 16901 Wood-Red Rd. NE Woodinville, WA 98072 (206) 488-2255, (800) 426-3917 Fax: 206/488-2424
<u>Contact</u>	Dennis Kerber
<u>Activity</u>	Manufacturer
<u>Certified Minimum Recycled Content</u>	Up to 95% Total Recycled Content 90-95% Postconsumer Tires
<u>Remarks</u>	Call for distributor list.

## Recycled and Waste Materials

<u>Type of Material</u>	Bumper-D-Guard
<u>Source/ Vendor</u>	Tennessee Mat Co. 1400 Third Ave. So. Nashville, TN 37210 (615) 254-8381, (800) 251-1431 Fax: 615/255-4428
<u>Contact</u>	Nick Mead
<u>Activity</u>	Manufacturer
<u>Certified Minimum Recycled Content</u>	95% Total Recycled Content 95% Postconsumer Tires
<u>Remarks</u>	Over 6000 distributors. Call for local distributor.



Recycled and Waste Materials

Type of Material

Bumper-Dock

Source/  
Vendor

Baker Rubber Inc.  
P.O. Box 2438  
South Bend, IN 46680  
(219) 291-5101 Fax: 219/291-9152

Contact

William E. Stoler

Activity

Manufacturer

Certified  
Minimum  
Recycled  
Content

100% Total Recycled Content  
100% Postconsumer Tires

Remarks

Recycled and Waste Materials

Type of Material      Bumper-Dock

Source/  
Vendor                Durable Mat Co.  
75 N. Pleasant St.  
Norwalk, OH 44857  
(419) 668-8138, (800) 537-1603      Fax: 419/668-8068

Contact                Charlie Rice

Activity                Manufacturer

Certified  
Minimum  
Recycled  
Content                Up to 85% Total Recycled Content  
50-85% Postconsumer Truck Tires

Remarks                Call for distributor list.

Recycled and Waste Materials

Type of Material      Bumper-Dock

Source/  
Vendor                Schuyler Rubber Co., Inc.  
16901 Wood-Red Rd. NE  
Woodinville, WA 98072  
(206) 488-2255, (800) 426-3917      Fax: 206/488-2424

Contact                Dennis Kerber

Activity                Manufacturer

Certified  
Minimum  
Recycled  
Content                95% Total Recycled Content  
95% Postconsumer Tires

Remarks                Call for distributor list.

Recycled and Waste Materials

<u>Type of Material</u>	Bumper-Dock
<u>Source/ Vendor</u>	Scientific Developments Inc. P.O. Box 2522 Eugene, OR 97402 (503) 686-9844, (800) 824-6853 Fax: 503/485-8990
<u>Contact</u>	Dan Walden
<u>Activity</u>	Manufacturer
<u>Certified Minimum Recycled Content</u>	100% Total Recycled Content 100% Postconsumer Tires
<u>Remarks</u>	Currently selling direct.

## Recycled and Waste Materials

<u>Type of Material</u>	Bumper-Dock
<u>Source/ Vendor</u>	Tennessee Mat Co. 1400 Third Ave. So. Nashville, TN 37210 (615) 254-8381, (800) 251-1431 Fax: 615/255-4428
<u>Contact</u>	Nick Mead
<u>Activity</u>	Manufacturer
<u>Certified Minimum Recycled Content</u>	95% Total Recycled Content 95% Postconsumer Tires
<u>Remarks</u>	Over 6000 distributors. Call for local distributor.

Recycled and Waste Materials

Type of Material

Compost

Source/  
Vendor

Northwest Cascade, Inc.  
P.O. Box 73399  
Puyallup, WA 98373  
(206) 848-2371 Fax: (206) 848-2545

Contact

Lindy Thompson, Mr. Mike Baxter

Activity

Certified  
Minimum  
Recycled  
Content

Remarks

NUTRAMULCH is a product created by composting yard trimmings and waste water byproducts and is supplemented with sawdust in accordance with EPA regulations.

Recycled and Waste Materials

<u>Type of Material</u>	Compost - Yard waste
<u>Source/ Vendor</u>	Cedar Grove Compost Company 17825 Cedar Grove Rd. SE Maple Valley, WA 98038 (206) 432-2395
<u>Contact</u>	Jan Allen
<u>Activity</u>	Producer
<u>Certified Minimum Recycled Content</u>	100% Recycled Yard Waste
<u>Remarks</u>	Is being used on state projects.

Recycled and Waste Materials

Type of Material Compost - yard waste

Source/  
Vendor A. Thorsett Nursery  
22618 - 132nd Ave. SE  
Kent, WA 98042  
(206) 631-5838

Contact

Activity

Certified  
Minimum  
Recycled  
Content

Remarks



## Recycled and Waste Materials

<u>Type of Material</u>	Compost - yard waste
<u>Source/ Vendor</u>	Dowell Co. 760 North Central Avenue Kent, WA 98032 (206) 852-1700
<u>Contact</u>	Mr. Steve Dowell
<u>Activity</u>	Building materials and landscape suppliers.
<u>Certified Minimum Recycled Content</u>	100% recycled content 100% post-consumer waste 100% yard waste
<u>Remarks</u>	Gardening, soil additive.

Recycled and Waste Materials

Type of Material Compost - yard waste

Source/  
Vendor Fresh Start  
18200 Byers Road SE  
Maple Valley, WA 98038

Contact

Activity

Certified  
Minimum  
Recycled  
Content

Remarks

Recycled and Waste Materials

Type of Material      Compost - yard waste

Source/  
Vendor                R & R Nursery  
2004 - 132nd Avenue SE  
Bellevue, WA 98005  
(206) 641-5460

Contact

Activity

Certified  
Minimum  
Recycled  
Content

Remarks

Recycled and Waste Materials

Type of Material

Compost - yard waste

Source/  
Vendor

Red-E Topsoil and Landscape Supply  
18711 Northeast 65th St.  
Redmond, WA 98053  
(206) 885-1477

Contact

Activity

Certified  
Minimum  
Recycled  
Content

Remarks

Recycled and Waste Materials

Type of Material Compost - yard waste

Source/  
Vendor Sayers Fuel  
3809 Rainier Ave. So.  
Seattle, WA 98144  
(206) 723-0564

Contact

Activity

Certified  
Minimum  
Recycled  
Content

Remarks

Recycled and Waste Materials

Type of Material Compost - yard waste

Source/  
Vendor Sky Nursery  
18528 Aurora Ave. No.  
Seattle, WA 98058  
(206) 735-4052

Contact

Activity

Certified  
Minimum  
Recycled  
Content

Remarks

Recycled and Waste Materials

Type of Material Concrete - chunks

Source/  
Vendor The Wall  
407 SW 11th Ave.  
Portland, OR 97205  
(503) 288-7881

Contact Gordon McCutcheon

Activity

Certified  
Minimum  
Recycled  
Content Chunks of sidewalks and driveways are mixed with  
mortar; roughly 90% recycled material.

Remarks Customers are 90% residential and 10% commercial.

Recycled and Waste Materials

Type of Material Concrete Grade Stakes

Source/  
Vendor ECP Corporation  
1715 N. Hercules Ave.  
Clearwater, FL 34625  
(813) 443-7620, (800) 622-2944 Fax: 813/535-7196

Contact Larry L. Smith

Activity Manufacturer

Certified  
Minimum  
Recycled  
Content 100% Total Recycled Content  
100% Recovered Plastic

Remarks



## Recycled and Waste Materials

<u>Type of Material</u>	Concrete Mix
<u>Source/ Vendor</u>	Lone Star Northwest 3510 SW Bond Portland, OR 97201 (503) 222-4210
<u>Contact</u>	Mark Liefke
<u>Activity</u>	Processor
<u>Certified Minimum Recycled Content</u>	100% ready-mix concrete that has been returned from job, processed to separate sand and gravel from cement slurry and returned to the concrete mix.
<u>Remarks</u>	The process for recycling concrete slurry has been recently developed. The manufacturer saves on disposal costs.

Recycled and Waste Materials

Type of Material Concrete Post containing Shredded Rubber Tires

Source/  
Vendor PERMA POST International, Inc.  
215 West Holly St., Suite B-26  
Bellingham, WA 98225  
(206) 734-1526 Spokane, WA (509) 534-8964

Contact Mel Martin in Newport, WA (509) 447-3372

Activity

Certified  
Minimum  
Recycled  
Content Unknown  
Amount  
of  
Shredded Rubber Tires

Remarks 50 year warranty

Recycled and Waste Materials

<u>Type of Material</u>	Crushed Gravel
<u>Source/ Vendor</u>	Renton Concrete Recyclers 1627 Filbert Rd. SE Bothell, WA 98012 (206) 481-9101
<u>Contact</u>	Gordon Vigus
<u>Activity</u>	
<u>Certified Minimum Recycled Content</u>	
<u>Remarks</u>	Manufacturer of a variety of crushed gravel products made from broken concrete and asphalt.

Recycled and Waste Materials

Type of Material Curb Edging

Source/  
Vendor Envirosafe Products, Inc.  
P.O. Box 1074 Murray Hill Stn  
New York, NY 10156-0604  
(212) 529-3720

Contact Stephan L. Lerman

Activity Distributor

Certified  
Minimum  
Recycled  
Content 100% Total Recycled Content  
40-60% Postconsumer Plastic  
30-70% Recovered Plastic  
%'s vary with brands

Remarks

Recycled and Waste Materials

Type of Material

Curb Edging

Source/  
Vendor

Obex, Inc.  
P.O. Box 1253  
Stamford, CT 06901  
(203) 975-9094

Contact

Celeste M. Johnson

Activity

Manufacturer

Certified  
Minimum  
Recycled  
Content

100% Total Recycled Content  
0-100% Postconsumer Mixed Plastic  
0-100% Recovered Mixed Plastic  
%'s and blends will vary as per customer request

Remarks

Recycled and Waste Materials

<u>Type of Material</u>	Curb Edging
<u>Source/ Vendor</u>	Plastic Lumber Co., Inc., The P.O. Box 80075 Akron, OH 44308-0075 (216) 762-8989 Fax: 216/434-7905
<u>Contact</u>	Alan E. Robbins
<u>Activity</u>	Manufacturer
<u>Certified Minimum Recycled Content</u>	100% Total Recycled Content 30-40% Postconsumer Plastic 60-70% Recovered Plastic
<u>Remarks</u>	

Recycled and Waste Materials

Type of Material

Curb Edging

Source/  
Vendor

Superwood of Alabama, Inc.  
P.O. Box 2399  
Selma, AL 36701-2399  
(205) 874-3781 Fax: 205/872-0180

Contact

Harry Stafford

Activity

Manufacturer

Certified  
Minimum  
Recycled  
Content

100% Total Recycled Content  
100% Recovered HDPE, LDPE, PP

Remarks

Recycled and Waste Materials

<u>Type of Material</u>	Cylinder Molds
<u>Source/ Vendor</u>	M.A. Industries, Inc. 303 Dividend Dr. Peachtree City, GA 30269 (404) 487-7761
<u>Contact</u>	Gail Brown
<u>Activity</u>	Manufacturer
<u>Certified Minimum Recycled Content</u>	97% Total Recycled Content 97% Postconsumer PP
<u>Remarks</u>	



## Recycled and Waste Materials

<u>Type of Material</u>	Drainage - Underdrain Unit
<u>Source/ Vendor</u>	Hazey's Equipment & Supply 3360 Three Mile Rd. NW Grand Rapids, MI 49504 (616) 453-3353
<u>Contact</u>	Jack Hazewinkle
<u>Activity</u>	Distributor
<u>Certified Minimum Recycled Content</u>	100% Total Recycled Material 100% Postconsumer Glass
<u>Remarks</u>	Distribute for Glass Aggregate Corp. Brand Name: R.E.D. Pak

Recycled and Waste Materials

Type of Material Drainpipe - plastic

Source/  
Vendor Dalquist, Rush, Sheperd Inc.  
P.O. Box 4625  
Portland, OR 97208  
(503) 285-2832

Contact

Activity

Certified  
Minimum  
Recycled  
Content Usually 20% post-consumer recycled plastic; users  
can specify up to 60% post-consumer without any  
change in performance.

Remarks The Prinsco line of recycled plastic pipe meets  
all standards of the ASTM and ASHTO, except that  
it is not made of all virgin materials.

Recycled and Waste Materials

Type of Material

Engine Coolant/Anti-freeze

Source/  
Vendor

Clean Care Corp.  
P.O. Box 940  
Tacoma, WA 98401  
(800) 282-8128

Contact

Benny L. Taylor

Activity

Certified  
Minimum  
Recycled  
Content

Remarks

Markets recycled mineral spirits solvents,  
anti-freeze coolant, multi-grade motor oil,  
premium HD motor oils, and premium AW hydraulic  
oils.

Recycled and Waste Materials

Type of Material Fender - Marine

Source/  
Vendor Schuyler Rubber Co., Inc.  
16901 Wood-Red Rd. NE  
Woodinville, WA 98072  
(206) 488-2255, (800) 426-3917 Fax: 206/488-2424

Contact Dennis Kerber

Activity Manufacturer

Certified  
Minimum  
Recycled  
Content 90% Total Recycled Content  
90% Postconsumer Tires

Remarks Call for distributor list.

Recycled and Waste Materials

Type of Material Fender - Mooring

Source/  
Vendor Schuyler Rubber Co., Inc.  
16901 Wood-Red Rd. NE  
Woodinville, WA 98072  
(206) 488-2255, (800) 426-3917 Fax: 206/488-2424

Contact Dennis Kerber

Activity Manufacturer

Certified  
Minimum  
Recycled  
Content 90% Total Recycled Content  
90% Postconsumer Tires

Remarks Call for distributor list.

Recycled and Waste Materials

Type of Material Fly Ash - for Concrete

Source/  
Vendor Chem-Ash Inc.  
477 Cross Cut Rd.  
Alabaster, AL 35007  
(205) 663-7123

Contact John P. Rogers

Activity Distributor

Certified  
Minimum  
Recycled  
Content 100% Total Recycled Material  
100% Recovered Coal Ash

Remarks

Recycled and Waste Materials

Type of Material Fly Ash - for Concrete

Source/  
Vendor Gifford-Hill & Company, Inc.  
2515 McKinney Ave. 10th Floor  
Dallas, TX 75201  
(214) 754-5546 Fax: 214/754-5563

Contact Claude K. Brown

Activity Distributor

Certified  
Minimum  
Recycled  
Content 100% Total Recycled Material  
100% Recovered Coal Ash

Remarks Distribute for electric generating plants.

Recycled and Waste Materials

Type of Material

Fly Ash - for Concrete

Source/  
Vendor

Lafarge Corporation/Trinity Fly Ash  
12801 No. Central Expy. #1600  
Dallas, TX 75221  
(214) 934-7373 Fax: 214/960-0527

Contact

Mike Ward

Activity

Distributor

Certified  
Minimum  
Recycled  
Content

100% Total Recycled Material  
100% Recovered Coal Ash

Remarks



Recycled and Waste Materials

Type of Material Fly Ash - for Concrete

Source/  
Vendor Midwest Fly Ash & Materials, Inc.  
P.O. Box 2557  
Sioux City, IA 51102  
(712) 252-4049 Fax: 712/252-4850

Contact Lon Zimmerman

Activity Distributor

Certified  
Minimum  
Recycled  
Content 100% Total Recycled Material  
100% Recovered Coal Ash

Remarks

Recycled and Waste Materials

Type of Material Fly Ash - for Concrete

Source/  
Vendor Nebraska Ash Co.  
P.O. Box 80268  
Lincoln, NE 68501  
(402) 476-0127 Fax: 402/476-3310

Contact L.E. "Tex" Leber

Activity Distributor

Certified  
Minimum  
Recycled  
Content 100% Total Recycled Material  
100% Recovered Coal Ash

Remarks Distribute for Omaha Public Power District.

Recycled and Waste Materials

Type of Material

Form Liners

Source/  
Vendor

International Plastics, Inc.  
310 W. Short  
Lexington, KY 40507  
(606) 233-4332 Fax: 606/255-8052

Contact

Richard Sims

Activity

Manufacturer

Certified  
Minimum  
Recycled  
Content

100% Total Recycled Content  
100% Postconsumer Polycarb.

Remarks

Call for distribution.

Recycled and Waste Materials

Type of Material

Fuel - Chips

Source/  
Vendor

Asphalt Recovery Systems, Inc.  
4415 W. Montrose Ave., Ste 1  
Chicago, IL 60641  
(312) 202-8308 Fax: 312/202-0214

Contact

Michael M. Gaudio

Activity

Manufacturer

Certified  
Minimum  
Recycled  
Content

100% Total Recycled Content  
100% Waste Roofing & Aggregate

Remarks

Partial substitute for coal as fuel in furnace operations.

Recycled and Waste Materials

<u>Type of Material</u>	Geotextile
<u>Source/ Vendor</u>	Amoco Fabrics and Fibers Co. 900 Circle 75 Parkway, #550 Atlanta, GA 30339 (404) 984-4444 Fax: 404/956-2430
<u>Contact</u>	Customer Service
<u>Activity</u>	Manufacturer
<u>Certified Minimum Recycled Content</u>	20% Total Recycled Content 20% Postconsumer Polypropylene
<u>Remarks</u>	Woven and nonwoven geotextiles available.

Recycled and Waste Materials

Type of Material            Geotextile

Source/  
Vendor                        Wellman Quline, Inc.  
                                     P.O. Box 7809  
                                     Charlotte, NC 28241  
                                     (704) 588-4307    Fax: 704/588-5927

Contact                        T.G. Collins

Activity                        Manufacturer

Certified  
Minimum  
Recycled  
Content                        100% Total Recycled Content  
                                     100% Recovered PET

Remarks

Recycled and Waste Materials

Type of Material      Geotextile - Land Fill Caps

Source/  
Vendor                JPS Elastomerics Corp.  
                             395 Pleasant St.  
                             Northhampton, MA 01060  
                             (413) 586-8750      Fax: 413/584-6348

Contact                Richard Taylor

Activity                Manufacturer

Certified  
Minimum  
Recycled  
Content                60% Total Recycled Content  
                             60% Postconsumer PET

Remarks                Call directly for distributors. BRAND NAME:  
                             Terra-Tuff

Recycled and Waste Materials

Type of Material Geotextile - Land Fill Liners

Source/  
Vendor JPS Elastomerics Corp.  
395 Pleasant St.  
Northhampton, MA 01060  
(413) 586-8750 Fax: 413/584-6348

Contact Richard Taylor

Activity Manufacturer

Certified  
Minimum  
Recycled  
Content 60% Total Recycled Content  
60% Postconsumer PET

Remarks Call directly for distributors. BRAND NAME:  
Terra-Tuff



Recycled and Waste Materials

Type of Material

Geotextiles

Source/  
Vendor

Wellman Plastics  
2748 Tanager  
Commerce, CA 90040  
(213) 726-7820

Contact

Les Sussman

Activity

Certified  
Minimum  
Recycled  
Content

Recycled post-consumer plastic fiber.

Remarks

Plastic fiber sheets that let water permeate and keep weeds down for highways and landscaping.

Recycled and Waste Materials

<u>Type of Material</u>	Glass Beads
<u>Source/ Vendor</u>	Potters Industries 350 NW Baker Drive Canby, OR 97013 (503) 266-7814
<u>Contact</u>	Philip Seale
<u>Activity</u>	Manufacturer
<u>Certified Minimum Recycled Content</u>	100% recycled soda lime window glass
<u>Remarks</u>	Beads for highway striping paint.

**Recycled and Waste Materials**

**Type of Material** Landscape Products

**Source/  
Vendor** Cedar Grove Compost Co.  
4730 32nd Ave. So.  
Seattle, WA 98118  
(206) 725-1700

**Contact** Suzanne Lezer

**Activity**

**Certified  
Minimum  
Recycled  
Content**

**Remarks** Products made from recycled grass, leaves and prunings. COMPOST is a rich, dark humus. Can be used as soil amendment to improve soil structure.

Recycled and Waste Materials

Type of Material Landscape Products

Source/  
Vendor Iddings, Inc.  
27525 Covington Way SE  
Kent, WA 98042  
(206) 630-0600

Contact

Activity

Certified  
Minimum  
Recycled  
Content

Remarks Products made from recycled land and clearing  
debris. BARKWOOD MULCH, COMPOST, 5-Way Topsoil.

Recycled and Waste Materials

Type of Material Lumber

Source/  
Vendor Entek Corporation  
722 So. Kimball Ave.  
Southlake, TX 76051  
(817) 481-5588 Fax: 817/488-7931

Contact James Turner (Pres.)

Activity Manufacturer

Certified  
Minimum  
Recycled  
Content 100% Total Recycled Content  
65% Postconsumer Tires  
35% Recovered Cable & Carpet Scrap

Remarks Call directly for distributors.

Recycled and Waste Materials

Type of Material Lumber - Plastic

Source/  
Vendor ARW Polywood, Inc.  
P.O. Box 241  
Hamilton, OH 45012  
(419) 224-2283 Fax: 419/229-5102

Contact Roger E. Many

Activity Manufacturer

Certified  
Minimum  
Recycled  
Content 100% Total Recycled Content  
60% Postconsumer Commingled Plastic  
40% Recovered Commingled Plastic

Remarks Sold directly to end users.

Recycled and Waste Materials

Type of Material Lumber - Plastic

Source/  
Vendor American Container  
Recycling Products Div.  
P.O. Box 217, Plainwell, MI 49080  
(616) 685-9500, (800) 525-1686 Fax: 616/685-2345

Contact Marty Winch

Activity Distributor

Certified  
Minimum  
Recycled  
Content 100% Total Recycled Content  
65% Postconsumer Commingled  
35% Recovered Commingled

Remarks BRAND NAME: Plastalloy

Recycled and Waste Materials

Type of Material Lumber - Plastic

Source/  
Vendor American Plastics Recycling Group Ltd.  
P.O. Box 68  
Ionia, MI 48846  
(616) 527-6677

Contact Customer Service

Activity Manufacturer

Certified  
Minimum  
Recycled  
Content 100% Total Recycled Content  
75% Postconsumer Commingled  
25% Recovered Commingled

Remarks BRAND NAME: Plastalloy



Recycled and Waste Materials

Type of Material

Lumber - Plastic

Source/  
Vendor

DuraPlast Corporation  
Crozer Mills Enterprise Center  
600 Upland Ave., Upland, PA 19015  
(213) 499-7451 Fax: 215/499-1429

Contact

Barbara Henderson

Activity

Distributor

Certified  
Minimum  
Recycled  
Content

100% Total Recycled Content  
100% Postconsumer Commingled Plastic

Remarks

Recycled and Waste Materials

Type of Material Lumber - Plastic

Source/  
Vendor Eaglebrook Products, Inc.  
2650 W. Roosevelt Rd.  
Chicago, IL 60608  
(312) 638-0033 Fax: 312/638-2567

Contact Mike Dahl

Activity Manufacturer

Certified  
Minimum  
Recycled  
Content 100% Total Recycled Content  
100% Postconsumer HDPE

Remarks

Recycled and Waste Materials

Type of Material Lumber - Plastic

Source/  
Vendor Envirosafe Products, Inc.  
P.O. Box 1074 Murray Hill Stn  
New York, NY 10156-0604  
(212) 529-3720

Contact Stephan M. Lerman

Activity Distributor

Certified  
Minimum  
Recycled  
Content 100% Total Recycled Content  
40-60% Postconsumer Plastic  
30-70% Recovered Plastic  
%'s vary with brands

Remarks

Recycled and Waste Materials

Type of Material Lumber - Plastic

Source/  
Vendor Hammers Plastic Recycling Corp.  
HWY 20 & 65 No.  
Iowa Falls, IA 50126  
(515) 648-5073, (800) 338-1438 Fax: 515/648-5074

Contact Roger Lalor

Activity Manufacturer

Certified  
Minimum  
Recycled  
Content 97% Total Recycled Content  
97% Postconsumer HDPE, PET, PE, LDPE

Remarks Dealers in 45 of 50 states

Recycled and Waste Materials

Type of Material Lumber - Plastic

Source/  
Vendor Obex, Inc.  
P.O. Box 1253  
Stamford, CT 06901  
(203) 975-9094

Contact Celeste M. Johnson

Activity Manufacturer

Certified  
Minimum  
Recycled  
Content 100% Total Recycled Content  
0-100% Postconsumer Mixed Plastic  
0-100% Recovered Mixed Plastic  
%'s and blends will vary as per customer request

Remarks BRAND NAME: NovaWood

Recycled and Waste Materials

Type of Material Lumber - Plastic

Source/  
Vendor Plastic Lumber Co., Inc., The  
P.O. Box 80075  
Akron, OH 44308-0075  
(216) 762-8989 Fax: 216/434-7905

Contact Alan E. Robbins

Activity Manufacturer

Certified  
Minimum  
Recycled  
Content 100% Total Recycled Content  
30-40% Postconsumer Plastic  
60-70% Recovered Plastic

Remarks

Recycled and Waste Materials

Type of Material Lumber - Plastic

Source/  
Vendor Plastic Pilings, Inc.  
8560 Vineyard, Suite 510  
Rancho Cucamonga, CA 91730  
(714) 989-7685 Fax: 714/944-6842

Contact Mike Tuley

Activity Manufacturer

Certified  
Minimum  
Recycled  
Content 100% Total Recycled Content  
100% Postconsumer Plastic

Remarks

Recycled and Waste Materials

Type of Material Lumber - Plastic

Source/  
Vendor Plastic Recyclers, Inc.  
75 Wyandanch Ave.  
Wyandanch, NY 11798  
(516) 491-1490 Fax: 516/491-1498

Contact Russell McAllister

Activity Manufacturer

Certified  
Minimum  
Recycled  
Content 100% Total Recycled Content  
60% Postconsumer Commingled Plastic  
40% Recovered HDPE, LDPE

Remarks



## Recycled and Waste Materials

<u>Type of Material</u>	Lumber - Plastic
<u>Source/ Vendor</u>	Recycled Plastics Products 8580 SW Inez Portland, OR 97224 (800) 866-8209
<u>Contact</u>	Eldon Wogen
<u>Activity</u>	
<u>Certified Minimum Recycled Content</u>	
<u>Remarks</u>	Markets products made from recycled material. Plastic composite lumber current product line.

Recycled and Waste Materials

Type of Material

Lumber - Plastic

Source/  
Vendor

Riverhead Milling, Inc.  
6121 Highway 98 No.  
Lakeland, FL 33809  
(813) 858-8299 Fax: 813/859-3532

Contact

L.W. Umstadter

Activity

Manufacturer

Certified  
Minimum  
Recycled  
Content

100% Total Recycled Content  
100% Recovered Wood/Sawdust & Plastic

Remarks

Call direct for distribution.

Recycled and Waste Materials

Type of Material Lumber - Plastic

Source/  
Vendor Superwood of Alabama, Inc.  
P.O. Box 2399  
Selma, AL 36701-2399  
(205) 874-3781 Fax: 205/872-0180

Contact Harry Stafford

Activity Manufacturer

Certified  
Minimum  
Recycled  
Content 100% Total Recycled Content  
100% Recovered HDPE, LDPE, PP

Remarks

Recycled and Waste Materials

Type of Material Lumber - Plastic

Source/  
Vendor Trimax of Long Island  
2076 5th Ave.  
Ronkonoma, NY 11779  
(516) 471-7777 Fax: 516/471-7862

Contact Anthony Noto

Activity Manufacturer

Certified  
Minimum  
Recycled  
Content 100% Total Recycled Content  
100% Postconsumer Polyolefin Materials

Remarks

Recycled and Waste Materials

<u>Type of Material</u>	Oil/Lubricants
<u>Source/ Vendor</u>	Mohawk Lubricant 130 Forester St. N. Vancouver, B.C. Canada V7H 2M9 (604) 929-1282
<u>Contact</u>	John MacDonald
<u>Activity</u>	
<u>Certified Minimum Recycled Content</u>	
<u>Remarks</u>	Recycled and re-refined oil into engine oils and lubricants.

Recycled and Waste Materials

<u>Type of Material</u>	Oil/Lubricants
<u>Source/ Vendor</u>	Morrison Oil Company 3747 N. Suttle Rd. Portland, OR 97217 (503) 286-1673
<u>Contact</u>	Greg Allen
<u>Activity</u>	
<u>Certified Minimum Recycled Content</u>	
<u>Remarks</u>	Recycled and re-refined oil into engine oils and lubricants.

Recycled and Waste Materials

Type of Material Paint - reclaimed

Source/  
Vendor Household HazWaste (Environmental InterGroup Co.)  
3060 Raymond St.  
Santa Clara, CA 95054  
(408) 988-1111, (800) 421-6710

Contact Gavin Brownlie

Activity

Certified  
Minimum  
Recycled  
Content Filtered, color-matched 100% post-consumer latex  
paint available in 10 colors. No lead or mercury.

Remarks Availability limited only by the amount collected  
at household hazardous waste events. The company  
has been able to fill all orders.

Recycled and Waste Materials

Type of Material            Parking Bollards

Source/  
Vendor                        Hammers Plastic Recycling Corp.  
HWY 20 & 65 No.  
Iowa Falls, IA 50126  
(515) 648-5073, (800) 338-1438      Fax: 515/648-5074

Contact                        Roger Lalor

Activity                        Manufacturer

Certified  
Minimum  
Recycled  
Content                        97% Total Recycled Material  
97% Postconsumer HDPE, PET, PE, LDPE

Remarks                        Dealers in 45 of 50 states.



Recycled and Waste Materials

Type of Material

Parking Bollards

Source/  
Vendor

Superwood of Alabama, Inc.  
P.O. Box 2399  
Selma, AL 36701-2399  
(205) 874-3781 Fax: 205/872-0180

Contact

Harry Stafford

Activity

Manufacturer

Certified  
Minimum  
Recycled  
Content

100% Total Recycled Content  
100% Recovered HDPE, LDPE, PP

Remarks

Recycled and Waste Materials

Type of Material            Parking Stops

Source/  
Vendor                    ARW Polywood, Inc.  
                              P.O. Box 241  
                              Hamilton, OH 45012  
                              (419) 224-2283      Fax: 419/229-5102

Contact                    Roger E. Many

Activity                    Manufacturer

Certified  
Minimum  
Recycled  
Content                    100% Total Recycled Content  
                                  60% Postconsumer Commingled Plastic  
                                  40% Recovered Commingled Plastic

Remarks                    Sold direct to end users

Recycled and Waste Materials

Type of Material      Parking Stops

Source/  
Vendor              American Container  
Recycling Products Div.  
P.O. Box 217, Plainwell, MI 49080  
(616) 685-9500, (800) 525-1686      Fax: 616/685-2345

Contact              Marty Winch

Activity              Distributor

Certified  
Minimum  
Recycled  
Content              100% Total Recycled Content  
65% Postconsumer Commingled  
35% Recovered Commingled

Remarks              BRAND NAME: Plastalloy

Recycled and Waste Materials

Type of Material

Parking Stops

Source/  
Vendor

American Plastics Recycling Group Ltd.  
P.O. Box 68  
Ionia, MI 48846  
(616) 527-6677

Contact

Customer Service

Activity

Manufacturer

Certified  
Minimum  
Recycled  
Content

100% Total Recycled Content  
65% Postconsumer Commingled  
35% Recovered Commingled

Remarks

BRAND NAME: Plastalloy

Recycled and Waste Materials

<u>Type of Material</u>	Parking Stops
<u>Source/ Vendor</u>	Dominion Plastics, Inc. Rt. 2, Box 378 Malone, NY 12953 (518) 483-7998 Fax: 518/483-0092
<u>Contact</u>	Gary Jameson
<u>Activity</u>	Manufacturer
<u>Certified Minimum Recycled Content</u>	100% Total Recycled Content 100% Postconsumer Commingled Plastic
<u>Remarks</u>	

Recycled and Waste Materials

<u>Type of Material</u>	Parking Stops
<u>Source/ Vendor</u>	Envirosafe Products, Inc. P.O. Box 1074 Murray Hill Stn New York, NY 10156-0604 (212) 529-3720
<u>Contact</u>	Stephan M. Lerman
<u>Activity</u>	Distributor
<u>Certified Minimum Recycled Content</u>	100% Total Recycled Content 40-60% Postconsumer Plastic 30-70% Recovered Plastic %'s vary with brands
<u>Remarks</u>	

Recycled and Waste Materials

Type of Material

Parking Stops

Source/  
Vendor

Hammers Plastic Recycling Corp.  
HWY 20 & 65 No.  
Iowa Falls, IA 50126  
(515) 648-5073, (800) 338-1438 Fax: 515/648-5074

Contact

Roger Lalor

Activity

Manufacturer

Certified  
Minimum  
Recycled  
Content

97% Total Recycled Content  
97% Postconsumer HDPE, PET, PE, LDPE

Remarks

Dealers in 45 of 50 states.

Recycled and Waste Materials

Type of Material            Parking Stops

Source/  
Vendor                        National Waste Technologies  
67 Wall St., Suite 2411  
New York, NY 10005  
(212) 323-8045    Fax: 212/432-9366

Contact                        Kevin Brown

Activity                        Manufacturer

Certified  
Minimum  
Recycled  
Content                        100% Total Recycled Content  
100% Postconsumer Commingled Plastic

Remarks



Recycled and Waste Materials

<u>Type of Material</u>	Parking Stops
<u>Source/ Vendor</u>	Plastic Lumber Co., Inc., The P.O. Box 80075 Akron, OH 44308-0075 (216) 762-8989 Fax: 216/434-7905
<u>Contact</u>	Alan E. Robbins
<u>Activity</u>	Manufacturer
<u>Certified Minimum Recycled Content</u>	100% Total Recycled Content 30-40% Postconsumer Plastic 60-70% Recovered Plastic
<u>Remarks</u>	

Recycled and Waste Materials

Type of Material            Parking Stops

Source/  
Vendor                      Presto Products Company  
                                 P.O. Box 2399  
                                 Appleton, WI 54913  
                                 (414) 738-1349      Fax: 414/738-1418

Contact                     Gary Bach

Activity                     Manufacturer

Certified  
Minimum  
Recycled  
Content                      100% Total Recycled Content  
                                 100% Postconsumer PE

Remarks                    Please contact us for distributor names. BRAND  
                                 NAME: Poly Stop

Recycled and Waste Materials

Type of Material            Parking Stops

Source/  
Vendor                      Riverhead Milling, Inc.  
6121 Highway 98 No.  
Lakeland, FL 33809  
(813) 858-8299      Fax: 813/859-3532

Contact                      L.W. Umstadter

Activity                      Manufacturer

Certified  
Minimum  
Recycled  
Content                      100% Total Recycled Content  
100% Recovered Wood/Sawdust & Plastic

Remarks                      Call direct for distribution.

Recycled and Waste Materials

Type of Material

Parking Stops

Source/  
Vendor

Superwood of Alabama, Inc.  
P.O. Box 2399  
Selma, AL 36701-2399  
(205) 874-3781 Fax: 205/872-0180

Contact

Harry Stafford

Activity

Manufacturer

Certified  
Minimum  
Recycled  
Content

100% Total Recycled Content  
100% Recovered HDPE, LDPE, PP

Remarks

Recycled and Waste Materials

Type of Material Plastic - Fencing

Source/  
Vendor Recycled Plastics Marketing, Inc.  
17813 NE 8th Place  
Bellevue, WA 98008  
(206) 649-0846 Fax: (206) 649-0847

Contact Mr. John Bissell

Activity Market post-consumer plastic products.

Certified  
Minimum  
Recycled  
Content 100% recycled content  
100% post-consumer waste  
100% plastic

Remarks Plastic mesh fence with various size openings.

## Recycled and Waste Materials

Type of Material Plastic - Lumber

Source/  
Vendor Environmental Plastics  
1101 Ledwich  
Yakima, WA 98909  
(509) 649-0846

Contact

Activity Manufacturer

Certified  
Minimum  
Recycled  
Content Unknown

Remarks BRAND NAME: Permawood

Recycled and Waste Materials

Type of Material Plastic - Lumber

Source/  
Vendor Spokane Plastics, Inc.  
Bldg. No. 8 S.I.P.  
Spokane, WA 99216  
(509) 924-7900

Contact David B. Underwood Jr.

Activity Manufacturer

Certified  
Minimum  
Recycled  
Content

Remarks BRAND NAME: Syntal

## Recycled and Waste Materials

<u>Type of Material</u>	Plastic - Park Benches
<u>Source/ Vendor</u>	Charles R. Watts Co. 10 Creekwood Lane SW Tacoma, WA 98499 (206) 581-2198 Fax: (206) 588-4230
<u>Contact</u>	Mr. Scott Candler
<u>Activity</u>	Distributor for Hammer's Plastics.
<u>Certified Minimum Recycled Content</u>	100% recycled content 100% recycled plastic
<u>Remarks</u>	Warranted 50 years against rot and termite damage.



Recycled and Waste Materials

Type of Material Plastic - Park Benches

Source/  
Vendor Recycled Plastics Marketing, Inc.  
17813 NE 8th Place  
Bellevue, WA 98008  
(206) 649-0846 Fax: (206) 649-0847

Contact Mr. John Bissell

Activity Market post-consumer plastic products.

Certified  
Minimum  
Recycled  
Content 100% recycled content  
100% post-consumer waste  
100% plastic

Remarks Produced by Dura Tech Industries.

Recycled and Waste Materials

Type of Material Plastic - Park Benches

Source/  
Vendor Vanco  
220 Main St.  
Edmonds, WA 98020  
(206) 771-1412 Fax: (206) 670-2150

Contact Mr. Larry Norman

Activity Distributor of parks and recreation equipment.

Certified  
Minimum  
Recycled  
Content 100% recycled content  
100% recycled plastic

Remarks

Recycled and Waste Materials

<u>Type of Material</u>	Plastic - Speed Bumps
<u>Source/ Vendor</u>	Vanco 220 Main St. Edmonds, WA 98202 (800) 223-2183
<u>Contact</u>	Gary Max
<u>Activity</u>	Distributor
<u>Certified Minimum Recycled Content</u>	As much as 100% commingled recycled plastic and 50% postconsumer content, depending on the manufacturer.
<u>Remarks</u>	Can be removed in winter during snow plowing.

## Recycled and Waste Materials

Type of Material Plastic - lumber

Source/  
Vendor Industrial Refuse Sales and Service  
1240 West Main St.  
Auburn, WA 98001  
(206) 762-4566

Contact

Activity

Certified  
Minimum  
Recycled  
Content

Remarks Distributor for Hammer's Plastics and Reuter -  
speed bumps, plastic lumber, park benches, car  
stops and bollards.

Recycled and Waste Materials

Type of Material

Plastic - lumber, etc.

Source/  
Vendor

Evergreen Enterprises International  
P.O. Box 2138  
Friday Harbor, WA 98250  
(206) 378-3393

Contact

Activity

Certified  
Minimum  
Recycled  
Content

Remarks

Distributor for Hammer's Recycled Plastics. Speed  
bumps, plastic lumber, sign posts, bollards and  
car stops.

## Recycled and Waste Materials

<u>Type of Material</u>	Plastic Delineator Posts
<u>Source/ Vendor</u>	GreenLine 1616 Commerce Drive Stow, Ohio 44224-1761 1-800-GET GREEN Fax: 1-800-2 FAX US 2
<u>Contact</u>	
<u>Activity</u>	
<u>Certified Minimum Recycled Content</u>	50% Post-Consumer Recycled Materials
<u>Remarks</u>	Manufactured by Formtech Enterprises, Inc.

Recycled and Waste Materials

Type of Material Plastic, wood & rubber composite

Source/  
Vendor IMT, Incorporated  
2313 North Shore Drive  
Bellingham, WA 98226  
(206) 738-9215

Contact

Activity

Certified  
Minimum  
Recycled  
Content

Remarks Distributor for Envirosafe Products made from Rivenite, a plastic, wood and rubber composite. Several potential recreational, marine, civil engineering, agricultural and gardening applications.

Recycled and Waste Materials

Type of Material Posts - Fence

Source/  
Vendor American Plastics Recycling Group Ltd.  
P.O. Box 68  
Ionia, MI 48846  
(616) 527-6677

Contact Customer Service

Activity Manufacturer

Certified  
Minimum  
Recycled  
Content 100% Total Recycled Content  
75% Postconsumer Commingled  
25% Recovered Commingled

Remarks BRAND NAME: Plastalloy



## Recycled and Waste Materials

<u>Type of Material</u>	Posts - Fence
<u>Source/ Vendor</u>	Envirosafe Products, Inc. P.O. Box 1074 Murray Hill Stn New York, NY 10156-0604 (212) 529-3720
<u>Contact</u>	Stephan M. Lerman
<u>Activity</u>	Distributor
<u>Certified Minimum Recycled Content</u>	100% Total Recycled Content 40-60% Postconsumer Plastic 30-70% Recovered Plastic %'s vary with brands
<u>Remarks</u>	

Recycled and Waste Materials

<u>Type of Material</u>	Posts - Fence
<u>Source/ Vendor</u>	Obex, Inc. P.O. Box 1253 Stamford, CT 06901 (203) 975-9094
<u>Contact</u>	Celeste M. Johnson
<u>Activity</u>	Manufacturer
<u>Certified Minimum Recycled Content</u>	100% Total Recycled Content 0-100% Postconsumer Mixed Plastic 0-100% Recovered Mixed Plastic %'s and blends will vary as per customer request
<u>Remarks</u>	

Recycled and Waste Materials

Type of Material Posts - Fence

Source/  
Vendor Plastic Recyclers, Inc.  
75 Wyandanch Ave.  
Wyandanch, NY 11798  
(516) 491-1490 Fax: 516/491-1498

Contact Russell McAllister

Activity Manufacturer

Certified  
Minimum  
Recycled  
Content 100% Total Recycled Content  
60% Postconsumer Commingled Plastic  
40% Recovered HDPE, LDPE

Remarks

Recycled and Waste Materials

<u>Type of Material</u>	Posts - Fence
<u>Source/ Vendor</u>	Riverhead Milling, Inc. 6121 Highway 98 No. Lakeland, FL 33809 (813) 858-8299 Fax: 813/859-3532
<u>Contact</u>	L.W. Umstadter
<u>Activity</u>	Manufacturer
<u>Certified Minimum Recycled Content</u>	100% Total Recycled Content 100% Recovered Wood/Sawdust & Plastic
<u>Remarks</u>	Call direct for distribution.

Recycled and Waste Materials

<u>Type of Material</u>	Posts - Fence
<u>Source/ Vendor</u>	Superwood of Alabama, Inc. P.O. Box 2399 Selma, AL 36701-2399 (205) 874-3781 Fax: 205/872-0180
<u>Contact</u>	Harry Stafford
<u>Activity</u>	Manufacturer
<u>Certified Minimum Recycled Content</u>	100% Total Recycled Content 100% Recovered HDPE, LDPE, PP
<u>Remarks</u>	

**Recycled and Waste Materials**

**Type of Material** Posts - Road Marker/Reflector

**Source/  
Vendor** ARW Polywood, Inc.  
P.O. Box 241  
Hamilton, OH 45012  
(419) 224-2283 Fax: 419/229-5102

**Contact** Roger E. Many

**Activity** Manufacturer

**Certified  
Minimum  
Recycled  
Content** 100% Total Recycled Content  
60% Postconsumer Commingled Plastic  
40% Recovered Commingled Plastic

**Remarks** Sold directly to end users.

## Recycled and Waste Materials

Type of Material Posts - Road Marker/Reflector

Source/  
Vendor American Container  
Recycling Products Div.  
P.O. Box 217, Plainwell, MI 49080  
(616) 685-9500, (800) 525-1686 Fax: 616/685-2345

Contact Marty Winch

Activity Distributor

Certified  
Minimum  
Recycled  
Content 100% Total Recycled Content  
65% Postconsumer Commingled  
35% Recovered Commingled

Remarks BRAND NAME: Plastalloy

## Recycled and Waste Materials

Type of Material Posts - Road Marker/Reflector

Source/  
Vendor Envirosafe Products, Inc.  
P.O. Box 1074 Murray Hill Stn  
New York, NY 10156-0604  
(212) 529-3720

Contact Stephan M. Lerman

Activity Distributor

Certified  
Minimum  
Recycled  
Content 100% Total Recycled Content  
40-60% Postconsumer Plastic  
30-70% Recovered Plastic  
%'s vary with brands

Remarks



Recycled and Waste Materials

Type of Material Posts - Road Marker/Reflector

Source/  
Vendor Obex, Inc.  
P.O. Box 1253  
Stamford, CT 06901  
(203) 975-9094

Contact Celeste M. Johnson

Activity Manufacturer

Certified  
Minimum  
Recycled  
Content 100% Total Recycled Content  
0-100% Postconsumer Mixed Plastic  
0-100% Recovered Mixed Plastic  
%'s and blends will vary as per customer request

Remarks

**Recycled and Waste Materials**

Type of Material Posts - Road Marker/Reflector

Source/  
Vendor Riverhead Milling, Inc.  
6121 Highway 98 No.  
Lakeland, FL 33809  
(813) 858-8299 Fax: 813/859-3532

Contact L.W. Umstadter

Activity Manufacturer

Certified  
Minimum  
Recycled  
Content 100% Total Recycled Content  
100% Recovered Wood/Sawdust & Plastic

Remarks Call direct for distribution

## Recycled and Waste Materials

<u>Type of Material</u>	Posts - Road Marker/Reflector
<u>Source/ Vendor</u>	Superwood of Alabama, Inc. P.O. Box 2399 Selma, AL 36701-2399 (205) 874-3781 Fax: 205/872-0180
<u>Contact</u>	Harry Stafford
<u>Activity</u>	Manufacturer
<u>Certified Minimum Recycled Content</u>	100% Total Recycled Content 100% Recovered HDPE, LDPE, PP
<u>Remarks</u>	

**Recycled and Waste Materials**

<u>Type of Material</u>	Posts - Sign and Supports
<u>Source/ Vendor</u>	ARW Polywood, Inc. P.O. Box 241 Hamilton, OH 45012 (419) 224-2283 Fax: 419/229-5102
<u>Contact</u>	Roger E. Many
<u>Activity</u>	Manufacturer
<u>Certified Minimum Recycled Content</u>	100% Total Recycled Content 60% Postconsumer Commingled Plastic 40% Recovered Commingled Plastic
<u>Remarks</u>	Sold direct to end users

## Recycled and Waste Materials

<u>Type of Material</u>	Posts - Sign and Supports
<u>Source/ Vendor</u>	American Container Recycling Products Div. P.O. Box 217, Plainwell, MI 49080 (616) 685-9500, (800) 525-1686 Fax: 616/685-2345
<u>Contact</u>	Marty Winch
<u>Activity</u>	Distributor
<u>Certified Minimum Recycled Content</u>	100% Total Recycled Content 65% Postconsumer Commingled 35% Recovered Commingled
<u>Remarks</u>	BRAND NAME: Plastalloy

**Recycled and Waste Materials**

**Type of Material** Posts - Sign and Supports

**Source/  
Vendor** Envirosafe Products, Inc.  
P.O. Box 1074 Murray Hill Stn  
New York, NY 10156-0604  
(212) 529-3720

**Contact** Stephan M. Lerman

**Activity** Distributor

**Certified  
Minimum  
Recycled  
Content** 100% Total Recycled Content  
40-60% Postconsumer Plastic  
30-70% Recovered Plastic  
%'s vary with brands

**Remarks**

## Recycled and Waste Materials

<u>Type of Material</u>	Posts - Sign and Supports
<u>Source/ Vendor</u>	Obex, Inc. P.O. Box 1253 Stamford, CT 06901 (203) 975-9094
<u>Contact</u>	Celeste M. Johnson
<u>Activity</u>	Manufacturer
<u>Certified Minimum Recycled Content</u>	100% Total Recycled Content 0-100% Postconsumer Mixed Plastic 0-100% Recovered Mixed Plastic %'s and blends will vary as per customer request
<u>Remarks</u>	

Recycled and Waste Materials

Type of Material Posts - Sign and Supports

Source/  
Vendor Riverhead Milling, Inc.  
6121 Highway 98 No.  
Lakeland, FL 33809  
(813) 858-8299 Fax: 813/859-3532

Contact L.W. Umstadter

Activity Manufacturer

Certified  
Minimum  
Recycled  
Content 100% Total Recycled Content  
100% Recovered Wood/Sawdust & Plastic

Remarks Call direct for distribution



## Recycled and Waste Materials

<u>Type of Material</u>	Posts - Support Pilings
<u>Source/ Vendor</u>	ARW Polywood, Inc. P.O. Box 241 Hamilton, OH 45012 (419) 224-2283 Fax: 419/229-5102
<u>Contact</u>	Roger E. Many
<u>Activity</u>	Manufacturer
<u>Certified Minimum Recycled Content</u>	100% Total Recycled Content 60% Postconsumer Commingled Plastic 40% Recovered Commingled Plastic
<u>Remarks</u>	Sold direct to end users

## Recycled and Waste Materials

<u>Type of Material</u>	Posts - Support Pilings
<u>Source/ Vendor</u>	Plastic Pilings, Inc. 8560 Vineyard, Suite 510 Rancho Cucamonga, CA 91730 (714) 989-7685 Fax: 714/944-6842
<u>Contact</u>	Mike Tuley
<u>Activity</u>	Manufacturer
<u>Certified Minimum Recycled Content</u>	70% Total Recycled Content 70% Postconsumer Plastic 30% Steel
<u>Remarks</u>	Pilings have 5" or 6" steel core. 68'x 13" approx. 3200#

**Recycled and Waste Materials**

<b><u>Type of Material</u></b>	Posts - Support Pilings
<b><u>Source/ Vendor</u></b>	Plastic Recyclers, Inc. 75 Wyandanch Ave. Wyandanch, NY 11798 (516) 491-1490 Fax: 516/491-1498
<b><u>Contact</u></b>	Russell McAllister
<b><u>Activity</u></b>	Manufacturer
<b><u>Certified Minimum Recycled Content</u></b>	100% Total Recycled Content 60% Postconsumer Commingled Plastic 40% Recovered HDPE, LDPE
<b><u>Remarks</u></b>	

**Recycled and Waste Materials**

<b><u>Type of Material</u></b>	Posts - Underground Utility
<b><u>Source/ Vendor</u></b>	ARW Polywood, Inc. P.O. Box 241 Hamilton, OH 45012 (419) 224-2283 Fax: 419/229-5102
<b><u>Contact</u></b>	Roger E. Many
<b><u>Activity</u></b>	Manufacturer
<b><u>Certified Minimum Recycled Content</u></b>	100% Total Recycled Content 60% Postconsumer Commingled Plastic 40% Recovered Commingled Plastic
<b><u>Remarks</u></b>	Sold direct to end users.

Recycled and Waste Materials

Type of Material

Posts - Underground Utility

Source/  
Vendor

Obex, Inc.  
P.O. Box 1253  
Stamford, CT 06901  
(203) 975-9094

Contact

Celeste M. Johnson

Activity

Manufacturer

Certified  
Minimum  
Recycled  
Content

100% Total Recycled Content  
0-100% Postconsumer Mixed Plastic  
0-100% Recovered Mixed Plastic  
%'s and blends will vary as per customer request

Remarks

Recycled and Waste Materials

<u>Type of Material</u>	Railroad Crossings
<u>Source/ Vendor</u>	Riedel Omni Products 4507 North Channel Avenue Portland, OR 97217 (503) 285-9111
<u>Contact</u>	Brian Holland
<u>Activity</u>	
<u>Certified Minimum Recycled Content</u>	Unknown
<u>Remarks</u>	

Recycled and Waste Materials

<u>Type of Material</u>	Retread Tires
<u>Source/ Vendor</u>	A+E Retread 6515 W. Marginal Way SW Seattle, WA 98106 (206) 763-9313
<u>Contact</u>	Tom Bolser
<u>Activity</u>	
<u>Certified Minimum Recycled Content</u>	
<u>Remarks</u>	Also supply retread information.

**Recycled and Waste Materials**

**Type of Material** Rubber - scrap tire fuel

**Source/  
Vendor** Waste Recovery Inc.  
8501 N. Borthwick  
Portland, OR 97217  
(503) 283-2261 Fax: (503) 283-2498

**Contact** Mr. Mark Hope

**Activity**

**Certified  
Minimum  
Recycled  
Content** 100% recycled content  
100% post-consumer waste  
100% scrap tires

**Remarks** Fuel for pulp, paper and cement industries.



## Recycled and Waste Materials

<u>Type of Material</u>	Safety Barriers
<u>Source/ Vendor</u>	ARW Polywood, Inc. P.O. Box 241 Hamilton, OH 45012 (419) 224-2283 Fax: 419/229-5102
<u>Contact</u>	Roger E. Many
<u>Activity</u>	Manufacturer
<u>Certified Minimum Recycled Content</u>	100% Total Recycled Content 60% Postconsumer Commingled Plastic 40% Recovered Commingled Plastic
<u>Remarks</u>	Sold direct to end users.

## Recycled and Waste Materials

<u>Type of Material</u>	Safety Barriers
<u>Source/ Vendor</u>	Obex, Inc. P.O. Box 1253 Stamford, CT 06901 (203) 975-9094
<u>Contact</u>	Celeste M. Johnson
<u>Activity</u>	Manufacturer
<u>Certified Minimum Recycled Content</u>	100% Total Recycled Content 0-100% Postconsumer Mixed Plastic 0-100% Recovered Mixed Plastic %'s and blends will vary as per customer request
<u>Remarks</u>	

**Recycled and Waste Materials**

**Type of Material**

Shore Erosion Protection

**Source/  
Vendor**

ARW Polywood, Inc.  
P.O. Box 241  
Hamilton, OH 45012  
(419) 224-2283 Fax: 419/229-5102

**Contact**

Roger E. Many

**Activity**

Manufacturer

**Certified  
Minimum  
Recycled  
Content**

100% Total Recycled Content  
60% Postconsumer Commingled Plastic  
40% Recovered Commingled Plastic

**Remarks**

**Recycled and Waste Materials**

**Type of Material**

Shore Erosion Protection

**Source/  
Vendor**

Dura Tech, Inc.  
5126 Dorene  
Lansing, MI 48917  
(517) 321-7712

**Contact**

Johanna P. Mason

**Activity**

Manufacturer

**Certified  
Minimum  
Recycled  
Content**

Up to 100% Total Recycled Content  
75-100% Postconsumer HDPE

**Remarks**

## Recycled and Waste Materials

<u>Type of Material</u>	Shore Erosion Protection
<u>Source/ Vendor</u>	Obex, Inc. P.O. Box 1253 Stamford, CT 06901 (203) 975-9094
<u>Contact</u>	Celeste M. Johnson
<u>Activity</u>	Manufacturer
<u>Certified Minimum Recycled Content</u>	100% Total Recycled Content 0-100% Postconsumer Mixed Plastic 0-100% Recovered Mixed Plastic %'s and blends will vary as per customer request
<u>Remarks</u>	

**Recycled and Waste Materials**

**Type of Material**      Shore Erosion Protection

**Source/  
Vendor**              Riverhead Milling, Inc.  
6121 Highway 98 No.  
Lakeland, FL 33809  
(813) 858-8299      Fax: 813/859-3532

**Contact**              L.W. Umstadter

**Activity**              Manufacturer

**Certified  
Minimum  
Recycled  
Content**              100% Total Recycled Content  
100% Recovered Wood/Sawdust & Plastic

**Remarks**              Call direct for distribution.

## Recycled and Waste Materials

<u>Type of Material</u>	Shore Erosion Protection
<u>Source/ Vendor</u>	Superwood of Alabama, Inc. P.O. Box 2399 Selma, AL 36701-2399 (205) 874-3781 Fax: 205/872-0180
<u>Contact</u>	Harry Stafford
<u>Activity</u>	Manufacturer
<u>Certified Minimum Recycled Content</u>	100% Total Recycled Content 100% Recovered HDPE, LDPE, PP
<u>Remarks</u>	

## Recycled and Waste Materials

<u>Type of Material</u>	Sign Material
<u>Source/ Vendor</u>	Recycled Plastics Marketing, Inc. 17813 NE 8th Place Bellevue, WA 98008 (206) 649-0846 Fax: 206/649-0847
<u>Contact</u>	John Bissell
<u>Activity</u>	
<u>Certified Minimum Recycled Content</u>	
<u>Remarks</u>	Markets products made from post-consumer recycled plastic. Product line includes compost bins, filters, trash can liners and sign materials.



## Recycled and Waste Materials

<u>Type of Material</u>	Signage/Furniture Products
<u>Source/ Vendor</u>	Johns Inkeep Environmental Learning Center 19600 S. Molalla Ave. Oregon City, OR 97405 (503) 659-6958 x 357
<u>Contact</u>	Jerry Herrmann
<u>Activity</u>	
<u>Certified Minimum Recycled Content</u>	
<u>Remarks</u>	Fabricate and market ENVIROTECK, a line of outdoor furniture and signage products made from composite recycled materials. Also provides consulting services on resource conservation and recycling.

Recycled and Waste Materials

Type of Material Signs - Roadname

Source/  
Vendor Superwood of Alabama, Inc.  
P.O. Box 2399  
Selma, AL 36701-2399  
(205) 874-3781 Fax: 205/872-0180

Contact Harry Stafford

Activity Manufacturer

Certified  
Minimum  
Recycled  
Content 100% Total Recycled Content  
100% Recovered HDPE, LDPE, PP

Remarks

Recycled and Waste Materials

<u>Type of Material</u>	Soil Erosion Unit
<u>Source/ Vendor</u>	Hazey's Equipment & Supply 3360 Three Mile Rd. NW Grand Rapids, MI 49504 (616) 453-3353
<u>Contact</u>	Jack Hazewinkle
<u>Activity</u>	Distributor
<u>Certified Minimum Recycled Content</u>	100% Total Recycled Content 100% Postconsumer Glass
<u>Remarks</u>	Distribute for Glass Aggregate Corp. Brand Name: R.E.D. Pak

## Recycled and Waste Materials

<u>Type of Material</u>	Speed Bump
<u>Source/ Vendor</u>	Envirosafe Products, Inc. P.O. Box 1074 Murray Hill Stn New York, NY 10156-0604 (212) 529-3720
<u>Contact</u>	Stephan M. Lerman
<u>Activity</u>	Distributor
<u>Certified Minimum Recycled Content</u>	100% Total Recycled Content 40-60% Postconsumer Plastic 30-70% Recovered Plastic %'s vary with brands
<u>Remarks</u>	

## Recycled and Waste Materials

<u>Type of Material</u>	Speed Bump
<u>Source/ Vendor</u>	Hammers Plastic Recycling Corp. HWY 20 & 65 No. Iowa Falls, IA 50126 (515) 648-5073, (800) 338-1438 Fax: 515/648-5074
<u>Contact</u>	Roger Lalor
<u>Activity</u>	Manufacturer
<u>Certified Minimum Recycled Content</u>	97% Total Recycled Content 97% Postconsumer HDPE, PET, PE, LDPE
<u>Remarks</u>	Dealers in 45 of 50 States

**Recycled and Waste Materials**

<b><u>Type of Material</u></b>	Speed Bump
<b><u>Source/ Vendor</u></b>	National Waste Technologies 67 Wall St., Suite 2411 New York, NY 10005 (212) 323-8045 Fax: 212/432-9366
<b><u>Contact</u></b>	Kevin Brown
<b><u>Activity</u></b>	Manufacturer
<b><u>Certified Minimum Recycled Content</u></b>	100% Total Recycled Content 100% Postconsumer Commingled Plastic
<b><u>Remarks</u></b>	

Recycled and Waste Materials

Type of Material Speed Bump

Source/  
Vendor Plastic Lumber Co., Inc., The  
P.O. Box 80075  
Akron, OH 44308-0075  
(216) 762-8989 Fax: 216/434-7905

Contact Alan E. Robbins

Activity Manufacturer

Certified  
Minimum  
Recycled  
Content 100% Total Recycled Content  
30-40% Postconsumer Plastic  
60-70% Recovered Plastic

Remarks

Recycled and Waste Materials

<u>Type of Material</u>	Speed Bump
<u>Source/ Vendor</u>	Schuyler Rubber Co., Inc. 16901 Wood-Red Rd. NE Woodinville, WA 98072 (206) 488-2255, (800) 426-3917 Fax: 206/488-2424
<u>Contact</u>	Dennis Kerber
<u>Activity</u>	Manufacturer
<u>Certified Minimum Recycled Content</u>	95% Total Recycled Content 95% Postconsumer Tires
<u>Remarks</u>	Call for distributor list.



**Recycled and Waste Materials**

<u>Type of Material</u>	Speed Bump
<u>Source/ Vendor</u>	Scientific Developments Inc. P.O. Box 2522 Eugene, OR 97402 (503) 686-9844, (800) 824-6853 Fax: 503/485-8990
<u>Contact</u>	Dan Walden
<u>Activity</u>	Manufacturer
<u>Certified Minimum Recycled Content</u>	100% Total Recycled Content 100% Postconsumer Tires
<u>Remarks</u>	Currently selling direct.

Recycled and Waste Materials

Type of Material Temporary Curbing

Source/  
Vendor Superwood of Alabama, Inc.  
P.O. Box 2399  
Selma, AL 36701-2399  
(205) 874-3781 Fax: 205/872-0180

Contact Harry Stafford

Activity Manufacturer

Certified  
Minimum  
Recycled  
Content 100% Total Recycled Content  
100% Recovered HDPE, LDPE, PP

Remarks

Recycled and Waste Materials

<u>Type of Material</u>	Tires - Retread Truck
<u>Source/ Vendor</u>	Casselberry Tire Co. 300 Lemon Lane Casselberry, FL 32707 (407) 831-0544
<u>Contact</u>	Scott Taft
<u>Activity</u>	Manufacturer
<u>Certified Minimum Recycled Content</u>	70% Total Recycled Content 70% Postconsumer Tire Casing
<u>Remarks</u>	

**Recycled and Waste Materials**

<u>Type of Material</u>	Underdrains
<u>Source/ Vendor</u>	E-Z Lay Drain Co. P.O. Box 867 Pisgah Forest, NC 28768 (704) 883-2130
<u>Contact</u>	Randy Houck
<u>Activity</u>	
<u>Certified Minimum Recycled Content</u>	Unknown
<u>Remarks</u>	

**Recycled and Waste Materials**

**Type of Material**      Wheel Chock - Automotive

**Source/  
Vendor**                Durable Mat Co.  
75 N. Pleasant St.  
Norwalk, OH 44857  
(419) 668-8138, (800) 537-1603      Fax: 419/668-8068

**Contact**                Charlie Rice

**Activity**                Manufacturer

**Certified  
Minimum  
Recycled  
Content**                80% Total Recycled Content  
80% Postconsumer Tires

**Remarks**

**Recycled and Waste Materials**

**Type of Material**      Wheel Chock - Automotive

**Source/  
Vendor**                Scientific Developments Inc.  
P.O. Box 2522  
Eugene, OR 97402  
(503) 686-9844, (800) 824-6853      Fax: 503/485-8990

**Contact**                Dan Walden

**Activity**                Manufacturer

**Certified  
Minimum  
Recycled  
Content**                100% Total Recycled Content  
100% Postconsumer Tires

**Remarks**                Currently selling direct.

## Recycled and Waste Materials

<u>Type of Material</u>	Wheel Chock - Automotive
<u>Source/ Vendor</u>	Tennessee Mat Co. 1400 Third Ave. So. Nashville, TN 37210 (615) 254-8381, (800) 251-1431 Fax: 615/255-4428
<u>Contact</u>	Nick Mead
<u>Activity</u>	Manufacturer
<u>Certified Minimum Recycled Content</u>	90% Total Recycled Content 90% Postconsumer Tires
<u>Remarks</u>	Over 6000 distributors. Call for local distributor.

## Recycled and Waste Materials

Type of Material Fly Ash - aggregates produced from

Uses for Material As a substitute for gravel

Product Specifications None at this time. Research being conducted now.

Source/ Vendor

Used By Being researched in Germany

Results of Use

Reference Structural Engineering International, March 1991



## Recycled and Waste Materials

<u>Type of Material</u>	Glass, Crushed Recycled Container Glass (CRCG)
<u>Uses for Material</u>	Glassphalt, 10% mix in bottom layer Underdrain filter media
<u>Product Specifications</u>	Presently screened to 2-inch minus -- Can be further crushed to meet smaller gradation requirements
<u>Source/ Vendor</u>	Waste Management of North America/Recycle America, 7901 1st Ave. So., Seattle, WA 98108, (206) 762-
<u>Used By</u>	NJDOT, NYDOT, Maryland DOT
<u>Results of Use</u>	Unknown
<u>Reference</u>	Application for Product Evaluation to WSDOT

## Recycled and Waste Materials

Type of Material      Glass, Waste

Uses  
for  
Material                      As an additive to hot mix asphalt (glasphalt)

Product  
Specifications              A maximum of 15% crushed recycled glass should be allowed (100% passing a 3/8-inch sieve and a maximum of 6% passing a No. 200 sieve) in HMA mixes.

Hydrated lime should be added to the mix to prevent stripping.

Source/  
Vendor                      Unknown

Used By                      States of Connecticut and Virginia

Results  
of Use                      Mixed - loss of adhesion between asphalt and glass

Reference                      Feasibility of Using Waste Glass in Pavements. Connecticut DOT, Report No. 343-21-89-6, June, 1989.

Feasibility of Using Recycled Glass in Asphalt, Hughes, C.S., Virginia Transportation Research Council, Report No. VTRC 90-R3, March 1990.

Recycled and Waste Materials

Type of Material Plastic (Milk or water jugs chopped into flakes)

Uses for Material Flakes used to manufacture highway drainage pipes.

Product Specifications Unknown

Source/Vendor Rhode Island's Materials Recycling Facility

Used By State of Rhode Island

Results of Use Satisfactory but requires hand-sorting

Reference National Geographic, August 1991, pg. 136

Recycled and Waste Materials

Type of Material Plastic - Lumber

Uses  
for  
Material Sign posts, etc.

Product  
Specifications Unknown

Source/  
Vendor Ultra Poly, 2926 S. Steele, Tacoma, WA 98407

Used By New Product

Results  
of Use NA

Reference Contact: Keith Doscher

## Recycled and Waste Materials

<u>Type of Material</u>	Plastic, Waste
<u>Uses for Material</u>	Safety medians for pedestrians
<u>Product Specifications</u>	Unknown
<u>Source/ Vendor</u>	Peter Lueft, Mainz, Germany
<u>Used By</u>	Germany
<u>Results of Use</u>	Excellent
<u>Reference</u>	Public Innovation Abroad, Vol. 15, No. 5, May 1991

Recycled and Waste Materials

Type of Material Plastic, recycled milk containers

Uses for Material Highway barricades

Product Specifications Unknown

Source/ Vendor "SafetyCade" by WLI Inc. for the DuPont Co.

Used By Illinois DOT throughout the state

Results of Use 60-day field tests satisfactory

Reference Roads and Bridges, May 1991

Recycled and Waste Materials

<u>Type of Material</u>	Polystyrene Blocks
<u>Uses for Material</u>	Lightweight fill
<u>Product Specifications</u>	Unknown
<u>Source/ Vendor</u>	Scott Worldwide Foodservice, Scott Plaza I, Philadelphia, PA, 19113, (800) 835-7268
<u>Used By</u>	WSDOT - District 4 - Slide Correction
<u>Results of Use</u>	Satisfactory after over 1 year
<u>Reference</u>	Scott supplied brochure

## Recycled and Waste Materials

Type of Material Tires, chopped waste tires

Uses for Material As an alternate permeable aggregate

Product Specifications 2-inch square chopped or 2-inch shredded rubber tires

Source/ Vendor Waste Byproducts, Portland, Oregon

Used By California DOT

Results of Use Laboratory tests only - deemed much too costly

Reference Used Tire Material as an Alternate Permeable Aggregate, Bressette, Terrie, Report No. FHWA/CA/TL-84/07, Office of Transportation Laboratory, California DOT



## Recycled and Waste Materials

<u>Type of Material</u>	Tires, discarded
<u>Uses for Material</u>	Shoulder reinforcement, channel slope protection
<u>Product Specifications</u>	Whole tire used
<u>Source/ Vendor</u>	Unkown
<u>Used By</u>	State of California
<u>Results of Use</u>	Satisfactory at this time
<u>Reference</u>	Implementation Package For Using Discarded Tires in Highway Maintenance, Nguyen, Mong X., Williams, John A., Office of Transportation Laboratory, California DOT, Report No. CA/TL-89/10, June 1989

Recycled and Waste Materials

Type of Material      Tires, scrap

Uses  
for  
Material              Asphalt rubber crack sealant

Product  
Specifications        Contains 20% ground tire rubber

Source/  
Vendor                Unknown

Used By                State of Texas

Results  
of Use                Very good - essentially the only crack sealer used

Reference              Researcher, Texas Transportation Institute, The  
Texas A&M University System, Vol. 27, No. 1,  
Spring 1991

## Recycled and Waste Materials

Type of Material      Tires, scrap

Uses for Material      Dock bumpers, landscape mulch, aggregate for leach beds, roadway fill, railroad crossing beds, parking curbs, drainage piping

Product Specifications      Unknown - used alone or in combination with other materials to produce above items

Source/ Vendor      Unknown

Used By      Proposed for use or used by NY State

Results of Use      Research in progress

Reference      Recycling Nontraditional Materials: A Resource Guide to New Technology Options, Center for Environmental Information, Inc., 46 Prince St., Rochester, NY 14607-1016, Phone: (716) 271-3550, Fax: (716) 271-0606

## Recycled and Waste Materials

<u>Type of Material</u>	Tires, whole or chipped
<u>Uses for Material</u>	Strengthening subgrades, retaining walls, sound barriers (w/soil covering), lightweight fill
<u>Product Specifications</u>	Proposed uses only
<u>Source/ Vendor</u>	Unknown
<u>Used By</u>	Proposed use by State of Maine
<u>Results of Use</u>	Preliminary reports suggest further investigation
<u>Reference</u>	The Use of Tire Rubber in Pavements, Preliminary Report, Technical Services Division, Maine DOT, March 1990