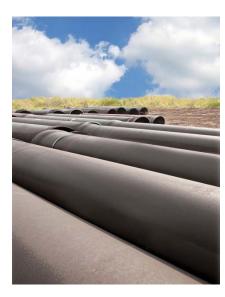


Certification Rating: Gold/ EPP

Category: Water & Sewer Certification Period: Oct. 23, 2012-2015

Ductile Iron Pipe



Certified by:



1511 Wisconsin Avenue, NW Washington, DC 20007 202-338-3131 p 202-338-2800 f info@sustainableproducts.com http://mts.sustainableproducts.com

Certified Sustainable to the Triple Bottom Line:

Good for the Environment, the Economy and for Society

Ductile Iron Pipe

To achieve SMaRT© Sustainable Product Certification at any level, products must achieve 14 prerequisite points and score a minimum of 28 out of 162 points in the following areas covering all product stages across the global supply chain:

- Safe for Public Health & Environment
- Renewable Energy & Energy Reduction
- Bio-based or Recycled Materials
- Facility or Company Requirements
- Reclamation, Sustainable Reuse & End of Life Management
- Innovation in Manufacturing

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Under these areas, products are required to:

- Provide Feedstock Inventory Documentation
- Document no Input or Output of Stockholm Chemicals
- Maintain a Manufacturing Facility Energy Inventory
- Keep an Inventory of all Bio-based and Recycled Content Materials
- Have EMS Environmental Policies and Targets
 - Have Social Indicator Reporting for Manufacturers (working conditions)
- Use ISO Life Cycle Assessment process
- Have Operational Reclamation and/or Sustainable Reuse Programs
- Have Product Performance Durability (long lasting products)

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		SMaRTO Consensus Sustainable Product Standard® Scorecard Exclainable Balanable Rating Technology®		
	Applicant: Applicant: International Date:	Duction active Materials Rating Featureneys Duction trans Pipe Duction trans Pipe Research Association October 13, 2012		3 p
1		Safe for Public Health & Environment (PHE)		
1	PHE 1-1	Feedal.ook Inventory Ecoumentation	Required	
۰.	PHE 1-2	ingul Blookholm Chemioals	Required	23
1	PHE 1-3	Culpul Blookholm Chamloale	Required	
1		Researchie Energy & Energy Reduction (RE&ER)		
1	READR 1-1	Energy Inventory	Required	
23		Elubaced or Recycled Materials (NATLE)		
	MATLE 1-1	Inventory Diobased and Resysted Content Waterials	feasies	-
i.	MATLE 2-1	4% Biobaced, Recycled Content, or EPP Material		6 p
۰.	MATLE 2-3	10% Blobaced, Recycled Confent, or EPP Material		~ P
έ.	MATLE 2.4	10% Biobasad, Recycled Content, or EPP Material		
۰.	MATLE 2.4	20% Blobased, Recycled Content, or EPP Material		
÷	MATLE 8-1	19% Biobased, Recycled Content, or EPP Material		
۰.	MATLE B-2	30% Elobacad, Recycled Content, or EPP Material		
÷.	MATLE D-0	NYS Biobased, Recycled Content, or EPP Material		
÷	MATLE 3.4	47% Biobased, Recycled Content, or EPP Material		
έ.	MATLE 4-2	45% Biobased" or Resysted Content		
	MATLE 4-8	60% Blobased or Recycled Content		
	MATLE 44	60% Blobased' or Recycled Confeet		
	MATLE C.P.	79% Biobasad [®] or Resysted Content		
	MATLE 6.0	70% Blobacad ^a or Recycled Content		
	MATLE 64	80% Blobaced' or Recycled Content		
_				
•		Facility or Company Based (MFO)		
1	MPD 1-1	EWS Environmental Policy & Targets	Required	
1	MF0 1-2	Social indicator Reporting for Manufacturers Life Custe Assessment 5.531 Process	Required	21
•	M101-2	UN Cysle Ascessmant (), CA) Process	Required	~ '
21		Resignation, Sustainable Reuse & End of Life Management (EDL)		
1	EOL 1-1	Operational Reclamation and/or Euclainable Reuse Programs	Required	
	806.1-2	Performance Durability	Required	
۰.		1-8% Product Resignation and/or Reuse		
ł	805, 54-8-4	7.12% Product Restanation and/or Reuse		
	E0L 3-3-3-4 E0L 3-1-8-8			
		12.20% Product Resistantion and/or Reuse		
;	805.81-8-8	12-30% Product Resistantics and/or Reuse 21-30% Product Resistantics and/or Reuse		
1	80L31-3-3	12.20% Product Resistantion and/or Reuse		
	80.81-84 80.41-84 80.61-64	13-394 Product Restandliss and/or Reuse 21-394 Product Restandliss and/or Reuse 394 or Bore Product Restandliss and/or Reuse		
-	80.81-84 80.41-84 80.61-64	12-30% Product Resistantics and/or Reuse 21-30% Product Resistantics and/or Reuse	Polet.	15

Ductile Iron Pipe earned 69 points, including:

3 points:	Safe for Public Health & Environment		
3 points:	 Bio-based or Recycled Materials 85 to 95% Recycled Content 		
points:	 Facility or Company Based EMS Environmental Policy & Targets Social Indicator Reporting for Mfrs. Completed ISO Life Cycle Assessment 		
1 points:	Reclamation, Sustainable Reuse & End of Life Management		
	• 100 year design life		

points: Innovation in Manufacturing

Energy, Water and Product Compounds Studies

What buyers and specifiers will want to know about Ductile Iron Pipe:

- The second product in the Buried Infrastructure industry to earn SMaRT[©] Sustainable Product Certification
- Ductile Iron pipe is made from recycled ferric scrap, resulting in as high as 95% recycled content
- DIPRA Member Companies are committed to achieving targets the ensure the health and safety of employees and the public
- Ductile Iron Pipe is designed to ensure 100 years of service life

Ductile Iron Pipe Research Association 1322 Riverhaven Place Birmingham, Alabama 35244 www.dipra.org p: 205-402-8702

