

Specifications, Terms & Conditions

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INTRODUCTION

Steel Dynamics, Inc. – Long Products Group, Structural & Rail Division wishes to consistently provide the highest quality Ferrous Scrap Commodities and Alternative Iron units to our melt shop through global sourcing and procurement. You, our VALUED SUPPLIERS, play an integral role in our success. In order to pay competitive prices for raw materials and meet the quality demands of a finished product from our customers, it is imperative that the quality of the raw materials purchased is of a high standard and delivered in a timely manner to the mill. Scrap commodities that do not meet our expectations as are outlined within the specifications hereunder are unfavorable to be used in a high-quality finished product.

This raw materials manual is to assist in educating our suppliers of what we deem to be acceptable quality and standards in each raw material commodity. Your efforts in applying these standards will help ensure a long continuing relationship with supplying raw materials for our mill. Please be ensured that the personnel involved in the purchasing, receiving, grading, or unloading of raw materials are trained in their respective areas and are taught to be FAIR AND CONSISTENT for all of our customers.

The standards used in this manual are derived from the Institute of Scrap Recycling Industries' (ISRI) specifications and have been modified to meet the needs of our melt shop in Columbia City.

Thank you for being a VALUED SUPPLIER and if you have any questions regarding the Raw Materials Specification Manual, please feel free to contact us for further clarification.

Steel Dynamics, Inc. Structural & Rail Division 2601 County Rd 700 Columbia City, IN 46725

(260) 625-8100



GENERAL TERMS & CONDITIONS

- The Purchasing of Iron & Steel Scrap is handled by the Purchasing Agent and can be contacted at 260-625-8100.
- 2. Prices are quoted for each commodity primarily at the beginning of each month. Steel Dynamics reserves the right to cancel any and all unfulfilled contracts on the last day of the calendar month at 5:00 P.M. EST. A purchase contract with a corresponding purchase order number will be issued for specific grades and quantities to be delivered within a specified period of time. Balances remaining on any purchase order not shipped by the specified completion date may be cancelled or extended at the discretion of the Scrap Procurement Department. All prices are quoted in gross tons and all quantities expressed on the purchase order are in gross tons.
- 3. **Delivery** may be in truckload or rail at agreed upon minimum weights as specified at the time of purchase.
- 4. **Scale Hours** are 24 hours a day seven days a week; closed on December 24th and December 25th each year. Shipments will not be received midnight 9am on the first day of every month.
- 5. Steel Dynamics reserves the right to modify or update the General Terms and Conditions and the Scrap Specifications manual as required.

Trucks - Shipping Guidelines

Shipping Terms: Typically prepaid unless otherwise stated in the purchase order. A rejected truck or partial rejection/reload of a truck may be assessed a \$250 fee.

* If fees are not paid, they will be directly deducted from payment.

For truck safety please refer to Appendix A for additional information regarding towing in case of truck tip-over.

Shipment Period: Material must be shipped by 5:00 P.M. EST the last day of the calendar month stated on the contract. Steel Dynamics reserves the right at its own discretion to review the status of the contract, on the last calendar day of the month in which the scrap was purchased, at which time the contract may be cancelled or continued until the contractual obligation has ended.

Payment Terms: Scrap received 1st-15th of the month shall be paid by the 10th of the following month. Scrap received 16th-end of month shall be paid by the 25th of the following month.

Truck Equipment Requirements:

All scrap must be received in a trailer with a side-hinged rear door. Framed trailers are acceptable for all commodities. Frameless trailers are permissible for shredded, busheling, and pig iron commodity loads only. All truck drivers must be able to operate controls to raise and lower trailers from inside the cab. Truck drivers must have an operational CB radio while onsite. Seller agrees that it shall be solely liable for any and all damages, including any clean up and/or SDI down time resulting from Seller's utilization of any frameless trailers for delivery of the product covered by this Purchase Order. Seller shall be responsible for any costs, attorney fees or any consequential damages incurred by SDI for recovery of the Items due or owed by Seller under this paragraph.

Freight Terms: Prepaid unless stated otherwise in the purchase order. Steel Dynamics weight tickets are the governing weight for invoices.



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Rail - Shipping Guidelines

Shipping Terms: Typically prepaid unless otherwise stated in the purchase order. Shipments arriving at the mill without shipping notices may be assessed a \$250 fee. A rejected railcar may be assessed a \$750 fee.

* If fees are not paid, they will be directly deducted from payment.

Failure to notice rejected loads within 24 hours of rejection notice may result in demurrage fees back-charged to the Shipper.

Shipment Period: Material must be shipped by 5:00 P.M. EST the last day of the calendar month stated on the contract. Steel Dynamics reserves the right at its own discretion to review the status of the

contract, at which time the contract may be cancelled or continued until the contractual

obligation has ended.

Payment Terms: Scrap received 1st-15th of the month shall be paid by the 10th of the following month. Scrap

received 16th-end of month shall be paid by the 25th of the following month.

Rail Equipment Requirements:

All railcars must be fully open top railcars with vertical sidewalls and endwalls with horizontal flat bottoms. Unacceptable railcars include v-troughs, belly troughs, or any interior ribs/framing. Scrap may be received in ft length mill gondola cars. Coil gondolas are not accepted.

Freight Terms: Prepaid unless stated otherwise in the purchase order.

Consignee: Steel Dynamics, Structural & Rail Division

Rail Station: Columbia City, IN Final Rail Carrier: NS or CFE Max Car Limit: 286,000 lbs.

Min Car Limit: Not applicable unless Steel Dynamics is covering the freight, then the GT Min Weight will

be listed.

Steel Dynamics weight tickets are the governing weight for invoices.

Delivery Terms: Shipments will only be received at the Columbia City mill against purchase orders where the

supplier enters shipping notices via the Steel Dynamics Structural & Rail Division website, http://webcres.steeldynamics.com/. If you are not a registered user and need to know how to

sign-up for a new account, visit the website for detailed instructions and videos.



CONTRACTOR & VISITOR SAFETY GUIDELINES

- Personal Protective Equipment must be worn onsite. Required equipment includes: hard hat, safety glasses or goggles over prescription glasses, shirt, long pants, closed-toe shoes preferably steel-toe boots or metatarsals, and a hi-vis vest.
- Follow all state road laws, speed limits and other traffic controls, such as stop signs and railroad
 crossings and adhere to safe approach and passage distances. Come to a complete stop if your
 view is obstructed by steam or fog.
- Dangerous areas have signage and signals to warn of potential site hazards. Remotely activated signs will notify and warn site travelers not to enter designated areas when lights are flashing.
- Remain aware of audio warning devices trains, auto, mobile equipment back up alarms, overhead cranes, plant start-up etc.
- Heavy equipment has the right of way at all times. Stay at least 40 feet back from all equipment.
 Continually check your surroundings and never position yourself in the blind spots or swing radius of mobile equipment (material handler, pot hauler, etc.). Do not move near equipment that has not acknowledged your presence. Stay out of tipping radius of any trailer that raises its bed to dump.
- Do not park on or near a railroad track. Maintain a clearance of 8 feet from the centerline of the railroad tracks at all times.
- Scrap pad truck deliveries must occur within the specified zones outlined in Appendix A. Improper
 deliveries on the scrap pad will result in the truck driver being permanently banned from our site.

QUALITY INSPECTION POLICY

SDI understands that iron and steel by their nature, are unique commodities, and will work with all our Suppliers to ensure our quality specifications and standards are fair and equitable. To complement our Iron and Steel Specifications Manual, SDI has implemented the following:

- A strict inspection procedure. Every truck or railcar which enters our facility will be inspected at our scales, pass through radiation detection, and be inspected by trained inspectors when dumped or unloaded. No raw materials will be received without a purchase order.
- 2. Any loads failing to meet our standards, as outlined, will be rejected. If the load is acceptable scrap, but does not match the intended purchased grade, it will be at the discretion of Steel Dynamics whether to accept the load as a downgrade or to reject the load. The decision will be made, and all persons notified prior to vehicle leaving site. If the load is downgraded, then the Supplier must determine whether to return the load or accept the downgraded price. Ongoing rejections and downgrades are costly and inefficient for both Suppliers and Steel Dynamics.



Specifications, Terms & Conditions

Iron & Steel Scrap General Requirements

Commodity: ALL / Grade: ALL

Special Definitions:

- **Downgrade:** When a particular grade of scrap is found to not conform to its represented grade, it may, by agreement between SDI-Columbia City and supplier, be downgraded and accepted as an inferior grade of scrap.
- Free of: When specified to be "free of", the grade shall not contain any amount of prohibited material in any amount greater than that which is unavoidable in the customary preparation and handling of that particular grade.

<u>Free of alloys</u>: Shall mean that any alloys contained in the steel are residual and have not been added for the purpose of making an alloy steel. Steel scrap shall be considered free of alloys when the residual alloying elements do not exceed the following percentages:

Manganese (Mn) 1.65%
 Chromium (Cr) 0.20%
 Nickel (Ni) 0.45%
 Molybdenum (Mo) 0.10%

- <u>Grade</u> or <u>Type</u>: A classification of scrap type based upon Institute of Scrap Recycling Industries (ISRI) ferrous scrap classification or SDI-CCI / vendor description.
- Off-grade: A load of scrap shall be considered off grade if it fails to meet:
 - 1. Applicable size & density limitations
 - 2. Applicable requirements of material "kind" by visual inspection
 - 3. Applicable requirements of material quality & chemistry

as specified for the material (grade) within this document.

• NORM: Naturally Occurring Radioactive Material (NORM) emitting less than 2X background radiation level.

General Specifications:

- <u>Cleanliness</u>: All grades shall be free of dirt, mill scale, swarf, non-ferrous metals, excessive rust and corrosion, oil and grease, foreign material of any kind, and any non-metallic materials (wood, concrete, dirt, fluff, plastics, etc.). Any charges billed to SDI Columbia City for dunnage left in a railcar may be passed on to the shipper.
- <u>Inspection</u>: All material is to be suitable and acceptable to Steel Dynamics, Inc.
- <u>Loading/Unloading</u>: All grades must be capable of being loaded and unloaded by electromagnet.

Seller's indemnification includes indemnification for delivery under this Purchase Order by means of any frameless trailer. Seller agrees that it shall be solely liable for any and all damages, including any clean up and/or SDI down time resulting from Seller's utilization of any frameless trailers for delivery of the product covered by this Purchase Order. Seller shall be responsible for any costs, attorney fees or any consequential damages incurred by SDI for recovery of the Items due or owed by Seller under this paragraph.

- <u>Cast Iron</u>: Unless specifically purchased as a Cast Iron or Pig Iron grade, all scrap grades shall contain less than 1% (by weight) of cast iron unless otherwise noted in the specification. This includes, but is not limited to, Cast Iron, Pig Iron, composite brake shoes, engine blocks, railway wheels and castings.
- Stainless Steel: All grades shall be free of stainless steel.
- <u>Tin Plate</u>: All grades shall be free of tin-plated materials.
- **Residual Alloys**: Wherever the term "free of alloys" is used in the classifications given herein, it shall pertain to highly alloyed steels such as stainless or leaded steels.
- <u>Off-grade</u>: The grade shall be free of Off-Grade materials except where the vendor can demonstrate that inclusion of negligible amounts of Off-Grade materials are unavoidable in the customary preparation and handling of the grade involved.



Specifications, Terms & Conditions

Iron & Steel Scrap General Requirements (cont.):

Commodity: ALL / Grade: ALL

- Hazardous Materials: All grades shall be free of hazardous materials including but not limited to:
 - Asbestos-containing material (typically in brake shoes, pipe insulation, etc.)
 - PCB-containing Material (Polychlorinated Biphenyls) no units containing PCBs or PCB residues
 - Refrigerants or refrigerant-containing materials (e.g. air conditioners or condensers)
 - Explosives, Military-scrap (including ammunition casings), Munitions, Bullets, Military Target Range Scrap
 or other Explosives
 - Ignition Sources, Flammable or Combustible materials
 - Fracking scrap All grades are to be free of gas and oil well perforation tools/piping and all other hazardous materials (e.g.) explosives associated with fracking
 - Hazardous Wastes, Other regulated wastes, and their containers
 - Radioactive materials (radiography sources, Medical therapy devices, Beta emitting devices, etc.)
 - Oil-filled devices (e.g. capacitors or transformers) and free-flowing oil (on surface or containerized)
 - Batteries of any type
 - Electronic waste (to the extent practicable)
 - Mercury containing materials including but are not limited to mercury-wetted or -containing relays, switch gear, rectifiers, gauges, manometer, barometers, thermometers, and fluorescent lighting fixtures.
 - Non-metallic material (wood, paper, fibers, rubbers, foam, fluff, insulation, concrete, dirt, plastic, oils, greases, tires or tire pieces of any type, etc.)
 - Nonferrous materials (electric motors, piping, compressors, wires, brass/bronze castings, copper plated bundles, tin plated materials, chrome plate materials, lead, aluminum, etc.)
- Other Prohibited Contaminants: All grades shall be free of prohibited contaminants including but not limited to:
 - Materials that contain free organic liquids include, but are not limited to, oil filters engine blocks, oily turnings, oily machine shop borings, or storage drums or totes.
 - Materials that contain chlorinated plastics include, but are not limited to, consumer products (e.g., carpeting, clothing, foam, furniture, Styrofoam), containers (e.g. bags, bottles, food packaging, packaging materials), or plastic motor vehicle components (e.g. battery casings, bumpers, plastic parts).
 - Lead-containing materials include but are not limited to lead-based paints, batteries, gasoline tanks, mufflers and tail pipes, forklift and equipment counterweights, wheel balancing weights, babbit, solder, radiators, leaded joints in soil pipe, and terne material.
 - Motor vehicle shredded scrap commodity providers must participate in the National Motor Vehicle Switch Removal Program (NMVSRP) or another U.S. EPA-approved mercury switch removal program.
- Radioactive Material: All inbound scrap by truck and railcar is scanned by radiation detection equipment. Scrap shipments found containing radiation sources or NORM that triggers a radiation alarm will be immediately rejected. Under no circumstances shall any radioactive scrap be subject to acceptance through downgrade.
- <u>Sealed Containers</u>: All grades shall not contain Closed, Enclosed, or Sealed containers. Such containers are a serious explosion hazard, which may result in the loss of life, limb, and/or property. Any scrap shipment arriving that is found to contain a closed container will be rejected, and if any vendor fails to address the issue may result in the suspension or termination as an approved scrap supplier to Steel Dynamics Columbia City. Containers may only be accepted providing they have been processed such that; one end has been removed, a minimum of two large holes broach the "sealed" portion of the container, or the container has been cut in half.
 - Closed, Enclosed, or Sealed Containers include, but are not limited to, hydraulic or gas cylinders, compressed gas cylinders or tanks, oxygen or propane tanks, fire extinguishers, aerosol cans that have not been properly vented or depressurized, or any vessels which contains or retains gases, oils, fluids or pressurized substances, sheared pipe that is not open on both ends, auto/truck drive shafts, shock absorbers, struts, torque converters, gear boxes, conveyor rollers, closed ball valves, etc.
- <u>Deviations</u>: Deviations from the general classifications of iron or steel commodities given herein may be allowed by mutual written agreement between Steel Dynamics Columbia City and the supplier.



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Pig Iron	Sizing Dimensions:	12" L x 6" W x 5" H maximum				
SDI Part #: 1400-009-001	Thickness:	n/a				
ISRI#: n/a	Minimum Density:	180 lb/ft ³				
	Typical Density:	200 - 220 lb/ft ³				
Description / Typical Constituents	Iron ore that has been reduced to liquid iron in a blast furnace. Cast into individual small pigs grouped pigs that have been broken into smaller pieces, or pyramids. Residual chemistry content is extremely low.					

Chemistry specifications are defined mutually for each lot purchase or contract. A quality certification must be provided for each barge or shipment.

Prohibitions Fines content must not exceed 5% by weight of the delivered load.

May not contain beach iron, kish graphite, home scrap, broken castings (other than broken pigs), furnace slag or cast iron.

Chemistry	Fe	С	Mn	Si	Р	S	Cu	Cr	Ni	Мо	Sn
Minimum wt %	93										
Maximum wt %	1	5.00	0.50	0.70	0.080	0.050	~0	~0	~0	~0	~0







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#1 Busheling	Sizing Dimensions:	60" L x 24" W maximum					
SDI Part #: 1400-004-001	Thickness:	1/8" maximum					
ISRI #: 207, 207A	Minimum Density:	58 lb/ft³					
	Typical Density:	65 - 80 lb/ft ³					
Description / Typical Constituents	Clean steel scrap that is generated from cutting and forming processes during factory production. Materials can include sheet steel, clippings, slitter scrap, stampings, punchings skeleton scrap.						

Painted and galvanized scrap shall not make up more than 15% of the delivered load. All other coating substances are prohibited.

Prohibitions

May not contain pipe, tubing, vitreous enameled materials, electrical steel, nails, wire, nuts, bolts, screws, tin cans, alloy steel, stainless steel, mandrel coils, slitter coils, entangled material, streamers, strapping, banding, cables, chains, old auto body and fender stock, terne plate, tin plate or chemically de-tinned material, rebar or material that has been copper plated.

Chemistry	Fe	С	Mn	Si	Р	S	Cu	Cr	Ni	Мо	Sn
Minimum wt %	97		ı	ı		1		I			
Maximum wt %		0.30	1.00	0.40	0.030	0.040	0.10	0.10	0.10	0.030	0.010







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#1 Bundles	Sizing Dimensions:	36" L x 36" W x 36" H maximum
SDI Part #: 1400-005-001	Thickness:	1/8" maximum
ISRI #: 208, 217	Minimum Density:	67 lb/ft ³
	Typical Density:	75 - 90 lb/ft ³
Description / Typical Constituents	1 -	d bundles containing clean steel scrap. Bundled materials can include tter scrap, stampings, punchings, or skeleton scrap.

Painted and galvanized scrap shall not make up more than 15% of the delivered load. All other coating substances are prohibited.

Prohibitions

May not contain pipe, tubing, vitreous enameled materials, electrical steel, nails, wire, nuts, bolts, screws, tin cans, alloy steel, stainless steel, mandrel coils, slitter coils, other types of steel coils, entangled material, streamers, strapping, banding, cables, chains, old auto body and fender stock, terne plate, tin plate or chemically de-tinned material, rebar or material that has been copper plated.

Chemistry	Fe	С	Mn	Si	Р	S	Cu	Cr	Ni	Мо	Sn
Minimum wt %	97										
Maximum wt %		0.30	1.00	0.40	0.030	0.040	0.10	0.10	0.10	0.030	0.010







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#2 Bundles	Sizing Dimensions:	36" L x 36" W x 36" H maximum					
SDI Part #: 1400-006-001	Thickness:	1/8" minimum					
ISRI #: 209, 218	Minimum Density:	54 lb/ft ³					
	Typical Density:	60 - 75 lb/ft ³					
Description / Typical Constituents	Hydraulically compressed bundles containing clean and/or obsolete steel scrap. Bundled materials can include light gauge angles and shapes, stripped appliance shells, galvanized and painted siding and roofing, air conditioning ductwork, lawnmower decks, bicycle frames, light gauge pipe and tube, filing cabinets, steel shelving, and sheet steel from doors, hoods, trunk lids, fenders, and oil pans.						

Individual bundles containing more than 15% rebar will be rejected. Steel wires, cables, springs, and banding are strictly prohibited due to potential energy hazards when handling.

ProhibitionsMay not contain municipal scrap, incinerator scrap, leaded steel, terne sheet, excessive fluff, vitreous enameled materials, tin cans, copper wire, harnesses, motors, compressors, capacitors, circuit boards, plastic, insulation, turnings, cast iron, dirt, trash, shock absorbers, sealed containers, and non-ferrous metals.

	Chemistry	Fe	С	Mn	Si	Р	S	Cu	Cr	Ni	Мо	Sn
	Minimum wt %	95										
Ī	Maximum wt %		0.50	1.50	0.50	0.040	0.050	0.40	0.25	0.35	0.080	0.030







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Banded Coils	Sizing Dimensions:	36" L x 36" W x 36" H maximum
SDI Part #: 1400-007-001	Thickness:	1/4" maximum
ISRI#: n/a	Minimum Density:	67 lb/ft ³
	Typical Density:	75 - 90 lb/ft ³
Description / Typical Constituents	•	eleton reels. Must be tightly secured with banding to be handled with a ganized and shipped by railcar.

Each coil will be packaged with a minimum of 3 bands spaced evenly around the coil. Coils with missing, loose, or broken bands will be rejected. Coils are to be received via railcar only.

Prohibitions Painted and galvanized scrap shall not make up more than 15% of the delivered load. All other coating substances are prohibited.

May not contain pipe, tubing, electrical steel, stainless steel, and rebar.

	Chemistry	Fe	С	Mn	Si	Р	S	Cu	Cr	Ni	Мо	Sn
	Minimum wt %	97										
Ī	Maximum wt %		0.30	1.00	0.40	0.030	0.040	0.10	0.10	0.10	0.030	0.010







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Turning Bundles	Sizing Dimensions:	36" L x 36" W x 36" H maximum					
SDI Part #: 1400-008-001	Thickness:	1/32" minimum					
ISRI#: n/a	Minimum Density:	36 lb/ft ³					
	Typical Density:	40 - 50 lb/ft ³					
Description / Typical Constituents	Hydraulically compressed bundles containing clean steel or wrought iron turnings, drillings, of screw cuttings that are free of excessive rust, oils, mill scale, non-metallics and non-ferrous metals. Bundled materials can include both alloy free and low alloy steel.						

Delivered loads containing more than 5% rust, non-ferrous and non-metallics will be rejected.

Prohibitions May not contain cast iron borings, stainless steel, excessive rust, oils, mill scale, non-metallics, non-

ferrous metals, dirt, trash, swarf, steel shot, grinding media, resulfurized steels (1100 series),

rephosphorized steels (1200 series), or leaded steels.

Chemistry	Fe	С	Mn	Si	Р	S	Cu	Cr	Ni	Мо	Sn
Minimum wt %	95										
Maximum wt %		0.50	1.50	0.50	0.050	0.050	0.40	0.25	0.35	0.080	0.030







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#1 Shredded	Sizing Dimensions:	10" L x 10" W x 10" H maximum
SDI Part #: 1400-012-001	Thickness:	3/8" maximum
ISRI #: 211, 212	Minimum Density:	58 lb/ft ³
	Typical Density:	65 - 75 lb/ft ³
Description / Typical Constituents	Shredded materials can miscellaneous sheet stee	n shredded and magnetically separated to homogenize the size. include automobiles, appliances, heavy melting steel, and el. All apparent non-metallics and copper should be manually sessing is performed to reduce the copper content.

Delivered loads containing more than 5% non-ferrous and non-metallics will be rejected.

Prohibitions

Motor vehicle shredded scrap commodity providers must participate in the National Motor Vehicle Switch Removal Program (NMVSRP) or another U.S. EPA-approved mercury switch removal program.

May not contain municipal scrap, incinerator scrap, lead-coated steel, vitreous enameled materials, tin cans or tin-plated materials, copper-clad or plated steel, electric motors, rebar, cast iron, turnings, borings, alloy steel, copper wire, dirt, trash, and excessive fluff.

Chemistry	Fe	С	Mn	Si	Р	S	Cu	Cr	Ni	Мо	Sn
Minimum wt %	96										
Maximum wt %	1	0.40	1.20	0.50	0.030	0.040	0.20	0.15	0.10	0.030	0.020







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#2 Shredded	Sizing Dimensions:	10" L x 10" W x 10" H maximum
SDI Part #: 1400-003-001	Thickness:	3/8" maximum
ISRI #: 210, 211, 212	Minimum Density:	50 lb/ft ³
	Typical Density:	55 - 65 lb/ft ³
Description / Typical Constituents	Shredded materials can miscellaneous sheet stee	n shredded and magnetically separated to homogenize the size. include automobiles, appliances, heavy melting steel, and el. All apparent non-metallics and copper should be manually ace amounts of copper wire.

Delivered loads containing more than 5% non-ferrous and non-metallics will be rejected.

Prohibitions

Motor vehicle shredded scrap commodity providers must participate in the National Motor Vehicle Switch Removal Program (NMVSRP) or another U.S. EPA-approved mercury switch removal program.

May not contain municipal scrap, incinerator scrap, lead-coated steel, vitreous enameled materials, tin cans or tin-plated materials, copper-clad or plated steel, electric motors, rebar, cast iron, turnings, borings, alloy steel, dirt, trash, and excessive fluff.

Chemistry	Fe	С	Mn	Si	Р	S	Cu	Cr	Ni	Мо	Sn
Minimum wt %	96										
Maximum wt %		0.40	1.20	0.50	0.030	0.040	0.30	0.15	0.10	0.030	0.020







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Plate & Structural	Sizing Dimensions:	60" L x 24" W x 12" H maximum
SDI Part #: 1400-010-001	Thickness:	1/4" minimum
ISRI #: 231, 232, 236,	Minimum Density:	50 lb/ft ³
237, 238	Typical Density:	55 - 65 lb/ft ³
Description / Typical Constituents		ructural and plate steel scrap. Materials can include plate, structural rings, heavy wall pipe and tubing, railcar frames and bolsters, ship ken steel tire rims.

All pipe and tube with an 8" diameter or greater must be cut in half. Sheared or pinched pipe and tube is strictly prohibited. Pipe and tube shall not exceed more than 20% of the delivered load. All pipe and tube are to be free of concrete or ceramic lining.

Prohibitions

May not contain rail wheels and bearings, tool & die blocks, cut up machinery, cam shafts, crank shafts, torque converters, cables, chains, springs, gears or gear boxes, electrical panels, motor or motor blocks of any kind, counterweights, cast iron, and rebar.

Chemistry	Fe	С	Mn	Si	Р	S	Cu	Cr	Ni	Мо	Sn
Minimum wt %	96										
Maximum wt %		0.40	1.20	0.50	0.030	0.040	0.15	0.15	0.15	0.030	0.015







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Alloy Steel	Sizing Dimensions:	24" L x 24" W x 24" H maximum					
SDI Part #: 1400-019-001	Thickness:	1/8" minimum					
ISRI#: n/a	Minimum Density:	50 lb/ft ³					
	Typical Density: 55 - 65 lb/ft ³						
Description / Typical Constituents		ed in foundry, forging or other industrial processes. Materials can gings, dies and tool, mixed alloy steel, gears and pinions, armor plate, els, and cut bar stock.					

Prohibitions

May not contain mill scale, chains, cables, banding, springs, rebar, non-ferrous metals, tin coating, stainless steel, resulfurized steels (1100 series), rephosphorized steels (1200 series), or leaded steels.

Chemistry	Fe	С	Mn	Si	Р	S	Cu	Cr	Ni	Мо	Sn
Minimum wt %	94		ı			1		0.30	0.10	0.10	
Maximum wt %	1	0.40	1.20	0.50	0.030	0.040	0.25	1.00	1.00	0.30	0.025







Prohibitions

Iron & Steel Scrap Manual Specifications, Terms & Conditions

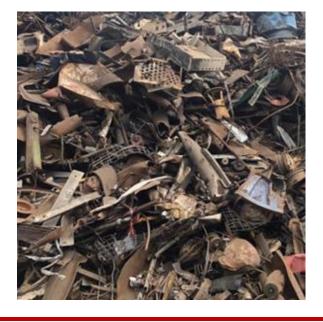
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#1 HMS 60" L x 24" W x 12" H maximum Sizing Dimensions: Thickness: 1/4" minimum SDI Part #: 1400-001-001 Minimum Density: 50 lb/ft3 ISRI #: 200, 201, 202 55 - 70 lb/ft³ Typical Density: Consists of steel scrap and wrought iron excluding galvanized and blackened steel. Materials Description / can include automobile scrap and parts, appliances, plate, structural shapes and beams, large **Typical Constituents** machinery, pipe and tube, rebar, racking and frames, nuts, bolts, nails, dies, and other industrial scrap.

Delivered loads containing more than 5% non-ferrous and non-metallics will be rejected. Rebar shall not exceed more than 10% of the delivered load.

May not contain galvanized and blackened steel, non-ferrous metals, trash, dirt, insulation, concrete, rocks, grease, oil, tin cans, turnings, borings, cast iron, chains, cables, banding, springs, forklift counterweights, municipal scrap, incinerator scrap, stainless steel, exhaust system components, torque converters, sealed containers and tanks, shock absorbers, electric motors, alternators, and wiring harnesses.

Chemistry	Fe	С	Mn	Si	Р	S	Cu	Cr	Ni	Мо	Sn
Minimum wt %	95					-					
Maximum wt %		0.50	1.50	0.50	0.040	0.050	0.35	0.20	0.30	0.060	0.025







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#2 HMS	Sizing Dimensions:	60" L x 24" W x 12" H maximum
SDI Part #: 1400-002-001	Thickness:	1/8" minimum
ISRI #: 203, 204, 205, 206	Minimum Density:	45 lb/ft ³
	Typical Density:	50 - 65 lb/ft ³
Description / Typical Constituents	can include automobile s	nd wrought iron including galvanized and blackened steel. Materials scrap and parts, appliances, plate, structural shapes and beams, large e, rebar, racking and frames, nuts, bolts, nails, dies, and other

Delivered loads containing more than 5% non-ferrous and non-metallics will be rejected. Rebar shall not exceed more than 10% of the delivered load.

ProhibitionsMay not contain non-ferrous metals, trash, dirt, insulation, concrete, rocks, grease, oil, tin cans, turnings, borings, cast iron, chains, cables, banding, springs, forklift counterweights, municipal scrap, incinerator scrap, stainless steel, exhaust system components, torque converters, sealed containers and tanks, shock absorbers, electric motors, alternators, and wiring harnesses.

Chemistry	Fe	С	Mn	Si	Р	S	Cu	Cr	Ni	Мо	Sn
Minimum wt %	95										
Maximum wt %		0.50	1.50	0.50	0.040	0.050	0.40	0.25	0.35	0.080	0.030







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Turnings	Sizing Dimensions:	1" L x 1" W x 12" H maximum		
SDI Part #: 1400-013-001	Thickness:	1/32" minimum		
ISRI #: 219, 221, 246, 247	Minimum Density:	27 lb/ft ³		
	Typical Density:	30 - 40 lb/ft ³		
Description / Typical Constituents	Clean steel or wrought iron turnings, drillings, or screw cuttings that are free of excessive rust, oils, mill scale, non-metallics and non-ferrous metals. May contain both alloy free and low alloy steel.			

Delivered loads containing more than 5% rust, non-ferrous and non-metallics will be rejected.

Prohibitions May not contain cast iron borings, stainless steel, excessive rust, oils, mill scale, non-metallics, non-

ferrous metals, dirt, trash, swarf, steel shot, grinding media, resulfurized steels (1100 series),

rephosphorized steels (1200 series), or leaded steels.

Chemistry	Fe	С	Mn	Si	Р	S	Cu	Cr	Ni	Мо	Sn
Minimum wt %	95										
Maximum wt %		0.50	1.50	0.50	0.050	0.050	0.40	0.25	0.35	0.080	0.030







SUPPLIER COMPLIANCE AGREEMENT

The undersigned supplier has read and agreed to Steel Dynamics Columbia City Iron & Steel Scrap Specifications Manual. This includes general terms and conditions, environmental issues, closed containers/sealed units, radioactive material, other unacceptable material, and material specifications.

The supplier acknowledges that Steel Dynamics Columbia City may not accept any shipment in whole or in part that does not meet the conditions and specifications described within this manual. The supplier also acknowledges that by violating this agreement they may be disqualified from supplying raw material to Steel Dynamics Columbia City.

Although Steel Dynamics Columbia City will exercise reasonable effort to inspect scrap shipments, materials supplied can contain constituents not readily detected during normal inspection, which expose Steel Dynamics Columbia City to hazards associated with its use. Such constituents may include, for example, sealed containers, radiation sources, hazardous or flammable liquids, etc.. In all cases Steel Dynamics Columbia City acceptance of any shipment shall not constitute any waiver of its rights to pursue a claim of damages if subsequent use results in damage or injury to personnel or property.

I, the undersigned supplier, or authorized representative of said supplier, do hereby acknowledge receipt and understanding of the specifications and conditions of this agreement.

Please complete and return by fax or email upon receipt to:						
Kevin Rupp	Kevin.Rupp@steeldynamics.com	Direct: (260) 469-4339	Fax: (260) 868-8954			
Supplier's Na	me:					
Company Na	me:					
Address:						
City/State/Zip	:					
Phone:	Ext:	Mobile:	Fax:			
Email:						
Signature:		Title:				
Radiation De	etection Equipment Manufacturer N	lame & Model Number:				
Handheld:	Truck:	Rail:				
Rail Line:		Shipping Yard Locations	:			



NON-DISCLOSURE AGREEMENT

Dear Supplier:

Thank you for your interest in serving as a Supplier to Steel Dynamics Columbia City. For purposes of evaluating a potential business relationship between Steel Dynamics and Supplier, Supplier has requested that Steel Dynamics furnish Supplier with certain information relating to the operations, assets, finances, transactions and general business of Steel Dynamics and its affiliates (the "Confidential Information"). Steel Dynamics agrees to provide such Confidential Information to Supplier, subject to the express terms of this agreement ("Agreement").

For purposes of this Agreement, Confidential Information shall include but not be limited to all data, reports, records, trade secrets, financial statement and projections, customer and supplier identities and information, and/or other information and materials, whether in written, oral, electronic or other format, disclosed to Supplier both prior to and subsequent to executing this Agreement; in addition to any analyses, notes, reports, memoranda, work papers or work product prepared by Supplier or any of Supplier's employees, agents or representatives ("Supplier Representatives") derived from, based upon or containing Confidential Information. Confidential Information shall be expressly included in the fact that Steel Dynamics and Supplier are contemplating a business relationship and the fact that Supplier has been permitted access to the Confidential Information.

In consideration of Steel Dynamics furnishing the Confidential Information, Supplier agrees to the following:

- 1. Supplier shall maintain such Confidential Information in strict confidence. Supplier shall not, directly or indirectly, disclose the Confidential Information to any other person or entity without the written consent of an authorized Officer of Steel Dynamics; provided, however, Supplier may disclose Confidential Information (a) subject to Section 3 of this Agreement, to those of Supplier's Representatives that have a need to review the Confidential Information to assist Supplier in evaluating the business relationship; and (b) subject to Section 7 of this Agreement, if required by law or valid legal process.
- 2. Supplier shall not use the Confidential Information for any purpose other than in connection with the business relationship and shall not use the Confidential Information in any manner that exploits or disadvantages Steel Dynamics or benefits any third party.
- 3. Supplier shall inform Supplier Representatives of Supplier's obligations under this agreement and will obligate Supplier Representatives to abide by the terms of this Agreement. In any event, the actions and omissions of Supplier Representatives shall be deemed by actions of Supplier with respect to the Confidential Information and, Supplier agrees that it is liable for any breach of this Agreement by Supplier Representatives. Supplier acknowledges and agrees that any unauthorized use or disclosure of the Confidential Information shall constitute a material breach hereof and shall cause irreparable harm and loss to Steel Dynamics and its affiliates.



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- Upon Steel Dynamics request, Supplier shall either destroy or return to Steel Dynamics (at Steel Dynamics election) all Confidential Information (including all copies thereof) in possession of Supplier or Supplier Representatives.
- 5. Supplier shall take such action within five (5) business days of any such request and upon request of Steel Dynamics, shall supply Steel Dynamics with a written certification that Supplier has fulfilled its obligations under this Section 4.
- Supplier acknowledges and agrees that Steel Dynamics is the exclusive owner of the Confidential Information, including all intellectual property rights contained therein. No license or conveyance of any such rights is granted to Supplier or implied under this Agreement.
- 7. In the event that Supplier and/or Supplier Representatives are required by law or valid legal process to disclose any of the Confidential Information, Supplier shall provide Steel Dynamics with prompt written notice so that Steel Dynamics may seek a protective order or other appropriate remedy and/or waive compliance with the provisions of this Agreement for purposes of such limited disclosure. If, in the absence of a protective order or the receipt of a waiver by Steel Dynamics, Supplier and/or Supplier Representative are nonetheless required to disclose Confidential Information, Supplier and/or Supplier Representatives may, without liability hereunder, disclose only that portion of the Confidential Information which, in the opinion of its respective counsel, is legally required to be disclosed.

Supplier understands that Steel Dynamics makes no representations or warranties regarding the accuracy or completeness of any Confidential Information. Supplier agrees that Steel Dynamics shall have no liability to Supplier or any Supplier Representative arising out of or in connection with the Confidential Information.

It is further understood that Steel Dynamics has appointed Kevin Rupp, or his designee ("Agent") as its contact person for purposes of this Agreement. Supplier agrees that it shall direct all communications and requests for information regarding Steel Dynamics through Agent or Agent's designated legal counsel. Supplier understands that unless specifically authorized by Agent, Supplier and Supplier's Representatives may not contact any other employee, or representative of Steel Dynamics. In addition, Supplier and Supplier Representatives shall be prohibited from contacting any Steel Dynamics customers or Suppliers unless first receiving written authorization from Agent or an authorized Officer of Steel Dynamics.

Supplier further acknowledges and agrees that Steel Dynamics shall have no obligation to authorize or pursue a business relationship with Supplier or any other party. Steel Dynamics shall be free to pursue a potential business relationship with any party, as Steel Dynamics in its sole discretion shall determine.

This Agreement shall remain in full force and effect for so long as Supplier has access to any Confidential Information, and for a period of five (5) years thereafter. In the event of any breach of this Agreement by Supplier or Supplier's Representatives, Steel Dynamics and its affiliates, (in addition to and not in lieu of any other remedies at law or in equity that it may have), shall be entitled, without the requirement of posting a bond or other security, to equitable relief, including injunctive relief and specific performance.



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This Agreement shall be governed by, and construed and enforced in accordance with, the laws of the State of Indiana, without regard to its conflicts of law rules. In any action to enforce this Agreement, the prevailing party shall be entitled to recover its reasonable attorney's fees and costs. In the event that any portion of this agreement shall be deemed unenforceable, the balance of this Agreement shall remain enforceable and be interpreted as if the unenforceable provision is deleted from this Agreement. This Agreement shall bind Supplier's successors and assigns, and any assignment of this Agreement by Supplier without prior written consent of Steel Dynamics shall be void. This Agreement constitutes the entire agreement between the parties hereto with respect to the subject matter hereof and may be amended or modified only in a written instrument executed by the parties hereto.

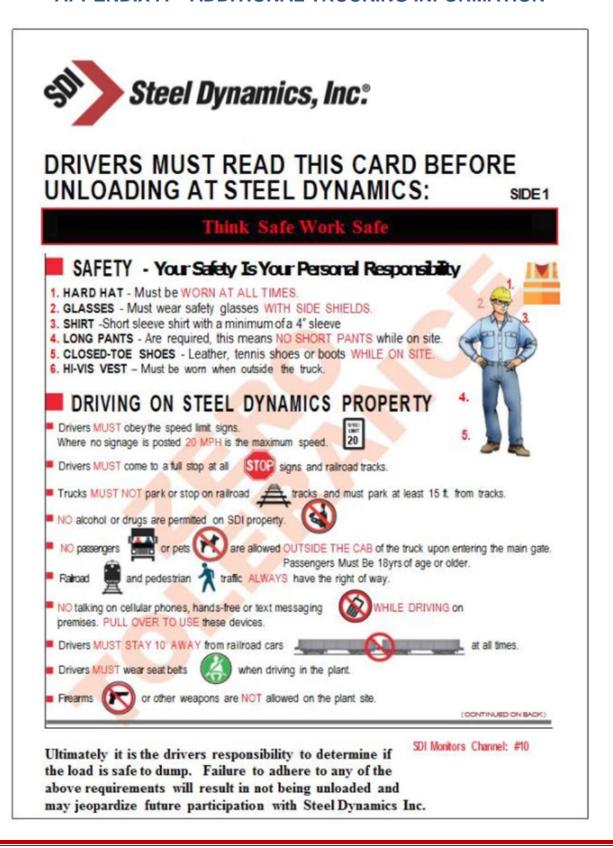
If Supplier is in agreement with the foregoing, please sign and return one copy of this Agreement to Steel Dynamics, which thereupon will constitute an Agreement between parties, each intending to be legally bound, with respect to the subject matter hereof.

Sincerely,	
Steel Dynamics, In	c. – Long Products Group, Structural & Rail Division
BY:	
TITLE:	
ACCEPTED AND A	AGREED TO BY SUPPLIER:
BY:	
TITLE:	
COMPANY:	
DATE SIGNED:	



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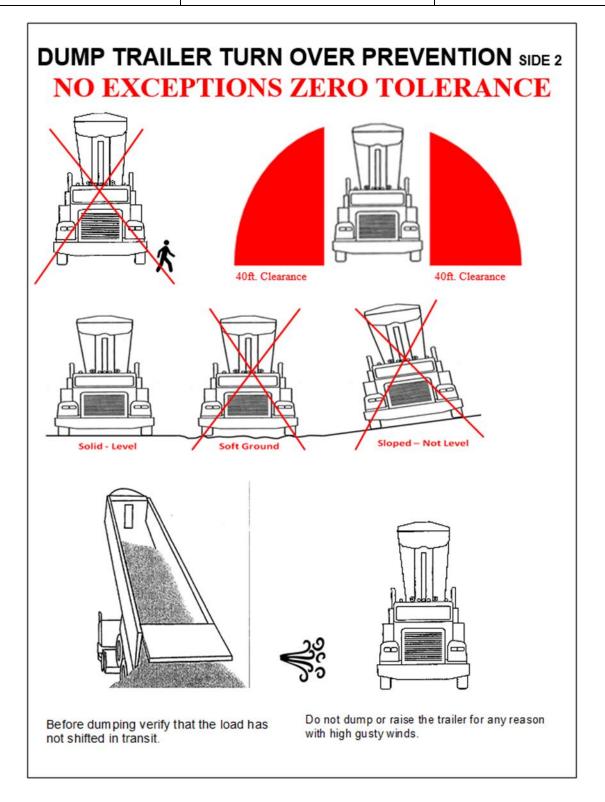
APPENDIX A - ADDITIONAL TRUCKING INFORMATION





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TOWING AND RECOVERY SERVICE USED TO RECLAIM TRUCK WILL BE LEFT UP TO THE TRUCKING COMPANY'S DISCRETION



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SCRAP PAD TRUCK OFFLOADING ZONES

- 1. THE TRUCK DRIVER CAN EXIT THE CAB OF THE TRUCK ONLY WHEN IN THE GREEN ZONE. ALL PARTS OF THE TRUCK INCLUDING THE GATE MUST REMAIN IN THIS ZONE WHEN THE TRUCK DRIVER IS LATCHING OR UNLATCHING THE TRUCK GATE.
- 2. THE TRUCK DRIVER CAN BACK THE TRUCK UP INTO THE YELLOW ZONE FOR OFFLOADING BUT MUST REMAIN IN THE CAB AT ALL TIMES. EXITING THE CAB IN THIS ZONE IS FORBIDDEN.
- 3. NO PART OF THE TRUCK IS ALLOWED TO BREACH THE RED ZONE. ENTERING THIS ZONE IS STRICTLY PROHIBITED AND THE TRUCK DRIVER WILL BE PERMANENTLY BANNED FROM OUR SITE.





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APPENDIX B – DUMP TRAILER TIP-OVER PREVENTION PROGRAM





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Dumping Equipment Safety Critical Inspection Points – Roll-Off Trailers & Dump Trailers

Trailer/Container Door Condition

- Check all welds for breaks and/or corrosion
- Maintain (grease) and inspect all hinges
- Maintain (grease) and inspect all chains/binders







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Dumping Equipment Safety Critical Inspection Points – Roll-Off Trailers & Dump Trailers

Rear Suspension / Trailer Frame:

- Check all airbags for proper inflation (free of leaks).
- Ensure all mounting brackets are free of corrosion.
- Ensure all lines to airbags are in good condition (free of chafing or leaks)



- Ensure there are no broken:
 - Springs -
 - Spring Center Bolts -
 - Shackle Bolts —



 Ensure all hinge/dump pins are maintained, lubricated and in good condition (free of cracks and/or excessive wear)





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Dumping Equipment Safety Critical Inspection Points – Roll-Off Trailers & Dump Trailers

Rear Suspension / Trailer Frame - Continued:

Ensure tires are properly inflated.
 Ensure rims/wheels are free of cracks, breaks and missing/broken lugnuts.



Ensure the frame of the dump trailer or roll-off container has no breaks in the frame. Ensure all bolts and welds are in good condition and properly securing the trailer or rolloff frame to the chassis of the trailer.





Dumping Equipment Safety Critical Inspection Points – Roll-Off Trailers & Dump Trailers

<u>Dump Tub / Trailer Frame:</u>

 Inspect and maintain dump tub properly to ensure it's free of breaks, cracks, broken welds and broken mounting brackets.



 Ensure all cylinder mounts are properly lubricated and free of cracks or breaks.



 Ensure all cylinder pins are visibly in place and not working their way out of their mounts.





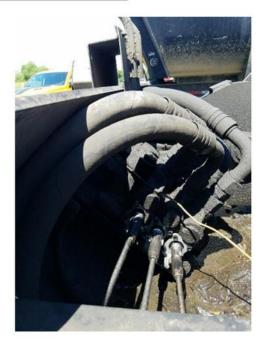
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Dumping Equipment Safety Critical Inspection Points – Roll-Off Trailers & Dump Trailers

<u>Dump Tub / Trailer Frame - continued:</u>

 Inspect all hydraulic cylinders, fittings, hoses and valves for blown, bulging or leaking seals.



 Ensure all rollers on a roll-off trailer have a retaining bolt or cotter key present in order to prevent the loss of a roller.





Dumping Equipment Safety Critical Inspection Points – Roll-Off Trailers & Dump Trailers

Landing Gear & Fifth Wheel Area:

 Inspect all landing gear bolts, brackets and welds for excessive wear and/or corrosion. Ensure all bolts are tight, not allowing the landing gear to move while in use.



 Ensure fifth wheel plate is free of cracks and that the fifth wheel pin is secure and in good condition.



 Check hydraulic fittings for cracks, leaks or missing parts.



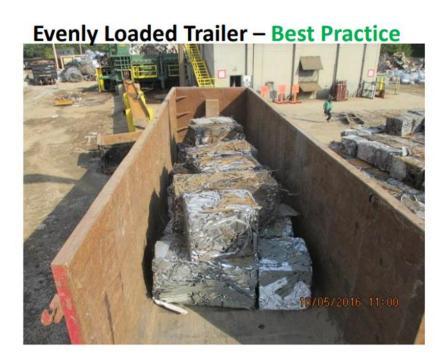


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Suggested Material Loading Practices

Scrap metal bundles should be loaded with a grapple or magnet in order to ensure even distribution of material.







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Suggested Material Loading Practices

Plate & Structural-type material should be loaded with a grapple or magnet in order to ensure even distribution of material.

Evenly Loaded Trailer – Best Practice





Unevenly Loaded Trailer – Tip Over Risk

Unnecessary Void





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Suggested Material Loading Practices

Busheling-type material should be loaded with a grapple, magnet or conveyor in order to ensure even distribution of material.

Evenly Loaded Trailer – Best Practice



Unevenly loaded trailer - Tip over Risk





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Suggested Material Loading Practices

Turnings and Borings should be loaded with a conveyor, magnet or loader in order to ensure even distribution of material.

Evenly Loaded Trailer – Best Practice



Unevenly loaded trailer - Tip over Risk





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Suggested Material Loading Practices

Shredded scrap should be loaded with a magnet or loader in order to ensure even distribution of material.

Evenly Loaded Trailer Best Practice



Unevenly Loaded Trailer

Tip over Risk





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APPENDIX C - EXAMPLES OF NON-CONFORMING SCRAP

#1 Busheling

NONCONFORMANCES SUBJECT TO REJECTION

1. Low Density, Tangled Material











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#1 Busheling (cont.)

NONCONFORMANCES SUBJECT TO REJECTION

2. Tangled and Oversized length and/or Thickness





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Bundles Commodities

NONCONFORMANCES SUBJECT TO REJECTION

1. Wire, Rebar, Banding, Cables, Chains, etc.





2. Non-Metallics, Fines, Mill scale, Dirt, etc.







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Miscellaneous

NONCONFORMANCES SUBJECT TO REJECTION

1. Non-Metallics, Dirt, Yard Clean-ups, etc.





2. Large Cast Pieces, Skulls and/or Mill Scrap







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Miscellaneous (cont.)

NONCONFORMANCES SUBJECT TO REJECTION

3. Pinched Pipe/Tube





4. Forklift Counterweights and Other Leaded Weights







APPENDIX D - CALCULATING THE BULK DENSITY OF DELIVERED SCRAP

1. Determine the cubic feet volume of the truck trailer or railcar.

Measure the inside length, width, and height of the truck trailer or railcar in feet. Multiply these three numbers.

Railcar Volume = Length X Width X Height = 52.5 feet X 9.5 feet X 5.5 feet = 2,743 cubic feet

2. Determine the total pounds of scrap in the truck trailer or railcar.

Subtract the tare weight of the truck trailer or railcar from the gross weight of the truck trailer or railcar.

Scrap Weight = Railcar Gross Weight - Railcar Tare Weight = 170,000 lbs - 68,000 lbs = 102,000 lbs

3. Estimate the percentage of the truck trailer or railcar that has been filled with scrap.

Visually estimate the fullness of the truck trailer or railcar from a range of 0 to 100%.

Railcar Fullness = 75%

4. Calculate bulk density of the scrap in the truck trailer or railcar using previously determined data.

Multiply the truck trailer or railcar volume by the truck trailer or railcar fullness to estimate scrap volume.

Scrap Volume = Railcar Volume X Railcar Fullness = 2,743 cubic feet X 75% = 2,057 cubic feet

Then divide the scrap weight in the truck trailer or railcar by the scrap volume in the truck trailer or railcar.

Bulk Density of Scrap = Scrap Weight / Scrap Volume = 102,000 lbs / 2,057 cubic feet = 50 lb/ft3

5. Compare the calculated bulk density of the scrap with the minimum density specification.

The estimated bulk density of the delivered scrap is 50 lb/ft³. Compare this value to the minimum density specified for the corresponding scrap commodity outlined in the *Iron & Steel Scrap Specifications Manual* to determine if the load is within conformance. Downgrade or reject the load if it does not meet the minimum density specification for the corresponding scrap commodity.

As an example, had this railcar been a delivery of #1 Shredded scrap, it would not pass the minimum density specification of 58 lb/ft³. The scrap inspector would then evaluate whether this load could be downgraded to #2 Shredded scrap at a minimum density of 50 lb/ft³. After inspecting the railcar, it was determined that the load contains more than 5% non-ferrous and non-metallics. This violates one of the prohibited items in the #2 Shredded specification which therefore warrants the rejection of this railcar.



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APPENDIX E – Document Revision History

Revision Number	Revision Date	Nature of Revision	Approved By
0	12/18/23	Original issue	Dustin Arvola