



State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
DNR209149

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
FRANK WHITTAKER 804-558-2316

VENDOR
*615113726 800-385-0075
PLAYGROUND SPECIALIST INC
17352 N SETON AVE
EMMITSBURG MD 21727

SHIP TO
DIVISION OF NATURAL RESOURCES
CASS SCENIC RAILROAD ST PARK
ATTN: PARK SUPERINTENDENT
BOX 107
CASS, WV
24927 456-4300

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B	FREIGHT TERMS
05/12/2009				

BID OPENING DATE:

06/17/2009

BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		650-38		
PLAYGROUND EQUIPMENT (NOT OTHERWISE CLASSIFIED)						
THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, THE WEST VIRGINIA DIVISION OF NATURAL RESOURCES IS SOLICITING BIDS FOR PLAYGROUND EQUIPMENT FOR CASS SCENIC RAILROAD STATE PARK PER THE ATTACHED SPECIFICATIONS.						
A MANDATORY PRE-BID MEETING WILL BE HELD MAY 21, 2009 AT 10:00 AM AT PARK HEADQUARTERS. FAILURE TO ATTEND THE MANDATORY MEETING WILL RESULT IN BID DISQUALIFICATION. AN INDIVIDUAL MAY NOT REPRESENT MORE THAN ONE VENDOR AT THE PRE-BID MEETING.						
TECHNICAL QUESTIONS MUST BE SUBMITTED IN WRITING TO FRANK WHITTAKER IN THE PURCHASING DIVISION VIA FAX AT 804-558-4115 OR VIA EMAIL AT FRANK.M.WHITTAKER@WV.GOV DEADLINE FOR TECHNICAL QUESTIONS IS 05/22/09 AT 3:00 PM ALL TECHNICAL QUESTIONS WILL BE RESPONDED TO BY ADDENDUM AFTER THE DEADLINE.						
BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT MAY BE DEEMED NULL AND VOID, AND TERMINATED WITHOUT FURTHER ORDER.						
THE MODEL/BRAND/SPECIFICATIONS NAMED HEREIN ESTABLISH THE ACCEPTABLE LEVEL OF QUALITY ONLY AND ARE NOT INTENDED TO REFLECT A PREFERENCE OR FAVOR ANY PARTICULAR BRAND OR VENDOR. VENDORS WHO ARE BIDDING						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
<i>SK Sep</i>	800/385-0075	6/2/09
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE
<i>Pauls Manager</i>	52-2132 887	

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

RECEIVED
2009 JUN 16 P 12:31
PURCHASING DIVISION
STATE OF WV

GENERAL TERMS & CONDITIONS REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. All quotations are governed by the *West Virginia Code* and the *Legislative Rules* of the Purchasing Division.
4. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
5. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/Contract becomes void and of no effect after June 30.
6. Payment may only be made after the delivery and acceptance of goods or services.
7. Interest may be paid for late payment in accordance with the *West Virginia Code*.
8. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
9. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
10. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
11. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
12. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
13. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
14. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (<http://www.state.wv.us/admin/purchase/vrc/hipaa.htm>) is hereby made part of the agreement. Provided that, the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
15. **WEST VIRGINIA ALCOHOL & DRUG-FREE WORKPLACE ACT:** If this Contract constitutes a public improvement construction contract as set forth in Article 1D, Chapter 21 of the West Virginia Code ("The West Virginia Alcohol and Drug-Free Workplace Act"), then the following language shall hereby become part of this Contract: "The contractor and its subcontractors shall implement and maintain a written drug-free workplace policy in compliance with the West Virginia Alcohol and Drug-Free Workplace Act, as set forth in Article 1D, Chapter 21 of the West Virginia Code. The contractor and its subcontractors shall provide a sworn statement in writing, under the penalties of perjury, that they maintain a valid drug-free work place policy in compliance with the West Virginia and Drug-Free Workplace Act. It is understood and agreed that this Contract shall be cancelled by the awarding authority if the Contractor: 1) Fails to implement its drug-free workplace policy; 2) Fails to provide information regarding implementation of the contractor's drug-free workplace policy at the request of the public authority; or 3) Provides to the public authority false information regarding the contractor's drug-free workplace policy."

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division.
2. **SPECIFICATIONS:** Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Complete all sections of the quotation form.
4. Unit prices shall prevail in case of discrepancy.
5. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
6. **BID SUBMISSION:** All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130



State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

Request for Quotation

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ADDRESS CORRESPONDENCE TO ATTENTION OF

FRANK WHITTAKER
804-558-2316

*615113726 800-385-0075
PLAYGROUND SPECIALIST INC
17352 N SETON AVE
EMMITSBURG MD 21727

DIVISION OF NATURAL RESOURCES
CASS SCENIC RAILROAD ST PARK
ATTN: PARK SUPERINTENDENT
BOX 107
CASS, WV
24927 456-4300

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
05/12/2009				

BID OPENING DATE:

06/17/2009

BID OPENING TIME

01:30PM

LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
ALTERNATES SHOULD SO STATE AND INCLUDE PERTINENT LITERATURE AND SPECIFICATIONS. FAILURE TO PROVIDE INFORMATION FOR ANY ALTERNATES MAY BE GROUNDS FOR REJECTION OF THE BID. THE STATE RESERVES THE RIGHT TO WAIVE MINOR IRREGULARITIES IN BIDS OR SPECIFICATIONS IN ACCORDANCE WITH SECTION 148-1-4(F) OF THE WEST VIRGINIA LEGISLATIVE RULES AND REGULATIONS.						
NOTICE						
A SIGNED BID MUST BE SUBMITTED TO:						
DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130						
THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:						
SEALED BID						
BUYER: 44						
RFQ. NO.: DNR209149						
BID OPENING DATE: 06/17/09						
BID OPENING TIME: 1:30 PM						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>SKS</i>	TELEPHONE 800/385-0075	DATE 6/2/09
TITLE <i>SALES MANAGER</i>	FEIN 52-2132887	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER

DNR209149

PAGE

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ADDRESS CORRESPONDENCE TO ATTENTION OF:

FRANK WHITTAKER
304-558-2316

*615113726 800-385-0075
PLAYGROUND SPECIALIST INC
17352 N SETON AVE

EMMITSBURG MD 21727

DIVISION OF NATURAL RESOURCES
CASS SCENIC RAILROAD ST PARK
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05/12/2009				

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BID OPENING TIME

01:30PM

LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:						
----- 301/271-9239 -----						
CONTACT PERSON (PLEASE PRINT CLEARLY):						
----- STEVEN SUTHERLAND -----						
***** THIS IS THE END OF RFQ DNR209149 ***** TOTAL:						
						\$36060.70

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
<i>SK Sep</i>	800/385-0075	6/2/09
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE
SALLS MANAGER	52-2132887	

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

State of West Virginia

VENDOR PREFERENCE CERTIFICATE

Certification and application* is hereby made for Preference in accordance with **West Virginia Code**, §5A-3-37. (Does not apply to construction contracts). **West Virginia Code**, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the **West Virginia Code**. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Resident Vendor Preference, if applicable.

1. **Application is made for 2.5% resident vendor preference for the reason checked:**
☐ Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preceding the date of this certification; or,
☐ Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or 80% of the ownership interest of Bidder is held by another individual, partnership, association or corporation resident vendor who has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or,
☐ Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; or,
2. **Application is made for 2.5% resident vendor preference for the reason checked:**
☐ Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
3. **Application is made for 2.5% resident vendor preference for the reason checked:**
☐ Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a minimum of one hundred state residents who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
4. **Application is made for 5% resident vendor preference for the reason checked:**
☐ Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; or,
5. **Application is made for 3.5% resident vendor preference who is a veteran for the reason checked:**
☐ Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; or,
6. **Application is made for 3.5% resident vendor preference who is a veteran for the reason checked:**
☐ Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.

Bidder understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the requirements for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty against such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency or deducted from any unpaid balance on the contract or purchase order.

By submission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and authorizes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid the required business taxes, provided that such information does not contain the amounts of taxes paid nor any other information deemed by the Tax Commissioner to be confidential.

Under penalty of law for false swearing (**West Virginia Code**, §61-5-3), Bidder hereby certifies that this certificate is true and accurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate changes during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.

Bidder: PLAYGROUND SPECIALISTS INC

Signed: SK SEP

Date: 6/2/09

Title: SALES MANAGER

*Check any combination of preference consideration(s) indicated above, which you are entitled to receive.

STATE OF WEST VIRGINIA
Purchasing Division**PURCHASING AFFIDAVIT****VENDOR OWING A DEBT TO THE STATE:**

West Virginia Code §5A-3-10a provides that: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

PUBLIC IMPROVEMENT CONTRACTS & DRUG-FREE WORKPLACE ACT:

If this is a solicitation for a public improvement construction contract, the vendor, by its signature below, affirms that it has a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the **West Virginia Code**. The vendor **must** make said affirmation with its bid submission. Further, public improvement construction contract may not be awarded to a vendor who does not have a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the **West Virginia Code** and who has not submitted that plan to the appropriate contracting authority in timely fashion. For a vendor who is a subcontractor, compliance with Section 5, Article 1D, Chapter 21 of the **West Virginia Code** may take place before their work on the public improvement is begun.

ANTITRUST:

In submitting a bid to any agency for the state of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the state of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the state of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the state of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership or person or entity submitting a bid for the same materials, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

LICENSING:

Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

CONFIDENTIALITY:

The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.

Under penalty of law for false swearing (**West Virginia Code** §61-5-3), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

Vendor's Name: PLAYGROUND SPECIALISTS INCAuthorized Signature: SE SelfDate: 6/2/09

Cass Scenic Railroad Playground Equipment

PRICING SHEET

Item No.	Quantity	Description	Unit Price	Amount
1	1	Depot Area Playground - PrimeTime custom modular unit or equal.	\$10990.85	10990.85
2	1	Depot Area Playground - one (1) GameTime owner's kit, Model #17849, or equal.	INCLUDED IN ASSEMBLY	
3	1	Whittaker Area Playground - PowerScape plus modular unit, or equal. Structure must be composed of the following components:	\$18098.00	\$18098.00
4	1	Whittaker Area Playground - one (1) PrimeTime 2 seat swing, Model #12583.	925.00	925.00
5	2	Whittaker Area Playground - Primetime swing add-a-bay, Model #12584, or equal.	572.00	1144.00
6	6	Whittaker Area Playground - PrimeTime 3 1/2" belt seat with galvanized chain, Model #8910, or equal.	51.00	306.00
7	1	Whittaker Area Playground - one (1) GameTime owner's kit, Model #17849, or equal.	INCLUDED w/STRUCTURE	
8	6,011 Square Feet	Depot Area Playground (2,396 Square Feet) and Whittaker Area Playground (3,615) - engineered wood fiber or equal @ 8" compacted depth.	63¢ SF	\$3786.93
9	3 Rolls	Depot Area Playground and Whittaker Area Playground geo-textile fabric, 2250 square foot roll, or equal.	12¢	\$810.00

Total \$36,060.70

Cass Scenic Railroad State Park

PLAYGROUND EQUIPMENT SHEET

Please complete the below information concerning the brand(s) of equipment being bid in relation to this project. If bidding inchor equal inch brands, please attach manufacturer's literature documenting that it meets the mandatory requirements stated in the specifications. Vendors should note the areas of the provided manufacturer's literature that adheres to the mandatory requirements outlined in the Request For Quotation.

Item No.	Equipment	Manufacturer	Model
1	Depot Area Playground - PrimeTime custom modular unit, or equal. The structure must include the following components:	PLAYWORLD SYSTEMS	P60809-1
	Depot Area Playground - Three (3) PrimeTime 3 ½" OD upright assembly, Model #12024, or equal.		
	Depot Area Playground - Seven (7) PrimeTime 3 ½" OD upright assembly, Model #12026, or equal.		
	Depot Area Playground - one (1) PrimeTime D ring package, Model #12049, or equal.		
	Depot Area Playground - four (4) PrimeTime 3 ½" OD upright assembly, Model # 12077.		
	Depot Area Playground - one (1) PrimeTime dna climber, Model #2113, or equal.		
	Depot Area Playground - one (1) PrimeTime crunch bar, Model #12215, or equal.		
	Depot Area Playground - one (1) PrimeTime straight horizontal loop ladder attachment, Model #12219, or equal.		

Cass Scenic Railroad State Park
PLAYGROUND EQUIPMENT SHEET

Item No.	Equipment	Manufacturer	Model
	Depot Area Playground - one (1) PrimeTime rung access, Model #12615, or equal.	PLAY WORLD SYSTEMS	P60809-1
	Depot Area Playground - one (1) PrimeTime therapeutic ring attachment, Model #12704, or equal.	↓	↓
	Depot Area Playground - one (1) PrimeTime single seat p/t, Model #12728, or equal.		
	Depot Area Playground - one (1) PrimeTime turning bar P/T, Model #12729, or equal.		
	Depot Area Playground - one (1) PrimeTime rock wall climber, Model #12913, or equal.		
	Depot Area Playground - two (2) square punched deck P/T 1.3125, Model #18200, or equal.		
	Depot Area Playground - one (1) PrimeTime rectangular punched deck p.t, Model #18202, or equal.		
	Depot Area Playground - one (1) transfer point, Model #18251, or equal.		
	Depot Area Playground - one (1) PrimeTime step link, Model #18259, or equal.		
	Depot Area Playground - one (1) PrimeTime 18273- 3' and 5' access attachment, Model #18273, or equal.		

Cass Scenic Railroad State Park
PLAYGROUND EQUIPMENT SHEET

Item No.	Equipment	Manufacturer	Model
	Depot Area Playground - one (1) PrimeTime suspension bridge, Model #18340, or equal.	PLAY WORLD SYSTEMS	P60809-1
	Depot Area Playground - one (1) PrimeTime cosmix climber, Model #18361, or equal.		
	Depot Area Playground - one (1) PrimeTime double zip slide, Model #18378, or equal.		
	Depot Area Playground - one (1) PrimeTime curved zip slide, Model #18387, or equal.		
	Depot Area Playground - one (1) PrimeTime shingle roof, Model #18671, or equal.		
	Depot Area Playground - one (1) PrimeTime 3 1/2"OD upright assembly, Model #G12026.		
	Depot Area Playground - one (1) PrimeTime train whistle, Model #81695, or equal.		
2	Depot Area Playground - one (1) GameTime owner's kit, Model #17849, or equal.		↓
3	Whittaker Area Playground - PowerScape plus modular unit, or equal. Structure must be composed of the following components:		P060809-2
	Whittaker Area Playground - Three (3) PowerScape punched steel deck, Model #80000, or equal.	↓	↓

Cass Scenic Railroad State Park
PLAYGROUND EQUIPMENT SHEET

Item No.	Equipment	Manufacturer	Model
	Whittaker Area Playground - four (4) PowerScape upright assembly, Model #80016, or equal.	PLAY WORLD SYSTEMS	P 60809-2
	Whittaker Area Playground - two (2) PowerScape upright assembly, Model #80017, or equal.		
	Whittaker Area Playground - Seven (7) PowerScape upright assembly, Model #80018, or equal.		
	Whittaker Area Playground - four (4) 80019- 12' upright assembly, aluminum.		
	Whittaker Area Playground - one (1) PowerScape perforated metal roof, Model #80104, or equal.		
	Whittaker Area Playground - one (1) PowerScape loop ladder, Model # 80311, or equal.		
	Whittaker Area Playground - one (1) PowerScape leaning wall climber, Model #80395, or equal.		
	Whittaker Area Playground - one (1) PowerScape transfer point, Model #80653, or equal.		
	Whittaker Area Playground - one (1) PowerScape Access attachment, Model #80656, or equal.		
	Whittaker Area Playground - one (1) PowerScape handheld/kick plate package, Model #80687, or equal.		

Cass Scenic Railroad State Park
PLAYGROUND EQUIPMENT SHEET

Item No.	Equipment	Manufacturer	Model
	Whittaker Area Playground - one (1) PowerScape stepped platform, Model # 80694, or equal.	PLAYWORLD SYSTEMS	P 60809-2
	Whittaker Area Playground - one (1) PowerScape tunnel-up crawl tube, Model # 80715, or		
	Whittaker Area Playground - one (1) PowerScape choo panel, Model #80936, or equal.		
	Whittaker Area Playground - two (2) PowerScape train cabin, Model # 80945, or equal.		
	Whittaker Area Playground - one (1) PowerScape funnel bridge, Model #81108, or		
	Whittaker Area Playground - one (1) PowerScape Giant wave climber link, Model #81143, or equal.		
	Whittaker Area Playground - one (1) PowerScape wildslide exit section, Model #81274, or equal.		
	Whittaker Area Playground - one (1) PowerScape wildslide 135 degree section, Model		
	Whittaker Area Playground - one (1) PowerScape wildslide entrance section, Model #81325, or equal.		
	Whittaker Area Playground - one (1) PowerScape double zipslide, Model #81344, or equal.		

Cass Scenic Railroad State Park
PLAYGROUND EQUIPMENT SHEET

Item No.	Equipment	Manufacturer	Model
	Whittaker Area Playground - one (1) PowerScape horizontal loop attachment, Model #81507, or equal.	PLAYWORLD SYSTEMS	P60809-2
	Whittaker Area Playground - one (1) PowerScape hand cyclor, Model #81669, or equal.		
	Whittaker Area Playground - one (1) PowerScape train locomotive, Model # 81686, or equal.		
	Whittaker Area Playground - one (1) PowerScape single steering wheel, Model #81691, or equal.		
	Whittaker Area Playground - one (1) PowerScape upright assembly, Model #G80018, or equal.		
	Whittaker Area Playground - one (1) PowerScape train whistle, Model #81695, or equal.		
4	Whittaker Area Playground - one (1) PrimeTime 2 seat swing, Model #12583.		# 0288
5	Whittaker Area Playground - two (2) 2 seat Primetime swing add-a-bay, Model #12584, or equal.		# 0375
6	Whittaker Area Playground - PrimeTime 3 1/2" belt seat with galvanized chain, Model #8910, or equal.		# 0260
7	Whittaker Area Playground - one (1) GameTime owner's kit, Model #17849, or equal.		

Cass Scenic Railroad State Park
PLAYGROUND EQUIPMENT SHEET

Item No.	Equipment	Manufacturer	Model
8	Depot Area Playground (2,396 Square Feet) and Whittaker Area Playground (3,615) - engineered wood fiber or equal @ 8" compacted depth.	ZIEGLER Brothers	WOOD CARPET
9	Depot Area Playground Whittaker Area Playground geo-textile fabric, 2,250 square foot roll, or equal.	↓	DL-6

Cass Scenic RR SP- Depot Area Playground

Design Number: P60809-1 - Compliance and Technical Data
Reference Document: ASTM F1487-07

Ref. No.	Part No.	Qty.	Description	Unit ASTM Status	Total Weight (lbs)	Pre-Consumer Recycled Content (lbs)	CO2e Footprint (kgs)	Users	Install Hours	Concrete (Yds3)	Active Play Events
1	ZZCH0009	1	3.5in OD x 112in STEEL POST W/RIVETED CAP	Certified	35.40		79	0	1.00	0.13	0
2	ZZCH0018	2	3.5in OD x 124in STEEL POST W/RIVETED CAP	Certified	77.82		174	0	2.00	0.25	0
3	ZZCH0028	5	3.5in OD x 136in STEEL POST W/ RIVETED CAP	Certified	217.55		474	0	5.00	0.63	0
4	ZZCH0038	4	3.5in OD x 148in STEEL POST W/ RIVETED CAP	Certified	188.44		411	0	4.00	0.50	0
5	ZZCH0058	4	3.5in OD x 172in STEEL POST W/RIVETED CAP	Certified	208.04		480	0	4.00	0.50	0
6	ZZCH0616	2	SQUARE COATED DECK ASSEMBLY	Certified	109.72		347	6	2.00	0.00	0
7	ZZCH0636	1	DOUBLE SLIDE COATED DECK ASSEMBLY	Certified	63.86		200	3	1.00	0.00	0
8	ZZCH2007	1	TRANSFER STATION w/TALL GUARDRAIL (36in DECK)	Certified	148.40		407	2	2.00	0.09	0
9	ZZUN2019	1	APPROACH STEP FOR TRANSFER STATION	Certified	35.83		98	1	1.00	0.04	0
10	ZZCH2737	1	RUMBLE SEAT (60in DECK)	Certified	201.86		871	4	3.00	0.06	1
11	ZZCH3129	1	90 DEGREE GLIDE SLIDE (36in DECK)	Certified	96.73		474	2	2.00	0.03	1
12	ZZCH4577	1	SINGLE POST SEAT	Certified	21.57		73	1	0.50	0.00	1
13	ZZCH4095	1	CENTERLINE PIPE WALL BARRIER	Certified	28.74		84	0	0.50	0.00	0
14	ZZCH6757	1	5ft GEO CLIMBER	Certified	120.46		572	2	2.00	0.09	1
15	ZZCH7956	1	SILLO CLIMBER (60in DECK)	Certified	62.81		191	1	1.50	0.06	1
16	ZZCH8160	1	SPIRAL CLIMBER (60in DECK)	Certified	92.33		295	2	1.00	0.03	1
17	ZZCH8457	1	THE CRATER ARCH	Certified	79.50		453	2	1.00	0.03	1
18	ZZCH5736	1	CHINNING - TURNING BAR	Certified	5.95		40	1	0.50	0.00	1
19	ZZCH5770	1	LEG LIFT	Certified	6.76		32	1	0.50	0.00	1
20	ZZCH5790	1	10ft HORIZONTAL LOOP LADDER	Certified	79.96		313	0	1.00		1
21	ZZCH5970	1	OVERHEAD EVENT ACCESS LADDER (36in DECK)	Certified	25.12		85	1	1.50	0.06	0
22	ZZCH6886	1	SHORTY SKY ROCKER	Certified	39.60		200	1	1.00	0.00	1
23	ZZCH6595	1	6ft ARCH BRIDGE	Certified	177.43		625	2	1.50	0.00	1



Cass Scenic RR SP- Depot Area Playground

Design Number: P60809-1 - Compliance and Technical Data
Reference Document: ASTM F1487-07

Ref. No.	Part No.	Qty.	Description	Unit ASTM Status	Total Weight (lbs)	Pre- Consumer Recycled Content (lbs)	Post- Consumer Footprint (kgs)	Users	Install Hours	Concrete (Yds3)	Active Play Events
24	ZZCH9826	1	CARNIVAL ROOF - SHINGLE PATTERN (SQUARE)	Certified	89.70		581	0	2.00	0.00	0
25	ZZCH9856	1	CARNIVAL ROOF SQUARE CAP	Certified	4.61		43	0	0.25	0.00	0
26	ZZCH9170	1	24in ACCESS STEPPED PLATFORM (DECK TO DECK)	Certified	135.24		464	1	2.00	0.00	0
27	ZZCHGUID	1	CHALLENGER GUIDELINES	N/A	0.00		0	0	0.25	0.00	0
28	ZZUN9910	1	SURFACING WARNING LABEL KIT	Certified	0.05		0	0	0.25	0.00	0
29	ZZUN9930	1	PIPE SYSTEMS MAINTENANCE KIT W/ AEROSOL	N/A	13.07		51	0	0.25	0.00	0
30	ZZUN9990	1	TOOL AND ADDITIONAL PARTS KIT W/AEROSOL	N/A	3.46		31	0	0.25	0.00	0
Totals:					2,370.01	85	566	33	44.75	2.49	12
					1,066.50 Kg	38 Kg	255 Kg	8 Metric Tons			
										1.89 m3	



Cass Scenic RR SP- Depot Area Playground

Design Number: P60809-1 - Compliance and Technical Data
Reference Document: ASTM F1487-07

Ref. No.	Part No.	Qty.	Description	Unit ASTM Status	Total Weight (lbs)	Pre- Consumer Recycled Content (lbs)	CO2e Footprint (kgs)	Users	Install Hours	Concrete (Yds3)	Active Play Events
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ASTM F1487-07

The lay-out for this custom playscape, design number P60809-1, has been configured to meet the requirements of the ASTM F1487-07 standard. In addition, each of the above components listed as "Certified" have been tested and are IPEMA certified. Components listed as "Not Applicable" do not fall within the scope of the ASTM F1487-07 standard and have not been tested. IPEMA certification can be verified on the IPEMA website, www.ipema.org. In the interest of playground safety, IPEMA provides a Third Party Certification Service which validates compliance.

Americans with Disabilities Act Accessibility Guidelines (ADAAG)

The lay-out was also designed to meet the ADAAG published 23-July-2004, by the United States Access Board who installed over a properly maintained surfacing material that is in compliance with ASTM F1951 "Accessibility of Surface Systems Under and Around Playground Equipment" as well as ASTM F1292, "Impact Attenuation of Surfacing Materials Within the Use Zone of Playground Equipment", appropriate for the fall height of the structure.

Installation Times

Installation times are based on one experienced installer. A crew of three experienced individuals can perform the installation within the given time, each member working 1/3 of the given hours. [Eg. Installation Time = 30 hours. For a crew of three, each member will work 10 hours on the installation for a total of 30 hours on the project.]

Carbon Footprint

The CO2e (carbon footprint given in Kilograms and Metric Tons) listed above is a measure of the environmental impact this play structure represents from harvesting raw materials to the time it leaves our shipping dock. Playworld Systems nurtures a total corporate culture that is focused on eliminating carbon producing processes and products, reducing our use of precious raw materials, reusing materials whenever possible and recycling materials at every opportunity. Playworld Systems elected to adopt the Publicly Available Specification; PAS 2050 as published by the British Standards Institute and sponsored by Defra and the Carbon Trust. The PAS 2050 has gained international acceptance as a specification that measures the greenhouse gas emissions in services and goods throughout their entire life cycle.

Pre-Consumer Recycle Content

A measurement, in pounds, that qualifies the amount of material that was captured as waste and diverted from landfill during an initial manufacturing process and is being redirected to a separate manufacturing process to become a different product. E.g. 100% of our Aluminum Tubing is made from captured waste material during the manufacturing process of extruded Aluminum products such as rods, flat bars and H-channels.

Post-Consumer Recycle Content

A measurement, in pounds, that qualifies the amount of material that was once another product that has completed its lifecycle and has been diverted from a landfill as a solid waste through recycling and is now being used in a Playworld Systems' product. E.g. **20% to 40% of the steel in our steel tubing and sheet steel have been diverted from landfills. Automobiles are scrapped and recyclable steel is purchased by the steel mill that produces our raw product.

** The amount of Post-Consumer recycled steel fluctuates daily based on the availability of the recycled steel.





Product Specifications

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3.5in OD x 112in STEEL POST W/RIVETED CAP

ZZCH0009

3.5 in. Support Post - 13 ga.

Shall be fabricated of 3.5 in. outside diameter, 13 gauge galvanized steel tubing. (See Tubing) Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

Crown/Post/End Cap

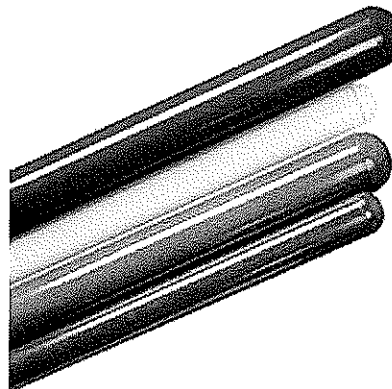
Shall be cast of high strength Almag 35 (535.0-F) aluminum alloy. Ultimate tensile strength shall be 40 ksi. Yield strength shall be 21 ksi. Each crown and post cap shall be fastened to the end of the tubing with drive rivets. Plastic post end caps and plastic rivets are unacceptable. Finished with a 420 micro finish and a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish) ASTM Specifications: B-26. Federal Specifications: QQ-A-601.

Drive Rivet

The rivet shall be fabricated of 2117 aluminum alloy. The pin shall be fabricated of 7075 aluminum alloy.

Steel Tubing - 3.5 in. OD, 13 ga.

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.



* See Note

Component Number:	ZZCH0009
Specification Rev:	ECN343
Component Weight:	35.40 Lbs.
Amount of Concrete:	0.13 Yds.
Pre-Consumer Recycle:	0.00 Lbs.
Post-Consumer Recycle:	10.62 Lbs.
CO2e Footprint:	78.92 Kgs.

* The photos shown are for product representation only. The actual products may vary in size and color depending upon application.



Product Specifications

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3.5in OD x 124in STEEL POST W/RIVETED CAP

ZZCH0018

3.5 in. Support Post - 13 ga.

Shall be fabricated of 3.5 in. outside diameter, 13 gauge galvanized steel tubing. (See Tubing) Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

Crown/Post/End Cap

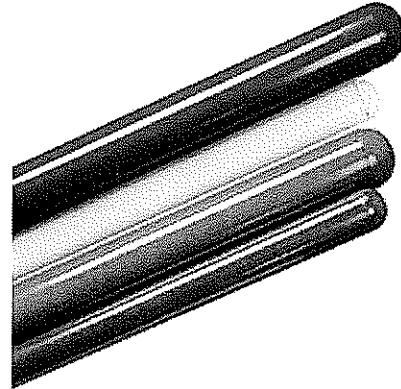
Shall be cast of high strength Almag 35 (535.0-F) aluminum alloy. Ultimate tensile strength shall be 40 ksi. Yield strength shall be 21 ksi. Each crown and post cap shall be fastened to the end of the tubing with drive rivets. Plastic post end caps and plastic rivets are unacceptable. Finished with a 420 micro finish and a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish) ASTM Specifications: B-26. Federal Specifications: QQ-A-601.

Drive Rivet

The rivet shall be fabricated of 2117 aluminum alloy. The pin shall be fabricated of 7075 aluminum alloy.

Steel Tubing - 3.5 in. OD, 13 ga.

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.



* See Note

Component Number:	ZZCH0018
Specification Rev:	ECN343
Component Weight:	38.91 Lbs.
Amount of Concrete:	0.13 Yds.
Pre-Consumer Recycle:	0.00 Lbs.
Post-Consumer Recycle:	11.67 Lbs.
CO2e Footprint:	86.86 Kgs.

* The photos shown are for product representation only. The actual products may vary in size and color depending upon application.



Product Specifications

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3.5in OD x 136in STEEL POST W/ RIVETED CAP

ZZCH0028

3.5 in. Support Post - 13 ga.

Shall be fabricated of 3.5 in. outside diameter, 13 gauge galvanized steel tubing. (See Tubing) Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

Crown/Post/End Cap

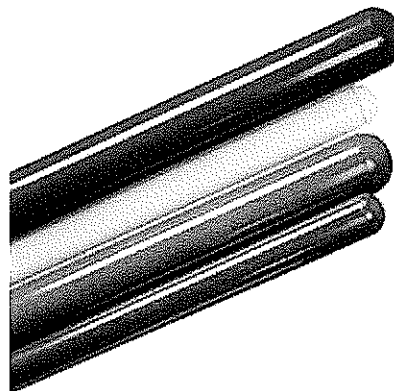
Shall be cast of high strength Almag 35 (535.0-F) aluminum alloy. Ultimate tensile strength shall be 40 ksi. Yield strength shall be 21 ksi. Each crown and post cap shall be fastened to the end of the tubing with drive rivets. Plastic post end caps and plastic rivets are unacceptable. Finished with a 420 micro finish and a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish) ASTM Specifications: B-26. Federal Specifications: QQ-A-601.

Drive Rivet

The rivet shall be fabricated of 2117 aluminum alloy. The pin shall be fabricated of 7075 aluminum alloy.

Steel Tubing - 3.5 in. OD, 13 ga.

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.



* See Note

Component Number:	ZZCH0028
Specification Rev:	ECN343
Component Weight:	43.51 Lbs.
Amount of Concrete:	0.13 Yds.
Pre-Consumer Recycle:	0.00 Lbs.
Post-Consumer Recycle:	13.05 Lbs.
CO2e Footprint:	94.85 Kgs.

* The photos shown are for product representation only. The actual products may vary in size and color depending upon application.



Product Specifications

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3.5in OD x 148in STEEL POST W/ RIVETED CAP

ZZCH0038

3.5 in. Support Post - 13 ga.

Shall be fabricated of 3.5 in. outside diameter, 13 gauge galvanized steel tubing. (See Tubing) Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

Crown/Post/End Cap

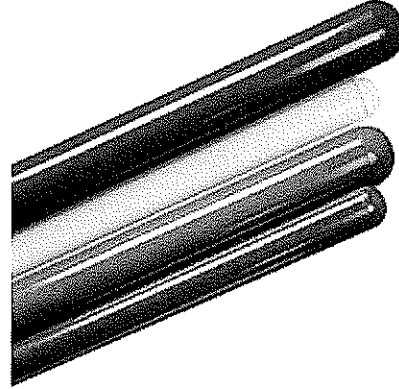
Shall be cast of high strength Almag 35 (535.0-F) aluminum alloy. Ultimate tensile strength shall be 40 ksi. Yield strength shall be 21 ksi. Each crown and post cap shall be fastened to the end of the tubing with drive rivets. Plastic post end caps and plastic rivets are unacceptable. Finished with a 420 micro finish and a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish) ASTM Specifications: B-26. Federal Specifications: QQ-A-601.

Drive Rivet

The rivet shall be fabricated of 2117 aluminum alloy. The pin shall be fabricated of 7075 aluminum alloy.

Steel Tubing - 3.5 in. OD, 13 ga.

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.



* See Note

Component Number:	ZZCH0038
Specification Rev:	ECN343
Component Weight:	47.11 Lbs.
Amount of Concrete:	0.13 Yds.
Pre-Consumer Recycle:	0.00 Lbs.
Post-Consumer Recycle:	14.13 Lbs.
CO2e Footprint:	102.79 Kgs.

* The photos shown are for product representation only. The actual products may vary in size and color depending upon application.



Product Specifications

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3.5in OD x 172in STEEL POST W/RIVETED CAP

ZZCH0058

3.5 in. Support Post - 13 ga.

Shall be fabricated of 3.5 in. outside diameter, 13 gauge galvanized steel tubing. (See Tubing) Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

Crown/Post/End Cap

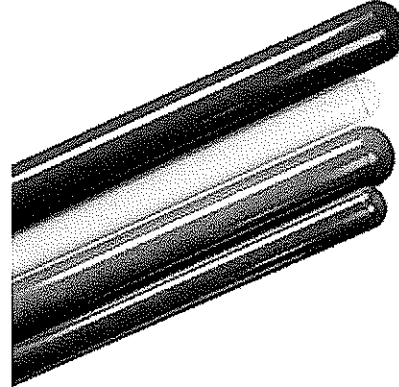
Shall be cast of high strength Almag 35 (535.0-F) aluminum alloy. Ultimate tensile strength shall be 40 ksi. Yield strength shall be 21 ksi. Each crown and post cap shall be fastened to the end of the tubing with drive rivets. Plastic post end caps and plastic rivets are unacceptable. Finished with a 420 micro finish and a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish) ASTM Specifications: B-26. Federal Specifications: QQ-A-601.

Drive Rivet

The rivet shall be fabricated of 2117 aluminum alloy. The pin shall be fabricated of 7075 aluminum alloy.

Steel Tubing - 3.5 in. OD, 13 ga.

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.



* See Note

Component Number:	ZZCH0058
Specification Rev:	ECN343
Component Weight:	52.01 Lbs.
Amount of Concrete:	0.13 Yds.
Pre-Consumer Recycle:	0.00 Lbs.
Post-Consumer Recycle:	15.60 Lbs.
CO2e Footprint:	120.06 Kgs.

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Product Specifications

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SQUARE COATED DECK ASSEMBLY

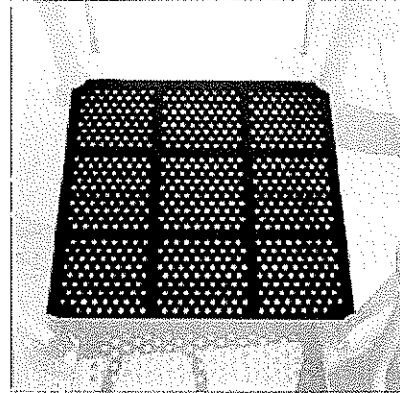
3.5 in. Die Cast Alloy Clamp

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

Coated Deck / Platform - 12 ga

Shall be an all welded assembly fabricated of 12 gauge hot rolled, pickled and oiled flat steel. Deck surface and sides shall be die formed from a single sheet of 12 gauge hot rolled, pickled and oiled flat steel. Deck surface shall have .34 in. (9mm) diameter perforated holes. Entire weldment shall have a protective coating. (See Coated Finish)

ZZCH0616



* See Note

Component Number:	ZZCH0616
Specification Rev:	PA696
Component Weight:	54.86 Lbs.
Number of Users:	3
Pre-Consumer Recycle:	4.97 Lbs.
Post-Consumer Recycle:	16.08 Lbs.
CO2e Footprint:	173.49 Kgs.

* The photos shown are for product representation only. The actual products may vary in size and color depending upon application.



Product Specifications

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DOUBLE SLIDE COATED DECK ASSEMBLY

Coated Deck / Platform - 12 ga

Shall be an all welded assembly fabricated of 12 gauge hot rolled, pickled and oiled flat steel. Deck surface and sides shall be die formed from a single sheet of 12 gauge hot rolled, pickled and oiled flat steel. Deck surface shall have .34 in. (9mm) diameter perforated holes. Entire weldment shall have a protective coating. (See Coated Finish)

3.5 in. Die Cast Alloy Clamp

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

ZZCH0636

**photo
not
available**

* See Note

Component Number:	ZZCH0636
Specification Rev:	PA718
Component Weight:	63.86 Lbs.
Number of Users:	3
Pre-Consumer Recycle:	6.05 Lbs.
Post-Consumer Recycle:	20.02 Lbs.
CO2e Footprint:	199.52 Kgs.

* The photos shown are for product representation only. The actual products may vary in size and color depending upon application.



Product Specifications

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TRANSFER STATION w/TALL GUARDRAIL (36in DECK)

Transfer Deck Support Post

Shall be fabricated of 2.375 in. outside diameter, 12 gauge galvanized steel tubing; and .188 in. hot rolled flat steel. (See Tubing.) Finished with a baked on polyester powder coating. (See Superdurable Powder Coat Finish)

3.5 in. Die Cast Alloy Clamp

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

Accessible Stair Guardrail

Shall be an all welded assembly fabricated of 1.029 in. outside diameter, 14 gauge galvanized steel tubing and 1.315 in. outside diameter, 14 gauge galvanized steel tubing. (See Tubing.) Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish) All tube to tube weld connections shall be coped before welding to provide a clean look and the strongest joint possible. Flattened or partially flattened tubing weld connections are not acceptable.

Grabbar

Shall be an all welded assembly fabricated of 2.375 in. outside diameter, 12 gauge galvanized steel tubing; 1.029 in. outside diameter, 14 gauge galvanized steel tubing; and .188 in. zinc plated, hot rolled, pickled and oiled flat steel. (See Tubing) Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

Coated Transfer Deck - sm holes

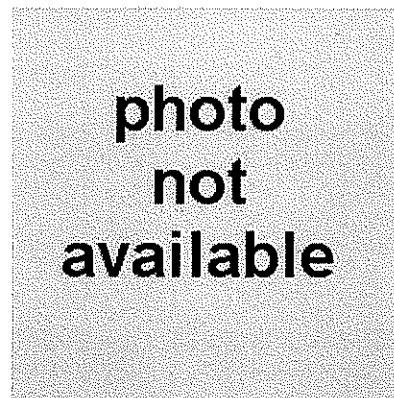
Shall be an all welded assembly die formed from a single sheet of 12 gauge hot rolled, pickled and oiled flat steel. Deck surface shall have .344 in. diameter perforated holes. Entire deck weldment shall have a protective coating. (See Coated Finish)

Coated Transfer Stair - sm holes

Shall be an all welded assembly fabricated of 14 gauge hot rolled, pickled and oiled flat steel for the step treads, and 11 gauge hot rolled, pickled and oiled flat steel for the stringers. Step surfaces shall have .34 in. diameter perforated holes. Entire stair weldment shall have a protective coating. (See Coated Finish)

Steel Tubing - 1.029 in. OD, 14 ga.

ZZCH2007



* See Note

Component Number:	ZZCH2007
Specification Rev:	PA1012
Component Weight:	148.40 Lbs.
Number of Users:	2
Amount of Concrete:	0.09 Yds.
Pre-Consumer Recycle:	6.65 Lbs.
Post-Consumer Recycle:	43.12 Lbs.
CO2e Footprint:	406.51 Kgs.

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

Steel Tubing - 1.315 in. OD, 14 ga.

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.

Steel Tubing - 2.375 in. OD, 12 ga.

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.

* The photos shown are for product representation only. The actual products may vary in size and color depending upon application.



Product Specifications

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APPROACH STEP FOR TRANSFER STATION

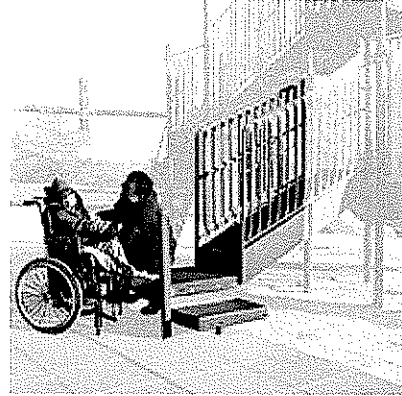
2.375 in. Support Post with Plate

Shall be fabricated of 2.375 in. outside diameter, 12 gauge galvanized steel tubing; and .125 in. zinc plated, hot rolled flat steel. (See Tubing) Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

Approach Step

Approach step shall be an all-welded assembly fabricated of 11 gauge and 14 gauge hot rolled, pickled and oiled flat steel. Approach step surface and sides shall be die-formed from a single sheet of 12 gauge hot rolled, pickled and oiled flat steel. Approach step surface shall have .344 in. (8 mm) diameter perforated holes. Entire deck weldment shall have a protective coating. (See Coated Finish)

ZZUN2019



* See Note

Component Number:	ZZUN2019
Specification Rev:	PA769
Component Weight:	35.83 Lbs.
Number of Users:	1
Amount of Concrete:	0.04 Yds.
Pre-Consumer Recycle:	1.72 Lbs.
Post-Consumer Recycle:	9.61 Lbs.
CO2e Footprint:	97.62 Kgs.

* The photos shown are for product representation only. The actual products may vary in size and color depending upon application.



Product Specifications

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RUMBLE SEAT (60in DECK)

3.5 in. Die Cast Alloy Clamp

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

Rail 14 ga. w/ inserts

Shall be fabricated of 1.315 in. outside diameter, 14 gauge galvanized steel tubing (See Tubing). Shall have factory installed crimped threaded inserts at each end. Finished with a baked on polyester powder coating. (See SuperDurable Polyester Powder Coat Finish)

Exit Support Post - 3.5 in.

Shall be an all welded assembly fabricated of 3.5 in. outside diameter, 13 gauge galvanized steel tubing and 11 gauge zinc plated hot rolled flat steel. (See Tubing) Finished with a baked on polyester powder coating. (See SuperDurable Polyester Powder Coat Finish) ASTM Specifications: A-36,

Rotomolded Slide / Canopy

Shall be rotationally molded from linear low density polyethylene. (See Rotationally Molded Plastic Parts) Dry-blended or molded-in color resins are not acceptable.

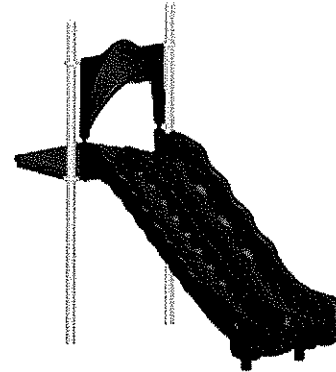
Steel Tubing - 1.315 in. OD, 14 ga.

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.

Steel Tubing - 3.5 in. OD, 13 ga.

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

ZZCH2737



* See Note

Component Number:	ZZCH2737
Specification Rev:	PA0950
Component Weight:	201.86 Lbs.
Number of Users:	4
Amount of Concrete:	0.06 Yds.
Pre-Consumer Recycle:	0.60 Lbs.
Post-Consumer Recycle:	8.65 Lbs.
CO2e Footprint:	871.25 Kgs.

* The photos shown are for product representation only. The actual products may vary in size and color depending upon application.



Product Specifications

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90 DEGREE GLIDE SLIDE (36in DECK)

3.5 in. Die Cast Alloy Clamp

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

Tie Rod - 14 g. w/ inserts

Shall be fabricated of 1.315 in. outside diameter, 14 gauge galvanized steel tubing (See Tubing). Shall have factory installed crimped threaded inserts at each end. Finished with a baked on polyester powder coating. (See SuperDurable Polyester Powder Coat Finish)

Exit Support Post - 3.5 in. w/plate

Shall be an all welded assembly fabricated of 3.5 in. outside diameter, 13 gauge galvanized steel tubing; .25 in. hot rolled flat steel and 11 gauge zinc plated steel. (See Tubing) Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

Glide Slide Canopy

Shall be rotationally molded from Exxon CP-812 polyethylene. (See Rotationally Molded Plastic Parts) Dry-blended or molded-in color resins are not acceptable. Shall have molded in threaded inserts, and 1.315 in. outside diameter, 14 gauge galvanized steel tubing color matched to the plastic. Tubing shall be finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

Glide Slide

Shall be rotationally molded from Exxon CP-812 polyethylene. (See Rotationally Molded Plastic Parts) Dry-blended or molded-in color resins are not acceptable.

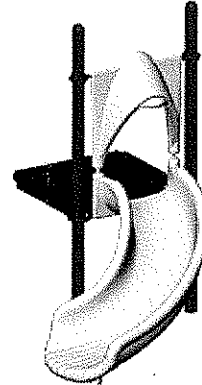
Steel Tubing - 1.315 in. OD, 14 ga.

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.

Steel Tubing - 3.5 in. OD, 13 ga.

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

ZZCH3129



* See Note

Component Number:	ZZCH3129
Specification Rev:	ECN1508
Component Weight:	96.73 Lbs.
Number of Users:	2
Amount of Concrete:	0.03 Yds.
Pre-Consumer Recycle:	0.60 Lbs.
Post-Consumer Recycle:	5.55 Lbs.
CO2e Footprint:	474.29 Kgs.

* The photos shown are for product representation only. The actual products may vary in size and color depending upon application.



Product Specifications

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SINGLE POST SEAT

3.5 in. Cast Almag Clamp

Shall be cast of high strength Almag 35 (535.0-F) aluminum alloy. (See Cast Almag Clamps) Finished with a 420 micro finish and a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish) Clamps shall be provided as hinged assemblies to facilitate structure assembly.

Frame - Single Post Seat

Shall be an all welded assembly fabricated of 3.5 in. outside diameter, 8 gauge galvanized tubing; 2.875 in. outside diameter, .25 in yellow zinc plated hot rolled, pickled and oiled flat steel. (See Tubing) Finished with a baked on polyester powder coating. (See Polyester Powder Coat Finish)

Coated Hex Stool Seat

Shall be an all-welded assembly fabricated from 14 gauge hot rolled, pickled and oiled flat steel and 4.0 in outside diameter, 11 gauge hot rolled pickled and oiled flat steel. Seat weldment shall have a protective coating. (See Coated Finish)

Steel Tubing - 3.5 in. OD, 8 ga.

Tensile strength shall be 48,000 psi. Yield strength shall be 45,000 psi.

ZZCH4577



* See Note

Component Number:	ZZCH4577
Specification Rev:	PA1148
Component Weight:	21.57 Lbs.
Number of Users:	1
Pre-Consumer Recycle:	1.00 Lbs.
Post-Consumer Recycle:	6.21 Lbs.
CO2e Footprint:	72.86 Kgs.

* The photos shown are for product representation only. The actual products may vary in size and color depending upon application.



Product Specifications

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CENTERLINE PIPE WALL BARRIER

3.5 in. Die Cast Alloy Clamp

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

Pipe Wall Barrier - CH/EX sm.rung

Shall be an all-welded assembly fabricated of 3/16 in. hot rolled, pickled and oiled flat steel; 1.029 in. outside diameter, 14 gauge galvanized steel tubing and .815 in. outside diameter, 15 gauge galvanized steel tubing. (See Tubing). Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

Steel Tubing - .815 in. OD, 15 ga.

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

Steel Tubing - 1.029 in. OD, 14 ga.

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

ZZCH4095



* See Note

Component Number:	ZZCH4095
Specification Rev:	PA835
Component Weight:	28.74 Lbs.
Pre-Consumer Recycle:	0.60 Lbs.
Post-Consumer Recycle:	9.22 Lbs.
CO2e Footprint:	84.24 Kgs.

* The photos shown are for product representation only. The actual products may vary in size and color depending upon application.



Product Specifications

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5ft GEO CLIMBER

3.5 in. Cast Clamp Band

Shall be cast of high strength Almag 35 (535.0-F) aluminum alloy. Finished with a 420 micro finish and a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish).

Barrier Gate - Upper (PM w/o tabs)

Shall be fabricated of 1.315 in. outside diameter, 14 gauge galvanized steel tubing; 1.029 in. Outside diameter, 14 gauge galvanized steel tubing; and .25 in. hot rolled, pickled and oiled flat steel. (See Tubing) All tube to tube weld connections shall be coped before welding to provide a clean look and the strongest joint possible. Flattened or partially flattened tube weld connections are not acceptable. Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

Frame - Footing

Shall be and all welded assembly of 1.9 in. outside diameter, 13 gauge galvanized steel tubing and 0.25 in hot rolled, pickled and oiled flat steel. (See Tubing). Finished with a baked on polyester powder coating. (See SuperDurable Polyester Powder Coat Finish)

Rotomolded Climber Step

Shall be rotationally molded from linear low density polyethylene. (See Rotationally Molded Plastic Parts) Dry-blended or molded-in color resins are not acceptable.

Steel Tubing - 1.029 in. OD, 14 ga.

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

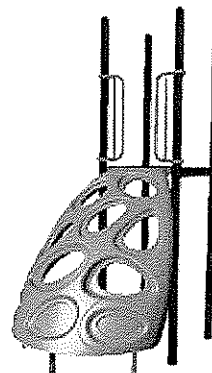
Steel Tubing - 1.315 in. OD, 14 ga.

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.

Steel Tubing - 1.9 in. OD, 13 ga.

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.

ZZCH6757



* See Note

Component Number:	ZZCH6757
Specification Rev:	PA1200
Component Weight:	120.46 Lbs.
Number of Users:	2
Amount of Concrete:	0.09 Yds.
Pre-Consumer Recycle:	1.60 Lbs.
Post-Consumer Recycle:	11.16 Lbs.
CO2e Footprint:	571.90 Kgs.

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Product Specifications

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SILO CLIMBER (60in DECK)

Connector - reg 319 aluminum

Cast of regular 319 (319.0-F) aluminum. Ultimate tensile strength shall be 27 ksi. Yield strength shall be 18 ksi. Finished with a 420 micro finish and a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish) ASTM Specifications: B-26. Federal Specifications: QQ-A-601.

3.5 in. Die Cast Alloy Clamp

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

Silo Climber (Using connector)

Shall be fabricated of 1.315 in. outside diameter, 14 gauge galvanized steel tubing; 1.029 in. outside diameter, 14 gauge galvanized steel tubing; 11 gauge hot rolled flat steel. (See Tubing) Finished with a baked on polyester powder coating. (See SuperDurable Polyester Powder Coat Finish) ASTM Specifications: A-135, A-500 and E-8.

Barrier Gate - Round Tube - (7 Ga and 11 Ga)

Shall be fabricated of 1.315 in. outside diameter, 14 gauge galvanized steel tubing, 11 gauge hot rolled steel, and 7 gauge hot rolled, pickled and oiled flat steel. (See Tubing) All tube to tube weld connections shall be coped before welding to provide a clean look and the strongest joint possible. Flattened or partially flattened tube weld connections are not acceptable. Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

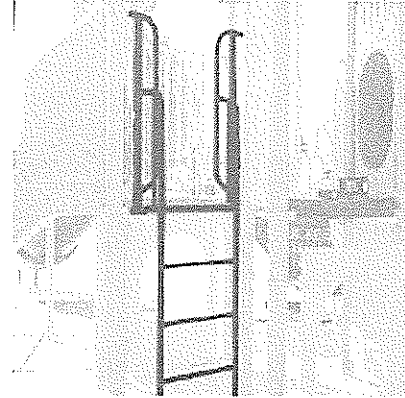
Steel Tubing - 1.029 in. OD, 14 ga.

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

Steel Tubing - 1.315 in. OD, 14 ga.

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.

ZZCH7956



* See Note

Component Number:	ZZCH7956
Specification Rev:	ECN1641
Component Weight:	62.81 Lbs.
Number of Users:	1
Amount of Concrete:	0.06 Yds.
Pre-Consumer Recycle:	1.04 Lbs.
Post-Consumer Recycle:	24.19 Lbs.
CO2e Footprint:	190.92 Kgs.

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Product Specifications

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SPIRAL CLIMBER (60in DECK)

Spiral Climber - 14 gauge plate

Shall be an all welded assembly fabricated of 1.9 in. Outside diameter, 13 gauge galvanized steel tubing; and 1.315 in. Outside diameter, 14 gauge galvanized steel tubing (See Tubing), and a 14 gauge galvanized steel plate. Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

Arch Entry Barrier / Pipe Wall Barrier

Shall be an all-welded assembly fabricated of 1.315 in. outside diameter, 14 gauge galvanized steel tubing; 1.029 in. outside diameter, 14 gauge galvanized steel tubing and .188 in. hot rolled, pickled and oiled flat steel. Shall be finished with a baked-on polyester powder coat. (See Superdurable Polyester Powder Coat Finish)

Climber Connector

Shall be cast of high strength Almag 35 (535.0-F) aluminum alloy. (See Cast Almag Clamps) Finished with a 420 micro finish and a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

3.5 in. Die Cast Alloy Clamp

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

Steel Tubing - 1.029 in. OD, 14 ga.

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

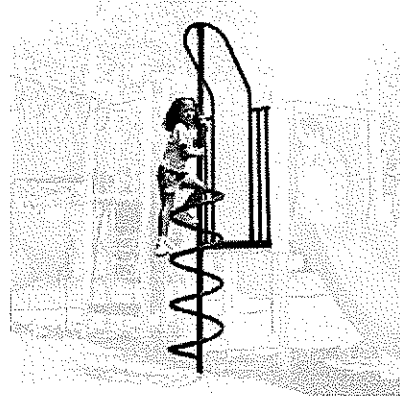
Steel Tubing - 1.315 in. OD, 14 ga.

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.

Steel Tubing - 1.9 in. OD, 13 ga.

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.

ZZCH8160



* See Note

Component Number:	ZZCH8160
Specification Rev:	ECN1607
Component Weight:	92.33 Lbs.
Number of Users:	2
Amount of Concrete:	0.03 Yds.
Pre-Consumer Recycle:	1.05 Lbs.
Post-Consumer Recycle:	15.99 Lbs.
CO2e Footprint:	295.22 Kgs.

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Product Specifications

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THE CRATER ARCH

3.5 in. (Wide) Aluminum Clamp Band (w/ Cbl. Con.)

Shall be cast of high strength Almag 35 (535.0-F) aluminum alloy. (See Cast Almag Clamps) Finished with a 420 micro finish and a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

Frame - Crater Arch

Shall be an all welded assembly fabricated from 1.315 in. outside diameter, 12 gauge galvanized steel tubing; .25 in. hot rolled pickled and oiled flat steel; and 8 gauge galvanized sheet steel. (See Tubing) Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

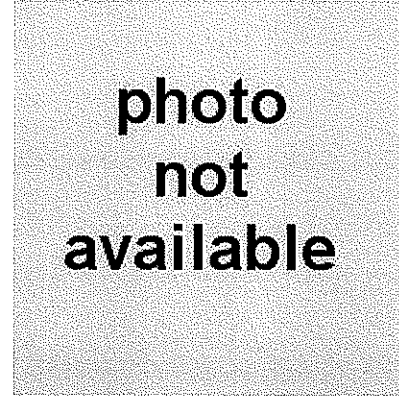
Plastic Panel - .75 in.

Shall be fabricated from colored marine grade, .75 in. high density polyethylene and machined. Shall be ultraviolet (UV) stabilized. Meets FDA requirements. ASTM Specifications: D-1238 (Melt Index), D-1505 (Material Density), D-638 (Tensile Strength), D-648 (Heat Distortion Temperature) D-790 (Flexural Modulus), D-1693 and D-2561 (Environmental Stress Crack Resistance), D-2240 (Hardness), D-1822 (Tensile Impact) D-746 (Brittleness), D-1525 (Softening Point).

Steel Tubing - 1.315 in. OD, 12 ga.

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.

ZZCH8457



* See Note

Component Number:	ZZCH8457
Specification Rev:	PA1177
Component Weight:	79.50 Lbs.
Number of Users:	2
Amount of Concrete:	0.03 Yds.
Pre-Consumer Recycle:	12.53 Lbs.
Post-Consumer Recycle:	12.33 Lbs.
CO2e Footprint:	452.76 Kgs.

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Product Specifications

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CHINNING - TURNING BAR

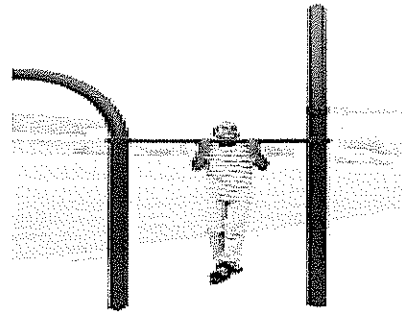
3.5 in. Cast Clamp Band

Shall be cast of high strength Almag 35 (535.0-F) aluminum alloy. Finished with a 420 micro finish and a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish).

Chinning / Turning Bar w/ 3.5 in. Clamp Band

Shall be an all welded assembly fabricated of 1.029 in. outside diameter, 14 gauge galvanized steel tubing and .25 inch thick hot rolled flat steel. Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

ZZCH5736



* See Note

Component Number:	ZZCH5736
Specification Rev:	ECN817
Component Weight:	5.95 Lbs.
Number of Users:	1
Pre-Consumer Recycle:	0.80 Lbs.
Post-Consumer Recycle:	2.13 Lbs.
CO2e Footprint:	39.63 Kgs.

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Product Specifications

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LEG LIFT

Leg Lift Handle

Shall be an all welded assembly of 1.029 in. outside diameter, 14 gauge galvanized steel tubing; and .25 in. zinc plated, hot rolled flat steel. (See Tubing) Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

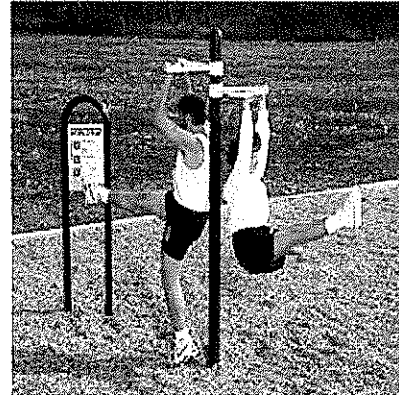
3.5 in. Cast Clamp Band

Shall be cast of high strength Almag 35 (535.0-F) aluminum alloy. Finished with a 420 micro finish and a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish).

Steel Tubing - 1.029 in. OD, 14 ga.

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

ZZCH5770



* See Note

Component Number:	ZZCH5770
Specification Rev:	ECN886
Component Weight:	6.76 Lbs.
Number of Users:	1
Pre-Consumer Recycle:	0.51 Lbs.
Post-Consumer Recycle:	2.23 Lbs.
CO2e Footprint:	32.22 Kgs.

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Product Specifications

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10ft HORIZONTAL LOOP LADDER

Support Rod w/ swaged end

Shall be fabricated of 1.315 in. outside diameter, 12 gauge galvanized steel tubing. Rod ends shall be reduced to 1.029 in. outside diameter with a swaging machine. (See Tubing) Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

3.5 in. Die Cast Alloy Clamp

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

T Connector Clamp

Shall be cast of high strength Almag 35 (535.0-F) aluminum alloy. (See Cast Almag Clamps) Finished with a 420 micro finish and a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

Steel Tubing - 1.315 in. OD, 12 ga.

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.

10ft HORIZONTAL LOOP LADDER

3.5 in. Die Cast Alloy Clamp

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

T Connector Clamp

Shall be cast of high strength Almag 35 (535.0-F) aluminum alloy. (See Cast Almag Clamps) Finished with a 420 micro finish and a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

Support Rod (14 Ga.)

ZZCH5790



* See Note

Component Number:	ZZCH5790
Specification Rev:	ECN520
Component Weight:	94.69 Lbs.
Number of Users:	2
Amount of Concrete:	0.07 Yds.
Pre-Consumer Recycle:	2.70 Lbs.
Post-Consumer Recycle:	24.31 Lbs.
CO2e Footprint:	312.64 Kgs.

ZZCH5790



* See Note

Component Number:	ZZCH5790
Specification Rev:	ECN1452
Component Weight:	79.96 Lbs.
Pre-Consumer Recycle:	2.70 Lbs.

Shall be fabricated of 1.315 in. outside diameter, 14 gauge galvanized steel tubing with a threaded insert. (See Tubing). Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

Post-Consumer Recycle: 24.31 Lbs.
CO2e Footprint: 312.64 Kgs.

Loop Ladder

Shall be an all welded assembly fabricated of 1.029 in. outside diameter, 14 gauge galvanized steel tubing; and 3.5 in. outside diameter, 13 gauge galvanized steel tubing. (See Tubing) Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

Steel Tubing - 1.029 in. OD, 14 ga.

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

Steel Tubing - 1.315 in. OD, 14 ga.

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.

Steel Tubing - 3.5 in. OD, 13 ga.

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

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Product Specifications

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OVERHEAD EVENT ACCESS LADDER (36in DECK)

3.5 in. Die Cast Alloy Clamp

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

Access Ladder

Shall be an all-welded assembly fabricated of 1.315 in. outside diameter, 14 gauge galvanized steel tubing; and 1.029 in. outside diameter, 14 gauge galvanized steel tubing. (See Tubing) Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

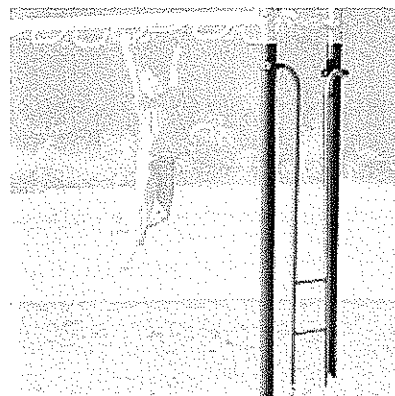
Steel Tubing - 1.029 in. OD, 14 ga.

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

Steel Tubing - 1.315 in. OD, 14 ga.

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.

ZZCH5970



* See Note

Component Number:	ZZCH5970
Specification Rev:	ECN605
Component Weight:	25.12 Lbs.
Number of Users:	1
Amount of Concrete:	0.06 Yds.
Pre-Consumer Recycle:	0.60 Lbs.
Post-Consumer Recycle:	8.17 Lbs.
CO2e Footprint:	85.20 Kgs.

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Product Specifications

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SHORTY SKY ROCKER

3.5 in. (Wide) Aluminum Clamp Band (w/ Cbl. Con.)

Shall be cast of high strength Almag 35 (535.0-F) aluminum alloy. (See Cast Almag Clamps) Finished with a 420 micro finish and a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

Sky Rocker

Shall be an all welded assembly fabricated of 2 in. x 2 in. x 7 gauge galvanized steel square tubing, 2.375 in. O.D. x 10 gauge galvanized steel tubing, .188 in. hot rolled flat steel and 1.315 in. O.D. x 14 gauge galvanized tubing. (See Tubing) Tubing shall have a zinc-rich paint interior coating. Minimum tensile strength shall be 48,000 psi. Minimum yield strength shall be 45,000 psi. ASTM Specifications: A-315, A-500, and A-513. Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

Torsion Housing - CH

Shall be an all welded assembly fabricated of .25 in. hot rolled flat steel and 3 in. x 3 in. square tubing x 11 gauge square galvanized steel tubing. Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

Urethane Rod

Shall be fabricated of 0.8 in. outside diameter black urethane.

Steel Tubing - 1.315 in. OD, 14 ga.

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.

Steel Tubing - 2 in. x 2 in., 7 ga.

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

Steel Tubing - 2.375 in. OD, 10 ga.

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.

ZZCH6886



* See Note

Component Number:	ZZCH6886
Specification Rev:	PA815
Component Weight:	39.60 Lbs.
Number of Users:	1
Pre-Consumer Recycle:	1.46 Lbs.
Post-Consumer Recycle:	11.45 Lbs.
CO2e Footprint:	200.10 Kgs.

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Product Specifications

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6ft ARCH BRIDGE

3.5 in. Die Cast Alloy Clamp

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

Arch Bridge Barrier w/ .815 in. OD. Rungs

An all-welded assembly fabricated of 1.029 in. outside diameter, 14 gauge galvanized steel tubing and .815 in. outside diameter, 15 gauge galvanized steel tubing. Tubing shall have a zinc-rich paint interior coating. ASTM Specifications: A-315, A-500, and A-513. Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

Coated Arch Bridge - sm holes

Shall be an all welded assembly die formed from a single sheet of 14 gauge hot rolled, pickled and oiled flat steel. Platform surface shall have .34 in. (9 mm) diameter perforated holes. Entire weldment shall have a protective coating. (See Coated Finish)

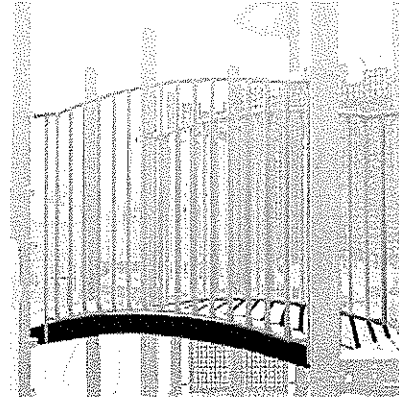
Steel Tubing - 1.029 in. OD, 14 ga.

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

Steel Tubing - .815 in. OD, 15 ga.

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

ZZCH6595



* See Note

Component Number:	ZZCH6595
Specification Rev:	PA840
Component Weight:	177.43 Lbs.
Number of Users:	2
Pre-Consumer Recycle:	6.38 Lbs.
Post-Consumer Recycle:	49.24 Lbs.
CO2e Footprint:	624.98 Kgs.

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Product Specifications

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CARNIVAL ROOF - SHINGLE PATTERN (SQUARE)

ZZCH9826

3.5 in. Die Cast Alloy Clamp

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

Bracket - 14 ga.

Shall be fabricated 14 gauge galvanized hot rolled flat steel. Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

Frame - Roof

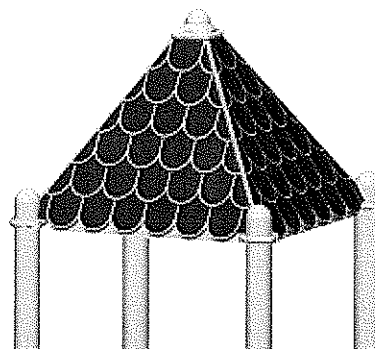
Shall be an all welded assembly fabricated from 10 gauge hot rolled flat steel and 14 gauge hot rolled flat steel. Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

Frame - End

Shall be fabricated from 14 gauge hot rolled flat steel. Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

Plastic Panel - .75 in.

Shall be fabricated from colored marine grade, .75 in. high density polyethylene and machined. Shall be ultraviolet (UV) stabilized. Meets FDA requirements. ASTM Specifications: D-1238 (Melt Index), D-1505 (Material Density), D-638 (Tensile Strength), D-648 (Heat Distortion Temperature) D-790 (Flexural Modulus), D-1693 and D-2561 (Environmental Stress Crack Resistance), D-2240 (Hardness), D-1822 (Tensile Impact) D-746 (Brittleness), D-1525 (Softening Point).



* See Note

Component Number:	ZZCH9826
Specification Rev:	PA0994
Component Weight:	89.70 Lbs.
Pre-Consumer Recycle:	19.88 Lbs.
Post-Consumer Recycle:	8.71 Lbs.
CO2e Footprint:	580.62 Kgs.

* The photos shown are for product representation only. The actual products may vary in size and color depending upon application.



Product Specifications

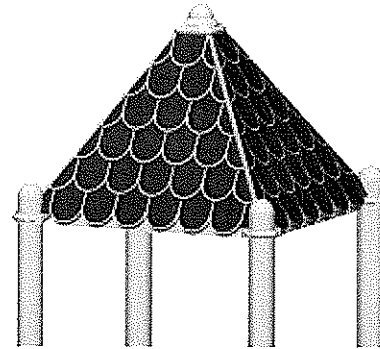
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CARNIVAL ROOF SQUARE CAP

Casting - Roof Cap

Cast of regular 319 (319.0-F) aluminum. Ultimate tensile strength shall be 27 ksi. Yield strength shall be 18 ksi. Finished with a 420 micro finish and a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish) ASTM Specifications: B-26. Federal Specifications: QQ-A-601.

ZZCH9856



* See Note

Component Number:	ZZCH9856
Specification Rev:	PA0994
Component Weight:	4.61 Lbs.
Pre-Consumer Recycle:	1.84 Lbs.
Post-Consumer Recycle:	2.30 Lbs.
CO2e Footprint:	42.77 Kgs.

* The photos shown are for product representation only. The actual products may vary in size and color depending upon application.



Product Specifications

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24in ACCESS STEPPED PLATFORM (DECK TO DECK) ZZCH9170

3.5 in. Die Cast Alloy Clamp

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

Barrier CH/EX Protective -sm rung

Shall be an all-welded assembly fabricated of .815 in. outside diameter, 15 gauge galvanized steel tubing; and 1.029 in. outside diameter, 14 gauge galvanized steel tubing. Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

Coated Perf. Stair / Accessible Stair

Shall be an all welded assembly fabricated of 14 gauge hot rolled, pickled, and oiled flat steel and 11 gauge hot rolled, pickled and oiled flat steel. Stair surface shall have .34 in. (9 mm) perforated holes. Entire stair assembly shall have a protective coating. (See Coated Finish)

Angle Clip / Plank

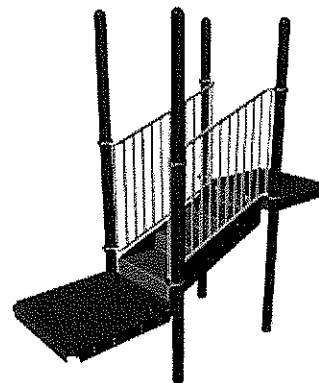
Shall be fabricated of 12 gauge hot rolled, pickled, and oiled flat steel. Angle clip / plank shall have a protective coating. (See Coated Finish)

Steel Tubing - .815 in. OD, 15 ga.

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

Steel Tubing - 1.029 in. OD, 14 ga.

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.



* See Note

Component Number:	ZZCH9170
Specification Rev:	ECN1573
Component Weight:	135.24 Lbs.
Number of Users:	1
Pre-Consumer Recycle:	7.59 Lbs.
Post-Consumer Recycle:	41.09 Lbs.
CO2e Footprint:	464.00 Kgs.

* The photos shown are for product representation only. The actual products may vary in size and color depending upon application.

Cass Scenic RR SP- Whittaker Area Playground

Design Number: P60809-2 - Compliance and Technical Data

Reference Document: ASTM F1487-07

Ref. No.	Part No.	Qty.	Description	Unit Status	Total Weight (lbs)	Pre-Consumer Recycled Content (lbs)	CO2e Footprint (kgs)	Users	Install Hours	Concrete (Yds3)	Active Play Events
1	ZZXX0260	6	BELT SEAT W/SILVER SHIELD CHAIN FOR 8ft TOP RAIL	Certified	50.22		422	6	1.50	0.00	6
2	ZZXX0288	1	3-1/2in OD 2-UNIT STEEL ARCH SWING W-8ft TOP RAIL	Certified	293.51		846	0	3.00	0.52	0
3	ZZXX0375	2	3-1/2in OD STEEL ARCH SWING 2-UNIT ADD-A-BAY	Certified	358.22		1,079	0	4.00	1.04	0
4	ZZPM0026	7	5in OD X 132in STEEL POST W/ RIVETED CAP	Certified	519.47		1,208	0	7.00	0.84	0
5	ZZPM0036	9	5in OD X 144in STEEL POST W/ RIVETED CAP	Certified	728.19		1,687	0	9.00	1.17	0
6	ZZPM0046	4	5in OD X 156in STEEL POST W/ RIVETED CAP	Certified	350.84		809	0	4.00	0.52	0
7	ZZPM0616	4	SQUARE COATED DECK ASSEMBLY	Certified	361.44		950	16	4.00	0.00	0
8	ZZPM0639	2	45 DEGREE TRI DECK	Certified	115.80		444	6	2.00	0.00	0
9	ZZPM2530	1	12in DECK TO DECK KICK PLATE	Certified	11.95		29	0	0.25	0.00	0
10	ZZPM2537	1	12in 45 DEGREE TRI DECK KICK PLATE	Certified	15.49		40	0	0.25	0.00	0
11	ZZPM2007	1	TRANSFER STATION w/TALL GUARDRAIL (36in DECK)	Certified	155.24		428	2	2.00	0.09	0
12	ZZUN2019	1	APPROACH STEP FOR TRANSFER STATION	Certified	35.83		98	1	1.00	0.04	0
13	ZZPM2727	1	TWIST AND SHOUT (48in DECK)	Certified	185.20		756	4	3.00	0.06	1
14	ZZPM2737	1	RUMBLE SEAT (60in DECK)	Certified	203.20		876	4	3.00	0.06	1
15	ZZPM3136	1	SLITHER SLIDE ENTRY/EXIT	Certified	101.22		525	2	2.00	0.03	1
16	ZZUN3147	1	SLITHER SLIDE (LEFT 120 DEGREE SECTION)	Certified	40.72		261	0	0.25	0.00	0
17	ZZUN3156	1	SLITHER SLIDE (STRAIGHT - SECTION)	Certified	21.14		159	0	0.25	0.00	0
18	ZZUN3176	1	SLITHER SLIDE SUPPORT LEG 2ft-6in	Certified	16.24		80	0	0.25	0.03	0
19	ZZPM4290	1	STEERING WHEEL (POST MOUNT)	Certified	8.67		61	1	0.25	0.00	1
20	ZZPM4406	1	ACCESSIBLE DRIVING PANEL	Certified	31.59		223	1	0.50	0.00	1
21	ZZPM4537	1	SPIN RACER PANEL (DECK LEVEL)	Certified	63.73		442	3	1.00	0.00	1
22	ZZPM5628	1	FUNNEL ADVENTURE TUBE 2ft RISE	Certified	173.28		1,203	2	2.00	0.00	1



Cass Scenic RR SP- Whittaker Area Playground

Design Number: P60809-2 - Compliance and Technical Data

Reference Document: ASTM F1487-07

Ref. No.	Part No.	Qty.	Description	Unit ASTM Status	Total Weight (lbs)	Pre- Consumer Recycled Content (lbs)	CO2e Footprint (kgs)	Users	Install Hours	Concrete (Yds3)	Active Play Events
23	ZZPM4388	3	CUSTOM GRAPHIC PANEL (DECK MOUNT)	Certified	291.18		1,228	0	3.00	0.00	0
24	ZZPM7420	1	DEEP RUNG ARCH CLIMBER (60in DECK)	Certified	118.82		321	2	2.00	0.06	1
25	ZZPM7949	1	SILO CLIMBER (36in DECK)	Certified	73.85		207	1	1.50	0.07	1
26	ZZPM8289	1	RIBBON CLIMBER (36in DECK)	Certified	51.98		161	2	1.50	0.06	1
27	ZZPM5790	1	10ft HORIZONTAL LOOP LADDER	Certified	84.46		326	3	1.00	0.00	1
28	ZZPM5970	1	OVERHEAD EVENT ACCESS LADDER (36in DECK)	Certified	26.16		88	1	1.50	0.06	0
29	ZZPM6690	1	ZIPPER BRIDGE (12in RISE)	Certified	178.14		517	3	1.00	0.00	1
30	ZZPM7080	1	6ft CATWALK	Certified	253.68		797	3	2.50	0.00	1
31	ZZPM4556	1	7in BELL (POST MOUNT)	Certified	4.93		52	1	0.25	0.00	1
32	ZZPM4558	1	9in BELL (POST MOUNT)	Certified	6.53		60	1	0.25	0.00	1
33	ZZPM4608	1	CHIME BANNER	Certified	27.40		237	1	0.75	0.00	1
34	ZZPM9828	1	CARNIVAL ROOF - SMALL PERF (SQUARE)	Certified	133.26		690	0	2.00	0.00	0
35	ZZPM9856	1	CARNIVAL ROOF SQUARE CAP	Certified	6.11		43	0	0.25	0.00	0
36	ZZPMGUID	1	GENERAL GUIDELINES FOR PLAYMAKER	N/A	0.00		0	0	0.25	0.00	0
37	ZZUN9910	1	SURFACING WARNING LABEL KIT	Certified	0.05		0	0	0.25	0.00	0
38	ZZUN9930	1	PIPE SYSTEMS MAINTENANCE KIT W/ AEROSOL	N/A	13.07		51	0	0.25	0.00	0
39	ZZUN9990	1	TOOL AND ADDITIONAL PARTS KIT W/AEROSOL	N/A	3.46		31	0	0.25	0.00	0

Totals: 5,114.27 231 1,244 17,437 66 69.00 4.65 22
2,301.42 Kg 104 Kg 560 Kg 17 Metric Tons 3.53 m3



Cass Scenic RR SP- Whittaker Area Playground

Design Number: P60809-2 - Compliance and Technical Data
Reference Document: ASTM F1487-07

Ref. No.	Part No.	Qty.	Description	Unit ASTM Status	Total Weight (lbs)	Pre-Consumer Recycled Content (lbs)	CO2e Footprint (kgs)	Install Hours	Concrete (Yds3)	Active Play Events
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ASTM F1487-07

The lay-out for this custom playscape, design number P60809-2, has been configured to meet the requirements of the ASTM F1487-07 standard. In addition, each of the above components listed as "Certified" have been tested and are IPEMA certified. Components listed as "Not Applicable" do not fall within the scope of the ASTM F1487-07 standard and have not been tested. IPEMA certification can be verified on the IPEMA website, www.ipema.org. In the interest of playground safety, IPEMA provides a Third Party Certification Service which validates compliance.

Americans with Disabilities Act Accessibility Guidelines (ADAAG)

The lay-out was also designed to meet the ADAAG published 23-July-2004, by the United States Access Board who installed over a properly maintained surfacing material that is in compliance with ASTM F1951 "Accessibility of Surface Systems Under and Around Playground Equipment" as well as ASTM F1292, "Impact Attenuation of Surfacing Materials Within the Use Zone of Playground Equipment", appropriate for the fall height of the structure.

Installation Times

Installation times are based on one experienced installer. A crew of three experienced individuals can perform the installation within the given time, each member working 1/3 of the given hours. [Eg. Installation Time = 30 hours. For a crew of three, each member will work 10 hours on the installation for a total of 30 hours on the project.]

Carbon Footprint

The CO2e (carbon footprint given in Kilograms and Metric Tons) listed above is a measure of the environmental impact this play structure represents from harvesting raw materials to the time it leaves our shipping dock. Playworld Systems nurtures a total corporate culture that is focused on eliminating carbon producing processes and products, reducing our use of precious raw materials, reusing materials whenever possible and recycling materials at every opportunity. Playworld Systems elected to adopt the Publicly Available Specification; PAS 2050 as published by the British Standards Institute and sponsored by Defra and the Carbon Trust. The PAS 2050 has gained international acceptance as a specification that measures the greenhouse gas emissions in services and goods throughout their entire life cycle.

Pre-Consumer Recycle Content

A measurement, in pounds, that qualifies the amount of material that was captured as waste and diverted from landfill during an initial manufacturing process and is being redirected to a separate manufacturing process to become a different product. E.g. 100% of our Aluminum Tubing is made from captured waste material during the manufacturing process of extruded Aluminum products such as rods, flat bars and H-channels.

Post-Consumer Recycle Content

A measurement, in pounds, that qualifies the amount of material that was once another product that has completed its lifecycle and has been diverted from a landfill as a solid waste through recycling and is now being used in a Playworld Systems' product. E.g. **20% to 40% of the steel in our steel tubing and sheet steel have been diverted from landfills. Automobiles are scrapped and recyclable steel is purchased by the steel mill that produces our raw product.

** The amount of Post-Consumer recycled steel fluctuates daily based on the availability of the recycled steel.





Product Specifications

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5in OD X 132in STEEL POST W/ RIVETED CAP

ZZPM0026

5 in. Support Post

Shall be fabricated of 5 in. outside diameter, 11 gauge galvanized steel tubing. (See Tubing) Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

Crown/Post/End Cap

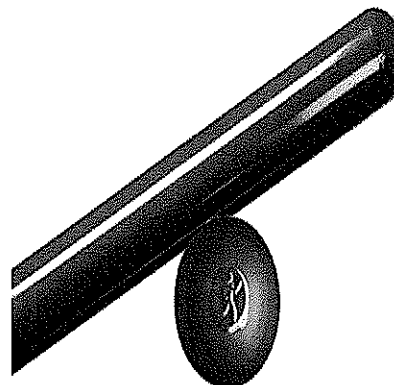
Shall be cast of high strength Almag 35 (535.0-F) aluminum alloy. Ultimate tensile strength shall be 40 ksi. Yield strength shall be 21 ksi. Each crown and post cap shall be fastened to the end of the tubing with drive rivets. Plastic post end caps and plastic rivets are unacceptable. Finished with a 420 micro finish and a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish) ASTM Specifications: B-26. Federal Specifications: QQ-A-601.

Drive Rivet

The rivet shall be fabricated of 2117 aluminum alloy. The pin shall be fabricated of 7075 aluminum alloy.

Steel Tubing - 5 in. OD, 11 ga.

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.



* See Note

Component Number:	ZZPM0026
Specification Rev:	ECN605
Component Weight:	74.21 Lbs.
Amount of Concrete:	0.12 Yds.
Pre-Consumer Recycle:	0.00 Lbs.
Post-Consumer Recycle:	22.26 Lbs.
CO2e Footprint:	172.53 Kgs.

* The photos shown are for product representation only. The actual products may vary in size and color depending upon application.



Product Specifications

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5in OD X 144in STEEL POST W/ RIVETED CAP

ZZPM0036

5 in. Support Post

Shall be fabricated of 5 in. outside diameter, 11 gauge galvanized steel tubing. (See Tubing) Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

Crown/Post/End Cap

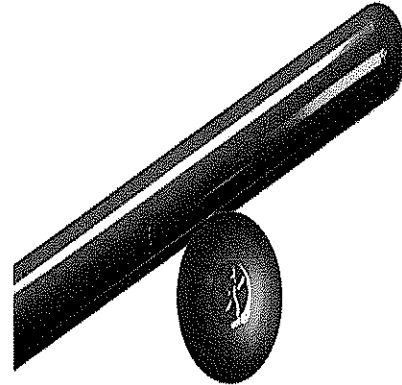
Shall be cast of high strength Almag 35 (535.0-F) aluminum alloy. Ultimate tensile strength shall be 40 ksi. Yield strength shall be 21 ksi. Each crown and post cap shall be fastened to the end of the tubing with drive rivets. Plastic post end caps and plastic rivets are unacceptable. Finished with a 420 micro finish and a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish) ASTM Specifications: B-26. Federal Specifications: QQ-A-601.

Steel Tubing - 5 in. OD, 11 ga.

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

Drive Rivet

The rivet shall be fabricated of 2117 aluminum alloy. The pin shall be fabricated of 7075 aluminum alloy.



* See Note

Component Number:	ZZPM0036
Specification Rev:	ECN343
Component Weight:	80.91 Lbs.
Amount of Concrete:	0.13 Yds.
Pre-Consumer Recycle:	0.00 Lbs.
Post-Consumer Recycle:	24.27 Lbs.
CO2e Footprint:	187.42 Kgs.

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Product Specifications

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5in OD X 156in STEEL POST W/ RIVETED CAP

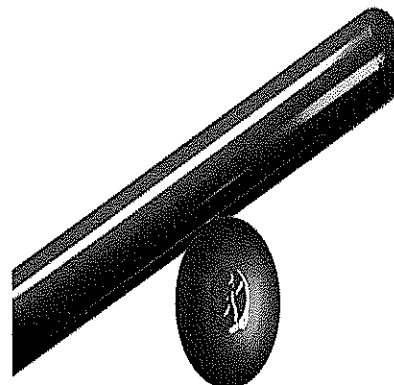
ZZPM0046

5 in. Support Post

Shall be fabricated of 5 in. outside diameter, 11 gauge galvanized steel tubing. (See Tubing) Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

Crown/Post/End Cap

Shall be cast of high strength Almag 35 (535.0-F) aluminum alloy. Ultimate tensile strength shall be 40 ksi. Yield strength shall be 21 ksi. Each crown and post cap shall be fastened to the end of the tubing with drive rivets. Plastic post end caps and plastic rivets are unacceptable. Finished with a 420 micro finish and a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish) ASTM Specifications: B-26. Federal Specifications: QQ-A-601.



* See Note

Steel Tubing - 5 in. OD, 11 ga.

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

Drive Rivet

The rivet shall be fabricated of 2117 aluminum alloy. The pin shall be fabricated of 7075 aluminum alloy.

Component Number:	ZZPM0046
Specification Rev:	ECN343
Component Weight:	87.71 Lbs.
Amount of Concrete:	0.13 Yds.
Pre-Consumer Recycle:	0.00 Lbs.
Post-Consumer Recycle:	26.31 Lbs.
CO2e Footprint:	202.27 Kgs.

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Product Specifications

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SQUARE COATED DECK ASSEMBLY

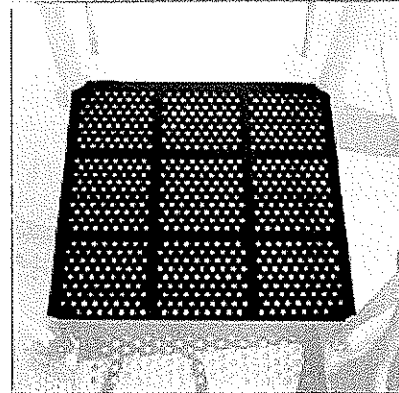
5 in. Die Cast Clamp

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

PM Square Coated Platform

Deck surface and sides shall be die formed from a single sheet of 12 gauge hot rolled, pickled and oiled flat steel. Deck surface shall have .34 in. (9 mm) diameter perforated holes. Decks shall have slots along each face to accommodate face mounting of components. The flange formed decks shall also incorporate the use of underdeck support struts to insure structural integrity. Square deck shall have 2226 square inches (1436215 square mm) of surface area. Entire deck weldment shall have a protective coating. (See Coated Finish)

ZZPM0616



* See Note

Component Number:	ZZPM0616
Specification Rev:	PA704
Component Weight:	90.36 Lbs.
Number of Users:	4
Pre-Consumer Recycle:	7.90 Lbs.
Post-Consumer Recycle:	25.89 Lbs.
CO2e Footprint:	237.41 Kgs.

* The photos shown are for product representation only. The actual products may vary in size and color depending upon application.



Product Specifications

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45 DEGREE TRI DECK

5 in. Die Cast Clamp

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

Coated Deck / Platform - 12 ga

Shall be an all welded assembly fabricated of 12 gauge hot rolled, pickled and oiled flat steel. Deck surface and sides shall be die formed from a single sheet of 12 gauge hot rolled, pickled and oiled flat steel. Deck surface shall have .34 in. (9mm) diameter perforated holes. Entire weldment shall have a protective coating. (See Coated Finish)

ZZPM0639

**photo
not
available**

* See Note

Component Number:	ZZPM0639
Specification Rev:	PA904
Component Weight:	57.90 Lbs.
Number of Users:	3
Pre-Consumer Recycle:	5.50 Lbs.
Post-Consumer Recycle:	17.86 Lbs.
CO2e Footprint:	222.00 Kgs.

* The photos shown are for product representation only. The actual products may vary in size and color depending upon application.



Product Specifications

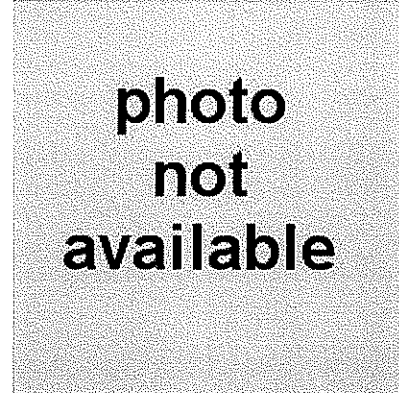
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12in DECK TO DECK KICK PLATE

Kickplate / Nose Bracket

Shall be fabricated from a single sheet of 14 gauge galvanized sheet steel. Shall have a minimum G60 galvanizing and regular spangle commercial quality. Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

ZZPM2530



* See Note

Component Number:	ZZPM2530
Specification Rev:	PA429
Component Weight:	11.95 Lbs.
Pre-Consumer Recycle:	0.68 Lbs.
Post-Consumer Recycle:	2.49 Lbs.
CO2e Footprint:	29.35 Kgs.

* The photos shown are for product representation only. The actual products may vary in size and color depending upon application.



Product Specifications

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12in 45 DEGREE TRI DECK KICK PLATE

Kickplate / Nose Bracket

Shall be fabricated from a single sheet of 14 gauge galvanized sheet steel. Shall have a minimum G60 galvanizing and regular spangle commercial quality. Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

ZZPM2537

**photo
not
available**

* See Note

Component Number:	ZZPM2537
Specification Rev:	PA904
Component Weight:	15.49 Lbs.
Pre-Consumer Recycle:	0.90 Lbs.
Post-Consumer Recycle:	3.30 Lbs.
CO2e Footprint:	40.39 Kgs.

* The photos shown are for product representation only. The actual products may vary in size and color depending upon application.



Product Specifications

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TRANSFER STATION w/TALL GUARDRAIL (36in DECK)

Transfer Deck Support Post

Shall be fabricated of 2.375 in. outside diameter, 12 gauge galvanized steel tubing; and .188 in. hot rolled flat steel. (See Tubing.) Finished with a baked on polyester powder coating. (See Superdurable Powder Coat Finish)

5 in. Die Cast Clamp

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

Accessible Stair Guardrail

Shall be an all welded assembly fabricated of 1.029 in. outside diameter, 14 gauge galvanized steel tubing and 1.315 in. outside diameter, 14 gauge galvanized steel tubing. (See Tubing.) Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish) All tube to tube weld connections shall be coped before welding to provide a clean look and the strongest joint possible. Flattened or partially flattened tubing weld connections are not acceptable.

Grabbie

Shall be an all welded assembly fabricated of 2.375 in. outside diameter, 12 gauge galvanized steel tubing; 1.029 in. outside diameter, 14 gauge galvanized steel tubing; and .188 in. zinc plated, hot rolled, pickled and oiled flat steel. (See Tubing) Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

Coated Transfer Deck - sm holes

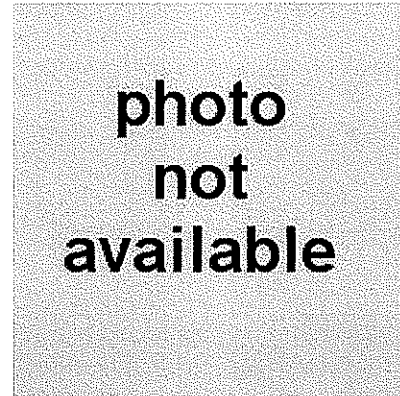
Shall be an all welded assembly die formed from a single sheet of 12 gauge hot rolled, pickled and oiled flat steel. Deck surface shall have .344 in. diameter perforated holes. Entire deck weldment shall have a protective coating. (See Coated Finish)

Coated Transfer Stair - sm holes

Shall be an all welded assembly fabricated of 14 gauge hot rolled, pickled and oiled flat steel for the step treads, and 11 gauge hot rolled, pickled and oiled flat steel for the stringers. Step surfaces shall have .34 in. diameter perforated holes. Entire stair weldment shall have a protective coating. (See Coated Finish)

Steel Tubing - 1.029 in. OD, 14 ga.

ZZPM2007



* See Note

Component Number:	ZZPM2007
Specification Rev:	PA1012
Component Weight:	155.24 Lbs.
Number of Users:	2
Amount of Concrete:	0.09 Yds.
Pre-Consumer Recycle:	7.09 Lbs.
Post-Consumer Recycle:	45.67 Lbs.
CO2e Footprint:	428.32 Kgs.

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

Steel Tubing - 1.315 in. OD, 14 ga.

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.

Steel Tubing - 2.375 in. OD, 12 ga.

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.

* The photos shown are for product representation only. The actual products may vary in size and color depending upon application.



Product Specifications

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APPROACH STEP FOR TRANSFER STATION

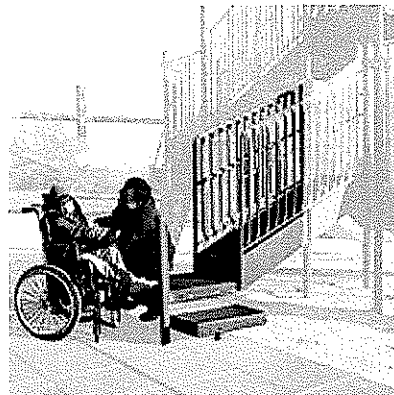
2.375 in. Support Post with Plate

Shall be fabricated of 2.375 in. outside diameter, 12 gauge galvanized steel tubing; and .125 in. zinc plated, hot rolled flat steel. (See Tubing) Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

Approach Step

Approach step shall be an all-welded assembly fabricated of 11 gauge and 14 gauge hot rolled, pickled and oiled flat steel. Approach step surface and sides shall be die-formed from a single sheet of 12 gauge hot rolled, pickled and oiled flat steel. Approach step surface shall have .344 in. (8 mm) diameter perforated holes. Entire deck weldment shall have a protective coating. (See Coated Finish)

ZZUN2019



* See Note

Component Number:	ZZUN2019
Specification Rev:	PA769
Component Weight:	35.83 Lbs.
Number of Users:	1
Amount of Concrete:	0.04 Yds.
Pre-Consumer Recycle:	1.72 Lbs.
Post-Consumer Recycle:	9.61 Lbs.
CO2e Footprint:	97.62 Kgs.

* The photos shown are for product representation only. The actual products may vary in size and color depending upon application.



Product Specifications

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TWIST AND SHOUT (48in DECK)

5 in. Die Cast Clamp

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

Rail 14 ga. w/ inserts

Shall be fabricated of 1.315 in. outside diameter, 14 gauge galvanized steel tubing (See Tubing). Shall have factory installed crimped threaded inserts at each end. Finished with a baked on polyester powder coating. (See SuperDurable Polyester Powder Coat Finish)

Exit Support Post - 3.5 in.

Shall be an all welded assembly fabricated of 3.5 in. outside diameter, 13 gauge galvanized steel tubing and 11 gauge zinc plated hot rolled flat steel. (See Tubing) Finished with a baked on polyester powder coating. (See SuperDurable Polyester Powder Coat Finish) ASTM Specifications: A-36,

Rotomolded Slide / Canopy

Shall be rotationally molded from linear low density polyethylene. (See Rotationally Molded Plastic Parts) Dry-blended or molded-in color resins are not acceptable.

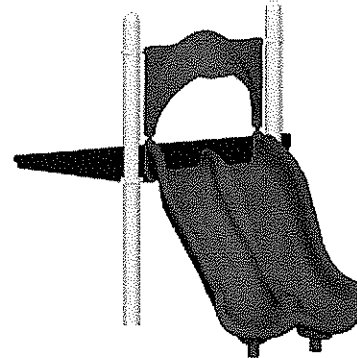
Steel Tubing - 1.315 in. OD, 14 ga.

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.

Steel Tubing - 3.5 in. OD, 13 ga.

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

ZZPM2727



* See Note

Component Number:	ZZPM2727
Specification Rev:	PA0949
Component Weight:	185.20 Lbs.
Number of Users:	4
Amount of Concrete:	0.06 Yds.
Pre-Consumer Recycle:	1.03 Lbs.
Post-Consumer Recycle:	9.56 Lbs.
CO2e Footprint:	756.05 Kgs.

* The photos shown are for product representation only. The actual products may vary in size and color depending upon application.



Product Specifications

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RUMBLE SEAT (60in DECK)

5 in. Die Cast Clamp

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

Rail 14 ga. w/ inserts

Shall be fabricated of 1.315 in. outside diameter, 14 gauge galvanized steel tubing (See Tubing). Shall have factory installed crimped threaded inserts at each end. Finished with a baked on polyester powder coating. (See SuperDurable Polyester Powder Coat Finish)

Exit Support Post - 3.5 in.

Shall be an all welded assembly fabricated of 3.5 in. outside diameter, 13 gauge galvanized steel tubing and 11 gauge zinc plated hot rolled flat steel. (See Tubing) Finished with a baked on polyester powder coating. (See SuperDurable Polyester Powder Coat Finish) ASTM Specifications: A-36,

Rotomolded Slide / Canopy

Shall be rotationally molded from linear low density polyethylene. (See Rotationally Molded Plastic Parts) Dry-blended or molded-in color resins are not acceptable.

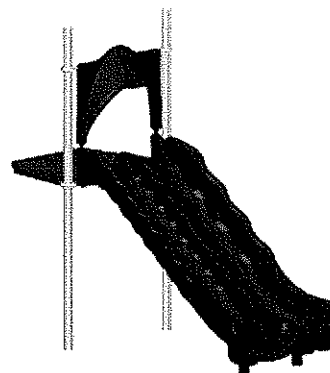
Steel Tubing - 1.315 in. OD, 14 ga.

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.

Steel Tubing - 3.5 in. OD, 13 ga.

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

ZZPM2737



* See Note

Component Number:	ZZPM2737
Specification Rev:	PA0950
Component Weight:	203.20 Lbs.
Number of Users:	4
Amount of Concrete:	0.06 Yds.
Pre-Consumer Recycle:	1.03 Lbs.
Post-Consumer Recycle:	9.56 Lbs.
CO2e Footprint:	875.78 Kgs.

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Product Specifications

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SLITHER SLIDE ENTRY/EXIT

5 in. Die Cast Clamp

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

Barrier - PM w/inserts & tabs

Shall be an all welded assembly fabricated of 1.315 in. Outside diameter, 14 gauge galvanized steel tubing and 7 gauge hot rolled, pickled and oiled flat steel. (See Tubing) Shall have factory installed crimped threaded inserts. Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

Exit Support Post - 3.5 in.

Shall be an all welded assembly fabricated of 3.5 in. outside diameter, 13 gauge galvanized steel tubing and 11 gauge zinc plated hot rolled flat steel. (See Tubing) Finished with a baked on polyester powder coating. (See SuperDurable Polyester Powder Coat Finish) ASTM Specifications: A-36,

Rotomolded Slide

Shall be rotationally molded from linear low density polyethylene. (See Rotationally Molded Plastic Parts) Dry-blended or molded-in color resins are not acceptable.

Glide Slide Canopy

Shall be rotationally molded from Exxon CP-812 polyethylene. (See Rotationally Molded Plastic Parts) Dry-blended or molded-in color resins are not acceptable. Shall have molded in threaded inserts, and 1.315 in. outside diameter, 14 gauge galvanized steel tubing color matched to the plastic. Tubing shall be finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

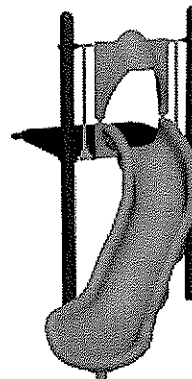
Steel Tubing - 1.315 in. OD, 14 ga.

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.

Steel Tubing - 3.5 in. OD, 13 ga.

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

ZZPM3136



* See Note

Component Number:	ZZPM3136
Specification Rev:	ECN1508
Component Weight:	101.22 Lbs.
Number of Users:	2
Amount of Concrete:	0.03 Yds.
Pre-Consumer Recycle:	1.03 Lbs.
Post-Consumer Recycle:	9.56 Lbs.
CO2e Footprint:	524.54 Kgs.

* The photos shown are for product representation only. The actual products may vary in size and color depending upon application.



Product Specifications

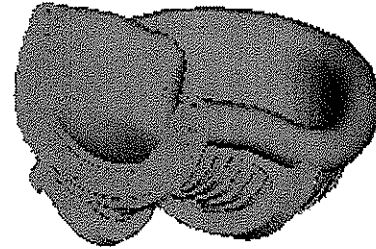
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SLITHER SLIDE (LEFT 120 DEGREE SECTION)

Rotomolded Slide

Shall be rotationally molded from linear low density polyethylene.
(See Rotationally Molded Plastic Parts) Dry-blended or molded-in
color resins are not acceptable.

ZZUN3147



* See Note

Component Number:	ZZUN3147
Specification Rev:	PA1052
Component Weight:	40.72 Lbs.
Pre-Consumer Recycle:	0.00 Lbs.
Post-Consumer Recycle:	0.00 Lbs.
CO2e Footprint:	261.47 Kgs.

* The photos shown are for product representation only. The actual products may vary in size and color depending upon application.



Product Specifications

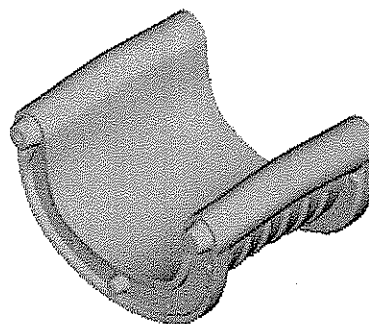
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SLITHER SLIDE (STRAIGHT - SECTION)

Rotomolded Slide

Shall be rotationally molded from linear low density polyethylene.
(See Rotationally Molded Plastic Parts) Dry-blended or molded-in
color resins are not acceptable.

ZZUN3156



* See Note

Component Number:	ZZUN3156
Specification Rev:	PA1019
Component Weight:	21.14 Lbs.
Pre-Consumer Recycle:	0.00 Lbs.
Post-Consumer Recycle:	0.00 Lbs.
CO2e Footprint:	158.61 Kgs.

* The photos shown are for product representation only. The actual products may vary in size and color depending upon application.



Product Specifications

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SLITHER SLIDE SUPPORT LEG 2ft-6in

Casting / Almag 35

Shall be cast of high strength Almag 35 (535.0-F) aluminum alloy. Ultimate tensile strength shall be 40 ksi. Yield strength shall be 21 ksi. Finished with a 420 micro finish and a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

Slide Support Post (w/o plate)

Shall be fabricated from 2.375 in. Outside diameter, 12 gauge galvanized steel tubing. (See Tubing) Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

ZZUN3176

**photo
not
available**

* See Note

Component Number:	ZZUN3176
Specification Rev:	PA1019
Component Weight:	16.24 Lbs.
Amount of Concrete:	0.03 Yds.
Pre-Consumer Recycle:	2.15 Lbs.
Post-Consumer Recycle:	5.84 Lbs.
CO2e Footprint:	80.08 Kgs.

* The photos shown are for product representation only. The actual products may vary in size and color depending upon application.



Product Specifications

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STEERING WHEEL (POST MOUNT)

Steering Wheel w/ bearings

Cast of regular 319 (319.0-F) aluminum. Ultimate tensile strength shall be 27 ksi. Yield strength shall be 18 ksi. ASTM Specifications: B-26. Federal Specifications: QQ-A-601. Finished with a 420 micro finish and a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish) Shall have factory installed oil light bearings pressed into the casting.

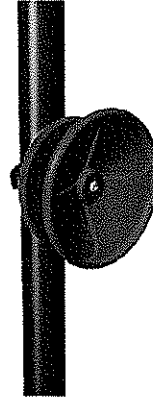
5 in. Die Cast Clamp

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

Plastic Panel - .75 in.

Shall be fabricated from colored marine grade, .75 in. high density polyethylene and machined. Shall be ultraviolet (UV) stabilized. Meets FDA requirements. ASTM Specifications: D-1238 (Melt Index), D-1505 (Material Density), D-638 (Tensile Strength), D-648 (Heat Distortion Temperature) D-790 (Flexural Modulus), D-1693 and D-2561 (Environmental Stress Crack Resistance), D-2240 (Hardness), D-1822 (Tensile Impact) D-746 (Brittleness), D-1525 (Softening Point).

ZZPM4290



* See Note

Component Number:	ZZPM4290
Specification Rev:	ECN1393
Component Weight:	8.67 Lbs.
Number of Users:	1
Pre-Consumer Recycle:	2.97 Lbs.
Post-Consumer Recycle:	3.40 Lbs.
CO2e Footprint:	60.81 Kgs.

* The photos shown are for product representation only. The actual products may vary in size and color depending upon application.



Product Specifications

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ACCESSIBLE DRIVING PANEL

5 in. Die Cast Clamp

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

Panel Connector

Shall be cast of high strength Almag 35 (535.0-F) aluminum alloy. (See Cast Almag Clamps) Finished with a 420 micro finish and a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

Ball Bearing - .25 in. Dia.

Shall be .25 in. diameter and be manufactured from AISI 400-C stainless steel and hardened to RC 58-65.

Spacer / Connector - Delrin

Shall be machined from black Delrin.

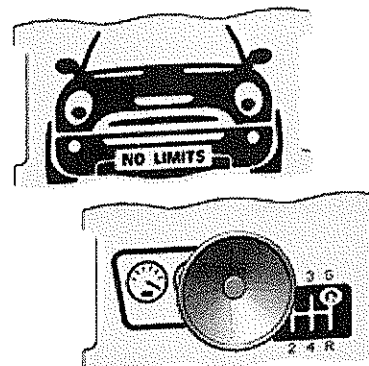
Steering Wheel w/ bearings

Cast of regular 319 (319.0-F) aluminum. Ultimate tensile strength shall be 27 ksi. Yield strength shall be 18 ksi. ASTM Specifications: B-26. Federal Specifications: QQ-A-601. Finished with a 420 micro finish and a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish) Shall have factory installed oil light bearings pressed into the casting.

Plastic Panel - .75 in.

Shall be fabricated from colored marine grade, .75 in. high density polyethylene and machined. Shall be ultraviolet (UV) stabilized. Meets FDA requirements. ASTM Specifications: D-1238 (Melt Index), D-1505 (Material Density), D-638 (Tensile Strength), D-648 (Heat Distortion Temperature) D-790 (Flexural Modulus), D-1693 and D-2561 (Environmental Stress Crack Resistance), D-2240 (Hardness), D-1822 (Tensile Impact) D-746 (Brittleness), D-1525 (Softening Point).

ZZPM4406



* See Note

Component Number:	ZZPM4406
Specification Rev:	PA0965
Component Weight:	31.59 Lbs.
Number of Users:	1
Pre-Consumer Recycle:	9.65 Lbs.
Post-Consumer Recycle:	7.10 Lbs.
CO2e Footprint:	223.16 Kgs.

* The photos shown are for product representation only. The actual products may vary in size and color depending upon application.



Product Specifications

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SPIN RACER PANEL (DECK LEVEL)

5 in. Cast Almag Clamp

Shall be cast of high strength Almag 35 (535.0-F) aluminum alloy. (See Cast Almag Clamps) Finished with a 420 micro finish and a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish) Clamps shall be provided as hinged assemblies to facilitate structure assembly.

Connector / Adapter - 535 Almag

Shall be cast of high strength Almag 35 (535.0-F) aluminum alloy. (See Cast Almag Clamps) Finished with a 420 micro finish and a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

Spacer / Connector - Delrin

Shall be machined from black Delrin.

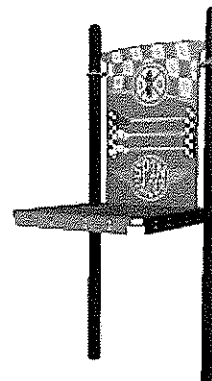
Plastic Panel - .75 in.

Shall be fabricated from colored marine grade, .75 in. high density polyethylene and machined. Shall be ultraviolet (UV) stabilized. Meets FDA requirements. ASTM Specifications: D-1238 (Melt Index), D-1505 (Material Density), D-638 (Tensile Strength), D-648 (Heat Distortion Temperature) D-790 (Flexural Modulus), D-1693 and D-2561 (Environmental Stress Crack Resistance), D-2240 (Hardness), D-1822 (Tensile Impact) D-746 (Brittleness), D-1525 (Softening Point).

Plastic Panel - .5 in.

Shall be fabricated of .50 in. (12 mm) high density sheet polyethylene. Shall be ultraviolet (UV) stabilized. Meets FDA requirements. ASTM Specifications: D-1238 (Melt Index), D-1505 (Material Density), D-638 (Tensile Strength), D-648 (Heat Distortion Temperature) D-790 (Flexural Modulus), D-1693 and D-2561 (Environmental Stress Crack Resistance), D-2240 (Hardness), D-1822 (Tensile Impact), D-746 (Brittleness), D-1525 (Vicat Softening Point).

ZZPM4537



* See Note

Component Number:	ZZPM4537
Specification Rev:	PA1167
Component Weight:	63.73 Lbs.
Number of Users:	3
Pre-Consumer Recycle:	18.76 Lbs.
Post-Consumer Recycle:	2.41 Lbs.
CO2e Footprint:	442.05 Kgs.

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Product Specifications

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FUNNEL ADVENTURE TUBE 2ft RISE

5 in. Die Cast Clamp

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

Connector / Adapter - 535 Almag

Shall be cast of high strength Almag 35 (535.0-F) aluminum alloy. (See Cast Almag Clamps) Finished with a 420 micro finish and a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

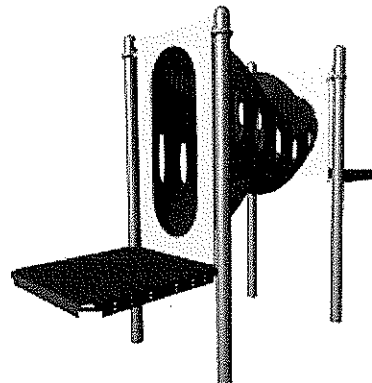
Plastic Panel - .75 in.

Shall be fabricated from colored marine grade, .75 in. high density polyethylene and machined. Shall be ultraviolet (UV) stabilized. Meets FDA requirements. ASTM Specifications: D-1238 (Melt Index), D-1505 (Material Density), D-638 (Tensile Strength), D-648 (Heat Distortion Temperature) D-790 (Flexural Modulus), D-1693 and D-2561 (Environmental Stress Crack Resistance), D-2240 (Hardness), D-1822 (Tensile Impact) D-746 (Brittleness), D-1525 (Softening Point).

Rotomolded Component

Shall be rotationally molded from linear low density polyethylene. (See Rotationally Molded Plastic Parts) Dry-blended or molded-in color resins are not acceptable. Threaded inserts may be molded into the plastic to provide attachment points.

ZZPM5628



* See Note

Component Number:	ZZPM5628
Specification Rev:	PA1076
Component Weight:	173.28 Lbs.
Number of Users:	2
Pre-Consumer Recycle:	23.90 Lbs.
Post-Consumer Recycle:	4.82 Lbs.
CO2e Footprint:	1,203.33 Kgs.

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Product Specifications

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CUSTOM GRAPHIC PANEL (DECK MOUNT)

ZZPM4388

5 in. Die Cast Clamp

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

Panel Connector

Shall be cast of high strength Almag 35 (535.0-F) aluminum alloy. (See Cast Almag Clamps) Finished with a 420 micro finish and a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

Frame - Panel

Shall be an all welded assembly fabricated of 1 in. x 2 in., 16 gauge galvanized rectangular steel tubing. (See Tubing) Finished with a baked on powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

Plastic Panel - .5 in.

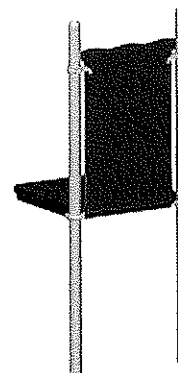
Shall be fabricated of .50 in. (12 mm) high density sheet polyethylene. Shall be ultraviolet (UV) stabilized. Meets FDA requirements. ASTM Specifications: D-1238 (Melt Index), D-1505 (Material Density), D-638 (Tensile Strength), D-648 (Heat Distortion Temperature) D-790 (Flexural Modulus), D-1693 and D-2561 (Environmental Stress Crack Resistance), D-2240 (Hardness), D-1822 (Tensile Impact), D-746 (Brittleness), D-1525 (Vicat Softening Point).

Plastic Panel - .75 in.

Shall be fabricated from colored marine grade, .75 in. high density polyethylene and machined. Shall be ultraviolet (UV) stabilized. Meets FDA requirements. ASTM Specifications: D-1238 (Melt Index), D-1505 (Material Density), D-638 (Tensile Strength), D-648 (Heat Distortion Temperature) D-790 (Flexural Modulus), D-1693 and D-2561 (Environmental Stress Crack Resistance), D-2240 (Hardness), D-1822 (Tensile Impact) D-746 (Brittleness), D-1525 (Softening Point).

Steel Tubing - 1 in. x 2 in. Rect., 16 ga.

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.



* See Note

Component Number:	ZZPM4388
Specification Rev:	PA0946
Component Weight:	97.06 Lbs.
Pre-Consumer Recycle:	24.67 Lbs.
Post-Consumer Recycle:	6.15 Lbs.
CO2e Footprint:	409.32 Kgs.

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Product Specifications

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DEEP RUNG ARCH CLIMBER (60in DECK)

5 in. Die Cast Clamp

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

Gate Adaptor Connector

Cast of regular 319 (319.0-F) aluminum. Ultimate tensile strength shall be 27 ksi. Yield strength shall be 18 ksi. Finished with a 420 micro finish and a baked on powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish) ASTM Specifications: B-26. Federal Specifications: QQ-A-601. Components are powder coated with a polyester powder and cured at temperatures between 375 and 400 F. Epoxy or hybrid paints are not acceptable. ASTM Specifications: B-117 (Salt Spray Resistance Test), D-2794 (Impact Resistance Test), D-1734 (Mandrel Flexibility Test), D-2247 (Humidity Resistance Test), D-822 (Weatherability Test), D-3363 (Pencil Hardness Test), D-3359-B (Crosshatch Adhesion Test), and D-2454 (Overbake Resistance Test).

Deep Rung Arch Climber

Shall be an all welded assembly fabricated of 1.029 in. outside diameter, 14 gauge galvanized steel tubing; 1.315 in. outside diameter, 14 gauge galvanized steel tubing; and 1.66 in. outside diameter, 13 gauge galvanized steel. (See Tubing) Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

Barrier Gate - 7 ga. Tab

Shall be fabricated of 1.315 in. outside diameter, 14 gauge galvanized steel tubing; 1.029 in. outside diameter, 14 gauge galvanized steel tubing; and 7 gauge galvanized hot rolled steel. (See Tubing) All tube to tube weld connections shall be coped before welding to provide a clean look and the strongest joint possible. Flattened or partially flattened tube weld connections are not acceptable. Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

Steel Tubing - 1.029 in. OD, 14 ga.

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

Steel Tubing - 1.315 in. OD, 14 ga.

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.

ZZPM7420



* See Note

Component Number:	ZZPM7420
Specification Rev:	ECN1542
Component Weight:	118.82 Lbs.
Number of Users:	2
Amount of Concrete:	0.06 Yds.
Pre-Consumer Recycle:	1.45 Lbs.
Post-Consumer Recycle:	36.84 Lbs.
CO2e Footprint:	321.41 Kgs.

Steel Tubing - 1.66 in. OD, 13 ga.

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.

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Product Specifications

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SILO CLIMBER (36in DECK)

5 in. Die Cast Clamp

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

Connector - reg 319 aluminum

Cast of regular 319 (319.0-F) aluminum. Ultimate tensile strength shall be 27 ksi. Yield strength shall be 18 ksi. Finished with a 420 micro finish and a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish) ASTM Specifications: B-26. Federal Specifications: QQ-A-601.

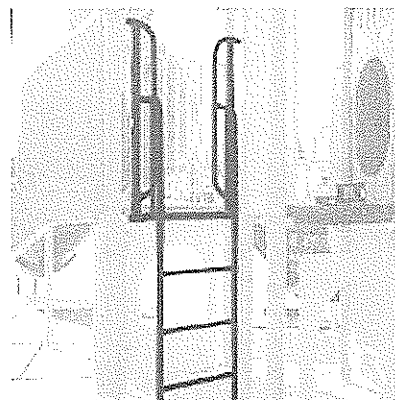
Silo Climber (Using connector)

Shall be fabricated of 1.315 in. outside diameter, 14 gauge galvanized steel tubing; 1.029 in. outside diameter, 14 gauge galvanized steel tubing; 11 gauge hot rolled flat steel. (See Tubing) Finished with a baked on polyester powder coating. (See SuperDurable Polyester Powder Coat Finish) ASTM Specifications: A-135, A-500 and E-8.

Barrier Gate (11 ga)

Shall be fabricated of 1.315 in. outside diameter, 14 gauge galvanized steel tubing; 1.029 in. Outside diameter, 14 gauge galvanized steel tubing; .25 in. Hot rolled, pickled and oiled flat steel and 11 gauge galvanized hot rolled steel. (See Tubing) All tube to tube weld connections shall be coped before welding to provide a clean look and the strongest joint possible. Flattened or partially flattened tube weld connections are not acceptable. Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

ZZPM7949



* See Note

Component Number:	ZZPM7949
Specification Rev:	ECN1641
Component Weight:	73.85 Lbs.
Number of Users:	1
Amount of Concrete:	0.07 Yds.
Pre-Consumer Recycle:	1.47 Lbs.
Post-Consumer Recycle:	23.35 Lbs.
CO2e Footprint:	207.03 Kgs.

* The photos shown are for product representation only. The actual products may vary in size and color depending upon application.



Product Specifications

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RIBBON CLIMBER (36in DECK)

5 in. Die Cast Clamp

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

Ribbon Climber

Shall be an all-welded assembly fabricated of 1.315 in. outside diameter, 14 gauge galvanized tubing. (See Tubing) Finished with a baked-on polyester coating. (See Superdurable Polyester Powder Coat Finish)

Arch Entry Barrier / Barrier Gate w/Coping

Shall be fabricated of 1.029 in. outside diameter, 14 gauge galvanized steel tubing; 1.315 in. outside diameter, 14 gauge galvanized steel tubing; and .188 in. galvanized hot rolled flat steel (See Tubing). ASTM Specifications: A-135, E-8 and A-500. Finished with a baked on polyester powder coating. (See Polyester Powder Coat Finish) All tube to tube weld connections shall be coped before welding to provide a clean look and the strongest joint possible. Flattened or partially flattened tubing weld connections are not acceptable.

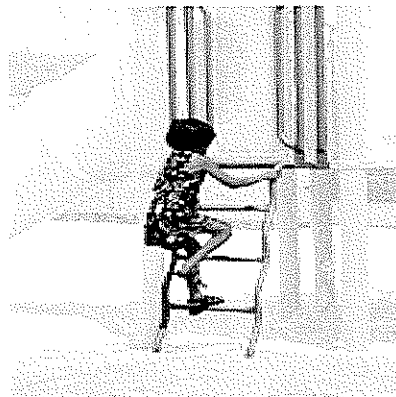
Steel Tubing - 1.029 in. OD, 14 ga.

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

Steel Tubing - 1.315 in. OD, 14 ga.

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.

ZZPM8289



* See Note

Component Number:	ZZPM8289
Specification Rev:	PA1104
Component Weight:	51.98 Lbs.
Number of Users:	2
Amount of Concrete:	0.06 Yds.
Pre-Consumer Recycle:	1.03 Lbs.
Post-Consumer Recycle:	16.64 Lbs.
CO2e Footprint:	161.25 Kgs.

* The photos shown are for product representation only. The actual products may vary in size and color depending upon application.



Product Specifications

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10ft HORIZONTAL LOOP LADDER

5 in. Die Cast Clamp

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

T Connector Clamp

Shall be cast of high strength Almag 35 (535.0-F) aluminum alloy. (See Cast Almag Clamps) Finished with a 420 micro finish and a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

Support Rod (14 Ga.)

Shall be fabricated of 1.315 in. outside diameter, 14 gauge galvanized steel tubing with a threaded insert. (See Tubing). Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

Loop Ladder

Shall be an all welded assembly fabricated of 1.029 in. outside diameter, 14 gauge galvanized steel tubing; and 3.5 in. outside diameter, 13 gauge galvanized steel tubing. (See Tubing) Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

Steel Tubing - 1.029 in. OD, 14 ga.

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

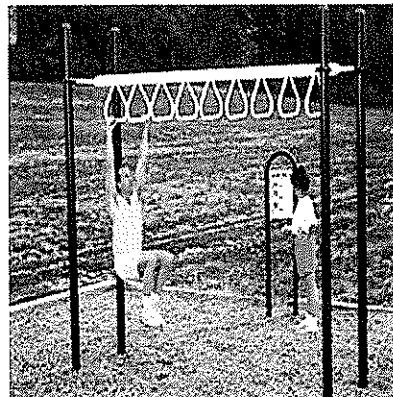
Steel Tubing - 1.315 in. OD, 14 ga.

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.

Steel Tubing - 3.5 in. OD, 13 ga.

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

ZZPM5790



* See Note

Component Number:	ZZPM5790
Specification Rev:	ECN1452
Component Weight:	84.46 Lbs.
Number of Users:	3
Pre-Consumer Recycle:	3.57 Lbs.
Post-Consumer Recycle:	26.67 Lbs.
CO2e Footprint:	326.50 Kgs.

* The photos shown are for product representation only. The actual products may vary in size and color depending upon application.



Product Specifications

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OVERHEAD EVENT ACCESS LADDER (36in DECK)

5 in. Die Cast Clamp

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

Access Ladder

Shall be an all-welded assembly fabricated of 1.315 in. outside diameter, 14 gauge galvanized steel tubing; and 1.029 in. outside diameter, 14 gauge galvanized steel tubing. (See Tubing) Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

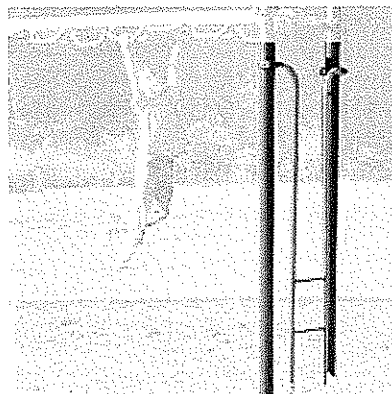
Steel Tubing - 1.029 in. OD, 14 ga.

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

Steel Tubing - 1.315 in. OD, 14 ga.

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.

ZZPM5970



* See Note

Component Number:	ZZPM5970
Specification Rev:	ECN556
Component Weight:	26.16 Lbs.
Number of Users:	1
Amount of Concrete:	0.06 Yds.
Pre-Consumer Recycle:	1.03 Lbs.
Post-Consumer Recycle:	8.99 Lbs.
CO2e Footprint:	88.41 Kgs.

* The photos shown are for product representation only. The actual products may vary in size and color depending upon application.



Product Specifications

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ZIPPER BRIDGE (12in RISE)

5 in. Die Cast Clamp

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

Barrier Gate - 7 ga. Tab

Shall be fabricated of 1.315 in. outside diameter, 14 gauge galvanized steel tubing; 1.029 in. outside diameter, 14 gauge galvanized steel tubing; and 7 gauge galvanized hot rolled steel. (See Tubing) All tube to tube weld connections shall be coped before welding to provide a clean look and the strongest joint possible. Flattened or partially flattened tube weld connections are not acceptable. Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

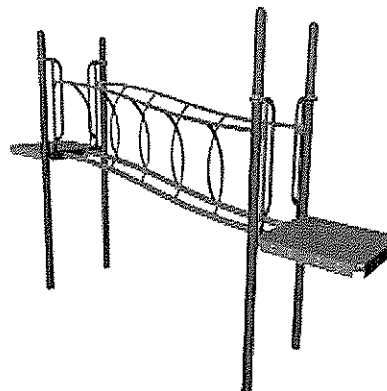
Zipper Climber

Shall be an all welded assembly fabricated of 2.375 in. outside diameter, 12 gauge galvanized steel tubing; 1.315 in. outside diameter, 14 gauge galvanized steel tubing; 1.029 in. outside diameter, 14 gauge galvanized steel tubing; .25 in. hot rolled, pickled and oiled flat steel. (See Tubing) Finished with a baked on polyester powder coating. (See Polyester Powder Coat Finish).

Steel Tubing - 1.029 in. OD, 14 ga.

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

ZZPM6690



* See Note

Component Number:	ZZPM6690
Specification Rev:	ECN1494
Component Weight:	178.14 Lbs.
Number of Users:	3
Pre-Consumer Recycle:	2.80 Lbs.
Post-Consumer Recycle:	55.61 Lbs.
CO2e Footprint:	516.76 Kgs.

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Product Specifications

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6ft CATWALK

5 in. Cast Clamp Band

Shall be cast of high strength Almag 35 (535.0-F) aluminum alloy. Finished with a 420 micro finish and a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

Barrier (PM) - Catwalk w/ clamp bands

Shall be an all welded assembly fabricated of 1.029 in. outside diameter, 14 gauge galvanized steel tubing, 1.315 in. outside diameter, 14 gauge galvanized steel tubing, .25 in. hot rolled flat steel, .25 in. hot rolled pickled and oiled flat steel, and .188 in. hot rolled pickled and oiled flat steel. (See Tubing) Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

Deck Filler Plate - aluminum

Shall be fabricated of .50 in. aluminum. Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

Catwalk Platform - String Entg. Compliance

Platform weldment shall be fabricated of 7 gauge hot rolled, pickled and oiled flat steel, 12 gauge hot rolled, pickled and oiled flat steel and .375 cold rolled steel. Platform weldment shall have a protective coating. (See Coated Finish) Catwalk shall comply with ASTM Specifications: A-135, A-500, and A-513.

Steel Tubing - 1.029 in. OD, 14 ga.

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

Steel Tubing - 1.315 in. OD, 14 ga.

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.

ZZPM7080



* See Note

Component Number:	ZZPM7080
Specification Rev:	ECN0925
Component Weight:	253.68 Lbs.
Number of Users:	3
Pre-Consumer Recycle:	9.47 Lbs.
Post-Consumer Recycle:	77.63 Lbs.
CO2e Footprint:	796.87 Kgs.

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Product Specifications

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7in BELL (POST MOUNT)

5 in. Cast Clamp Band

Shall be cast of high strength Almag 35 (535.0-F) aluminum alloy. Finished with a 420 micro finish and a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

Bell - Aluminum

Cast of regular 319 (319.0-F) aluminum. Ultimate tensile strength shall be 27 ksi. Yield strength shall be 18 ksi. Finished with a 420 micro finish and a baked on polyester powder coating. (See Polyester Powder Coat / PrismCoat Finish) ASTM Specifications: B-26. Federal Specifications: QQ-A-601

Bracket - Bell

Shall be an all welded assembly fabricated of 1.315 in. Outside diameter, 14 gauge galvanized steel tubing and .25 in. zinc plated, hot rolled flat steel. (See Tubing) Finished with a baked on polyester powder coat or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

Steel Tubing - 1.315 in. OD, 14 ga.

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.

ZZPM4556



* See Note

Component Number:	ZZPM4556
Specification Rev:	PA0979
Component Weight:	4.93 Lbs.
Number of Users:	1
Pre-Consumer Recycle:	1.28 Lbs.
Post-Consumer Recycle:	2.06 Lbs.
CO2e Footprint:	52.47 Kgs.

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Product Specifications

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9in BELL (POST MOUNT)

5 in. Cast Clamp Band

Shall be cast of high strength Almag 35 (535.0-F) aluminum alloy. Finished with a 420 micro finish and a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

Bell - Aluminum

Cast of regular 319 (319.0-F) aluminum. Ultimate tensile strength shall be 27 ksi. Yield strength shall be 18 ksi. Finished with a 420 micro finish and a baked on polyester powder coating. (See Polyester Powder Coat / PrismCoat Finish) ASTM Specifications: B-26. Federal Specifications: QQ-A-601

Bracket - Bell

Shall be an all welded assembly fabricated of 1.315 in. Outside diameter, 14 gauge galvanized steel tubing and .25 in. zinc plated, hot rolled flat steel. (See Tubing) Finished with a baked on polyester powder coat or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

Steel Tubing - 1.315 in. OD, 14 ga.

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.

ZZPM4558



* See Note

Component Number:	ZZPM4558
Specification Rev:	PA0979
Component Weight:	6.53 Lbs.
Number of Users:	1
Pre-Consumer Recycle:	1.88 Lbs.
Post-Consumer Recycle:	2.84 Lbs.
CO2e Footprint:	59.95 Kgs.

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Product Specifications

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CHIME BANNER

Casting - Chime Parts

Cast of regular 319 (319.0-F) aluminum. Ultimate tensile strength shall be 27 ksi. Yield strength shall be 18 ksi. Finished with a 420 micro finish and a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish) ASTM Specifications: B-26. Federal Specifications: QQ-A-601.

5 in. Die Cast Clamp

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

Panel Connector

Shall be cast of high strength Almag 35 (535.0-F) aluminum alloy. (See Cast Almag Clamps) Finished with a 420 micro finish and a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

Chime w/tab

Shall be an all welded assembly fabricated of 1.315 in. outside diameter, 18 gauge galvanized steel tubing and 7 gauge hot rolled, pickled, and oiled flat steel. (See Tubing) Finished with a baked on powder coating. (See Superdurable Polyester Powder Coat Finish)

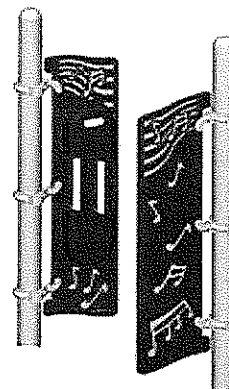
Plastic Panel - .75 in.

Shall be fabricated from colored marine grade, .75 in. high density polyethylene and machined. Shall be ultraviolet (UV) stabilized. Meets FDA requirements. ASTM Specifications: D-1238 (Melt Index), D-1505 (Material Density), D-638 (Tensile Strength), D-648 (Heat Distortion Temperature) D-790 (Flexural Modulus), D-1693 and D-2561 (Environmental Stress Crack Resistance), D-2240 (Hardness), D-1822 (Tensile Impact) D-746 (Brittleness), D-1525 (Softening Point).

Steel Tubing - 1.315 in. OD, 18 ga.

Tensile strength shall be 48,000 psi. Yield strength shall be 45,000 psi.

ZZPM4608



* See Note

Component Number:	ZZPM4608
Specification Rev:	ECN1541
Component Weight:	27.40 Lbs.
Number of Users:	1
Pre-Consumer Recycle:	7.74 Lbs.
Post-Consumer Recycle:	7.57 Lbs.
CO2e Footprint:	237.07 Kgs.

* The photos shown are for product representation only. The actual products may vary in size and color depending upon application.



Product Specifications

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CARNIVAL ROOF - SMALL PERF (SQUARE)

5 in. Die Cast Clamp

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

Roof Panel (small perf)

Shall be fabricated from 14 guage hot rolled flat steel. Panel shall have 0.25 in. O.D. perforated holes. Panel shall be free of sharp edges. Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

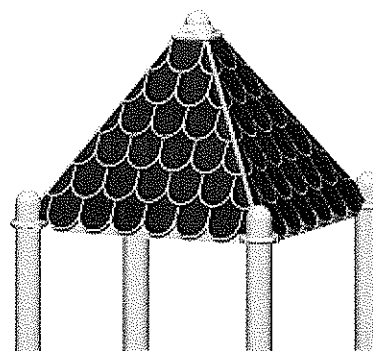
Frame - Roof

Shall be an all welded assembly fabricated from 10 gauge hot rolled flat steel and 14 guage hot rolled flat steel. Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

Frame - End

Shall be fabricated from 14 guage hot rolled flat steel. Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

ZZPM9828



* See Note

Component Number:	ZZPM9828
Specification Rev:	PA0994
Component Weight:	133.26 Lbs.
Pre-Consumer Recycle:	9.48 Lbs.
Post-Consumer Recycle:	31.70 Lbs.
CO2e Footprint:	690.20 Kgs.

* The photos shown are for product representation only. The actual products may vary in size and color depending upon application.



Product Specifications

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CARNIVAL ROOF SQUARE CAP

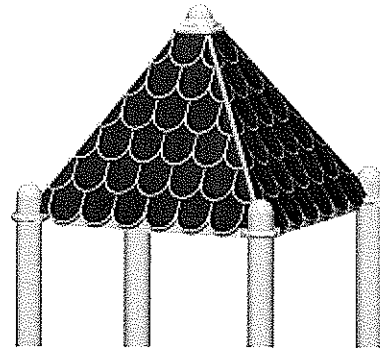
Casting - Roof Cap

Cast of regular 319 (319.0-F) aluminum. Ultimate tensile strength shall be 27 ksi. Yield strength shall be 18 ksi. Finished with a 420 micro finish and a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish) ASTM Specifications: B-26. Federal Specifications: QQ-A-601.

Plate - 14 gauge

Shall be fabricated from 14 gauge galvanized hot rolled flat steel. Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

ZZPM9856



* See Note

Component Number:	ZZPM9856
Specification Rev:	PA0994
Component Weight:	6.11 Lbs.
Pre-Consumer Recycle:	2.10 Lbs.
Post-Consumer Recycle:	2.77 Lbs.
CO2e Footprint:	42.80 Kgs.

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Product Specifications

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3-1/2in OD 2-UNIT STEEL ARCH SWING W-8ft TOP RAIL

Swing Clevis - cast iron/ plated

Shall be manufactured of superior grade cast ductile iron and zinc plated for optimal surface protection. Shall have an integrated bronze bearing pressed in after powdercoating. Shall be finished with a baked on polyester powder coat. (See Superdurable Polyester Powder Coat Finish)

3.5 in. Swing Hanger / Band - cast iron

Shall be manufactured of superior grade cast ductile iron and galvanized. The swing hanger and band together shall have an ultimate tensile load of 5000 lbs. Shall be finished with a baked on polyester powder coat. (See Superdurable Polyester Powder Coat Finish)

3.5 in. Swing Arch Top Rail

Shall be an all welded assembly fabricated of 3.5 in. outside diameter, 13 gauge galvanized steel tubing. (See Tubing) Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

Post Arch - steel (11 ga / 4in od)

Shall be an all welded assembly fabricated of 3.5 in. outside diameter, 11 gauge galvanized steel tubing (arch), 4 in. outside diameter, 8 gauge galvanized steel tubing (sleeve), and 1006 cold rolled steel. (See Tubing) Finished with powder coating. (See Polyester Powder Coat Finish)

Steel Tubing - 3.5 in. OD, 11ga.

Tensile strength shall be 48,000 psi. Yield strength shall be 45,000 psi.

Steel Tubing - 3.5 in. OD, 13 ga.

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

Steel Tubing - 4 in. OD, 8 ga.

Tensile strength shall be 48,000 psi. Yield strength shall be 45,000 psi.

ZZXX0288

**photo
not
available**

* See Note

Component Number:	ZZXX0288
Specification Rev:	ECN1620
Component Weight:	293.51 Lbs.
Amount of Concrete:	0.52 Yds.
Pre-Consumer Recycle:	0.00 Lbs.
Post-Consumer Recycle:	82.34 Lbs.
CO2e Footprint:	845.84 Kgs.

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Product Specifications

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3-1/2in OD STEEL ARCH SWING 2-UNIT ADD-A-BAY ZZXX0375

Swing Clevis - cast iron/ plated

Shall be manufactured of superior grade cast ductile iron and zinc plated for optimal surface protection. Shall have an integrated bronze bearing pressed in after powdercoating. Shall be finished with a baked on polyester powder coat. (See Superdurable Polyester Powder Coat Finish)

3.5 in. Swing Hanger / Band - cast iron

Shall be manufactured of superior grade cast ductile iron and galvanized. The swing hanger and band together shall have an ultimate tensile load of 5000 lbs. Shall be finished with a baked on polyester powder coat. (See Superdurable Polyester Powder Coat Finish)

3.5 in. Swing Arch Top Rail

Shall be an all welded assembly fabricated of 3.5 in. outside diameter, 13 gauge galvanized steel tubing. (See Tubing) Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

Post Arch - steel (11 ga / 4in od)

Shall be an all welded assembly fabricated of 3.5 in. outside diameter, 11 gauge galvanized steel tubing (arch), 4 in. outside diameter, 8 gauge galvanized steel tubing (sleeve), and 1006 cold rolled steel. (See Tubing) Finished with powder coating. (See Polyester Powder Coat Finish)

Steel Tubing - 3.5 in. OD, 11ga.

Tensile strength shall be 48,000 psi. Yield strength shall be 45,000 psi.

Steel Tubing - 3.5 in. OD, 13 ga.

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

Steel Tubing - 4 in. OD, 8 ga.

Tensile strength shall be 48,000 psi. Yield strength shall be 45,000 psi.

**photo
not
available**

* See Note

Component Number:	ZZXX0375
Specification Rev:	ECN1620
Component Weight:	179.11 Lbs.
Amount of Concrete:	0.52 Yds.
Pre-Consumer Recycle:	0.00 Lbs.
Post-Consumer Recycle:	48.02 Lbs.
CO2e Footprint:	539.46 Kgs.

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Product Specifications

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BELT SEAT W/SILVER SHIELD CHAIN FOR 8ft TOP RAIL

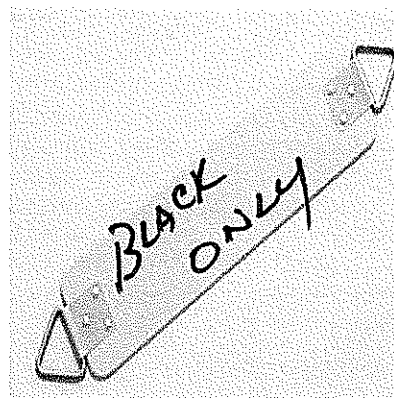
Chain - 4/0 - galvanized

Shall be 4/0 hot dipped galvanized welded link chain. The chain links are low carbon 1008 steel. The Rockwell would be on the B scale @ 90. The working load limit for this chain is 670 lbs.

Swing Seat - belt

Shall be fabricated from .5 in. (13 mm) thick ethylene propylene diene monomer with a T-301 full hard .020 in. (.51 mm) carbon steel insert. A triangular galvanized steel bracket and plate shall be secured to seat with galvanized rivets for chain attachments. Seat shall be slash-proof.

ZZXX0260



* See Note

Component Number:	ZZXX0260
Specification Rev:	ECN1836
Component Weight:	8.37 Lbs.
Number of Users:	1
Pre-Consumer Recycle:	0.00 Lbs.
Post-Consumer Recycle:	3.64 Lbs.
CO2e Footprint:	70.30 Kgs.

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