



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
DNR209155

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
FRANK WHITTAKER
304-558-2316

DIVISION OF NATURAL RESOURCES  
 WATTERS SMITH MEM'L STATE PARK  
 ATTN: PARK SUPERINTENDENT  
 POST OFFICE BOX 296  
 LOST CREEK, WV  
 26385 745-3081

\*709054414 304 263 7857  
 TAYLOR SPORTS & RECREATION  
 PO BOX 1706  
 MARTINSBURG WV 25402

PURCHASER

SHIP TO

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B	FREIGHT TERMS
05/20/2009	30 DAY NET	TRUCK	Destination	Prepaid

BID OPENING DATE: 06/18/2009 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		650-38		\$46,532
<p>PLAYGROUND EQUIPMENT</p> <p>THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, THE WEST VIRGINIA DIVISION OF NATURAL RESOURCES IS SOLICITING BIDS FOR PLAYGROUND EQUIPMENT FOR WATTERS SMITH MEMORIAL STATE PARK PER THE ATTACHED SPECIFICATIONS.</p> <p>A MANDATORY PRE-BID WILL BE HELD 06/02/09 AT 10:00 AM AT THE PARK HEADQUARTERS. FAILURE TO ATTEND THE MANDATORY PRE-BID MEETING WILL RESULT IN BID DISQUALIFICATION. AN INDIVIDUAL MAY NOT REPRESENT MORE THAN ONE VENDOR AT THE MANDATORY PRE-BID MEETING.</p> <p>TECHNICAL QUESTIONS MUST BE SUBMITTED IN WRITING TO FRANK WHITTAKER IN THE PURCHASING DIVISION VIA FAX AT 304-558-4115 OR VIA EMAIL AT FRANK.M.WHITTAKER@WV.GOV. DEADLINE FOR TECHNICAL QUESTIONS IS 06/04/09 AT 3:00 PM ALL TECHNICAL QUESTIONS WILL BE ADDRESSED BY ADDENDUM AFTER THE DEADLINE.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THE STATE MAY DEEM THE CONTRACT NULL AND VOID, AND TERMINATE SUCH CONTRACT WITHOUT FURTHER ORDER.</p> <p>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</p>						

RECEIVED  
 2009 JUN 18 PM 12:01  
 WV PURCHASING DIVISION

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Thomas C. Inles</i>	TELEPHONE 304-744-6548	DATE 6-17-09
TITLE Regional Rep	FEIN 55-0776347	ADDRESS CHANGES TO BE NOTED ABOVE

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

**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."

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**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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**DNR209155**

PAGE  
**2**

ADDRESS CORRESPONDENCE TO ATTENTION OF:  
**FRANK WHITTAKER**  
**304-558-2316**

VENDOR

\*709054414      304 263 7857  
 TAYLOR SPORTS & RECREATION  
 PO BOX 1706  
 MARTINSBURG WV 25402

SHIP TO

DIVISION OF NATURAL RESOURCES  
 WATTERS SMITH MEM'L STATE PARK  
 ATTN: PARK SUPERINTENDENT  
 POST OFFICE BOX 296  
 LOST CREEK, WV 26385      745-3081

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
05/20/2009				

BID OPENING DATE: **06/18/2009**      BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>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.</p> <p style="text-align: center;">NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p style="text-align: center;">DEPARTMENT OF ADMINISTRATION          PURCHASING DIVISION          BUILDING 15          2019 WASHINGTON STREET, EAST          CHARLESTON, WV 25305-0130</p> <p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p> <p>BUYER:      44</p> <p>RFQ. NO.:      DNR209155</p> <p>BID OPENING DATE:      06/18/09</p> <p>BID OPENING TIME:      1:30 PM</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Thomas C. Miller</i>	PHONE 304-244-6548	DATE 6-17-09
TITLE	FEIN 55-0776347	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
DNR209155

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ADDRESS CORRESPONDENCE TO ATTENTION OF
FRANK WHITTAKER 304-558-2316

*709054414	304 263 7857
TAYLOR SPORTS & RECREATION	
PO BOX 1706	
MARTINSBURG WV	25402

DIVISION OF NATURAL RESOURCES	
WATTERS SMITH MEM'L STATE PARK	
ATTN: PARK SUPERINTENDENT	
POST OFFICE BOX 296	
LOST CREEK, WV	
26385	745-3081

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
05/20/2009				

BID OPENING DATE: 06/18/2009 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: <u>304-744-6545</u>						
CONTACT PERSON (PLEASE PRINT CLEARLY): <u>Thomas Nelson</u>						
***** THIS IS THE END OF RFQ DNR209155 ***** TOTAL:						<u>\$46,532</u>

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Thomas Nelson</i>	TELEPHONE 304-744-6548	DATE 6-16-09
TITLE	FEIN	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

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**DNR209155**

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ADDRESS CORRESPONDENCE TO ATTENTION OF  
**FRANK WHITTAKER**  
**304-558-2316**

\*709054414      304 263 7857  
**TAYLOR SPORTS & RECREATION**  
**PO BOX 1706**  
**MARTINSBURG WV 25402**

**DIVISION OF NATURAL RESOURCES**  
**WATTERS SMITH MEM'L STATE PARK**  
**ATTN: PARK SUPERINTENDENT**  
**POST OFFICE BOX 296**  
**LOST CREEK, WV**  
**26385      745-3081**

DATE PRINTED	TERMS OF SALE	SHIP VIA	EQB	FREIGHT TERMS
05/28/2009				
BID OPENING DATE: 06/18/2009		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
***** ADDENDUM NO. 1 *****						
THIS ADDENDUM IS ISSUED TO CHANGE THE MANDATORY PRE-BID DATE AND TIME FROM: 06/02/09 AT 10:00 AM TO: 06/03/09 AT 10:00 AM						
0001	1	LS		650-38		
PLAYGROUND EQUIPMENT (NOT OTHERWISE CLASSIFIED)						
***** THIS IS THE END OF RFQ DNR209155 ***** TOTAL:						<u>\$46,532</u>

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE: *Thomas C. Hill*      TELEPHONE: **504-744-6548**      DATE: **6-18-09**

TITLE: \_\_\_\_\_      FEIN: \_\_\_\_\_      ADDRESS CHANGES TO BE NOTED ABOVE

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

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: Taylor Sports & Recreation  
Authorized Signature: Thomas C. Nelson Date: 6-18-09

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: Taylor Sports + Recreation signed: Thomas C. Nelson
Date: 6-17-09 Title: Regional Rep

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



State of West Virginia  
DRUG FREE WORKPLACE CONFORMANCE AFFIDAVIT  
West Virginia Code §21-1D-5

STATE OF WEST VIRGINIA

COUNTY OF KANAWHA, TO-WIT:

I, Thomas C Nelson after being first duly sworn, depose and state as follows:

- 1. I am an employee of Taylor Sports + Recreation and,  
(Company Name)
- 2. I do hereby attest that Taylor Sports + Recreation  
(Company Name)

maintains a valid written drug free workplace policy and that such policy is in compliance with **West Virginia Code** §21-1D-5.

The above statements are sworn to under the penalty of perjury.

Taylor Sports + Recreation  
(Company Name)

By: Thomas C. Nelson

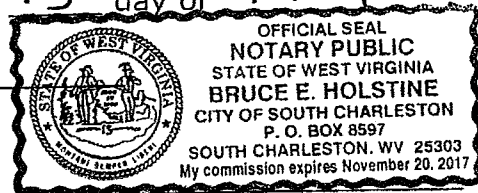
Title: Recreation Rep

Date: 5-13-2009

Taken, subscribed and sworn to before me this 13 day of May

By Commission expires 2017

(Seal)



(Notary Public)

**THIS AFFIDAVIT MUST BE SUBMITTED WITH THE BID IN ORDER TO COMPLY WITH WV CODE PROVISIONS. FAILURE TO INCLUDE THE AFFIDAVIT WITH THE BID SHALL RESULT IN DISQUALIFICATION OF THE BID.**



Watters Smith 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, or equal." 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	<b>AREA 1-ACTIVITIES BUILDING AREA</b> , PrimeTime mix it up play structure, Item #G11813, or equal. Structure must include the following components:	<i>MIRACLE</i>	
2	<b>AREA 1- ACTIVITIES BUILDING AREA</b> , One (1) PrimeTime driver's enclosure panel, Item #18391, or equal.	<i>MIRACLE</i>	
3	<b>AREA 1- ACTIVITIES BUILDING AREA</b> , One (1) PrimeTime toad stool climber, Item #12239, or equal.	<i>MIRACLE</i>	
4	<b>AREA 1- ACTIVITIES BUILDING AREA</b> , One (1) PrimeTime triangle transfer platform, Item #18337, or equal.	<i>MIRACLE</i>	
5	<b>Area 1 - ACTIVITIES BUILDING AREA</b> , One (1) PrimeTime square stepped deck, or equal.	<i>MIRACLE</i>	

Watters Smith State Park

**PLAYGROUND EQUIPMENT SHEET**

Item No	Equipment	Manufacturer	Model
6	Area 1 - ACTIVITIES BUILDING AREA, One (1) PrimeTime gizmo single panel, Item #12964, or equal. Panel must include a click wheel gizmo, Item #4839, or equal.	<i>Miracle</i>	
7	Area 1 - ACTIVITIES BUILDING AREA, One (1) PrimeTime nature panel, Item #12429, or equal.	↓	
8	Area 1 - ACTIVITIES BUILDING AREA One (1) PrimeTime rumble and roll zip slide, Item #18389, or equal.		
9	Area 1 - ACTIVITIES BUILDING AREA, One (1) PrimeTime stepped platform, Item #18259, or equal.		
10	Area 1 - ACTIVITIES BUILDING AREA, One (1) PrimeTime giant wave climber, Item #18383, or equal.		
11	Area 1 - ACTIVITIES BUILDING AREA One (1) PrimeTime slate roof, Item #18672, or equal.		
12	Area 1 - ACTIVITIES BUILDING AREA, One (1) PrimeTime F5 spiral slide with hood, Item #18316, or equal.		↓

Watters Smith State Park  
**PLAYGROUND EQUIPMENT SHEET**

Item No	Equipment	Manufacturer	Model
13	Area 1 - ACTIVITIES BUILDING AREA, One (1) PrimeTime rock wall climber, Item #12922, or equal.	<i>MIRACLE</i>	
14	Area 1 - ACTIVITIES BUILDING AREA, One (1) PrimeTime rectangle deck, or equal.	↓	
15	Area 1 - ACTIVITIES BUILDING AREA, One (1) PrimeTime square deck, or equal.		
16	Area 1 - ACTIVITIES BUILDING AREA, One (1) PrimeTime Model 12583 Swing Frame, 3 1/2" OD, or equal.		
17	Area 1- Activities Building Area, One (1) PrimeTime add-a-bay swing, Item #12584, or equal.		
18	Area 1- Activities Building Area, Two (2) PrimeTime Model 8696 3 1/2" OD Enclosed Tot Seat with two (2) Galv Chains, or equal.		
19	Area 1- Activities Building Area, Two (2) PrimeTime Item #8906 3 1/2" Super Seats with two (2) Galv Chains, or equal.	<i>chiloworks</i>	<i>S-17</i>

Watters Smith State Park

**PLAYGROUND EQUIPMENT SHEET**

Item No	Equipment	Manufacturer	Model
20	<p>AREA 2-PIONEER PICNIC AREA, PrimeTime playground structure Model #RDU PrimeTime Modular unit, or equal. The structure must include the following components:</p>	<p><i>MIRACLE</i></p>	
21	<p>Area 2- PIONEER PICNIC AREA, One (1) PrimeTime Item #12004 Tic-Tac-Toe Panel, or equal.</p>		
22	<p>Area 2 -PIONEER PICNIC AREA, PrimeTime Model G12023 3 1/2" Uprt Ass'Y Galv 8', or equal.</p>		
23	<p>Area 2- PIONEER PICNIC AREA, PrimeTime Model G12024 3 1/2" Uprt Ass'Y Galv 9', or equal.</p>		
24	<p>Area 2 -PIONEER PICNIC AREA, PrimeTime Model G12026 3 1/2" Uprt Ass'Y Galv 11', or equal.</p>		
25	<p>Area 2- PIONEER PICNIC AREA, PrimeTime Model G12027 3 1/2" Uprt Ass'Y Galv 12', or equal.</p>		
26	<p>Area 2- PIONEER PICNIC AREA, One (1) PrimeTime Model 12201 Single Chin Bar, or equal.</p>		
27	<p>Area 2- PIONEER PICNIC AREA, One (1) PrimeTime Model 12239 Toad Stool Climber, or equal.</p>	<p><i>↓</i></p>	

Watters Smith State Park

PLAYGROUND EQUIPMENT SHEET

Item No	Equipment	Manufacturer	Model
28	Area 2- PIONEER PICNIC AREA, One (1) PrimeTime Model 12411 Rung Enclosure Barrier ,or equal.	<i>MIRAGE</i>	
29	Area 2- PIONEER PICNIC AREA, One (1) PrimeTime Model 12432 Barrier W/Steering Wheel, or equal.	↓	
30	Area 2- PIONEER PICNIC AREA, One (1) PrimeTime Model 12728 Single Seat P/T, or equal.		
31	Area 2- PIONEER PICNIC AREA, One (1) PrimeTime Model 12926 4'-6"/5' Bubble Climber, or equal.		
32	Area 2- PIONEER PICNIC AREA, PrimeTime Model 18200 36" Sq Punched Deck P/T 1.3125, or equal.		
33	Area 2- PIONEER PICNIC AREA, PrimeTime Model 18202 Rect Punched Deck P/T, or equal.		
34	Area 2- PIONEER PICNIC AREA, PrimeTime Model 18259 2'-0" Step Link 36" Deck, or equal.		
35	Area 2- PIONEER PICNIC AREA, One (1) PrimeTime Model 18315 6' F5 Spiral Slide, or equal.		
36	Area 2- PIONEER PICNIC AREA, PrimeTime Model 18337 36" Tri Transfer Platform, or equal.		↓

## Watters Smith State Park

## PLAYGROUND EQUIPMENT SHEET

Item No	Equipment	Manufacturer	Model
37	Area 2- PIONEER PICNIC AREA, One (1) PrimeTime Model 18389 3' Rumble & Roll Zip Slide, or equal.	<i>MIRADE</i>	
38	Area 2- PIONEER PICNIC AREA, PrimeTime Model G12022 3 1/2" Uprt Ass'Y Galv 7', or equal.	↓	
39	Area 2 PIONEER PICNIC AREA, PrimeTime Model G12026 3 1/2" Uprt Ass'Y Galv 11', or equal.		
40	Area 2- Pioneer Picnic Area, One (1) PrimeTime Model 12583 Prime Time Swing Frame, 3 1/2" OD, or equal.		
41	Area 2- Pioneer Picnic Area, One (1) PrimeTime Model 12584 Swing Add-A-Bay, 3 1/2" OD, or equal.		
42	Area 2- Pioneer Picnic Area, Two (2) PrimeTime Model 8696 3 1/2" Enclosed Tot-Galv Chain, or equal.		
43	Area 2 - Pioneer Picnic Area, Two (2) PrimeTime Model 8906 3 1/2" Super Seats with two (2) Galv Chains ,or equal.	<i>Chilo works</i>	<i>S-17</i>
44	Area 2 - Pioneer Picnic Area, PrimeTime Freestanding Mini Sky Runner, Model 6202, or equal.	<i>MIRADE</i>	

Watters Smith State Park  
**PLAYGROUND EQUIPMENT SHEET**

Item No	Equipment	Manufacturer	Model
45	Area 3- OAK RIDGE PICNIC AREA, PrimeTime playground structure Model #11752 PrimeTime Recess Time 2 W/Roof, or equal. The structure must include the following components:	<i>M. Mader</i>	
46	Area 3- OAK RIDGE PICNIC AREA, PrimeTime 3 1/2 OD Uprights, or equal.		
47	Area 3- OAK RIDGE PICNIC AREA, Four (4) PrimeTime Decks, or equal.		
48	Area 3- OAK RIDGE PICNIC AREA, One (1) PrimeTime Zip Slide, or equal.		
49	Area 3- OAK RIDGE PICNIC AREA, One (1) PrimeTime Wave Zip Slide, or equal.		
50	Area 3- OAK RIDGE PICNIC AREA, One (1) PrimeTime 4' Arch Bridge with Barriers, or equal.		
51	Area 3- OAK RIDGE PICNIC AREA, One (1) PrimeTime Transfer Platform, or equal.		
52	Area 3- OAK RIDGE PICNIC AREA, One (1) PrimeTime Access Attachment, or equal.		
53	Area 3- OAK RIDGE PICNIC AREA- One (1) PrimeTime Overhead Tree Climber, or equal.		

Watters Smith State Park  
**PLAYGROUND EQUIPMENT SHEET**

Item No	Equipment	Manufacturer	Model
54	Area 3- OAK RIDGE PICNIC AREA, One (1) PrimeTime Therapeutic Rings, or equal.		
55	Area 3- OAK RIDGE PICNIC AREA, One (1) PrimeTime D Ring Package , or equal.		
56	Area 3- OAK RIDGE PICNIC AREA, One (1) PrimeTime Zipper Climber , or equal.		
57	Area 3- OAK RIDGE PICNIC AREA, One (1)PrimeTime Arch Climber , or equal.		
58	Area 3- OAK RIDGE PICNIC AREA, One (1) PrimeTime Tic-Tac-Toe Panel , or equal.		
59	Area 3- OAK RIDGE PICNIC AREA, PrimeTime 6" Barrier, or equal.		
60	Area 3- OAK RIDGE PICNIC AREA, PrimeTime BarrierEnclosure with Steering Wheel, or equal.		
61	Area 3- OAK RIDGE PICNIC AREA, One (1) PrimeTime Model 12583 Swing Frame, 3 1/2" OD, or equal.		
62	Area 3- OAK RIDGE PICNIC AREA, One (1) PrimeTime Model 12584 Add-A-Bay Swing , 3 1/2" OD, or equal.		
63	Area 3- OAK RIDGE PICNIC AREA, Two (2) PrimeTime Model 8696 3 1/2" Enclosed Tot-Galv Chain, or equal.		
64	Area 3- OAK RIDGE PICNIC AREA, Two (2) PrimeTime Model 8906 3 1/2" Super Seat 2-Galv Chain, or equal.	<i>Chulo works</i>	<i>S-17</i>



## Watters Smith State Park

## PLAYGROUND EQUIPMENT SHEET

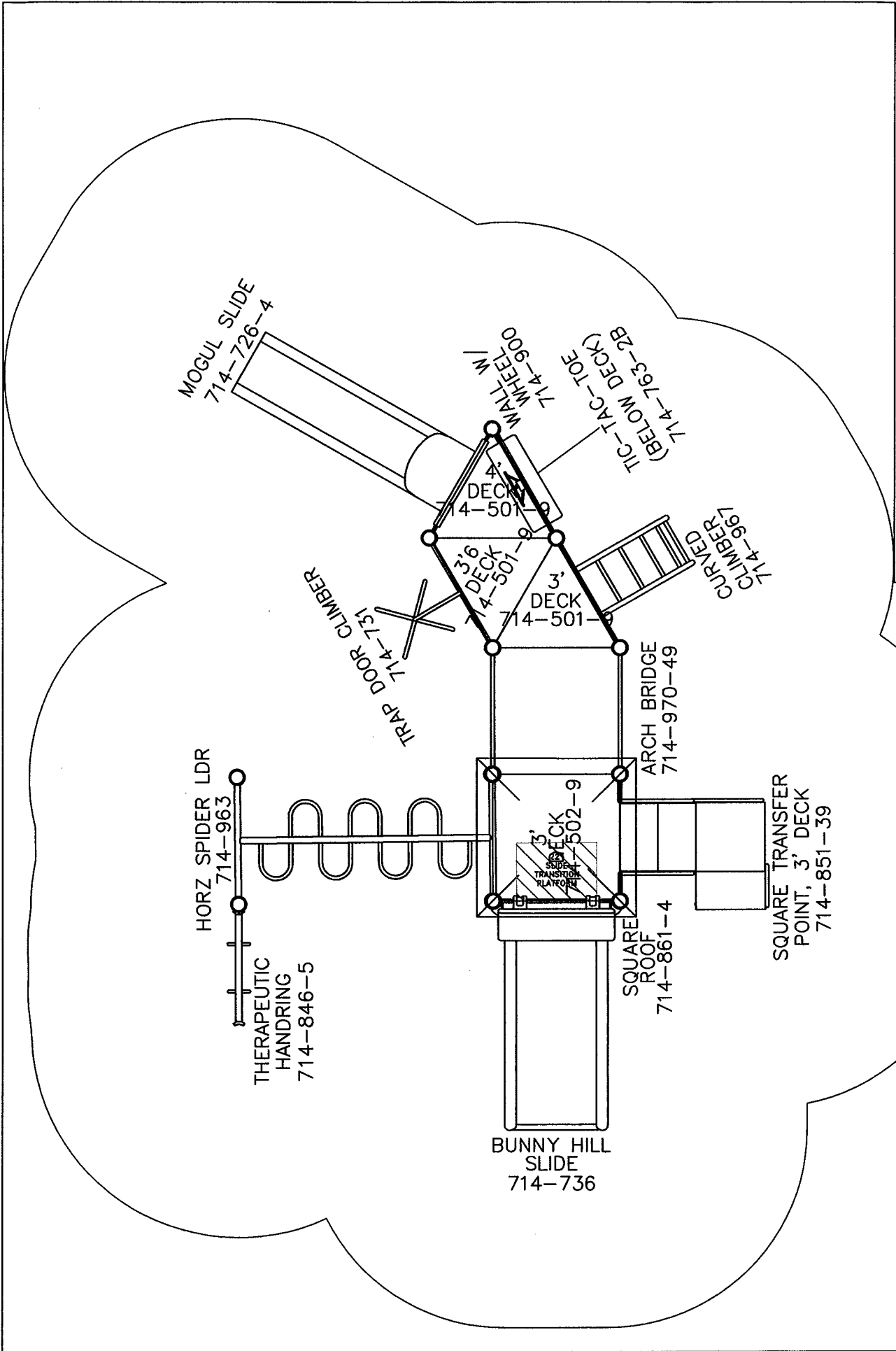
Item No	Equipment	Manufacturer	Model
65	2056 Square Feet of Engineered Wood Fiber for all three playgrounds @ 8" compacted depth, or equal	ZEA6ER	WOOD CARPET
66	Geo-textile fabric for all Three Playgrounds, 2,250 sq. ft., roll, or equal.	ZEA6ER	Geo textile FABRIC

PRICING SHEET


Item No.	Quantity	Description	Unit Price	Amount
1	1	Area 1- Activities Building Area, PrimeTime playground structure and components for Activity Building Area- Model #G11813 PrimeTime Mix It Up modular unit, or equal.	<i>TCN</i> 11,885	<i>TCN</i> 11,885
2	1	Area 1 - Activities Building Area, PrimeTime swing frame, model 12583, or equal.	}	1,795
3	1	Area 1- Activities Building Area, PrimeTime swing add-a-bay, Item #12584, or equal.		
4	2	Area 1 - Activities Building Area, PrimeTime tot seat package 3 1/2 inch OD, Item #8696, or equal.	84	168
5	2	Area 1- Activities Building Area, PrimeTime super seat 3 1/2 OD, Model 8906, or equal.	80	160
6	1	Area 2- Pioneer Picnic Area, PrimeTime playground structure and components for Pioneer Picnic Area PrimeTime Modular Unit Model#RDU, or equal.		9,361
7	1	Area 2 - Pioneer Picnic Area, PrimeTime swing frame, model 12583, or equal.	}	1795
8	1	Area 2- Pioneer Picnic Area, PrimeTime swing add-a-bay, Item #12584, or equal.		
9	2	Area 2 - Pioneer Picnic Area, PrimeTime tot seat package 3 1/2 inch OD, Item #8696, or equal.	84	168

## PRICING SHEET

Item No.	Quantity	Description	Unit Price	Amount
10	2	Area 2- Pioneer Picnic Area, PrimeTime super seat 3 ½ OD, Model 8906, or equal.	80	160
11	1	Area 2 - Pioneer Picnic Area,- PrimeTime Freestanding Mini Sky Runner, Model 6202, or		1265
12	1	Area 3- Oak Ridge Picnic Area, PrimeTime playground structure and components, Model#11752 PrimeTime Recess Time-2 W/Roof, or equal.		<del>700</del> 8661
13	1	Area 3 - Oak Ridge Picnic Area PrimeTime swing frame, model 12583, or equal.	}	1795
14	1	Area 3- Oak Ridge Picnic Area, PrimeTime add-a-bay swing, Item #12584, or equal.		
15	2	Area 3 - Oak Ridge Picnic Area, PrimeTime tot seat package 3 1/2 inch OD, Item #8696, or equal.	84	168
16	2	Area 3- Oak Ridge Picnic Area, PrimeTime super seat 3 ½ OD, Model 8906, or equal.	80	160
17	3 Rolls	Geo-textile fabric, 2,250 Sq. Ft. roll, or equal. 3' x 600' each	4 ROLLS #305 <sup>00</sup>	1220 <sup>00</sup>
18	6,447 Square Ft.	Engineered wood fiber or equal @ 8" compacted depth.	#11.00 CV 40	3,300
		<b>TOTAL</b>		<b>\$42,061</b>



**FOR KIDS AGES 5-12 YEARS**



**Taylor Sports and Recreation**

Po Box 1706  
Martinsburg WV 25402

PHONE NO. 1-800-286-9693  
FAX NO. 1-304-263-9392

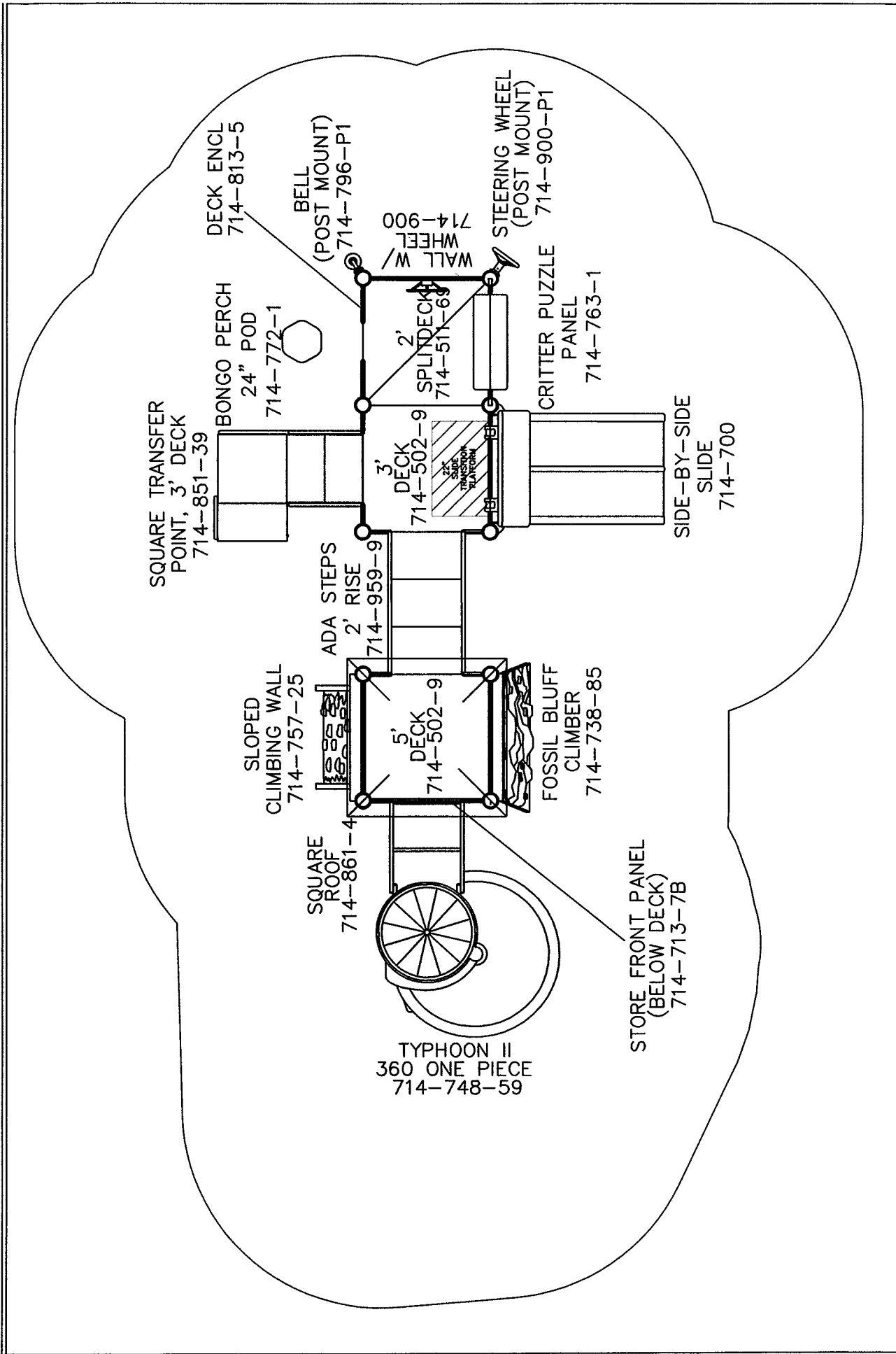
DRAWN BY Melinda  
DATE 06/10/2009

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Walters Smith Memorial State Park  
**Lost Creek WV**  
Oak Ridge Picnic Area  
DNR209155

GROUND SPACE NA  
PROTECTIVE AREA 38'3 X 30'2  
SCALE NA

714-726-4  
714-900  
714-163-2B  
714-967  
714-131  
714-501-9  
714-501-9  
714-970-49  
714-861-4  
714-851-39  
714-736  
714-846-5  
714-963  
714-502-9  
714-131  
714-967  
714-501-9  
714-501-9  
714-163-2B  
714-900  
714-726-4



**Taylor Sports and Recreation**

Watters Smith Memorial State Park  
**Lost Creek WV**  
*Activities Bldg*

Po Box 1706  
 Martinsburg WV 25402

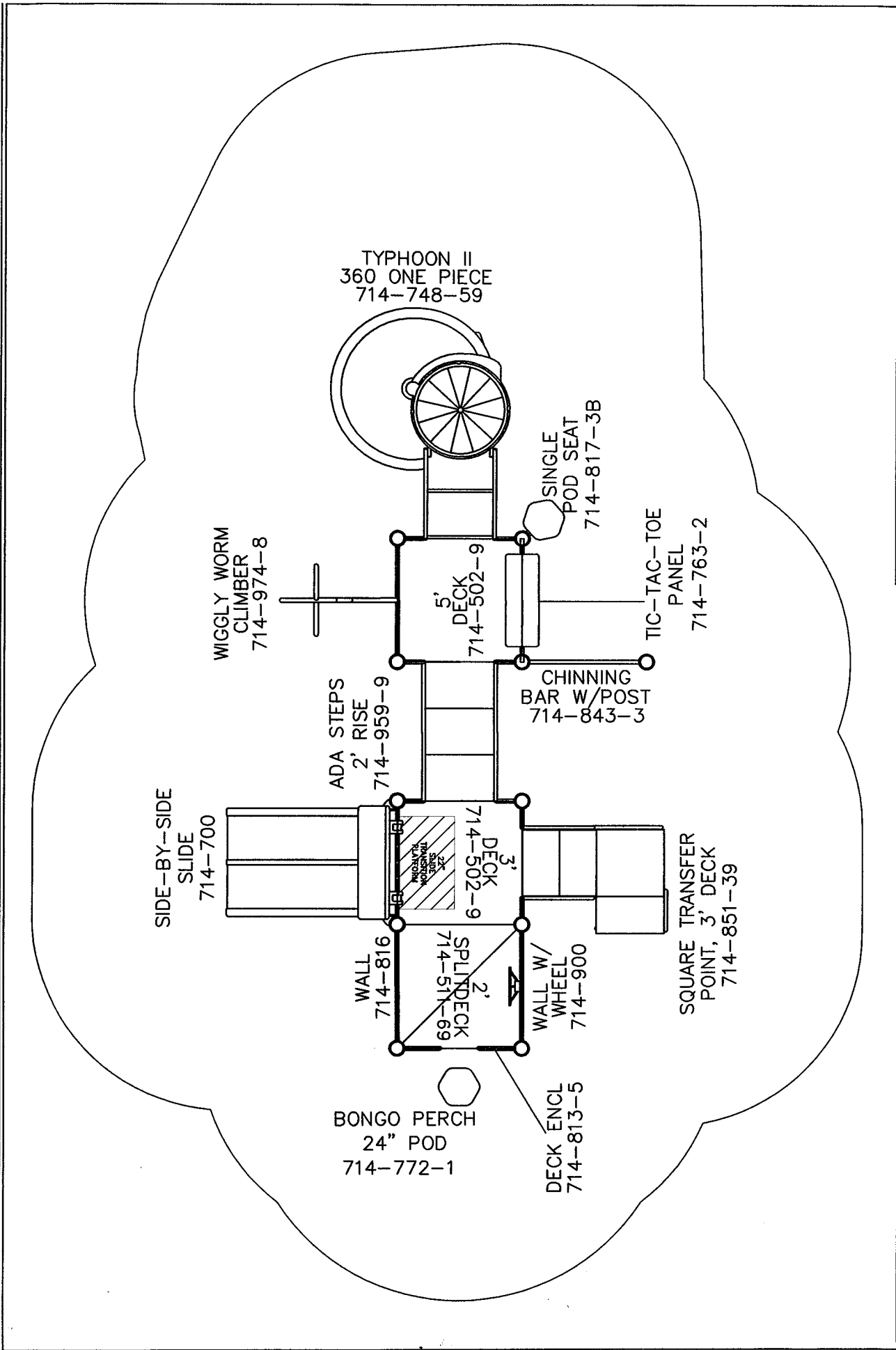
PHONE NO. 1-800-286-6663  
 FAX NO. 1-304-263-9392


GROUND SPACE NA  
 PROTECTIVE AREA 39'8 X 26'  
 SCALE NA

DRAWN BY Melinda  
 DATE 03/10/2009

**FOR KIDS AGES 5-12 YEARS**

**MIRACLE**  
 RECREATION EQUIPMENT COMPANY



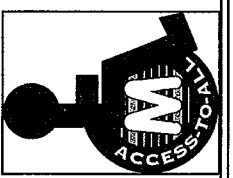
Watters Smith Memorial State Park <b>Lost Creek WW</b> Pioneer Area Picnic Area DNR 209155		<b>Taylor Sports and Recreation</b>	
GROUND SPACE	NA	Po Box 1706 Martinsburg WV 25402	
PROTECTIVE AREA	40'6" X 26'7"	PHONE NO. 1-800-286-9693 FAX NO. 1-304-263-9392	
SCALE	NA	DRAWN BY Meindca	DATE 06/10/2009

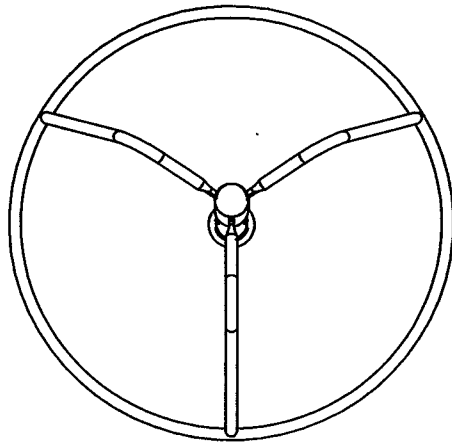
**FOR KIDS**

**AGES**

**5-12**

**YEARS**





MAYPOLE  
753

FOR KIDS  
**AGES**  
**5-12**  
YEARS



Watters Smith Memorial State Park  
**Lost Creek WV**  
Pioneer Picnic Area  
DNR209155

GROUND SPACE NA  
PROTECTIVE AREA 18'6 X 18'  
SCALE NA

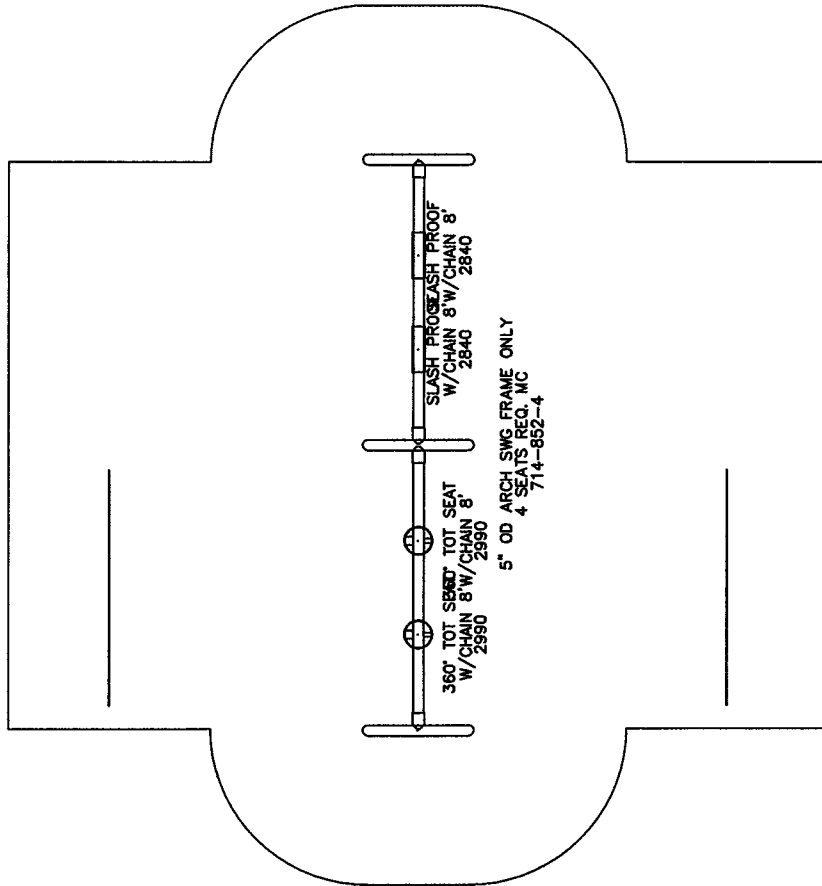
**Taylor Sports and Recreation**

Po Box 1706  
Martinsburg WV 25402

PHONE NO. 1-800-286-9683  
FAX NO. 1-304-263-8392

DRAWN BY Melinda  
DATE 06/10/2009







# IPEMA Certificate of Compliance



# CERTIFICATE

ISSUE DATE: 6/18/2009

Watters Smith Memorial St Pk

In the interest of public playground safety, IPEMA provides a third-party certification service whereby Detroit Testing Laboratory, Inc. validates a manufacturer's certification of conformance to the ASTM F1487-07 (excluding sections 7.1.1, 10 and 12.6.1) Standard Consumer Safety Performance Specification for Playground Equipment for Public Use.

The manufacturer listed below has received written validation from Detroit Testing Laboratory, Inc. that the products listed below conform with the requirements of ASTM F1487-07 (excluding sections 7.1.1, 10 and 12.6.1).

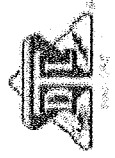
**Manufacturer**  
Miracle Recreation  
P.O. Box 420,  
Monett, MO 65708

<u>PRODUCT #</u>	<u>PRODUCT LINE</u>	<u>DESCRIPTION</u>
714-501-9	Kids' Choice	TRIANGLE DECK (3 POSTS) M'THERM II
714-502-9	Kids' Choice	DECK SQUARE (4 POSTS) M'THERM II
714-511-69	Kids' Choice	SPLIT DECK, 6" RISE, M'THERM II
714-551-3	Kids' Choice	POST 5" O.D. X 106" (2'6" DECKS OR LESS) 13 GAGE POSTS
714-552-3	Kids' Choice	POST 5" O.D. X 136" (3' TO 5' DECKS) 13 GAGE POSTS



# IPEMA Certificate of Compliance

<u>PRODUCT #</u>	<u>PRODUCT LINE</u>	<u>DESCRIPTION</u>
714-573-3	Kids' Choice	POST 5" O.D. X 168", FOR ROOF (3'6" TO 5' DECK S) 13 GAGE POSTS 5' SIDE BY SIDE SLIDE W/CANOPY (3' DECK)
714-700	Kids' Choice	Store Front Panel (Below Deck Only)
714-713-7B	Kids' Choice	Mogul Slide (4' Deck)
714-726-4	Kids' Choice	TRAP DOOR CLIMBER (3' & 5' DECK)
714-731	Kids' Choice	Bunny Hill Slide w/Canopy (3' Deck)
714-736	Kids' Choice	FOSSIL BLUFF CLIMBER (5' OCTAGON DECK)
714-738-85	Kids' Choice	TYPHOON II SLIDE 360 DEG (5' DECK), MTHERMII
714-748-59	Kids' Choice	SLOPED CLIMBING WALL (4' OR 5' DECK)
714-757-25	Kids' Choice	CRITTER PUZZLE PANEL
714-763-1	Kids' Choice	TIC-TAC-TOE PANEL
714-763-2	Kids' Choice	TIC-TAC-TOE PANEL (BELOW DECK)
714-763-2B	Kids' Choice	BONGO PERCH (STATIONARY)
714-772-1	Kids' Choice	BELL, POST MOUNT
714-796-P1	Kids' Choice	Deck Enclosure
714-813-5	Kids' Choice	Enclosure Wall
714-816	Kids' Choice	SINGLE POD SEAT
714-817-3B	Kids' Choice	CHINNING BAR W/POST, 13 GAGE POSTS
714-843-3	Kids' Choice	THERAPEUTIC HANDRINGS
714-846-5	Kids' Choice	SQUARE TRANSFER POINT (3' DECK)
714-851-39	Kids' Choice	SQUARE ROOF
714-861-4	Kids' Choice	



# IPEMA Certificate of Compliance

<u>PRODUCT #</u>	<u>PRODUCT LINE</u>	<u>DESCRIPTION</u>
714-900	Kids' Choice	Wall With Steering Wheel
714-900-PI	Kids' Choice	STEERING WHEEL (POST MOUNT)
714-959-9	Kids' Choice	STEPS BETWEEN DECKS ADA (2' RISE) OPEN HANDRAIL M'THERM II
714-963	Kids' Choice	Horizontal Spider Ladder w/End Climber
714-967	Kids' Choice	Curved Climber (3' Deck)
714-970-49	Kids' Choice	4' ARCH BRIDGE BETWEEN DECKS, M'THERM II
714-974-8	Kids' Choice	WIGGLY WORM CLIMBER (5', 6' 6" OR 8' DECK)





# CERTIFICATE

ISSUE DATE: 6/18/2009

Watters Smith Memorial St Pk

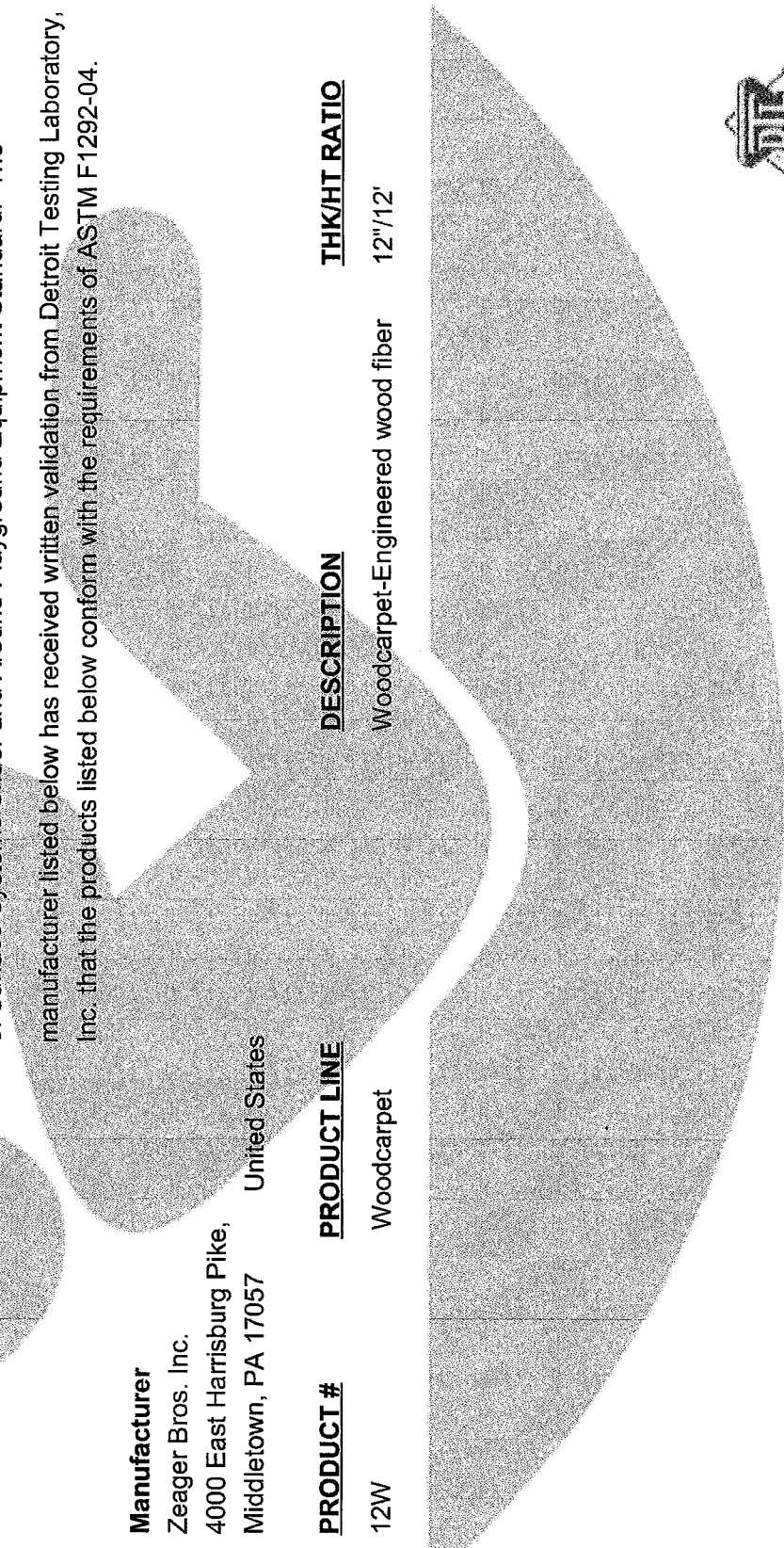
In the interest of public playground safety, IPEMA provides a third-party certification service whereby Detroit Testing Laboratory, Inc. validates a manufacturer's certification of conformance to the ASTM F1292-04, Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment Standard. The

manufacturer listed below has received written validation from Detroit Testing Laboratory, Inc. that the products listed below conform with the requirements of ASTM F1292-04.

**Manufacturer**  
Zeager Bros. Inc.  
4000 East Harrisburg Pike,  
Middletown, PA 17057  
United States

**PRODUCT #**  
12W  
**PRODUCT LINE**  
Woodcarpet

**DESCRIPTION**  
Woodcarpet-Engineered wood fiber  
**THK/HT RATIO**  
12"/12'



## • GENERAL SPECIFICATIONS

**SAFETY STANDARDS & GUIDELINES** All public playground equipment supplied shall meet all applicable provisions of the current "Handbook for Public Playground Safety" published by the Consumer Product Safety Commission (CPSC), and of ASTM F1487-01 "Standard Consumer Safety Performance Specification for Playground Equipment for Public Use," published by the American Society for Testing and Materials (ASTM). Products bearing the certification seal of the International Play Equipment Manufacturers Association (IPEMA) have received written validation of compliance with ASTM F1487-01.

**TRADEMARKS** Miracle (R), Miracle Recreation (R), Kids' Choice (R), Tots' Choice (R), Tots' Choice(R) Expansion, Center Stage (R), Toddlers' Choice (R), Spray Stations (R), Hang-A-Round (R), Fun Tunnel (R), Versalok (R), Rock-It (R), Flippopotamus (R), Dupli-Gator (R), Play Terrain (R), Boulder Ridge (R), Playcover (R), Webscapes (R), Libra (R), Pegasus (R), Aquarius (R), Gemini (TM), Perseus (TM), Nexus (R), Bug Bites (R), Connexion (TM), Kidrox (R), Mt. Hood (TM), Mt. Rainier (TM), Mt. Kilimanjaro (TM), Gator Grip (R), Mega Tower (R), Observation Deck (R), Big Timber (R), Tensile Tough (TM), Tensile Tower (TM), Wavy Waffle Wall Walker (TM), X-Cavator (TM), Power Pedaler (TM), Bongo (TM), Flippo (TM), Big Kahuna (R), Camel Back (TM), Mogul (TM), Groove (TM), Toboggan (TM), Typhoon (TM), Chameleon (TM), Whirlwind (TM), Funnel Tunnel (TM), Thunder Tunnel (TM), Serpent Trek (TM), Triple Play (TM), Kids' Perch (TM), View Groove (TM), Fun Fone (TM), Rodeo Rocky (TM), Schnozz Womp (TM), Offspring (TM), Rainbow Bend (TM), Funshades (TM), Sneak-A-View (TM), Mira-Cote (R), Mira-Therm (TM), Mira-Lam (TM), Mira-Lene (TM), OrbX (R), Sun Sparkle (TM), Trim Timber (R), XCalator (TM), and Perma-Guard (TM) are trademarks of Miracle Recreation Equipment Company. Tornado (TM), Multi-Pondo (TM), and Pirouette (TM) are trademarks of HAGS (TM). Miracle and HAGS are divisions of PlayPower, Inc. PlayPower (R) is a trademark of PlayPower, Inc.

**QUALITY SYSTEM CERTIFICATION** The manufacturer's quality system is certified to ISO 9001 since December 1998.

**PRODUCT CHANGES** At Miracle Recreation Equipment Company, we strive for the utmost in quality and safety in our entire product line. Therefore, in order to honor this commitment to you, our customers, we reserve the right to make changes on any product released and/or published in our annual catalog and other promotional or technical literature.

## WARRANTY

Buyer agrees that products sold by Miracle Recreation Equipment Company carry only the following warranties:

- LIMITED ONE HUNDRED (100) YEAR WARRANTY** on aluminum deck posts, steel deck posts, the VersaLok(R) fastening system, and associated fastening hardware against structural failure due to weather corrosion or defects in materials or workmanship.
- LIMITED FIFTEEN (15) YEAR WARRANTY** on steel support legs and Mira-Therm (TM) 2 on MEGA TOWER (R), TOTS' CHOICE (R), Nexus (TM), KIDS' CHOICE (R), CENTER STAGE (R), and Boulder Ridge (R) Rock Wall against structural failure due to weather corrosion or defects in materials or workmanship.
- LIMITED FIFTEEN (15) YEAR WARRANTY** on playsystem steel components including railings, rungs, and rigid climbers against structural failure due to defects in materials or workmanship.
- LIMITED FIFTEEN (15) YEAR WARRANTY** on Rock-It (R) against structural failure due to defects in materials or workmanship.
- LIMITED TEN (10) YEAR WARRANTY** on all Play Cover (R) steel frames against failure due to weather corrosion or defects in materials or workmanship.
- LIMITED TEN (10) YEAR WARRANTY** on Play Terrain (R) Rubber Mulch against total color loss and on the attenuation performance and appearance of Play Terrain (R) Synthetic Turf safety surfacing. Please contact your local representative for more information.
- LIMITED FIVE (5) YEAR WARRANTY** on all Play Cover (R) fabric due to rot, UV deterioration (shades of red carry LIMITED THREE (3) YEAR WARRANTY), or defects in materials or workmanship.
- LIMITED FIVE (5) YEAR WARRANTY** on Kidrox (R) Climbing Rocks against structural failure due to defects in materials or workmanship.
- LIMITED FIVE (5) YEAR WARRANTY** on all Webscapes (R) Net Climbers against degradation of design loading capabilities and LIMITED ONE (1) YEAR WARRANTY against defects in materials or workmanship.
- LIMITED THREE (3) YEAR WARRANTY** on Slashproof Seats, Trim Timbers (TM), and 360° Bucket Tot Seats for Swings against structural failure due to defects in materials or workmanship.
- LIMITED ONE (1) YEAR WARRANTY** against structural failure due to defects in materials or workmanship on the following products and components: TODDLERS' CHOICE (R) main support materials and decks; all pool slide support structures, stairways, landings, and railings; bleachers; and all products and components not specifically listed above, including, without limitation, all moving parts and flexible climbers.

12. **LIMITED SIX (6) MONTH WARRANTY** on sewn fabric components on Early Childhood products against failure due to defects in materials or workmanship.

13. These limited warranties do not protect against color fade (except for Play Cover (R), as noted above), or damage due to excessive wear and tear, vandalism, or negligence. These warranties are valid only if products are installed and maintained according to manufacturer's installation and maintenance instructions.

14. All warranties begin to run on the date of Miracle's invoice. Repaired or replacement part(s) are warranted only for the balance of the original limited warranty.

**BUYER'S REMEDY:** If any products prove to be defective or non-conforming under normal use and within the above-prescribed warranty periods, Buyer must promptly notify Miracle in writing at P.O. Box 420, Monett, MO 65708 USA. Miracle will within a reasonable time and in its sole discretion repair or replace such defective or non-conforming product by providing replacement products or part(s) free of charge to the site. Miracle's limited warranties do not cover the cost of labor to remove defective or non-conforming part(s) or to install repaired or replacement part(s).

These limited warranties apply only to Miracle products that are erected in conformance with Miracle's installation instructions and maintained and inspected in conformance with Miracle's maintenance and operational instructions. These limited warranties specifically do not cover Miracle products: that have been modified, altered, or misused; that have not been used as designed or intended to; to which non-Miracle parts have been added or substituted; or that have been damaged due to vandalism, abnormal use, or abuse. Buyer, by acceptance and use of these limited warranties, waives any rights it would otherwise have to claim or assert that this limited warranty fails of its essential purpose. Buyer agrees that venue for any court action to enforce these limited warranties shall be in Barry or Greene Counties in the State of Missouri.

EXCEPT AS EXPRESSLY WARRANTED HEREIN, MIRACLE EXPRESSLY DISCLAIMS ANY OTHER WARRANTIES, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND THOSE ARISING BY STATUTE OR OTHERWISE IN LAW OR FROM COURSE OF DEALING OR USAGE OF TRADE. IN NO EVENT SHALL MIRACLE BE LIABLE FOR ANY SPECIAL, INCIDENTAL, PUNITIVE OR CONSEQUENTIAL DAMAGES, WHETHER BASED UPON CONTRACT, TORT, OR ANY OTHER LEGAL THEORY (INCLUDING WITHOUT LIMITATION, DAMAGES FOR LOSS OF PROFITS, BUSINESS INTERRUPTION, LOSS OF INFORMATION, CONSEQUENTIAL, INCIDENTAL, INDIRECT OR SPECIAL DAMAGES OR OTHER PECUNIARY LOSS).

*Consult Miracle's "Glossary of Technical Data for Materials, Processes and Finishes"  
for specifications of items listed in bold type.*

- **KIDS' CHOICE MIRA-THERM II DECKS:** The deck models in the 714-50X-9 series shall consist of a (3) sided equilateral triangle deck: Model # 714-501-9, with a deck top surface area of 7 sq. ft. (1008 sq. in.); a (4) sided square deck: Model # 714-502-9, with a deck top surface area of 16 sq. ft. (2304 sq. in.); (4) sided (3) opening half hex decks: Model #s 714-503-9 and 714-504-9, with a deck top surface area of 21 sq. ft. (3024 sq. in.); (4) sided (6) opening rectangular decks: Model #s 714-508-9, 714-509-9 and 714-510-9, with a deck top surface area of 32 sq. ft. (4608 sq. in.); a (5) sided pentagon deck: Model # 714-512-9, with a deck top surface area of 23.8 sq. ft. (3427 sq. in.); an (8) sided octagon deck: Model # 714-519-9, with a deck top surface area of 60 sq. ft. (8640 sq. in.); (4) sided (6) opening parallelogram decks: Model #s 714-505-9, 714-506-9 and 714-507-9, with a deck top surface area of 28 sq. ft. (4032 sq. in.); and a (7) sided heptagon deck: Model # 714-517-9, with a deck top surface area of 55 sq. ft. (7,920 sq. in.).

Model # 714-511-9 shall be an isosceles triangle split deck (single section) designed to serve as a step platform for lower deck heights: 18" or lower for 2-5 year olds, and 30" or lower for 5-12 year olds. All other Model # 714-511-X9 split decks shall feature two triangular deck sections which shall be mounted between four posts at different heights so that a 6", 12", 18", or 24" (X) rise shall be formed along the hypotenuse between two posts. Models which rise greater than 6" shall contain a riser plate; models which rise greater than 12" shall also contain an arched enclosure assembly. The deck top surface area of split deck models shall be 8 sq. ft. each for both sections, or total 16 sq. ft. Riser plates shall be constructed of 11 ga. **A-60 Galvanized** sheet; risers for 18" and 24" rises shall contain a rung and vertical supports of **1" tube**, solid **welded**, all finished in **Mira-Cote**. The arch enclosure assembly accompanying models which rise 18" and 24" shall comprise top and bottom supports and an arched upright constructed of **1" pipe**, drilled, formed and mashed, all solid **welded**, and vertical rungs of **1" tube**, with **plastic pipe plugs** inserted in open ends, and finished in **Mira-Cote**.

Decks shall be designed for maximum flexibility in height of deck surface, from 0" to 6'-6" (in 6" increments,) though 3', 5' and 6'-6" shall be considered standard heights. Decks shall be designed on a 48" center-to-center spacing on 5" deck posts, at equal or varied heights. All deck-to-post connections shall be made with a deck support clamp. All deck connections shall be made beneath deck with no exposed fasteners on deck perimeter. Decks with 8' wide open side shall be designed to attach to another deck with 8' wide open side at same deck height, or to a Model # 714-770-6 Flipopotamus Slide/Climber.

All decks shall be constructed with folded 11 ga. steel sheet forming 3" tall sides. Decking sheets shall be perforated with a staggered pattern of 3/8" diameter holes at 5/8" apart center-to-center. The decking shall have 7 ga. by 2" flat steel braces and corner braces of 7 ga. steel. The entire assembly shall be solid **welded** prior to PVC coating. Each assembly shall contain **Versalok Fasteners** and **Fastener Style A** hardware. All deck surfaces shall be coated in **Mira-Therm**.

- **KIDS' CHOICE STEEL POSTS** each shall be constructed of **5" tube** with a **5" round end cap** pressed into its top end. Post and end cap shall have a **Mira-Cote** finish.

- **SQUARE ROOF:** The square roof shall measure 60" square by 32" high and shall be constructed of double wall **Rockite** with a shingle pattern. The roof shall attach to the top of posts with four roof brackets. For Kids' Choice, the roof brackets shall be constructed of **4" Sch 40 pipe welded** to

a 5" x 18-1/2" plate made of 11ga. **A-60 Galvannealed**. For Tots' Choice Expansion, the roof brackets shall be constructed of 3-1/4" Sch 40 pipe **welded** to a 6" x 20" plate made of 11 ga. **A-60 Galvannealed**. Roof clearance for the square roof shall be 72" from deck surface to roof edge. The **Rockite** roof shall have color molded in. The roof brackets shall have a **Mira-Cote** finish.

- **MOGUL & GROOVE SLIDES** shall be one-piece wave and straight slides respectively, with a sit-down canopy for deck attachment. Mogul and Groove Slides shall be designed to attach to decks of several heights with corresponding bedway lengths: 4' deck models shall have bedways 8'-6" long; 5' deck models shall have bedways 10'-6" long; 6'-6" deck models shall have bedways 13'-6" long; and 8' deck models shall have bedways 16' long. The one-piece slides and canopy shall be constructed of double wall **Rockite** and shall have 6" high side rails with a 26" long exit bedway, an overall width of 25", and an 18" wide sliding surface. The rung for canopy panel attachment shall be constructed of **1" pipe**. The front leg and middle leg each shall be constructed of a vertical **2" pipe welded** to an 11 ga. **A-60 Galvannealed** mounting bracket. The assembly shall contain **Versalok Fasteners** and **Fastener Style A** hardware. The legs, rungs and clamps shall have a **Mira-Cote** finish. The **Rockite** slides and canopy shall have molded in color.

- **BUNNY HILL SLIDE** shall be an open bedway, **Rockite** slide for 3' deck attachment with a bedway approximately 5' long. The dimensions shall be: bedway width, 31-1/4"; outside overall, 40"; rail width, 3-5/8"; top of bedway to top of rail, 6-1/2"; and bedway thickness, 4-1/2". The "T" front leg shall be constructed of a vertical **2" pipe** and a slotted 3-1/2" horizontal channel constructed of 11 ga. sheet, solid **welded**. The wide slide canopy shall be constructed of **Rockite** with threaded fasteners incorporated internally for assembly. The canopy shall have an inside width of 39" and an outside width of 44" and shall be slanted at 37 degrees. It shall be field assembled to the posts via clamps and a rung of **1" pipe**. The assembly shall contain **Versalok Fasteners** and **Fastener Style A** hardware. The **Rockite** slide and canopy shall have color molded in. The leg and clamps shall have a **Mira-Cote** finish.

- **MIRA-THERM II SQUARE TRANSFER POINTS** shall be designed to assist disabled users gain access to and egress from a deck system. The stair assembly shall be constructed of 11 ga. steel stringers solid **welded** to 11 ga. steel sheet decking that is perforated in a staggered pattern of 3/8" diameter holes at 5/8" apart center-to-center. Approximate dimensions of stair assembly shall be 26" overall width, 14" deep step tread and 8" high step rise. The 26" square (approximate) transfer point shall be constructed of 11 ga. steel sheet folded to form approximately 3" high sidewalls. The decking shall be perforated as described above. It shall be reinforced with cross braces of 3/16" x 2" HR flat solid **welded**. The bottom step shall be constructed of 11 ga. steel sheet (with folded edges) perforated as described above. The step shall be approximately 26" wide by 14" deep by 6-1/2" high. Kids' Choice deck enclosures shall be constructed of formed **1" pipe**, including a **welded** upright of the same material. Tots' Choice deck enclosures shall be constructed of **1" pipe** and a formed and **welded** upright of **1" tube**. Each deck enclosure assembly shall be drilled for field assembly of a stair handrail, and shall have its bottom end mashed and punched for field assembly to deck. Stair handrail assemblies shall be **welded** upper and lower handrails of formed **1" pipe**. Closed handrails shall contain vertical uprights of **3/4" x 1" oval tube welded** within. Swaged handrail extensions for field assembly to handrails shall be constructed of **1" pipe**. A transfer deck handrail constructed of formed **1" pipe** shall be field assembled to one handrail newel upright and transfer point deck edge. Models designed for assembly to 5' and 6' or 6'-6" decks shall contain handrail sleeve supports constructed of **1-1/4" pipe, 10 ga.** The "U"-shaped transfer step handrail shall be formed **1" pipe**, drilled for field assembly to transfer point deck and bottom step. Its apex shall be 36-1/8" from finished grade. The rung leg shall be **1" pipe** with ends mashed and punched for field assembly to bottom step. The assembly shall contain **Versalok Fasteners** and **Fastener Style A** hardware. The stairs, bottom step, and transfer point deck shall be finished in **Mira-Therm**. The deck enclosures, handrails, extensions, sleeves, leg and clamps shall be finished in **Mira-Cote**.

- **CLIMBING POLE/SPIDER CLIMBER/BUMPER LADDER/SPIRAL CLIMBER/CLIFF CLIMBER/TRAP DOOR CLIMBER** shall each be used as an entry to or an exit from a deck. The *cliff climber* side rails and rungs shall be constructed of **1" pipe**, formed, drilled and all solid **welded** construction, with an extension tube constructed of **1-1/4" pipe, 10 ga.** The *trap door climber* pole shall be formed **1-1/4" pipe**. The "U" shaped rungs shall be formed **1" pipe**. The extension shall have a 3/8" aluminum insert. The climber shall be a **welded** assembly. The *climbing pole* shall be constructed of **1" pipe, 12 ga.** The *spider climber* pole and "U" shaped rungs shall be formed **1" pipe**, solid **welded**. The *spiral climber* shall be constructed of **1" pipe**, formed, drilled and all solid **welded** construction with **plastic pipe plugs** inserted in open ends. For the Tots' Choice system, the *spiral climber* center pole shall be constructed of **1" pipe**, formed, drilled and all solid **welded** construction with **plastic pipe plugs** inserted in open ends and the spiral shall be constructed of **1" tube** and shall be attached to the center pole by means of six spacers, also constructed of **1" tube**. The assembly shall be solid **welded**. The *bumper ladder* shall be constructed of **Rockite** bumpers supported internally by a pole constructed of **1" pipe, 10 ga.** Each bumper shall measure 18" high x 19" wide. The Kids' Choice arch enclosure assembly shall consist of top supports, a bottom support, and an arched upright, which shall be constructed of **1" pipe**, formed, mashed, and punched, with vertical infill of **3/4" x 1" oval tube**. The Tots' Choice arch enclosure shall comprise two top supports and infill of **1" tube** and a climbing pole support and arch support of **1" pipe**, all solid **welded**. All enclosure assemblies shall have an extension tube of **1" pipe, 10 ga.** Enclosure assemblies shall be solid **welded**. The cliff climber, trap door climber, climbing pole, spiral climber, bumper ladder pole, and enclosure assembly shall have a **Mira-Cote** finish. The **Rockite** bumpers shall have color molded in.

- **CURVED CLIMBERS** shall be ground-to-deck climbers. The side rails shall be curved **1-1/2" pipe** (except Tots' Choice models which shall be **1" pipe**) with blind fasteners inside top end with rungs constructed of **1" tube**, 18-1/2" long, mashed on ends and all **welded** construction. Dimensions shall be 22" wide with the span for Model # 714-942 and # 718-942 being 6'-7" and the span for Model # 714-967 and # 718-967 being 3'-6". The handhold assembly shall be die-formed and **welded 1" pipe**. Curved climber and handholds shall have a **Mira-Cote** finish.

- **HORIZONTAL SPIDER LADDER** shall be available in horizontal and inclined configurations. The inclined spider ladder shall have a 1' incline. The center support rail shall be constructed of **2" pipe** (except Tots' Choice models which shall be **1" pipe**) and a series of alternating "U" loops shall be constructed of **1" pipe**. The spider ladder assembly shall be solid **welded**. The posts shall be constructed and finished in the same manner as deck posts (*The Kids' Choice system also offers an option of aluminum posts for this component.*) For models with optional end climbers, the end climber assembly shall be constructed of **1" pipe** (except Tots' Choice models which shall be **1" tube**), formed. The assembly shall be solid **welded**. For models with optional deck enclosures, the enclosure assemblies shall consist of enclosure rails and uprights. The enclosure rails shall be constructed of **1" pipe** (except Tots' Choice models which shall be **1" tube**), formed, mashed and punched. The uprights shall be constructed of **3/4"**

**x 1" oval tube** (except *Tots' Choice models which shall be 1" tube*,) mashed on both ends. The enclosure assemblies shall be solid **welded**. Opening space to go from the deck to the climber shall be less than 14". Each assembly shall include **Versalok Fasteners** and **Fastener Style A** and **Fastener Style B** hardware. The ladder, end climber, and enclosure assemblies shall have a **Mira-Cote** finish.

- **THERAPEUTIC HANDRINGS** shall be an upper body and arm strengthening component that attaches between decks. Handring can be placed at 84" from finished surfacing for regular users, and 54" for ADA users. The handring beam shall consist of an end rail, bushing, and bushing housing. The end rail shall be constructed from **2" pipe** and shall be 40-1/2" in length. The handring assembly shall contain a chain constructed of 5/16" proof coil, two "D" shackles, and a handring cast constructed of grade 60-40-18 ductile iron. The assembly shall contain **Versalok Fasteners** and **Fastener Style A** hardware. The handring cast shall be zinc plated.

- **MIRA-THERM II RAMPS AND ARCHED BRIDGES** shall include level and inclined ramps and arched bridges between decks with open and spoked handrails and shall be designed as a means for traveling from one deck to another. The ramps shall be constructed of 11 ga. steel sheet perforated with a staggered pattern of 3/8" diameter holes at 5/8" apart center-to-center, with edges folded to form 3" tall walls, and braces of 1/4" x 1-1/2" flat, all solid **welded**. The arched bridge frame shall be 11 ga. steel sheet perforated with a staggered pattern of 3/8" diameter holes at 5/8" apart center-to-center, with edges folded to form 3" tall walls. Flat braces of 7 ga. steel shall measure 1/4" x 1-1/2". The entire assembly shall be solid **welded**. Each spoked handrail assembly shall consist of a top and bottom rail and uprights. The top and bottom rails and stubs shall be constructed of **1" pipe**. The uprights shall be constructed of **3/4" x 1" oval tube**. Handrail assemblies for Model # 714-704-9 and # 714-856-9 shall have bolting tabs on the bottom rail constructed of 7 ga. **G-90 galvanized** sheet. The entire assembly shall be solid **welded**. The assembly shall measure approximately 94-1/4" in length. Each open handrail assembly shall consist of a top, bottom, and middle rail constructed of **1" pipe**. The top and bottom rails shall be joined at the ends by sleeves constructed of **1" tube**. The middle rail shall be **welded** to the top rail. Handrail assemblies for Model # 714-704-59 and # 714-856-59 shall have bolting tabs on the bottom rail constructed 7 ga. **G-90 galvanized** sheet. The entire assembly shall be solid **welded**. The assembly shall measure approximately 94-1/4" in length. The stubs to be placed in the **Versalok Fasteners** sockets shall be constructed of **1" pipe** and shall contain 3/8" aluminum inserts. TCX stubs shall be constructed of 1.315" pipe and contain 3/8" aluminum inserts. All hardware shall be **Fastener Style A**. All **Versalok Fasteners** for deck and component attachment shall be **aluminum alloy**. The enclosures, posts, bolting plate, and clamps shall have a **Mira-Cote** finish. The ramps and bridge shall have a **Mira-Therm** finish.

- **CYLINDER PANELS** shall contain nine cylinders in rows and columns of three which spin independently of one another. Each cylinder shall contain two molded-in graphic images on opposite sides which may be aligned with other cylinders to complete a larger image, a series, a word, or an academic exercise. Kids' Choice models shall include enclosures. The panel shall be constructed of **Rockite** with all corners rounded and shall have cylinder assemblies factory-installed using tamper-proof hardware. The panel assemblies for the *Tots' Choice* above-deck models shall contain three mounting tabs of 11 ga. **A-60 Galvanized welded** to the assembly for field attachment to decks. Each cylinder shall be constructed of **Rockite** with molded-in graphics on two "sides." Cylinder axles shall be constructed of **1" pipe**. Enclosures for Kids' Choice models shall each consist of a vertical upright and horizontal stubs of **1" pipe** solid **welded**, drilled and formed. All **Versalok Fasteners** for deck and component attachment shall be **aluminum alloy**. All hardware shall be **Fastener Style A**. The **Rockite** panel and cylinders shall have color molded in. The **Versalok Fasteners**, enclosures and panel tabs shall have a **Mira-Cote** finish.

- **WALL ENCLOSURE/WALL WITH STEERING WHEEL/CLOSURES/HANDHOLD FOR TRANSFER POINT/TREEHOUSE SEAT** shall be barrier assemblies. The handhold for transfer point shall be used as a support rail to assist wheelchair user access on a 1'-6" transfer point deck. The wall enclosure and transfer point handhold supports shall consist of a **welded** assembly handrail system with a top and bottom rail constructed of **1" pipe** (except *Tots' Choice models which shall be 1" tube*) and uprights constructed of **3/4" x 1" oval tube** (except *Tots' Choice models which shall be 1" tube*), solid **welded**. The mounting bracket shall be 11 ga. **A-60 Galvanized** sheet steel, **welded** to the wall enclosure. The steering wheel on vehicle-themed panels shall be constructed of a high-density blow molded polyethylene produced from high performance, U.V. stabilized resins with a comprehensive additive package. These resins shall be tested in accordance with ASTM testing procedures D-1505, D-1248, D-1693(b), D- 638, D-790 and D-746. Resin's properties exhibit a balance of toughness, rigidity, environmental stress crack resistance and excellent low temperature impact performance. Wall thickness shall be 1/8". The steering wheel hub cover shall be constructed of injection molded polypropylene which shall contain U.V. light stabilizers. The Treehouse Wall with Seat shall comprise a top and bottom rail and end uprights constructed of **1" pipe** and spoked infill of **3/4" x 1" oval tube** and a seat assembly, all solid **welded**. The seat assembly shall comprise a frame of **1" pipe** with bolting brackets of 3/16" x 1-1/4" HR flat and a factory-assembled 19" wide seat constructed of 11 ga. sheet, perforated with a staggered pattern of 3/8" diameter holes at 5/8" apart center-to-center. The seat surface shall be approximately 14" from the deck, if applicable. The enclosure rungs, uprights, handhold for transfer point, enclosure with seat assembly, steering wheel, and steering wheel mounting bracket shall have a **Mira-Cote** finish. The seat shall be finished in **Mira-Therm**. The steering wheel shall have molded in color.

### Technical Data for Processes and Finishes of the Highlighted Items

- **aluminum alloy** conforms to the following: ASTM 356, ANSI 322, Chrysler MS 2417 and General Motors GM 4323-M. Parts or components constructed of aluminum alloy are either *sand cast* or *die cast*. *Sand cast aluminum alloy* is 319 with tensile strength of 27,000 p.s.i. and yield strength of 18,000 p.s.i. *Die cast aluminum alloy* is 383.1 with tensile strength of 45,000 p.s.i. and yield strength of 22,000 p.s.i.

- **Versalok Fasteners (R)** are cast **aluminum alloy**. Each fastener consists of two die cast **aluminum alloy** "half ring" pieces, which were designed to fasten onto the round posts by use of a male/female interlock. For 3-1/2" post, outside dimension of the completed fastener (joined "half-rings") is 5". For 5" post, outside dimension of the completed fastener is 6-1/2". *Rungs and components* connect to clamps on posts by means of die cast **aluminum alloy**, two-piece socket receptors which may be assembled to a previously-installed clamp ring and secured to the clamp and component by set screws (and tek screws in some cases). *Decks* connect to clamps on posts by means of die cast **aluminum alloy**, one-piece



deck support castings. The clamp assembly and socket receptor have a **Mira-Cote** finish. Kids' Choice components with **2" pipe** mounting points attach to 5" posts using **aluminum alloy** sand cast header supports.

- **5" round end cap** is die cast **aluminum alloy**.
- **Fastener Style A** is a corrosion resistant, 18-8, stainless steel, vandal resistant fastener.
- **Fastener Style B** is an all aluminum blind rivet or aluminum drive rivet with stainless steel pin. Both are corrosion resistant and vandal resistant fasteners.
- **Flo-Coat (R)** is a patented triple coat corrosion protection process of Allied Tube and Conduit's Mechanical Tube Division, wherein steel pipe or tube first receives a hot-dipped uniform zinc galvanized coating followed by a conversion coating followed by a clear, high performance organic polymer coating. The interior of the tube has an 81% minimum zinc rich primer applied, capable of providing excellent rust protection and fabrication characteristics. All coatings are applied inside and out after welding. Flo-Coat processed tube exceeds the test results of galvanized Sch 40 pipe in salt spray tests conducted in accordance with ASTM B-117. The term "Flo-Coat" is a registered trademark of Allied Tube and Conduit, used with permission.
- **GATOR GRIP (TM)** is a three dimensional textured pattern exclusive to Miracle, embossed in steel to a depth of .014" to .017".
- **G-90 galvanized** indicates that a coating of .90 ounces of zinc per square foot has been applied on each surface side.
- **A-60 Galvannealed** indicates that a coating of .60 ounces of zinc per square foot alloyed with substrate steel has been applied on each surface side.
- **Mira-Cote (TM)** is a Super Durable formulation of a polyester powder coating finish that is applied to a thickness of 3-5 mil. This finish gives metal parts long term protection from chipping, fading and peeling. Miracle's finishing system washes the metal parts with detergent and etches the metal for optimum adhesion. The part is then rinsed clean with water. Next the part is coated with a non-chromic sealer and dried. The Mira-Cote powder is then applied electrostatically to the metal part. The metal parts are then baked at a high temperature to fuse a hard, smooth durable finish to the metal. Mira-Cote has an impact value of 160 in. lbs., flexibility value of 180 degrees-1/4" mandrel, shore hardness value H and a crosshatch adhesion of 100%. Mira-Cote is tested in accordance with ASTM D-792, D-523, D-2794, D-1737, D-3363, D-3359 (b), B117 and D-2247. Mira-Cote will withstand over a 1,500 hours of salt spray exposure and 1,500 hours of weatherometer testing with minimal loss of gloss and color.
- **Mira-Therm 2 (TM)** is a polyvinyl chloride coating applied to a thickness of 1/16" to 1/8". Primed metal parts are heated and then dipped in a vinyl plastisol solution. As the vinyl plastisol is heated, fusion takes place and the liquid is converted into a tough, homogenous mass with excellent abrasion, aging, corrosion and electrical resistance. Mira-Therm 2 contains U.V. light stabilizers, anti-microbial additives and color pigments. Mira-Therm 2 contains no orthophthalates or other banned substances. Mira-Therm 2 is a proprietary brand of PVC. Materials are tested in accordance with ASTM D-638, ASTM D-412, ASTM D-2240 and ASTM D-1004. Mira-Therm 2 meets the FMVS 302 flammability rating, the requirements of California State Law and the 2008 CPSI Act.
- **pipe sized tube** is 1010 hot rolled, **Flo-Coat**, galvanized pipe manufactured from steel, cold formed and high frequency induction **welded** continuously. It conforms to ASTM A-135 and ASTM A-500 and is tested in accordance with ASTM E-8.
- **schedule 40 galvanized** pipe consists of a hot dip process of coating the pipe inside and out with not less than 1.6 ounces per square foot with an average of 1.8 ounces per square foot. Schedule 40 pipe conforms to ASTM standards A-53.
- **1" pipe** is **GATOR GRIP** embossed 14 ga., **1" pipe sized tube** (1.315" OD; approx. 1-5/16" OD.)
- **1" pipe, 10 ga.** is 10 ga., **1" pipe sized tube** (1.315" OD; approx. 1-5/16" OD.)
- **1" pipe, 12 ga.** is 12 ga., **1" pipe sized tube** (1.315" OD; approx. 1-5/16" OD.)
- **1-1/4" pipe** is 13 ga., **1-1/4" pipe sized tube** (1.660" OD; approx. 1-11/16" OD.)
- **1-1/4" pipe, 10 ga.** is 10 ga., **1-1/4" pipe sized tube** (1.660" OD; approx. 1-11/16" OD.)
- **1-1/2" pipe** is 13 ga., **1-1/2" pipe sized tube** (1.900" OD; approx. 1-7/8" OD.)
- **2" pipe** is 12 ga., **2" pipe sized tube** (2.375" OD; approx. 2-3/8" OD.)
- **4" Sch 40 pipe** is 4" **schedule 40 galvanized** pipe (4.500" OD; 4-1/2" OD.)

- **plastic pipe plugs** are injection molded polypropylene containing U.V. light stabilizers.
- **Rockite (R)** (Rotational Molded Polyethylene) is a low density polyethylene produced from high performance, U.V. stabilized rotational molding grade resins with a comprehensive additive package. These resins are tested in accordance with ASTM testing procedures D-1505, D-1248, D-1693(b), D-638, D-790 and D-746. Resin's properties exhibit a balance of toughness, rigidity, environmental stress crack resistance and excellent low temperature impact performance. Wall thickness of molded components is 3/16" to 1/4".
- **round tube** is fabricated of 1010 hot rolled, **Flo-Coat**, galvanized tube manufactured from steel, cold formed and high frequency induction **welded** continuously. It conforms to ASTM A-135 and ASTM A-500 and is tested in accordance with ASTM E-8. The minimum mechanical properties of the tube are yield strength of 50,000 p.s.i. and tensile strength of 55,000 p.s.i.
- **3/4" x 1" oval tube** is 15 ga. wall. It is fabricated of 1008 hot rolled, **Flo-Coat**, galvanized tube manufactured from steel, cold formed and high frequency induction **welded** continuously. It conforms to ASTM A-135 and ASTM A-500 and is tested in accordance with ASTM E-8. The minimum mechanical properties of the tube are yield strength of 50,000 p.s.i. and tensile strength of 55,000 p.s.i.
- **1" tube** is 1" OD, 15 ga. fluted **round tube**. It conforms to ASTM A-500.
- **5" tube** is 5" OD, 13 ga. **round tube**. It conforms to ASTM A-500.
- **welded** refers to welds that are made by certified welders, tested in accordance with AWS D1.1-94, structural welding code specifications for steel. Welds conform to AWS A5.17 ASME SFA-5.17 EML3K and AWS A-5.18ER70S-3 ASME SFA-5.18 ER70s-3 LE332- C and LE-559-L.
- **Specification Policy: Specifications were current at the time of publication. Miracle Recreation Equipment Company has a policy of ongoing product improvement and therefore reserves the right to modify specifications or discontinue products without notice.**

## • GENERAL SPECIFICATIONS

**SAFETY STANDARDS & GUIDELINES** All public playground equipment supplied shall meet all applicable provisions of the current "Handbook for Public Playground Safety" published by the Consumer Product Safety Commission (CPSC), and of ASTM F1487-01 "Standard Consumer Safety Performance Specification for Playground Equipment for Public Use," published by the American Society for Testing and Materials (ASTM). Products bearing the certification seal of the International Play Equipment Manufacturers Association (IPEMA) have received written validation of compliance with ASTM F1487-01.

**TRADEMARKS** Miracle (R), Miracle Recreation (R), Kids' Choice (R), Tots' Choice (R), Tots' Choice(R) Expansion, Center Stage (R), Toddlers' Choice (R), Spray Stations (R), Hang-A-Round (R), Fun Tunnel (R), Versalok (R), Rock-It (R), Flippopotamus (R), Dupli-Gator (R), Play Terrain (R), Boulder Ridge (R), Playcover (R), Webscapes (R), Libra (R), Pegasus (R), Aquarius (R), Gemini (TM), Perseus (TM), Nexus (R), Bug Bites (R), Connexion (TM), Kidrox (R), Mt. Hood (TM), Mt. Rainier (TM), Mt. Kilimanjaro (TM), Gator Grip (R), Mega Tower (R), Observation Deck (R), Big Timber (R), Tensile Tough (TM), Tensile Tower (TM), Wavy Waffle Wall Walker (TM), X-Cavator (TM), Power Pedaler (TM), Bongo (TM), Flippo (TM), Big Kahuna (R), Camel Back (TM), Mogul (TM), Groove (TM), Toboggan (TM), Typhoon (TM), Chameleon (TM), Whirlwind (TM), Funnel Tunnel (TM), Thunder Tunnel (TM), Serpent Trek (TM), Triple Play (TM), Kids' Perch (TM), View Groove (TM), Fun Fone (TM), Rodeo Rocky (TM), Schnozz Womp (TM), Offspring (TM), Rainbow Bend (TM), Funshades (TM), Sneak-A-View (TM), Mira-Cote (R), Mira-Therm (TM), Mira-Lam (TM), Mira-Lene (TM), OrbX (R), Sun Sparkle (TM), Trim Timber (R), XCalator (TM), and Perma-Guard (TM) are trademarks of Miracle Recreation Equipment Company. Tornado (TM), Multi-Pondo (TM), and Pirouette (TM) are trademarks of HAGS (TM). Miracle and HAGS are divisions of PlayPower, Inc. PlayPower (R) is a trademark of PlayPower, Inc.

**QUALITY SYSTEM CERTIFICATION** The manufacturer's quality system is certified to ISO 9001 since December 1998.

**PRODUCT CHANGES** At Miracle Recreation Equipment Company, we strive for the utmost in quality and safety in our entire product line. Therefore, in order to honor this commitment to you, our customers, we reserve the right to make changes on any product released and/or published in our annual catalog and other promotional or technical literature.

## WARRANTY

Buyer agrees that products sold by Miracle Recreation Equipment Company carry only the following warranties:

1. **LIMITED ONE HUNDRED (100) YEAR WARRANTY** on aluminum deck posts, steel deck posts, the Versalok(R) fastening system, and associated fastening hardware against structural failure due to weather corrosion or defects in materials or workmanship.
2. **LIMITED FIFTEEN (15) YEAR WARRANTY** on steel support legs and Mira-Therm (TM) 2 on MEGA TOWER (R), TOTS' CHOICE (R), Nexus (TM), KIDS' CHOICE (R), CENTER STAGE (R), and Boulder Ridge (R) Rock Wall against structural failure due to weather corrosion or defects in materials or workmanship.
3. **LIMITED FIFTEEN (15) YEAR WARRANTY** on playsystem steel components including railings, rungs, and rigid climbers against structural failure due to defects in materials or workmanship.
4. **LIMITED FIFTEEN (15) YEAR WARRANTY** on Rock-It (R) against structural failure due to defects in materials or workmanship.
5. **LIMITED TEN (10) YEAR WARRANTY** on all Play Cover (R) steel frames against failure due to weather corrosion or defects in materials or workmanship.
6. **LIMITED TEN (10) YEAR WARRANTY** on Play Terrain (R) Rubber Mulch against total color loss and on the attenuation performance and appearance of Play Terrain (R) Synthetic Turf safety surfacing. Please contact your local representative for more information.
7. **LIMITED FIVE (5) YEAR WARRANTY** on all Play Cover (R) fabric due to rot, UV deterioration (shades of red carry LIMITED THREE (3) YEAR WARRANTY), or defects in materials or workmanship.
8. **LIMITED FIVE (5) YEAR WARRANTY** on Kidrox (R) Climbing Rocks against structural failure due to defects in materials or workmanship.
9. **LIMITED FIVE (5) YEAR WARRANTY** on all Webscapes (R) Net Climbers against degradation of design loading capabilities and LIMITED ONE (1) YEAR WARRANTY against defects in materials or workmanship.
10. **LIMITED THREE (3) YEAR WARRANTY** on Slashproof Seats, Trim Timbers (TM), and 360° Bucket Tot Seats for Swings against structural failure due to defects in materials or workmanship.
11. **LIMITED ONE (1) YEAR WARRANTY** against structural failure due to defects in materials or workmanship on the following products and components: TODDLERS' CHOICE (R) main support materials and decks; all pool slide support structures, stairways, landings, and railings; bleachers; and all products and components not specifically listed above, including, without limitation, all moving parts and flexible climbers.

12. **LIMITED SIX (6) MONTH WARRANTY** on sewn fabric components on Early Childhood products against failure due to defects in materials or workmanship.

13. These limited warranties do not protect against color fade (except for Play Cover (R), as noted above), or damage due to excessive wear and tear, vandalism, or negligence. These warranties are valid only if products are installed and maintained according to manufacturer's installation and maintenance instructions.

14. All warranties begin to run on the date of Miracle's invoice. Repaired or replacement part(s) are warranted only for the balance of the original limited warranty.

**BUYER'S REMEDY:** If any products prove to be defective or non-conforming under normal use and within the above-prescribed warranty periods, Buyer must promptly notify Miracle in writing at P.O. Box 420, Monett, MO 65708 USA. Miracle will within a reasonable time and in its sole discretion repair or replace such defective or non-conforming product by providing replacement products or part(s) free of charge to the site. Miracle's limited warranties do not cover the cost of labor to remove defective or non-conforming part(s) or to install repaired or replacement part(s).

These limited warranties apply only to Miracle products that are erected in conformance with Miracle's installation instructions and maintained and inspected in conformance with Miracle's maintenance and operational instructions. These limited warranties specifically do not cover Miracle products: that have been modified, altered, or misused; that have not been used as designed or intended to; to which non-Miracle parts have been added or substituted; or that have been damaged due to vandalism, abnormal use, or abuse. Buyer, by acceptance and use of these limited warranties, waives any rights it would otherwise have to claim or assert that this limited warranty fails of its essential purpose. Buyer agrees that venue for any court action to enforce these limited warranties shall be in Barry or Greene Counties in the State of Missouri.

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*Consult Miracle's "Glossary of Technical Data for Materials, Processes and Finishes"  
for specifications of items listed in bold type.*

- **KIDS' CHOICE MIRA-THERM II DECKS:** The deck models in the 714-50X-9 series shall consist of a (3) sided equilateral triangle deck: Model # 714-501-9, with a deck top surface area of 7 sq. ft. (1008 sq. in.); a (4) sided square deck: Model # 714-502-9, with a deck top surface area of 16 sq. ft. (2304 sq. in.); (4) sided (3) opening half hex decks: Model #s 714-503-9 and 714-504-9, with a deck top surface area of 21 sq. ft. (3024 sq. in.); (4) sided (6) opening rectangular decks: Model #s 714-508-9, 714-509-9 and 714-510-9, with a deck top surface area of 32 sq. ft. (4608 sq. in.); a (5) sided pentagon deck: Model # 714-512-9, with a deck top surface area of 23.8 sq. ft. (3427 sq. in.); an (8) sided octagon deck: Model # 714-519-9, with a deck top surface area of 60 sq. ft. (8640 sq. in.); (4) sided (6) opening parallelogram decks: Model #s 714-505-9, 714-506-9 and 714-507-9, with a deck top surface area of 28 sq. ft. (4032 sq. in.); and a (7) sided heptagon deck: Model # 714-517-9, with a deck top surface area of 55 sq. ft. (7,920 sq. in.).

Model # 714-511-9 shall be an isosceles triangle split deck (single section) designed to serve as a step platform for lower deck heights: 18" or lower for 2-5 year olds, and 30" or lower for 5-12 year olds. All other Model # 714-511-X9 split decks shall feature two triangular deck sections which shall be mounted between four posts at different heights so that a 6", 12", 18", or 24" (X) rise shall be formed along the hypotenuse between two posts. Models which rise greater than 6" shall contain a riser plate; models which rise greater than 12" shall also contain an arched enclosure assembly. The deck top surface area of split deck models shall be 8 sq. ft. each for both sections, or total 16 sq. ft. Riser plates shall be constructed of 11 ga. **A-60 Galvanized** sheet; risers for 18" and 24" rises shall contain a rung and vertical supports of **1" tube, solid welded**, all finished in **Mira-Cote**. The arch enclosure assembly accompanying models which rise 18" and 24" shall comprise top and bottom supports and an arched upright constructed of **1" pipe**, drilled, formed and mashed, all solid **welded**, and vertical rungs of **1" tube**, with **plastic pipe plugs** inserted in open ends, and finished in **Mira-Cote**.

Decks shall be designed for maximum flexibility in height of deck surface, from 0" to 6'-6" (in 6" increments,) though 3', 5' and 6'-6" shall be considered standard heights. Decks shall be designed on a 48" center-to-center spacing on 5" deck posts, at equal or varied heights. All deck-to-post connections shall be made with a deck support clamp. All deck connections shall be made beneath deck with no exposed fasteners on deck perimeter. Decks with 8' wide open side shall be designed to attach to another deck with 8' wide open side at same deck height, or to a Model # 714-770-6 Flippopotamus Slide/Climber.

All decks shall be constructed with folded 11 ga. steel sheet forming 3" tall sides. Decking sheets shall be perforated with a staggered pattern of 3/8" diameter holes at 5/8" apart center-to-center. The decking shall have 7 ga. by 2" flat steel braces and corner braces of 7 ga. steel. The entire assembly shall be solid **welded** prior to PVC coating. Each assembly shall contain **Versalok Fasteners** and **Fastener Style A** hardware. All deck surfaces shall be coated in **Mira-Therm**.

- **KIDS' CHOICE STEEL POSTS** each shall be constructed of **5" tube** with a **5" round end cap** pressed into its top end. Post and end cap shall have a **Mira-Cote** finish.

- **SQUARE ROOF:** The square roof shall measure 60" square by 32" high and shall be constructed of double wall **Rockite** with a shingle pattern. The roof shall attach to the top of posts with four roof brackets. For Kids' Choice, the roof brackets shall be constructed of **4" Sch 40 pipe welded** to

a 5" x 18-1/2" plate made of 11 ga. **A-60 Galvannealed**. For Tots' Choice Expansion, the roof brackets shall be constructed of 3-1/4" Sch 40 pipe **welded** to a 6" x 20" plate made of 11 ga. **A-60 Galvannealed**. Roof clearance for the square roof shall be 72" from deck surface to roof edge. The **Rockite** roof shall have color molded in. The roof brackets shall have a **Mira-Cote** finish.

- **MIRA-THERM II TYPHOON II SPIRAL SLIDES** shall be 360 degree, one-piece, open bedway spiral slides with two-color barrel canopy and step or ramp assembly, designed for attachment to 4', 5', 6' and 6'-6" decks. The slide bedway shall be constructed of 1/4" to 5/16" wall **Rockite**. The slide bedway shall be 30" wide with a 15" high side wall. The center post shall be constructed of **4-1/2" tube**. The step assembly shall be constructed of 11 ga. steel sheet folded and perforated with a staggered pattern of 3/8" diameter holes at 5/8" apart center-to-center, solid **welded** to stringers of 7 ga. black steel. The handrail assembly shall consist of a top and bottom rail and newel post, formed, constructed of **1" pipe** with infill of **3/4" x 1" oval tube**. The step enclosure assembly shall be solid **welded** and **plastic pipe plugs** shall close open ends. The deck enclosures shall consist of a vertical rail, and top and bottom rail, formed, constructed of **1" pipe** with an upright of **3/4" x 1" oval tube**, and 3/8" aluminum inserts in the rail ends for attachment to the step enclosures. The deck enclosure assemblies shall be solid **welded**. The 35" platform barrel shall be **Rockite**, with a canopy painted alternating colors with polyurethane paint. The barrel shall have molded-in view grooves for viewing children. The back-up plate used to connect the step assembly and the barrel shall be constructed of 1/4" x 1" x 6" flat steel. The front leg shall be constructed of **2" pipe** and shall be attached to the slide using a channel constructed of 7 ga. sheet. Each assembly shall contain **Versalok Fasteners** and **Fastener Style A** hardware. The **Rockite** slide and platform canopy shall have color molded in. The step shall be finished in **Mira-Therm**. The handrail assemblies, deck enclosures, front leg, and clamps shall have a **Mira-Cote** finish. The back-up plate shall have a zinc plate finish.
- **ROCKITE SIDE-BY-SIDE SLIDE** shall be open, dual bedway slides which connect to a 3' deck and shall have a bedway length of approximately 5'-5". The slide shall be constructed of **Rockite** with "T" nuts incorporated internally for field attachment of leg(s) and in top end for field attachment to deck. Slide dimensions shall be: each bedway width 17", outside overall 42", rail width 3", top of bedway to top of rail 4-1/2", and bedway thickness 3". The front leg shall be constructed of a vertical **2" pipe** measuring 37-1/4" long with a 1-1/4" x 3-1/4" channel top constructed of 11 ga. sheet, **welded** to the upright in a "T" configuration. The wide slide canopy shall be constructed of **Rockite** with threaded fasteners incorporated internally for assembly. The canopy shall have an inside width of 39" and an outside width of 44" and shall be slanted at 37 degrees. It shall be field assembled to the posts via clamps and a rung of **1" pipe**. The assembly shall contain **Versalok Fasteners** and **Fastener Style A** hardware. The **Rockite** slide and canopy shall have color molded in. The canopy stubs shall have a galvanized finish. The clamps, leg, and rung shall have a **Mira-Cote** finish.
- **MIRA-THERM II ATA STAIRS BETWEEN DECKS** shall be stair assemblies, with spoked or open handrails, designed to connect decks of different heights. The steps shall be constructed of 7 ga. steel stringers with treads constructed of 11 ga. steel sheet perforated with a staggered pattern of 3/8" diameter holes at 5/8" apart center-to-center, solid **welded**, with PVC coating. The braces shall be constructed of 11 ga. black. The spoked handrails shall consist of a top and bottom rail and newel post, all of **1" pipe**, and uprights constructed of **3/4" x 1" oval tube**, all solid **welded**, with **plastic pipe plugs** inserted in open ends. Top rails shall have 3/8" aluminum inserts. The open handrails shall consist of a top and bottom rail and newel post of **1" pipe**, all solid **welded**, with **plastic pipe plugs** inserted in open ends. Top rails shall have 3/8" aluminum inserts. The top deck enclosure shall consist of enclosure rails and an upright, both to be constructed of **1" pipe**, drilled and solid **welded**, with one end of upright mashed for field attachment to deck. The bottom deck enclosure shall consist of horizontal rails and an upright of **1" pipe**, drilled and solid **welded**, and a spoke upright of **3/4" x 1" oval tube**. The upright shall be mashed on one end for field attachment to deck. Inserted in open ends will be **plastic pipe plugs**. The assembly shall include **Fastener Style A** hardware and **Versalok Fasteners**. The step assemblies shall be finished in **Mira-Therm**. The deck enclosures, handrails, and clamps shall be finished in **Mira-Cote**.
- **MIRA-THERM II SQUARE TRANSFER POINTS** shall be designed to assist disabled users gain access to and egress from a deck system. The stair assembly shall be constructed of 11 ga. steel stringers solid **welded** to 11 ga. steel sheet decking that is perforated in a staggered pattern of 3/8" diameter holes at 5/8" apart center-to-center. Approximate dimensions of stair assembly shall be 26" overall width, 14" deep step tread and 8" high step rise. The 26" square (approximate) transfer point shall be constructed of 11 ga. steel sheet folded to form approximately 3" high sidewalls. The decking shall be perforated as described above. It shall be reinforced with cross braces of 3/16" x 2" HR flat solid **welded**. The bottom step shall be constructed of 11 ga. steel sheet (with folded edges) perforated as described above. The step shall be approximately 26" wide by 14" deep by 6-1/2" high. Kids' Choice deck enclosures shall be constructed of formed **1" pipe**, including a **welded** upright of the same material. Tots' Choice deck enclosures shall be constructed of **1" pipe** and a formed and **welded** upright of **1" tube**. Each deck enclosure assembly shall be drilled for field assembly of a stair handrail, and shall have its bottom end mashed and punched for field assembly to deck. Stair handrail assemblies shall be **welded** upper and lower handrails of formed **1" pipe**. Closed handrails shall contain vertical uprights of **3/4" x 1" oval tube welded** within. Swaged handrail extensions for field assembly to handrails shall be constructed of **1" pipe**. A transfer deck handrail constructed of formed **1" pipe** shall be field assembled to one handrail newel upright and transfer point deck edge. Models designed for assembly to 5' and 6' or 6'-6" decks shall contain handrail sleeve supports constructed of **1-1/4" pipe, 10 ga.** The "U"-shaped transfer step handrail shall be formed **1" pipe**, drilled for field assembly to transfer point deck and bottom step. Its apex shall be 36-1/8" from finished grade. The rung leg shall be **1" pipe** with ends mashed and punched for field assembly to bottom step. The assembly shall contain **Versalok Fasteners** and **Fastener Style A** hardware. The stairs, bottom step, and transfer point deck shall be finished in **Mira-Therm**. The deck enclosures, handrails, extensions, sleeves, leg and clamps shall be finished in **Mira-Cote**.
- **ENCLOSURE ASSEMBLY** shall consist of enclosure rails and uprights. The enclosure rails shall be constructed of **1" pipe** (except Tots' Choice models which shall be **1" tube**), drilled, with **plastic pipe plugs** inserted in the open ends. The uprights shall be constructed of **3/4" x 1" oval tube** (except Tots' Choice models which shall be **1" tube**), mashed on both ends. The enclosure assemblies shall be solid **welded**. The enclosure assemblies shall have a **Mira-Cote** finish.
- **CLIMBING WALLS, VERTICAL AND SLOPED (KIDS' CHOICE & TCX ONLY)** shall consist of an arch entry deck enclosure and panel sections with climbing holds fastened to a steel frame. The rails and archway of the enclosure assembly shall be constructed of **1" pipe**, with vertical rungs of **1" tube**, solid **welded**. The panels shall be constructed of high density polyethylene sheets. The climbing holds shall be constructed of molded sand and polyester resin mixture. The frame shall comprise vertical outer rails (which serve as legs) constructed of **2" square tube**, solid **welded** to

horizontal support rails of **1-1/2" square tube** and 11 ga. galvanized 1-1/2" x 3" rectangular tube. The fill block shall be folded 11 ga. steel sheet, perforated with a staggered pattern of 3/8" diameter holes at 5/8" apart, center-to-center, solid **welded** with 7 ga. by 2" flat steel braces. TCX Model # 704-757-25, Model # 704-757-26, and Model # 704-757-28 shall be solid **welded** with 11 ga. x 2" flat steel braces. TCX Model # 704-757-34 shall be solid **welded** with 11 ga. The assembly shall contain **Versalok Fasteners** and **Fastener Style A** hardware. The enclosure, frame, and clamps shall have a **Mira-Cote** finish. The fill block shall be finished in **Mira-Therm**.

- **FOSSIL BLUFF WALL SYSTEM** shall be inclined rock walls designed for attachment to 5', 6'-6", or 8' decks and shall contain an arch entry enclosure. The climbing surface shall feature realistic shapes, dimensions and textures of a natural stone escarpment, and factory-assembled climbing stubs. The arch entry enclosure shall consist of a frame (top and inside support rails and arched upright) of **1" pipe** and vertical rungs within the frame of **3/4" x 1" oval tube**, all solid **welded**. The panel shall be constructed of **Rockite**. The climbing stubs shall be constructed of molded sand and polyester resin mixture. The wall frame shall be constructed of **1-1/2" square tube, solid welded**. The fill block shall be constructed of 11 ga. **A-60 Galvanized** sheet steel. The assembly shall contain **Versalok Fasteners** and **Fastener Style A** hardware. The clamps, enclosure and frame shall be finished in **Mira-Cote**. The fill block shall be finished in **Mira-Therm**. The panel and climbing stubs shall have molded in color.

- **CYLINDER PANELS** shall contain nine cylinders in rows and columns of three which spin independently of one another. Each cylinder shall contain two molded-in graphic images on opposite sides which may be aligned with other cylinders to complete a larger image, a series, a word, or an academic exercise. Kids' Choice models shall include enclosures. The panel shall be constructed of **Rockite** with all corners rounded and shall have cylinder assemblies factory-installed using tamper-proof hardware. The panel assemblies for the Tots' Choice above-deck models shall contain three mounting tabs of 11 ga. **A-60 Galvanized welded** to the assembly for field attachment to decks. Each cylinder shall be constructed of **Rockite** with molded-in graphics on two "sides." *Cylinder axles shall be constructed of 1" pipe.* Enclosures for Kids' Choice models shall each consist of a vertical upright and horizontal stubs of **1" pipe solid welded**, drilled and formed. All **Versalok Fasteners** for deck and component attachment shall be **aluminum alloy**. All hardware shall be **Fastener Style A**. The **Rockite** panel and cylinders shall have color molded in. The **Versalok Fasteners**, enclosures and panel tabs shall have a **Mira-Cote** finish.

- **WALL ENCLOSURE/WALL WITH STEERING WHEEL/CLOSURES/HANDHOLD FOR TRANSFER POINT/TREEHOUSE SEAT** shall be barrier assemblies. The handhold for transfer point shall be used as a support rail to assist wheelchair user access on a 1'-6" transfer point deck. The wall enclosure and transfer point handhold supports shall consist of a **welded** assembly handrail system with a top and bottom rail constructed of **1" pipe** (except Tots' Choice models which shall be **1" tube**) and uprights constructed of **3/4" x 1" oval tube** (except Tots' Choice models which shall be **1" tube**), solid **welded**. The mounting bracket shall be 11 ga. **A-60 Galvanized** sheet steel, **welded** to the wall enclosure. The steering wheel on vehicle-themed panels shall be constructed of a high-density blow molded polyethylene produced from high performance, U.V. stabilized resins with a comprehensive additive package. These resins shall be tested in accordance with ASTM testing procedures D-1505. D-1248, D-1693(b), D-638, D-790 and D-746. Resin's properties exhibit a balance of toughness, rigidity, environmental stress crack resistance and excellent low temperature impact performance. Wall thickness shall be 1/8". The steering wheel hub cover shall be constructed of injection molded polypropylene which shall contain U.V. light stabilizers. The Treehouse Wall with Seat shall comprise a top and bottom rail and end uprights constructed of **1" pipe** and spoked infill of **3/4" x 1" oval tube** and a seat assembly, all solid **welded**. The seat assembly shall comprise a frame of **1" pipe** with bolting brackets of 3/16" x 1-1/4" HR flat and a factory-assembled 19" wide seat constructed of 11 ga. sheet, perforated with a staggered pattern of 3/8" diameter holes at 5/8" apart center-to-center. The seat surface shall be approximately 14" from the deck, if applicable. The enclosure rungs, uprights, handhold for transfer point, enclosure with seat assembly, steering wheel, and steering wheel mounting bracket shall have a **Mira-Cote** finish. The seat shall be finished in **Mira-Therm**. The steering wheel shall have molded in color.

- **IMAGINATION PANELS** and Activity Panels shall be constructed of **Mira-Lene** and shall measure 36-1/2" x 40" with all corners rounded. The panels shall have routed designs, including themes of a space ship panel, general store counter, a barn wall panel, a barn door panel, a barn window panel, a bank teller window, a television front, a puppet stage, a window, a computer screen, a door, a park ranger, a fire truck, a police car, a train engine, a taxi cab, two airplanes (both containing two steering wheel assemblies, one also containing a clear polycarbonate window mechanically fastened to panel), a race car, an alphabet finger maze, an abstract finger maze, a calculator, a bus stop/bench, a rest stop/bench, jump height measurements for a 3' and 5' deck, a sign language alphabet, a Spanish-English translation, braille alphabet with riddles, a drum panel, welcome and age appropriate messages, interconnected gears, gear-driven pistons, and sliding tiles. Rung brackets shall be constructed of **1" pipe** and 11 ga. **A-60 Galvanized** tabs solid **welded** (except Tots' Choice models which shall have brackets constructed of **1" tube** and 11 ga. **A-60 Galvanized** tabs solid **welded**). The star brackets for the space ship panel shall be constructed of 11 ga. HRPO steel and powder coat painted. The steering wheel(s) on vehicle themed panels shall be constructed of a high-density blow molded polyethylene produced from high performance, U.V. stabilized resins with a comprehensive additive package. These resins shall be tested in accordance with ASTM testing procedures D-1505. D-1248, D-1693(b), D-638, D-790 and D-746. Resin's properties shall exhibit a balance of toughness, rigidity, environmental stress crack resistance and excellent low temperature impact performance. Wall thickness shall be 1/8". The steering wheel hub cover shall be constructed of injection molded polypropylene which shall contain U.V. light stabilizers. The Piston panel and Gear panel each shall contain a clear polycarbonate cover mechanically fastened over sets of 1/4" thick gears (drive gears not covered by window). The gears shall be constructed of high-density polyethylene, which shall turn on nylon bushings, except for the black nylon handles and drive gears which shall turn on bronze bushings. The piston panel shall also contain connecting rod and piston shapes of 1/4" thick high-density polyethylene. The reverse side of both panels shall contain routed text and/or designs. The Sliding Tile panel shall contain 15 moveable, tongue-and-groove tiles with routed numerals to be constructed of 1/4" thick high-density polyethylene. The panels and steering wheel shall have molded in color with each panel assembly having a laminated, two-color scheme. Calypso drum panel shall contain 3 rotational molded drums of low density polyethylene resin. Each drum shall be attached to the panel through a cover plate constructed of 11 ga. galvanized steel sheet with a **Mira-Cote** finish. Each assembly shall include **Fastener Style A** hardware and **Versalok Fasteners**. Panels and steering wheels shall have color molded in, and rung brackets and clamps shall be finished in **Mira-Cote**.

- **BONGO BRIDGES** shall be designed to enter/exist 2' or lower deck systems, either as a bridge between decks, a ground-to-deck "stair," or as a freestanding assembly with no decks. When installed as a bridge, pods may be installed at ascending/descending heights or all level, but should follow a straight course between decks. Freestanding pods may ascend and descend and may follow any course so long as pods are set 7" to 9"

edge-to-edge. Pods may also be clustered and installed flush with each other to create a table, seats, small climber, etc. Regardless of layout and design, pod steps top surface may be set no greater than 24" from finished grade. Note: If designing as bridge between 2'-0" decks intended for 2 to 5 year old users, deck enclosures Model # 714-813-5 must be installed on each deck, which shall be sold separately. Each pod step shall be constructed of **Rockite** and shall contain a honeycomb textured, hex-shaped top surface measuring approximately 16" diameter. Pod steps shall measure 12" high without posts. Posts shall be constructed of **1-1/2" pipe** with a 5-7/8" diameter mounting plate of 11 ga. **G-90 galvanized** solid **welded** to the posts. Post lengths shall be 38-5/16" before field assembly to pods. Overall assembled length shall be 42". All fasteners shall be **Fastener Style A**. The **Rockite** pod steps shall have color molded in. The posts shall be finished in **Mira-Cote**.

- **STEERING WHEEL, POST MOUNT** shall be designed to provide driving stimulation on any pre-existing deck post. The steering wheel shall be constructed of a high-density blow-molded polyethylene produced from high performance, U.V. stabilized resins with a comprehensive additive package. These resins shall be tested in accordance with ASTM testing procedures D-1505, D-1248, D-1693(b), D-638, D-790 and D-746. Resin's properties shall exhibit a balance of toughness, rigidity, environmental stress crack resistance and excellent low temperature impact performance. Wall thickness shall be 1/8". The steering wheel hub cover shall be constructed of injection-molded polypropylene which shall contain U.V. light stabilizers. *The Steering Column shall be constructed of 2" pipe. The assembly shall contain Fastener Style A hardware. The Steering Column shall have a Mira-Cote finish.*

- **BELL, POST MOUNT** shall be designed to provide noisy, imaginative play to any pre-existing deck post. The Bell Assembly shall consist of a Bell, A Bell Support, a 6-link Chain, and eyebolt, and **Fastener Style A** hardware. The Bell shall be constructed of **A-60 Galvannealed**. The Bell Support shall be constructed of **1" pipe, Gator Grip**. The Bell Chain shall be constructed of **4/0 straight link coil chain**. The Bell shall have a **Mira-Cote** finish.

### Technical Data for Processes and Finishes of the Highlighted Items

- **aluminum alloy** conforms to the following: ASTM 356, ANSI 322, Chrysler MS 2417 and General Motors GM 4323-M. Parts or components constructed of aluminum alloy are either *sand cast* or *die cast*. *Sand cast aluminum alloy* is 319 with tensile strength of 27,000 p.s.i. and yield strength of 18,000 p.s.i. *Die cast aluminum alloy* is 383.1 with tensile strength of 45,000 p.s.i. and yield strength of 22,000 p.s.i.

- **4/0 straight link coil chain** is hot dipped galvanized with a 670 pound working load limit. All chain shall be manufactured to ASTM A467-86A Class CS specifications.

- **Versalok Fasteners (R)** are cast **aluminum alloy**. Each fastener consists of two die cast **aluminum alloy** "half ring" pieces, which were designed to fasten onto the round posts by use of a male/female interlock. For 3-1/2" post, outside dimension of the completed fastener (joined "half-rings") is 5". For 5" post, outside dimension of the completed fastener is 6-1/2". *Rungs and components* connect to clamps on posts by means of die cast **aluminum alloy**, two-piece socket receptors which may be assembled to a previously-installed clamp ring and secured to the clamp and component by set screws (and tek screws in some cases). *Decks* connect to clamps on posts by means of die cast **aluminum alloy**, one-piece deck support castings. The clamp assembly and socket receptor have a **Mira-Cote** finish. Kids' Choice components with **2" pipe** mounting points attach to 5" posts using **aluminum alloy** sand cast header supports.

- **5" round end cap** is die cast **aluminum alloy**.

- **Fastener Style A** is a corrosion resistant, 18-8, stainless steel, vandal resistant fastener.

- **Flo-Coat (R)** is a patented triple coat corrosion protection process of Allied Tube and Conduit's Mechanical Tube Division, wherein steel pipe or tube first receives a hot-dipped uniform zinc galvanized coating followed by a conversion coating followed by a clear, high performance organic polymer coating. The interior of the tube has an 81% minimum zinc rich primer applied, capable of providing excellent rust protection and fabrication characteristics. All coatings are applied inside and out after welding. Flo-Coat processed tube exceeds the test results of galvanized Sch 40 pipe in salt spray tests conducted in accordance with ASTM B-117. The term "Flo-Coat" is a registered trademark of Allied Tube and Conduit, used with permission.

- **GATOR GRIP (TM)** is a three dimensional textured pattern exclusive to Miracle, embossed in steel to a depth of .014" to .017".

- **G-90 galvanized** indicates that a coating of .90 ounces of zinc per square foot has been applied on each surface side.

- **A-60 Galvannealed** indicates that a coating of .60 ounces of zinc per square foot alloyed with substrate steel has been applied on each surface side.

- **Mira-Cote (TM)** is a Super Durable formulation of a polyester powder coating finish that is applied to a thickness of 3-5 mil. This finish gives metal parts long term protection from chipping, fading and peeling. Miracle's finishing system washes the metal parts with detergent and etches the metal for optimum adhesion. The part is then rinsed clean with water. Next the part is coated with a non-chromic sealer and dried. The Mira-Cote powder is then applied electrostatically to the metal part. The metal parts are then baked at a high temperature to fuse a hard, smooth durable finish to the metal. Mira-Cote has an impact value of 160 in. lbs., flexibility value of 180 degrees-1/4" mandrel, shore hardness value H and a crosshatch

adhesion of 100%. Mira-Cote is tested in accordance with ASTM D-792, D-523, D-2794, D-1737, D-3363, D-3359 (b), B117 and D-2247. Mira-Cote will withstand over a 1,500 hours of salt spray exposure and 1,500 hours of weatherometer testing with minimal loss of gloss and color.

- **Mira-Lene (TM)** is compression-molded, 3/4" thick, high density polyethylene that has been specifically formulated for optimum U.V. stability and color retention. Compression-molded products have a density of .952 g/cm<sup>3</sup> per ASTM D1505 and tensile strength of 3900 PSI per ASTM D638.
- **Mira-Therm 2 (TM)** is a polyvinyl chloride coating applied to a thickness of 1/16" to 1/8". Primed metal parts are heated and then dipped in a vinyl plastisol solution. As the vinyl plastisol is heated, fusion takes place and the liquid is converted into a tough, homogenous mass with excellent abrasion, aging, corrosion and electrical resistance. Mira-Therm 2 contains U.V. light stabilizers, anti-microbial additives and color pigments. Mira-Therm 2 contains no orthophthalates or other banned substances. Mira-Therm 2 is a proprietary brand of PVC. Materials are tested in accordance with ASTM D-638, ASTM D-412, ASTM D-2240 and ASTM D-1004. Mira-Therm 2 meets the FMVS 302 flammability rating, the requirements of California State Law and the 2008 CPSI Act.
- **pipe sized tube** is 1010 hot rolled, **Flo-Coat**, galvanized pipe manufactured from steel, cold formed and high frequency induction **welded** continuously. It conforms to ASTM A-135 and ASTM A-500 and is tested in accordance with ASTM E-8.
- **schedule 40 galvanized** pipe consists of a hot dip process of coating the pipe inside and out with not less than 1.6 ounces per square foot with an average of 1.8 ounces per square foot. Schedule 40 pipe conforms to ASTM standards A-53.
- **1" pipe** is **GATOR GRIP** embossed 14 ga., **1" pipe sized tube** (1.315" OD; approx. 1-5/16" OD.)
- **1-1/4" pipe, 10 ga.** is 10 ga., **1-1/4" pipe sized tube** (1.660" OD; approx. 1-11/16" OD.)
- **1-1/2" pipe** is 13 ga., **1-1/2" pipe sized tube** (1.900" OD; approx. 1-7/8" OD.)
- **2" pipe** is 12 ga., **2" pipe sized tube** (2.375" OD; approx. 2-3/8" OD.)
- **4" Sch 40 pipe** is 4" **schedule 40 galvanized** pipe (4.500" OD; 4-1/2" OD.)
- **plastic pipe plugs** are injection molded polypropylene containing U.V. light stabilizers.
- **Rockite (R)** (Rotational Molding Polyethylene) is a low density polyethylene produced from high performance, U.V. stabilized rotational molding grade resins with a comprehensive additive package. These resins are tested in accordance with ASTM testing procedures D-1505, D-1248, D-1693(b), D-638, D-790 and D-746. Resin's properties exhibit a balance of toughness, rigidity, environmental stress crack resistance and excellent low temperature impact performance. Wall thickness of molded components is 3/16" to 1/4".
- **round tube** is fabricated of 1010 hot rolled, **Flo-Coat**, galvanized tube manufactured from steel, cold formed and high frequency induction **welded** continuously. It conforms to ASTM A-135 and ASTM A-500 and is tested in accordance with ASTM E-8. The minimum mechanical properties of the tube are yield strength of 50,000 p.s.i. and tensile strength of 55,000 p.s.i.
- **square tube** is fabricated of 1010 hot rolled, **Flo-Coat**, galvanized tube manufactured from steel, cold formed and high frequency induction **welded** continuously. It conforms to ASTM A-135 and ASTM A-500 and is tested in accordance with ASTM E-8. The minimum mechanical properties of the tube are yield strength of 50,000 p.s.i. and tensile strength of 55,000 p.s.i.
- **3/4" x 1" oval tube** is 15 ga. wall. It is fabricated of 1008 hot rolled, **Flo-Coat**, galvanized tube manufactured from steel, cold formed and high frequency induction **welded** continuously. It conforms to ASTM A-135 and ASTM A-500 and is tested in accordance with ASTM E-8. The minimum mechanical properties of the tube are yield strength of 50,000 p.s.i. and tensile strength of 55,000 p.s.i.
- **1-1/2" square tube** is 16 ga., **1-1/2" square tube**.
- **1" tube** is 1" OD, 15 ga. fluted **round tube**. It conforms to ASTM A-500.
- **4-1/2" tube** is 4-1/2" OD, 7 ga. **round tube**. It conforms to ASTM A-500.
- **5" tube** is 5" OD, 13 ga. **round tube**. It conforms to ASTM A-500.
- **welded** refers to welds that are made by certified welders, tested in accordance with AWS D1.1-94, structural welding code specifications for steel. Welds conform to AWS A5.17 ASME SFA-5.17 EML3K and AWS A-5.18ER70S-3 ASME SFA-5.18 ER70s-3 LE332- C and LE-559-L.



- **Specification Policy:** Specifications were current at the time of publication. Miracle Recreation Equipment Company has a policy of ongoing product improvement and therefore reserves the right to modify specifications or discontinue products without notice.



# Product Specifications

March 8, 2006

Rev. C

**MIRACLE**  
RECREATION EQUIPMENT COMPANY

Kids' Choice® - Mira-Therm II

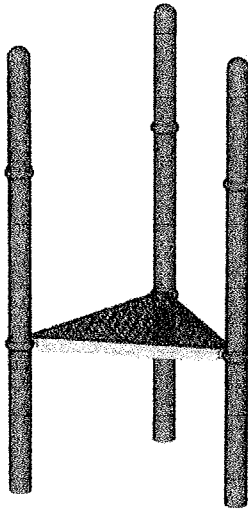
**Decks**

Deck Posts not included in these assemblies.

## 714-501-9 & 714-502-9

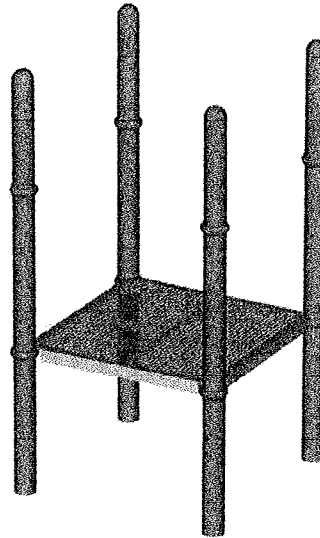
### Triangle Deck

Model # 714-501-9 requires three (3) Posts.



### Square Deck

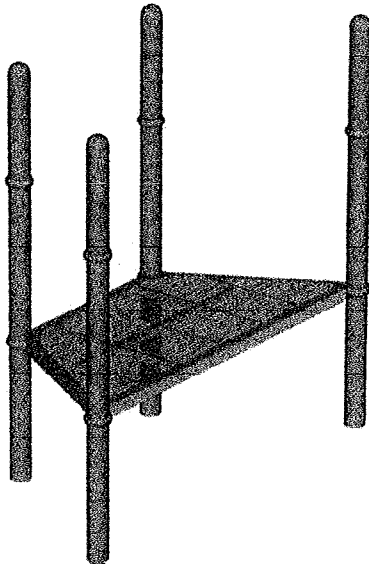
Model # 714-502-9 requires four (4) Posts.



## 714-503-9 & 714-504-9

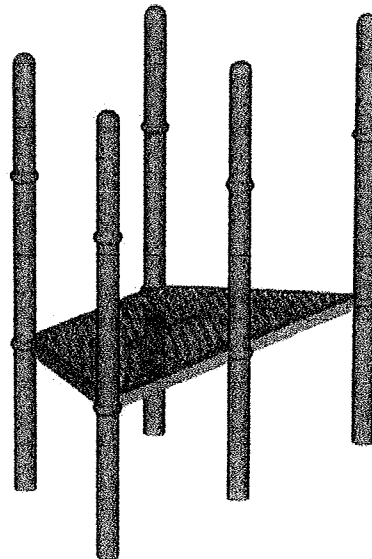
### Half Hex Deck (Full)

Model # 714-503-9 requires four (4) Posts.



### Half Hex Deck (Open)

Model # 714-504-9 requires five (5) Posts.



Decks

714-501-9, 714-502-9, 714-503-9, 714-504-9, 714-505-9, 714-506-9, 714-507-9, 714-508-9, 714-509-9, 714-510-9, 714-512-9, 714-517-9



Kids' Choice<sup>®</sup> - Mira-Therm II  
**Decks**

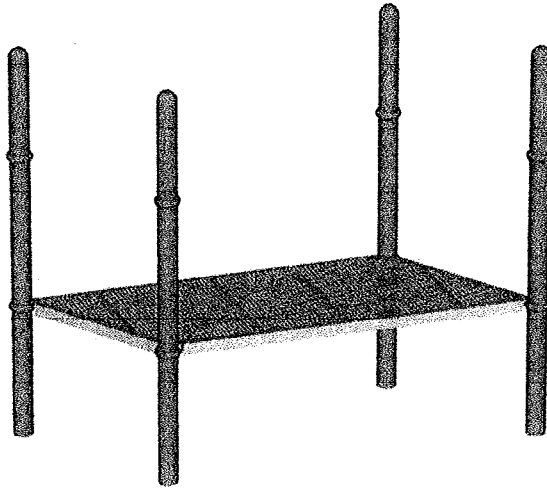
714-501-9, 714-502-9

**714-505-9 & 714-506-9**

714-507-9, 714-508-9

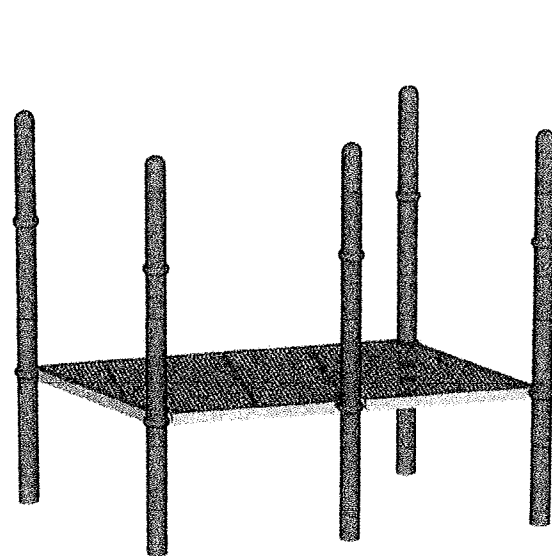
**Parallelogram Deck (Full)**

Model # 714-505-9 requires four (4) Posts.



**Parallelogram Deck (Half Open)**

Model # 714-506-9 requires five (5) Posts.



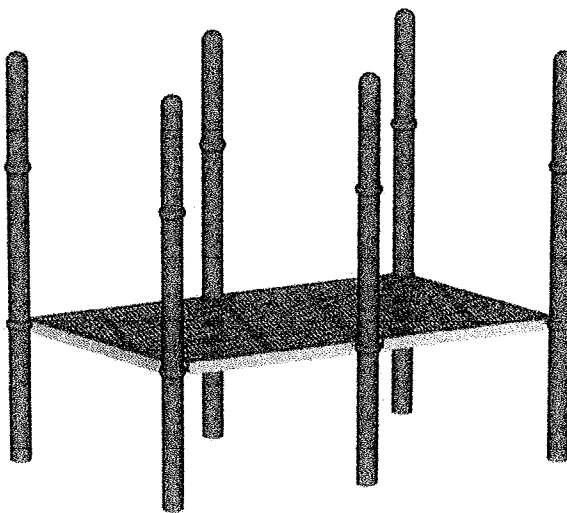
714-501-9, 714-502-9

**714-507-9 & 714-508-9**

714-503-9, 714-504-9

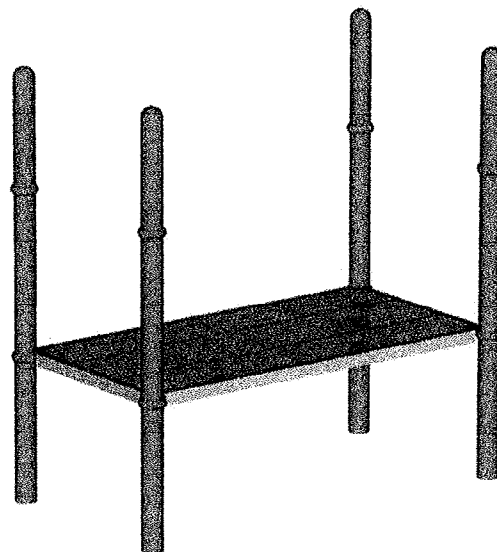
**Parallelogram Deck (Open)**

Model # 714-507-9 requires six (6) Posts.



**Rectangle Deck (Full)**

Model # 714-508-9 requires four (4) Posts.



**Decks**

714-501-9, 714-502-9, 714-503-9, 714-504-9, 714-505-9, 714-506-9, 714-507-9, 714-508-9, 714-509-9, 714-510-9, 714-512-9, 714-517-9

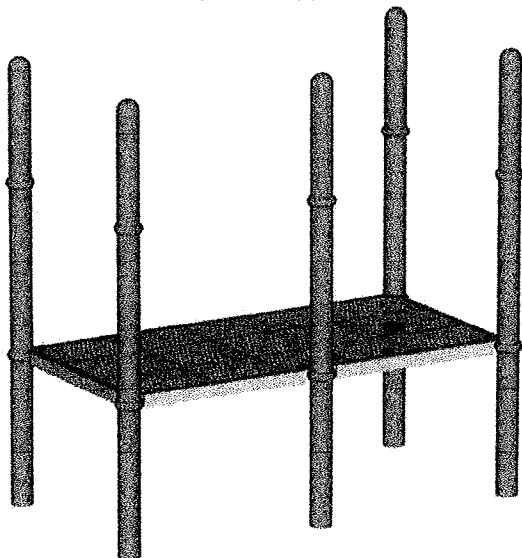


Kids' Choice<sup>®</sup> - Mira-Therm II  
**Decks**

**714-509-9 & 714-510-9**

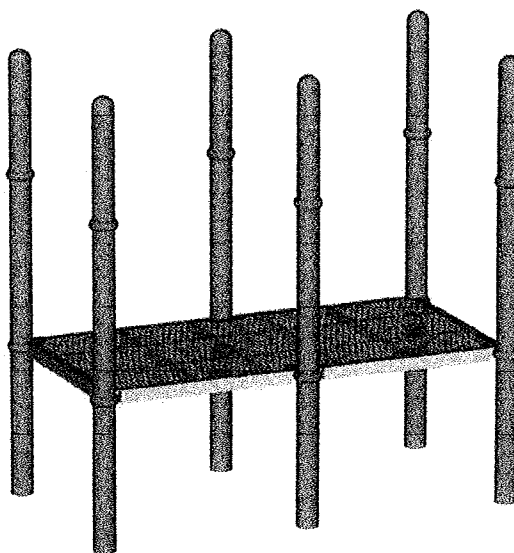
**Rectangle Deck (Half Open)**

*Model # 714-509-9 requires five (5) Posts.*



**Rectangle Deck (Open)**

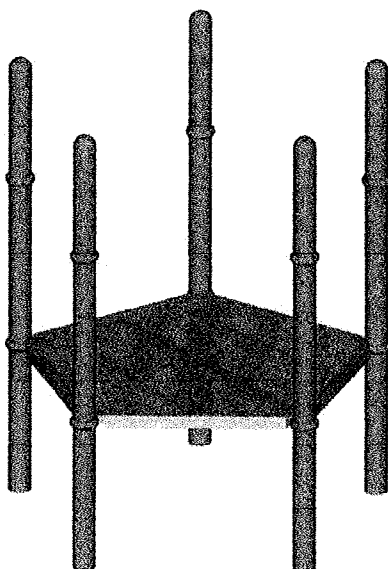
*Model # 714-510-9 requires six (6) Posts.*



**714-512-9 & 714-517-9**

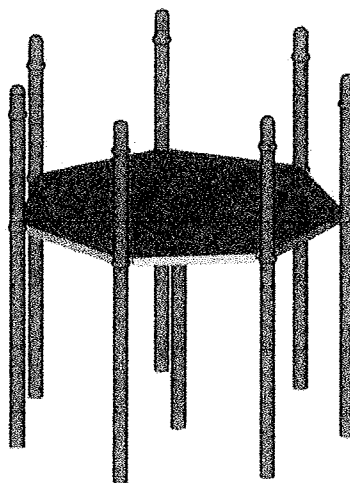
**Pentagon Deck**

*Model # 714-512-9 requires five (5) Posts.*



**Heptagon Deck**

*Model # 714-517-9 requires seven (7) Posts and one (1) middle support post.*



**Decks**

714-501-9, 714-502-9, 714-503-9, 714-504-9, 714-505-9, 714-506-9, 714-507-9,  
714-508-9, 714-509-9, 714-510-9, 714-512-9, 714-517-9



Kids' Choice\* - Mira-Therm II  
Decks

<u>MODEL #</u>	<u>PRODUCT</u>	<u>POSTS REQ'D</u>	<u>DECK SURFACE</u>	<u>CONCRETE</u>
714-501-9	Triangle Deck	3	7 sq. ft.	See Post specs
714-502-9	Square Deck	4	16 sq. ft.	"
714-503-9	Half Hex Deck (Full)	4	21 sq. ft.	"
714-504-9	Half Hex Deck (Open)	5	21 sq. ft.	"
714-505-9	Parallelogram Deck (Full)	4	28 sq. ft.	"
714-506-9	Parallelogram Deck (Half Open)	5	28 sq. ft.	"
714-507-9	Parallelogram Deck (Open)	6	28 sq. ft.	"
714-508-9	Rectangle Deck (Full)	4	32 sq. ft.	"
714-509-9	Rectangle Deck (Half Open)	5	32 sq. ft.	"
714-510-9	Rectangle Deck (Open)	6	32 sq. ft.	"
714-512-9	Pentagon Deck	5	26.5 sq. ft.	"
714-517-9	Heptagon Deck	7	55 sq. ft.	"

**DESCRIPTION**

Mira-Therm II deck models include an equilateral triangle deck, a square deck, three rectangular decks, three parallelogram decks, a pentagon deck, and a heptagon deck. Decks are designed for maximum flexibility in height of deck surface, from 0" to 6'-6" (in 6" increments), though 3', 5', and 6'-6" are considered standard deck heights.

Decks are designed on a 48" center-to-center spacing on 5" deck posts, at equal or varied heights. All deck-to-post connections are made with a deck support clamp. All deck connections are made beneath deck with no exposed fasteners on deck perimeter. Decks with 8' wide open side are designed to attach to another deck with 8' wide open side at same deck height.

**MATERIALS**

**Decks:** All decks shall be constructed with folded 11 ga. steel sheet forming 3" tall sides. Decking sheets shall be perforated with a staggered pattern of 3/8" diameter holes at 5/8" apart center-to-center. The decking shall have 7 ga. by 2" flat steel braces and corner braces of 7 ga. steel. The entire assembly shall be solid welded prior to PVC coating.

**Fasteners:** Deck assemblies shall contain Versalok Fasteners and Fastener Style A hardware.

**Finishes:** All deck surfaces shall be coated in Mira-Therm. Clamps shall have a Mira-Cote finish.

Consult Miracle's "Glossary of Technical Data for Materials, Processes & Finishes" for specifications of underlined items.

Decks

714-501-9, 714-502-9, 714-503-9, 714-504-9, 714-505-9, 714-506-9, 714-507-9, 714-508-9, 714-509-9, 714-510-9, 714-512-9, 714-517-9



# Product Specifications

May 3, 2005

Rev. A

**MIRACLE**  
RECREATION EQUIPMENT COMPANY

Kids' Choice®

Steel Posts - 5" O.D., 13 ga. Round Tube

## Steel Posts - 5" O.D., 13 ga.



MODEL	DESCRIPTION	USES	PART #
714-551-3	106" Deck Post .....	2'-6" Decks & less	990728P
714-552-3	136" Deck Post .....	3' to 5' Decks .....	990729P
714-553-3	160" Deck Post .....	5'-6" to 6'-6" Decks	990730P
714-554-3	178" Deck Post .....	7' to 8' Decks .....	990731P
714-556-3	196" Deck Post .....	10' Deck .....	990808P
714-571-3	106" Post (Roof).....	Ground Level.....	213008P
714-572-3	144" Deck Post (Roof) .....	3' Decks & less .....	990734P
714-573-3	168" Deck Post (Roof) .....	3'-6" to 5' Decks .....	990735P
714-574-3	186" Deck Post (Roof) .....	5'-6" to 6'-6" Decks	990736P
714-575-3	196" Deck Post (Uses 2 for Flippo Roof)	6'-6" Deck.....	990809P
714-576-3	204" Deck Post (Roof) .....	8' Deck .....	213018P

5" O.D., 13 ga. Steel Posts

714-551-3, 714-552-3, 714-553-3, 714-554-3, 714-556-3, 714-571-3, 714-572-3, 714-573-3, 714-574-3, 714-575-3, 714-576-3



Kids' Choice™  
Steel Posts

**CONCRETE**

0.13 cubic yards required per Post

**DESCRIPTION**

Posts are used for support of deck systems and freestanding components.

**MATERIALS**

**Steel Post Assembly:**

Steel posts shall be constructed of 5" tube. Posts not designed for roof assemblies shall have 5" round end caps pressed in at the factory.

**Aluminum Post Assembly:**

Aluminum posts shall be constructed of 5" aluminum tube. Posts not designed for roof assemblies shall have 5" round end caps pressed in at the factory.

**Fasteners:**

Components shall be field assembled to Posts by means of Versalok Fasteners, Fastener Style A hardware and/or Fastener Style B hardware.

**Finishes:**

Post assemblies and clamps shall have a Mira-Cote finish.

5" O.D., 13 ga. Steel Posts

714-551-3, 714-552-3, 714-553-3, 714-554-3, 714-556-3, 714-571-3, 714-572-3,  
714-573-3, 714-574-3, 714-575-3, 714-576-3

Consult Miracle's "Glossary of Technical Data for Materials, Processes and Finishes" for specifications of underlined items.



# Product Specifications

February 20, 2009

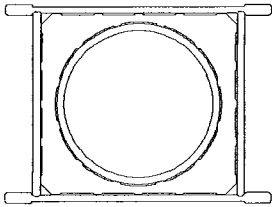
Rev. 8

**MIRACLE**  
RECREATION EQUIPMENT COMPANY

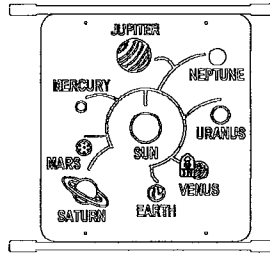
Kids' Choice<sup>®</sup>

Imagination Panels & Activity Panels - Below Deck

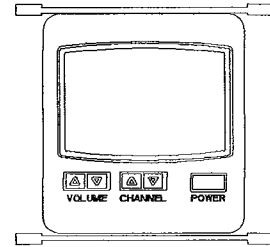
**714-602-6B:**  
Steel Panel, Crawl Through



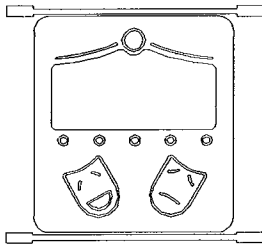
**714-617-B:**  
Space Ship Panel



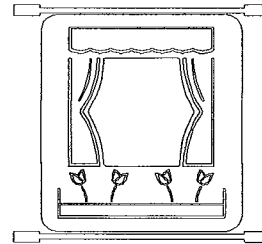
**714-713-1B:**  
Television Panel



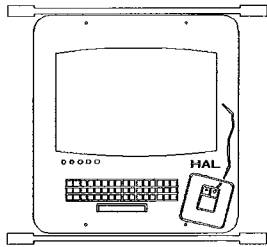
**714-713-2B: Puppet Stage Panel**



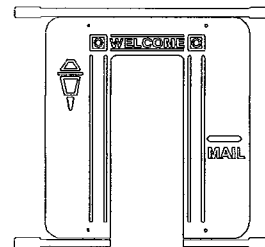
**714-713-3B: Window Panel**



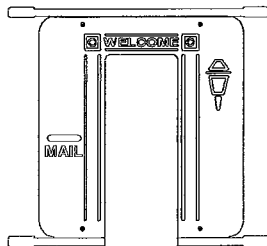
**714-713-4B: Computer Panel**



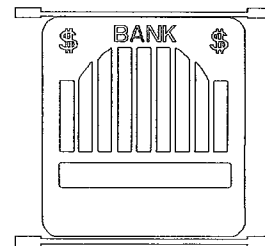
**714-713-5B: Door Panel**



**714-713-5RB: Door Panel, Reversed**



**714-713-6B: Bank Teller Panel**



Imagination & Activity Panels (Below Deck)

714-602-6B, 714-617-B, 714-713-1B, 714-713-2B, 714-713-3B, 714-713-4B, 714-713-5B, 714-713-5RB, 714-713-6B, 714-713-7B, 714-714-1B, 714-714-2B, 714-714-3B, 714-714-4B, 714-714-5B, 714-714-6B, 714-714-7B, 714-714-8B, 714-715-1B, 714-715-2B, 714-715-3B, 714-715-4B, 714-715-5B, 714-715-6B, 714-715-7B, 714-715-8B, 714-715-9B, 714-714-11B, 714-715-10B, 714-715-11B, 714-715-12B, 714-715-13B, 714-761-2B, 714-761-3B, 714-761-4B





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RECREATION EQUIPMENT COMPANY

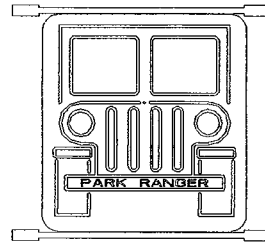
Kids' Choice<sup>®</sup>

# Imagination Panels & Activity Panels - Below Deck

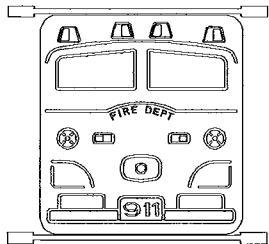
**714-713-7B: General Store Panel**



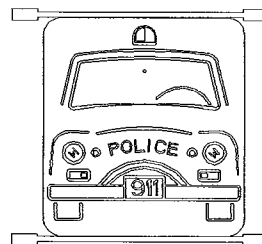
**714-714-1B: Park Ranger Panel**



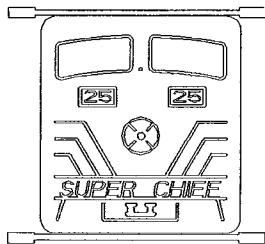
**714-714-2B: Fire Truck Panel**



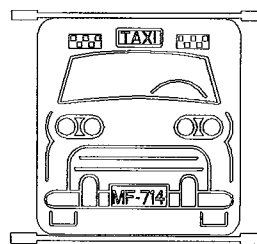
**714-714-3B: Police Panel**



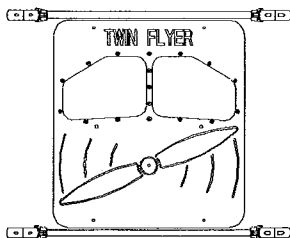
**714-714-4B: Train Panel**



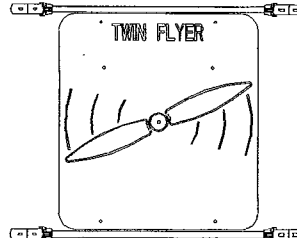
**714-714-5B: Taxi Panel**



**714-714-6B: Pilot Panel With Window**



**714-714-7B: Pilot Panel**



**Imagination & Activity Panels (Below Deck)**

714-602-6B, 714-617-B, 714-713-1B, 714-713-2B, 714-713-3B, 714-713-4B, 714-713-5B, 714-713-5RB, 714-713-6B, 714-713-7B, 714-714-1B, 714-714-2B, 714-714-3B, 714-714-4B, 714-714-5B, 714-714-6B, 714-714-7B, 714-714-8B, 714-715-1B, 714-715-2B, 714-715-4B, 714-715-6B, 714-715-7B, 714-715-10B, 714-714-11B, 714-715-12B, 714-715-13B, 714-761-2B, 714-761-3B, 714-761-4B

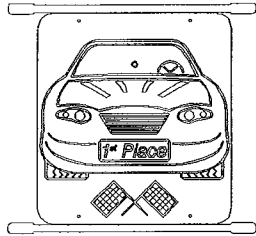


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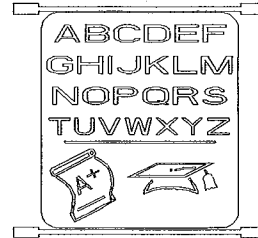
Kids' Choice<sup>+</sup>

# Imagination Panels & Activity Panels - Below Deck

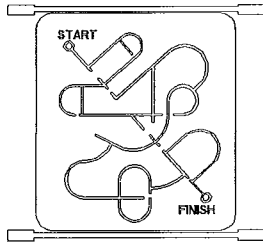
**714-714-8B: Race Car Panel**



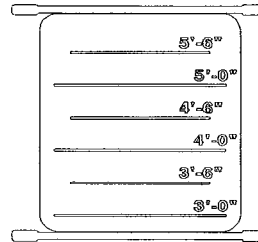
**714-715-1B: Alphabet Panel**



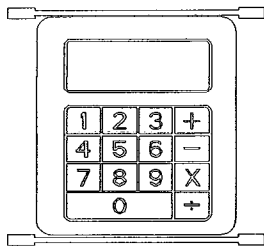
**714-715-2B: Finger Maze Panel**



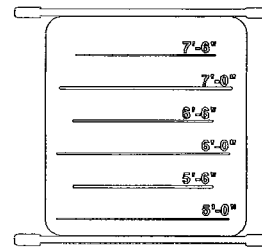
**714-715-3B: 3' Jump Panel**



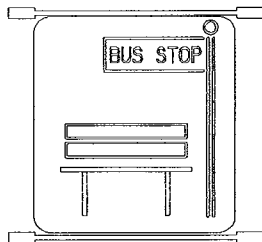
**714-715-4B: Calculator Panel**



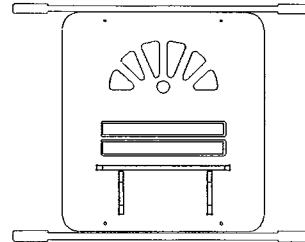
**714-715-5B: 5' Jump Panel**



**714-715-6B: Bus Stop Panel**



**714-715-7B: Rest Stop Panel**



**Imagination & Activity Panels (Below Deck)**

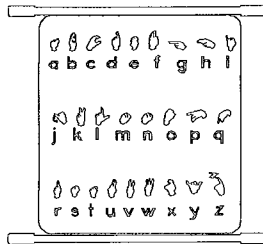
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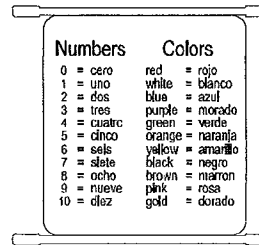
**MIRACLE**  
RECREATION EQUIPMENT COMPANY

Kids' Choice<sup>®</sup>  
**Imagination Panels & Activity Panels - Below Deck**

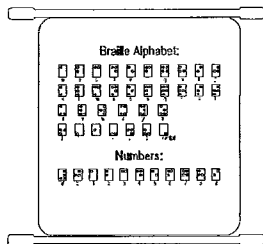
**714-715-10B: Sign Language Panel**



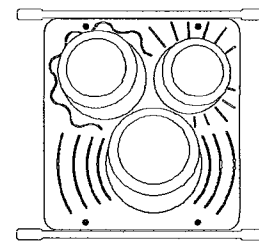
**714-715-11B: Spanish Panel**



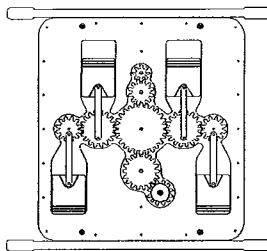
**714-715-12B: Braille Panel**



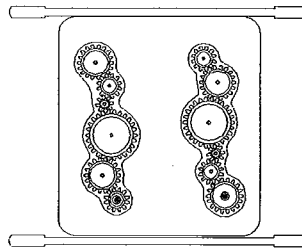
**714-715-13B: Calypso 3-Drum Panel**



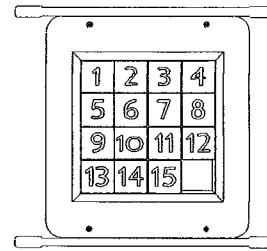
**714-761-2B: Piston Panel**



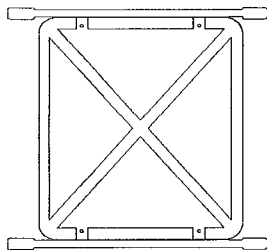
**714-761-3B: Gear Panel**



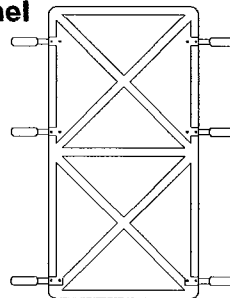
**714-761-4B: Sliding Tile Panel**



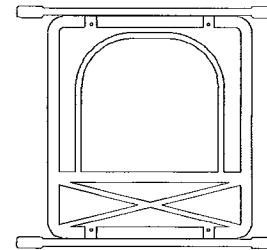
**714-895-1B: Barn Wall Panel**



**714-895-2B: Barn Door Panel**



**714-895-3B: Barn Window Panel**



**Imagination & Activity Panels (Below Deck)**

714-602-6B, 714-617-B, 714-713-1B, 714-713-2B, 714-713-3B, 714-713-4B, 714-713-5B, 714-713-6B, 714-713-6B, 714-713-7B, 714-714-1B, 714-714-2B, 714-714-3B, 714-714-4B, 714-714-5B, 714-714-6B, 714-714-7B, 714-714-8B, 714-715-1B, 714-715-2B, 714-715-4B, 714-715-6B, 714-715-7B, 714-715-10B, 714-714-11B, 714-715-12B, 714-715-13B, 714-761-2B, 714-761-3B, 714-761-4B



Kids' Choice™  
**Imagination Panels & Activity Panels - Below Deck**

<u>MODEL #</u>	<u>PRODUCT</u>	<u>MODEL #</u>	<u>PRODUCT</u>
714-620-6B	Steel Panel, Crawl Through	714-715-1B	Alphabet Panel
714-617-B	Space Ship Panel	714-715-2B	Finger Maze Panel
714-713-1B	Television Panel	714-715-3B	3' Jump Panel
714-713-2B	Puppet Stage Panel	714-715-4B	Calculator Panel
714-713-3B	Window Panel	714-715-5B	5' Jump Panel
714-713-4B	Computer Panel	714-715-6B	Bus Stop Panel
714-713-5B	Door Panel	714-715-7B	Rest Stop Panel
714-713-5RB	Door Panel, Reversed	714-715-10B	Sign Language Panel
714-713-6B	Bank Teller Panel	714-715-11B	Spanish Panel
714-713-7B	General Store Panel	714-715-12B	Braille Panel
714-714-1B	Park Ranger Panel	714-715-13B	Calypso 3-Drum Panel
714-714-2B	Fire Truck Panel	714-761-2B	Piston Panel
714-714-3B	Police Panel	714-761-3B	Gear Panel
714-714-4B	Train Panel	714-761-4B	Sliding Tile Panel
714-714-5B	Taxi Panel	714-895-2B	Barn Door Panel
714-714-6B	Pilot Panel with Window	714-895-1B	Barn Wall Panel
714-714-7B	Pilot Panel	714-895-3B	Barn Window Panel
714-714-8B	Race Car Panel		

**DESCRIPTION**

These representational activity panels, designed to stimulate imagination and creative play, may be freestanding, clustered or below deck. Vehicle-themed panels feature a steering wheel assembly. The Piston Panel and Gear Panel contain dynamic, user-driven parts sealed behind a transparent, tamper-resistant cover. The Sliding Tile Panel contains 15 routed, moveable tiles with one empty space challenging users to shift the tiles into proper sequence. The Calypso Panel allows musical expression with molded drums that may be struck with the hands to create different sounds.

**MATERIALS**

**Panels:** The panels shall be constructed of Mira-Lene with all corners rounded. Panels shall measure 36-1/2" x 40" and shall contain routed designs in several themes. The panel shall be supported between posts by top and bottom rungs of 1" pipe, each with two tabs of 11 ga. A-60 Galvannealed sheet, solid welded.

**Steel Panel, Crawl Through**  
 Model # 714-620-6B only  
 The steel crawl through panel shall comprise rungs and a ring of 1" pipe, Gator Grip, and a 7 ga. sheet, laser cut panel measuring 33-5/8" x 36".

**Pilot Panel w/ Window:**  
 Model # 714-714-6B only  
 In addition to the above materials and specifications, Model # 714-714-6B shall feature a window of clear polycarbonate mechanically fastened to panel.

**Barn Door Panel:**  
 Model # 714-895-2B only  
 In addition to the above materials and specifications, Model # 714-895-2B shall be supported between posts by top, middle and bottom rungs of 1" pipe, each with two tabs of 11 ga. A-60 Galvannealed sheet, solid welded. Panel shall measure 36-1/2" x 71-1/2".

**...continued next page**

Consult Miracle's "Glossary of Technical Data for Materials, Processes & Finishes" for specifications of underlined items.

**Imagination & Activity Panels (Below Deck)**

714-602-6B, 714-617-B, 714-713-1B, 714-713-2B, 714-713-3B, 714-713-4B, 714-713-5B, 71 4-713-5RB, 714-713-6B, 714-713-7B, 714-714-1B, 714-714-2B, 714-714-3B, 714-714-4B, 714-714-5B, 714-714-6B, 714-714-7B, 714-714-8B, 714-715-1B, 714-715-2B, 714-715-4B, 714-715-7B, 714-715-10B, 714-715-11B, 714-715-12B, 714-715-13B, 714-761-2B, 714-761-3B, 714-761-4B



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## Imagination Panels & Activity Panels - Below Deck

### MATERIALS (continued)

**Gear Panel and  
Piston Panel:**

Model # 714-761-3B  
and # 714-761-2B only

In addition to above materials and specifications, Model # 714-761-3B shall contain a clear polycarbonate cover mechanically fastened over two side-by-side sets of 1/4" thick gears, to be constructed of high-density polyethylene, which shall turn on nylon bushings, except for the black nylon handles and drive gears which shall turn on bronze bushings. Its opposite side shall contain side-by-side routed finger mazes. Model # 714-761-2B shall contain a cover, gears and knob as described herein, and connecting rod and piston shapes of 1/4" thick high-density polyethylene as well. Its opposite side shall contain routed designs.

**Sliding Tile Panel:**

Model # 714-761-4B only

In addition to material and specifications detailed in "panels" paragraph, Model # 714-761-4B shall contain 15 moveable, tongue-and-groove tiles with routed numerals constructed of 1/4" thick high-density polyethylene.

**Calypso 3-Drum Panel:**

Model # 714-715-13B only

In addition to material and specifications detailed in "panels" paragraph above, model # 714-715-13B shall contain 3 rotational molded drums of low density polyethylene resin. Each drum is attached to the panel through a cover plate constructed of 11 ga. galvanized steel sheet with a Mira-Cote finish.

**Steering Wheel:**

The steering wheel on vehicle-themed panels shall be constructed of a high density polyethylene produced from high performance, U.V. stabilized rotational molding grade resins with a comprehensive additive package. These resins are tested in accordance with ASTM testing procedures D-1505, D-1248, D-1693 (b), D-638, D-790 and D-746. Resin's properties shall exhibit a balance of toughness, rigidity, environmental stress crack resistance and excellent low temperature impact performance. Wall thickness shall be 1/8". The steering wheel hub cover shall be constructed of injection molded polypropylene which shall contain U.V. light stabilizers. Model # 714-714-6B and # 714-714-7B contain two side-by-side steering wheels.

**Star Brackets:**

Themed for Space Ship Panel, star brackets shall be constructed of 11 ga. HRPO steel and powder coat painted.

**Fasteners:**

Each assembly shall contain Versalok Fasteners and Fastener Style A hardware.

**Finishes:**

The steering wheel and two-color panels shall have molded-in color. The rungs, clamps, and steel panel shall have a Mira-Cote finish.

Consult Miracle's "Glossary of Technical Data for Materials, Processes & Finishes" for specifications of underlined items.

Imagination & Activity Panels (Below Deck)

714-602-6B, 714-617-B, 714-713-1B, 714-713-2B, 714-713-3B, 714-713-4B, 714-713-5B, 714-713-6B, 714-713-7B, 714-714-1B, 714-714-2B, 714-714-3B, 714-714-4B, 714-714-5B, 714-714-6B, 714-714-7B, 714-714-8B, 714-715-1B, 714-715-2B, 714-715-4B, 714-715-6B, 714-715-10B, 714-715-11B, 714-715-12B, 714-715-13B, 714-761-2B, 714-761-3B, 714-761-4B



# Product Specifications

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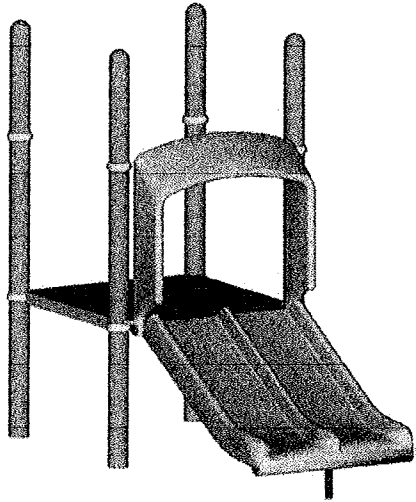
Kids' Choice®

## Side-by-Side Slide, Bump & Glide Slides & Bunny Hill Slide

Side-by-Side, Bump & Glide, and Bunny Hill Slides

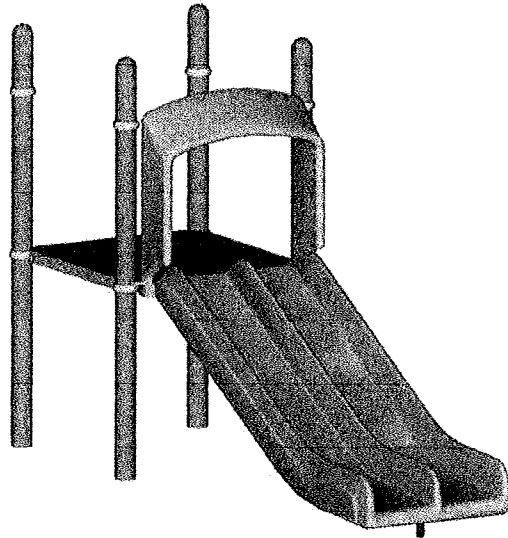
**714-700**

Side-by-Side Slide from 3' Deck



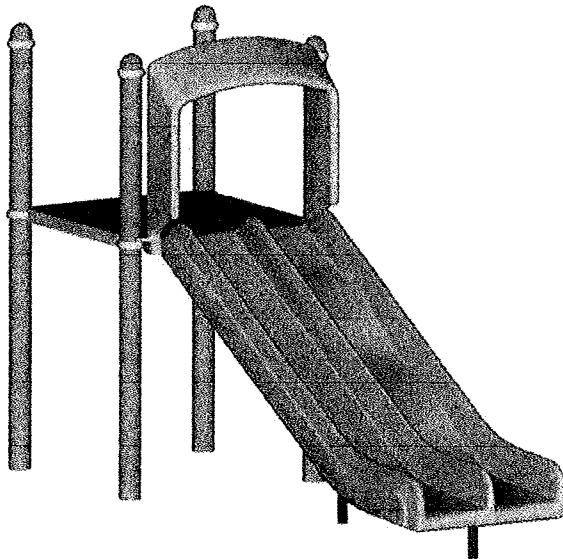
**714-728-4**

Bump & Glide Slide from 4' Deck



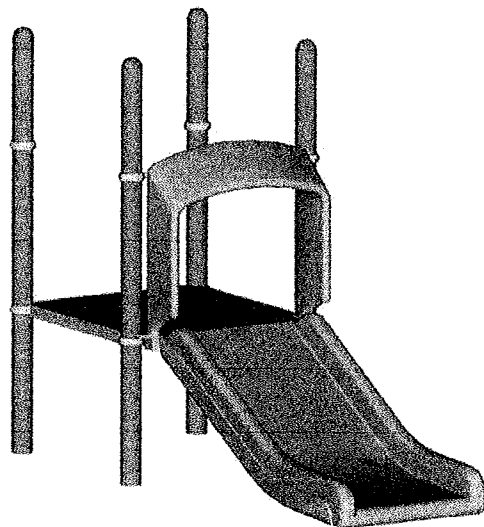
**714-728-5**

Bump & Glide Slide from 4'-6" to 5'-6" Deck



**714-736**

Bunny Hill Slide from 3' Deck





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RECREATION EQUIPMENT COMPANY

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## Side-by-Side Slide, Bump & Glide Slides & Bunny Hill Slide

<u>MODEL #</u>	<u>PRODUCT</u>	<u>GROUND SPACE</u>	<u>PROTECTIVE AREA</u>	<u>CONCRETE</u>
714-700	Side-by-Side Slide from 3' Deck	4'-1" x 5'-8"	16' x 18'-1"	.05 cu. yds.
714-728-4	Bump & Glide Slide from 4' Deck	4'-1" x 8'-11"	16'-1" x 22'-5"	.10 cu. yds.
714-728-5	Bump & Glide Slide from 4'-6" to 5'-6" Deck	4'-1" x 10'-1"	16'-1" x 24'-6"	.10 cu. yds.
714-736	Bunny Hill Slide from 3' Deck	4'-1" x 7'-5"	16'-3" x 19'-10"	.05 cu. yds.

### DESCRIPTION

Model # 714-700 is a dual bedway Groove slide for 3' Deck. Model # 714-728-4 and # 714-728-5 are double bedway slides for a 4' deck and 5' deck respectively, with one bedway Mogul, the other Groove. Model # 714-736 is a single wide-bedway Groove slide for a 3' deck. Each slide features a Rockite canopy.

### MATERIALS

**Side-by-Side Slide:** The slide shall be constructed of Rockite with threaded fasteners incorporated for assembly. # 714-700 The dimensions shall be: each bedway width, 17"; outside overall, 42"; rail width, 3"; top of bedway to top of rail, 4-1/2"; bedway thickness, 3"; and bedway length, 5'-5".

**Bump & Glide Slides:** The slide shall be constructed of Rockite with threaded fasteners incorporated for assembly. # 714-728-4 & # 714-728-5 The dimensions shall be: bedway width, 16-1/4"; outside overall, 40"; inside rail width, 1-1/4"; outside rail widths, 1-1/2"; top of bedway to top of rail, 7-1/2" - 8-1/2"; bedway thickness, 4-1/2" - 5-1/2"; and bedway length, approximately 8' (for # 714-728-4) and 10' (for # 714-728-5.)

**Bunny Hill Slide:** The slide shall be constructed of Rockite with threaded fasteners incorporated for assembly. # 714-736 The dimensions shall be: bedway width, 31-1/4"; outside overall, 40"; rail width, 3-5/8"; top of bedway to top of rail, 6-1/2"; and bedway thickness, 4-1/2".

**"T" Leg:** The front "T" leg, and middle leg for Model # 714-728-4 and # 714-728-5, shall comprise an upright and a top. The upright shall be constructed of 2" pipe with a 1-1/4" x 3-1/4" channel top constructed of 11 ga. sheet, welded to the upright in a "T" configuration.

**Canopy:** The canopy shall be constructed of Rockite with threaded fasteners incorporated for assembly. The canopy shall have an inside width of 39" and an outside width of 44" and shall be slanted at 37 degrees. It shall be field-attached to the posts via clamps and a 41-1/2" rung of 1" pipe.

**Fasteners:** Each assembly shall contain Versalok Fasteners and Fastener Style A hardware.

**Finishes:** The Rockite slide and canopy shall have color molded in. The legs, rung, and clamps shall have a Mira-Cote finish.

Consult Miracle's "Glossary of Technical Data for Materials, Processes and Finishes" for specifications of underlined items.

Side-by-Side, Bump & Glide, and Bunny Hill Slides



# Product Specifications

June 3, 2008

Rev. F

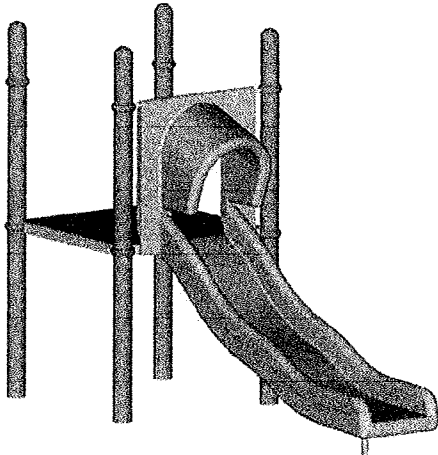
Kids' Choice<sup>®</sup>

**MIRACLE**  
RECREATION EQUIPMENT COMPANY

**Mogul Slides and Groove Slides** from 4', 4'-6" to 5'-6", 6'-6" and 8' Decks

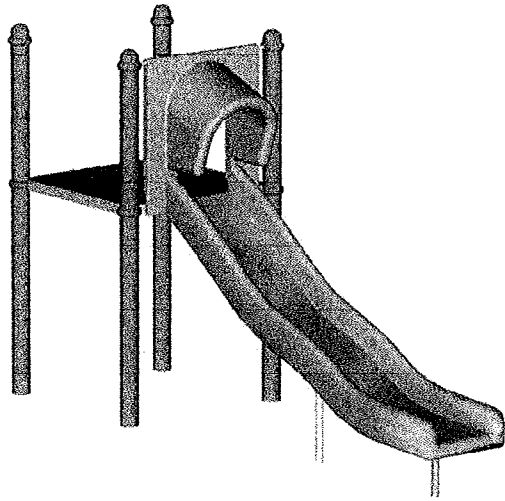
**714-726-4 and 714-726-5**

**Mogul Slide from 4' Deck**



**714-726-6 and 714-726-8**

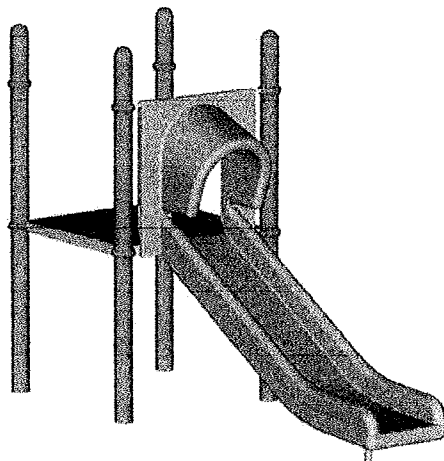
**Mogul Slide from 4'-6" to 5'-6" Deck**



Groove Slides  
shown below

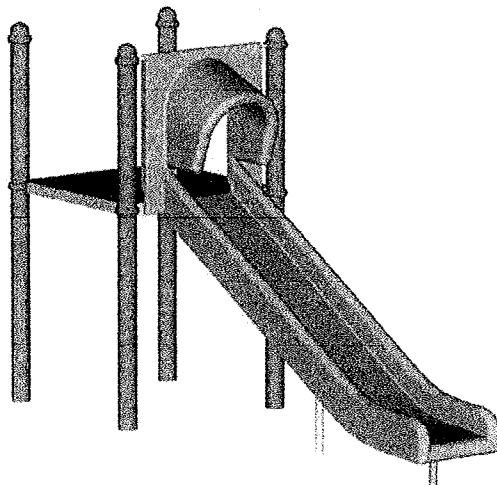
**714-727-4 and 714-727-5**

**Groove Slide from 4' Deck**



**714-727-6 and 714-727-8**

**Groove Slide from 4'-6" to 5'-6" Deck**



Mogul Slides  
shown above

Mogul Slides & Groove Slides

714-726-4, 714-726-5, 714-726-6, 714-726-8, 714-727-4, 714-727-5, 714-727-6, 714-727-8



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## MIRACLE Mogul Slides and Groove Slides

RECREATION EQUIPMENT COMPANY

<u>MODEL #</u>	<u>PRODUCT</u>	<u>DECK HT.</u>	<u>OVERALL HT.</u>	<u>GRND SPC.</u>	<u>PROT. AREA</u>	<u>CONCRETE</u>
714-726-4	Mogul Slide	4'	7'-2"	4'-0" x 7'-0"	21'-3" x 16'-1"	.05 cu. yds.
714-726-5	Mogul Slide	4'-6" to 5'-6"	7'-8" to 8'-8"	4'-0" x 8'-6"	23'-10" x 16'-1"	.10 cu. yds.
714-726-6	Mogul Slide	6'-6"	9'-8"	4'-0" x 11'-2"	27'-6" x 16'-1"	.10 cu. yds.
714-726-8	Mogul Slide	8'	11'-2"	4'-0" x 13'-4"	31'-11" x 16'-1"	.15 cu. yds.
714-727-4	Groove Slide	4'	7'-2"	4'-0" x 7'-0"	21'-3" x 16'-1"	.05 cu. yds.
714-727-5	Groove Slide	4'-6" to 5'-6"	7'-8" to 8'-8"	4'-0" x 8'-6"	23'-10" x 16'-1"	.10 cu. yds.
714-727-6	Groove Slide	6'-6"	9'-8"	4'-0" x 11'-2"	27'-6" x 16'-1"	.10 cu. yds.
714-727-8	Groove Slide	8'	11'-2"	4'-0" x 13'-4"	31'-11" x 16'-1"	.15 cu. yds.

### DESCRIPTION

The Mogul Slides and Groove Slides feature hooded canopies and are designed to exit from 4', 5', 6'-6" and 8' Decks.

### MATERIALS

- Slide:** The canopy panel and one-piece slides shall be constructed of double wall Rockite. The slides shall have 6" high side rails, an overall width of 25", and an 18" wide sliding surface. The canopy panel shall be field mounted to deck and to post clamps via a 41-1/2" long rung constructed of 1" pipe.
- Legs:** The legs shall be 2" pipe, welded to an 11 ga. A-60 Galvannealed mounting bracket.
- Fasteners:** Each assembly shall contain Versalok Fasteners and Fastener Style A hardware.
- Finishes:** The rung, legs, and clamps shall have a Mira-Cote finish. The Rockite slide and canopy shall have molded-in color.

Consult Miracle's "Glossary of Technical Data for Materials, Processes and Finishes" for specifications of underlined items.

Mogul Slides &amp; Groove Slides

714-726-4, 714-726-5, 714-726-6, 714-726-8, 714-727-4, 714-727-5, 714-727-6, 714-727-8



# Product Specifications

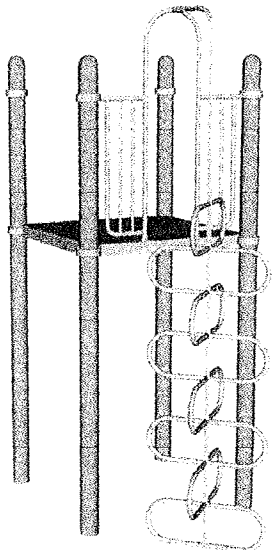
Kids' Choice<sup>®</sup>  
**Vertical Climbers** Trap Door Climber, Climbing Pole, Spider Climber,  
Spiral Climber, Wiggly Worm Climber & Bumper Ladder

714-731\*, 714-731-6 & 714-808, 714-808-8\*

714-974-8,  
714-976-3,  
714-976-5,  
714-976-6 on pg. 2

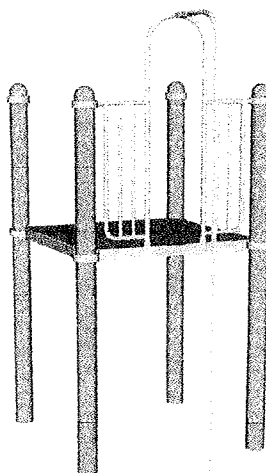
### Trap Door Climber for 6'-6" Deck

\* Model # 714-731 Trap Door Climber for 3' or 5' Deck not shown.



### Climbing Pole for 3', 5' or 6'-6" Deck

\* Model # 714-808-8 Climbing Pole for 8' Deck not shown.

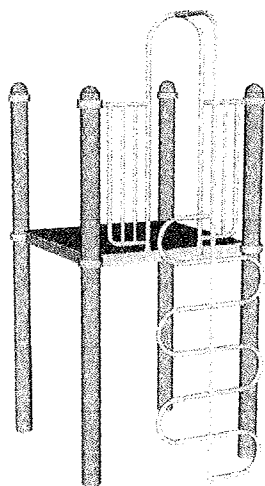


714-908, 714-969 & 714-969-5

714-908, 714-969 & 714-969-5

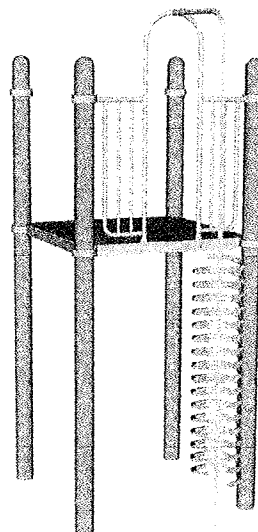
714-974-8,  
714-976-3,  
714-976-5,  
714-976-6 on pg. 2

### Spider Climber for 3', 5' or 6'-6" Deck



### Spiral Climber for 6'-6" Deck

\* Model # 714-969-5 Spiral Climber for 3' or 5' Deck not shown.



Vertical Climbers

714-731, 714-731-6, 714-808, 714-808-8, 714-908, 714-969, 714-969-5,  
714-974-8, 714-976-3, 714-976-5, 714-976-6



## Kids' Choice<sup>®</sup> Vertical Climbers

<u>MODEL #</u>	<u>PRODUCT</u>	<u>GRND SPC</u>	<u>PROT. AREA</u>	<u>CONCRETE</u>
714-731	Trap Door Climber, 3' or 5' Deck	3'-0" x 3'-0"	9'-0" x 15'-0"	0.05 cu. yds.
714-731-6	Trap Door Climber, 6'-6" Deck	3'-0" x 3'-0"	9'-0" x 15'-0"	0.05 cu. yds.
714-808	Climbing Pole, 3', 5' or 6'-6" Deck	3'-0" x 3'-0"	9'-0" x 15'-0"	0.05 cu. yds.
714-808-8	Climbing Pole, 8' Deck	3'-0" x 3'-0"	9'-0" x 15'-0"	0.05 cu. yds.
714-908	Spider Climber, 3', 5' or 6'-6" Deck	3'-0" x 3'-0"	9'-0" x 15'-0"	0.05 cu. yds.
714-969	Spiral Climber, 6'-6" Deck	3'-0" x 3'-0"	9'-0" x 15'-0"	0.05 cu. yds.
714-969-5	Spiral Climber, 5' Deck	3'-0" x 3'-0"	9'-0" x 15'-0"	0.05 cu. yds.
714-974-8	Wiggly Worm Climber, 5', 6'-6" or 8' Deck	3'-0" x 3'-9"	9'-0" x 15'-9"	0.05 cu. yds.
714-976-3	Bumper Ladder, 3' Deck	3'-0" x 3'-0"	9'-0" x 15'-0"	0.05 cu. yds.
714-976-5	Bumper Ladder, 5' Deck	3'-0" x 3'-0"	9'-0" x 15'-0"	0.05 cu. yds.
714-976-6	Bumper Ladder, 6'-6" Deck	3'-0" x 3'-0"	9'-0" x 15'-0"	0.05 cu. yds.

### DESCRIPTION

These challenging vertical climbers are used for access to and egress from deck systems of various heights. The assemblies contain arched enclosures for field assembly to decks.

### MATERIALS

- Trap Door Climber:** The pole shall be die-formed 1-1/4" pipe. The pole extension and "U" shaped rungs shall be die-formed 1" pipe. The assembly shall be solid welded.
- Climbing Pole:** The climbing pole shall be constructed of 1" pipe, 12 ga.
- Spider Climber:** The pole and "U" shaped rungs shall be die-formed 1" pipe. The spider climber shall be a welded assembly.
- Spiral Climber:** The spiral climber and extension tube shall be entirely constructed of 1" pipe, formed, drilled and all solid welded construction with plastic pipe plugs inserted in open ends.
- Wiggly Worm Climber:** The assembly shall comprise loops solid welded to frames, all of 1-1/4" pipe, 10 ga.
- Bumper Ladder:** The "top" shaped bumper shall be constructed of Rockite supported internally by a pole constructed of 1" pipe, 10 ga. Each bumper shall measure 18" high x 19" wide.
- Arch Enclosure:** The enclosure assembly shall consist of top supports, an extension tube, and an arched upright, which shall be constructed of 1" pipe, drilled, formed, and mashed, and vertical rungs which shall be constructed of 1" tube. The enclosure assembly shall be solid welded.
- Fasteners:** The assembly shall contain Versalok Fasteners and Fastener Style A hardware.
- Finishes:** The climber assemblies, arch enclosure, and clamps shall have a Mira-Cote finish. The Rockite bumpers used on Bumper Ladders shall have color molded in.

Consult Miracle's "Glossary of Technical Data for Materials, Processes and Finishes" for specifications of the underlined items.

Vertical Climbers

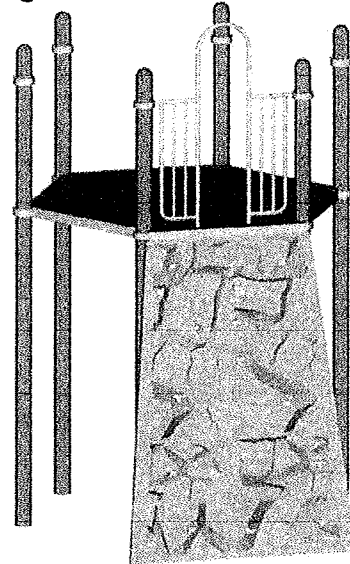
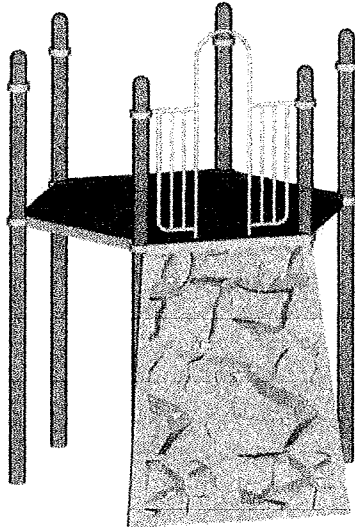
714-731, 714-731-6, 714-808, 714-808-8, 714-908, 714-969, 714-969-5, 714-974-8, 714-976-3, 714-976-5, 714-976-6

Kids' Choice<sup>®</sup>  
**Fossil Bluff Wall System**

**714-738-66 & 714-738-68**

**Fossil Bluff Wall System for 6'-6" High Hexagon Deck**

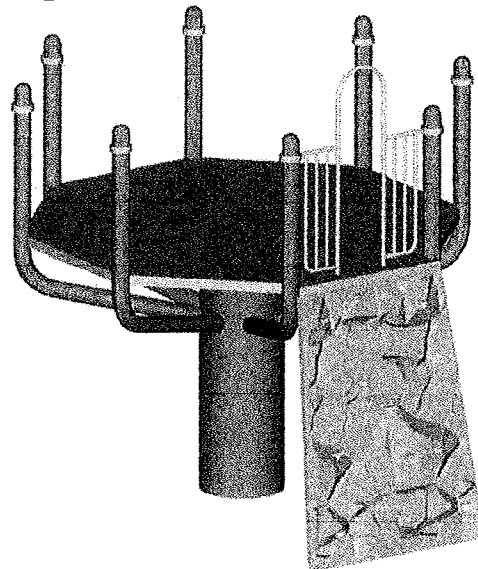
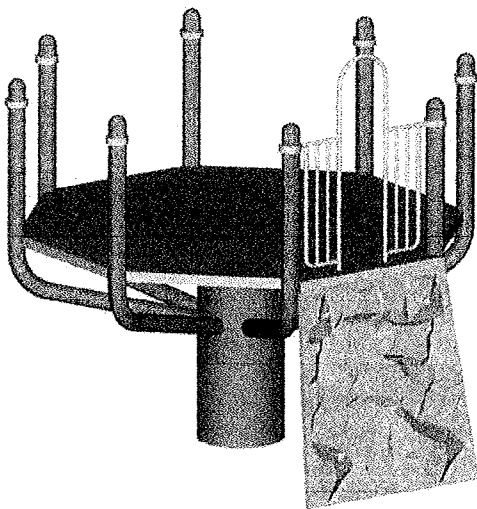
**Fossil Bluff Wall System for 8' High Hexagon Deck**



**Fossil Bluff Wall System for 5' High Octagon Deck**

**714-738-85 & 714-738-86**

**Fossil Bluff Wall System for 6'-6" High Octagon Deck**



Kids' Choice™

**Fossil Bluff Wall System**

<u>MODEL #</u>	<u>PRODUCT</u>	<u>GROUND SPACE</u>	<u>PROT. AREA</u>	<u>CONCRETE</u>
714-738-45	Fossil Bluff Wall System, 5', Square	1'-4" x 6'-0"	13'-10" x 17'-9"	0.10 cu. yds.
714-738-46	Fossil Bluff Wall System, 6'-6", Square	1'-7" x 6'-6"	14'-1" x 19'-0"	0.10 cu. yds.
714-738-48	Fossil Bluff Wall System, 8', Square	1'-10" x 7'-0"	14'-4" x 19'-6"	0.10 cu. yds.
714-738-65	Fossil Bluff Wall System, 5', Hexagon	1'-4" x 5'-2"	13'-10" x 17'-7"	0.10 cu. yds.
714-738-66	Fossil Bluff Wall System, 6'-6", Hexagon	1'-7" x 5'-5"	14'-1" x 17'-11"	0.10 cu. yds.
714-738-68	Fossil Bluff Wall System, 8', Hexagon	1'-10" x 5'-8"	14'-4" x 17'-11"	0.10 cu. yds.
714-738-85	Fossil Bluff Wall System, 5', Octagon	1'-3" x 4'-8"	13'-9" x 17'-3"	0.10 cu. yds.
714-738-86	Fossil Bluff Wall System, 6'-6", Octagon	1'-7" x 4'-11"	14'-1" x 17'-3"	0.10 cu. yds.
714-738-88	Fossil Bluff Wall System, 8', Octagon	1'-10" x 5'-2"	14'-4" x 17'-3"	0.10 cu. yds.

**DESCRIPTION**

The inclined rock walls are designed for attachment to 5', 6'-6", or 8' decks and contain an arch entry enclosure. The climbing surface features realistic shapes, dimensions and textures of a natural stone escarpment, and factory-assembled climbing stubs.

**MATERIALS**

- Arch Entry Enclosure:** The arch entry enclosure shall consist of a frame (top and inside support rails) of 1" pipe, and an arched upright and vertical rungs within the frame of 1" tube, all solid welded.
- Panel:** The panel shall be constructed of Rockite. The climbing stubs shall be constructed of molded sand and polyester resin mixture.
- Frame:** The frame shall be constructed of 1-1/2" square tube, solid welded.
- Fill Block:** The fill block shall be constructed of 11 ga. A-60 Galvannealed sheet steel.
- Fasteners:** The assembly shall contain Versalok Fasteners and Fastener Style A hardware.
- Finishes:** The clamps, enclosure and frame shall be finished in Mira-Cote. The fill block shall be finished in Mira-Therm. The panel and climbing stubs shall have molded in color.

Consult Miracle's "Glossary of Technical Data for Materials, Processes & Finishes" for specifications of underlined items.



# Product Specifications

January 26, 2005

Rev. D

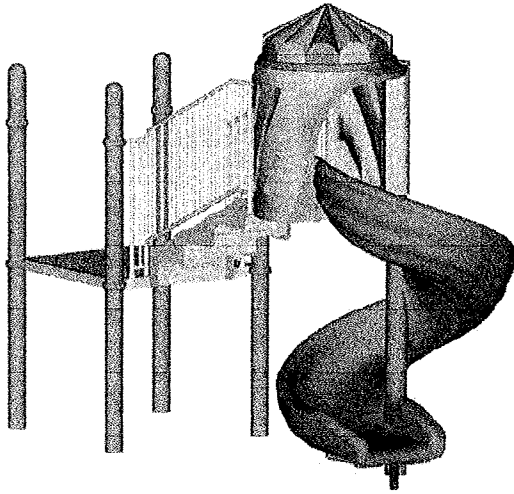
**MIRACLE**  
RECREATION EQUIPMENT COMPANY

Kids' Choice® - Mira-Therm II

Typhoon II Slides from 4', 5' and 6'-6" Decks

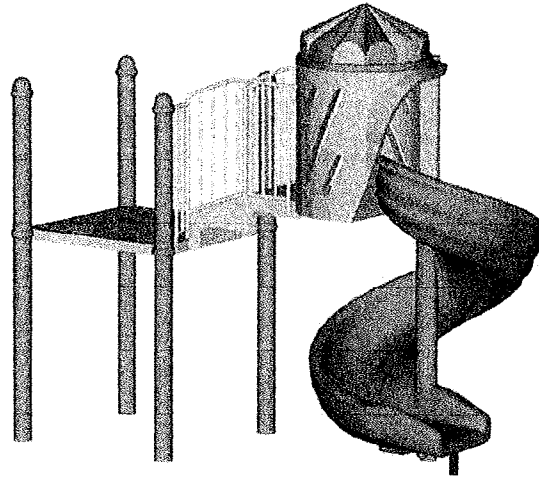
714-748-49 and 714-748-59

Typhoon II Slide from 4' Deck, 360°



714-748-59

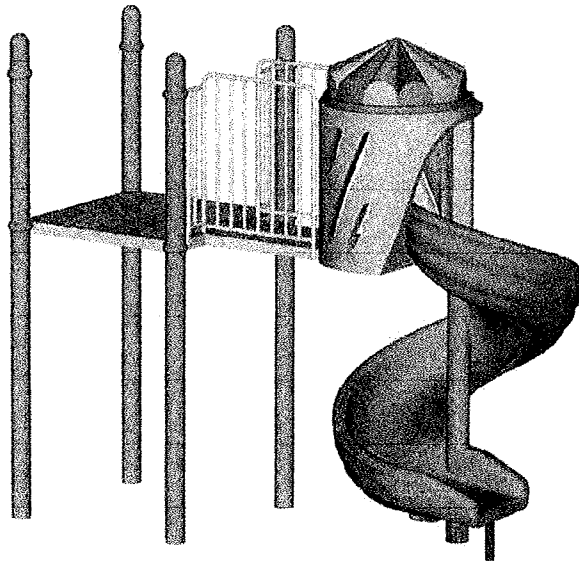
Typhoon II Slide from 5' Deck 360°



714-748-69

714-748-69

Typhoon II Slide from 6'-6" Deck, 360°



Typhoon II Slides

714-748-49, 714-748-59, 714-748-69



**MIRACLE**  
RECREATION EQUIPMENT COMPANY

Kids' Choice<sup>®</sup> - Mira-Therm II

## Typhoon II Slides from 4', 5' and 6'-6" Decks

<u>MODEL #</u>	<u>PRODUCT</u>	<u>OVERALL HT.</u>	<u>GRND. SPC.</u>	<u>PROT. AREA</u>	<u>CONCRETE</u>
714-748-49	Typhoon II Slide from 4' Deck	approx. 10'-2"	8'-9" x 5'-10"	23'-5" x 18'-5"	0.35 cu. yds.
714-748-59	Typhoon II Slide from 5' Deck	approx. 10'-2"	7'-6" x 5'-10"	22'-4" x 18'-5"	0.35 cu. yds.
714-748-69	Typhoon II Slide from 6'-6" Deck	approx. 10'-2"	7'-6" x 5'-10"	22'-4" x 18'-5"	0.35 cu. yds.

### DESCRIPTION

The Typhoon II spiral slides are 360° one-piece open bedway slides, with 6'-2" platform, barrel canopy and step or ramp assembly, designed for attachment to 4', 5' and 6'-6" decks.

### MATERIALS

- Slide Assembly:** The slide bedway shall be constructed of 1/4" to 5/16" wall Rockite. The slide bedway shall be 30" wide with a 15" high side wall. The center post shall be constructed of 4-1/2" tube.
- Step Assembly:** The step assembly shall be constructed of 11 ga. steel sheet folded and perforated with a staggered pattern of 3/8" diameter holes at 5/8" apart center-to-center, solid welded to stringers of 11 ga. black steel.
- Handrail Assembly:** The handrail assembly shall consist of a top and bottom rail and newel post formed, constructed of 1" pipe with infill of 3/4" x 1" oval tube. The step enclosure assembly shall be solid welded. Plastic pipe plugs shall close open ends.
- Deck Enclosures:** The deck enclosures shall consist of a vertical rail, and top and bottom rail, formed, constructed of 1" pipe with an upright of 3/4" x 1" oval tube, and 3/8" aluminum inserts in the rail ends for attachment to the step enclosures. The deck enclosure assemblies shall be solid welded.
- Platform and Canopy:** The 35" platform barrel shall be Rockite, with a Rockite canopy available in either one solid color or trimmed in two alternating colors. The barrel shall have molded-in view grooves for viewing children.
- Back-up Plate:** The back-up plates used to connect the step assembly and the barrel shall be constructed of 1/4" x 1" x 6" flat steel.
- Front Leg:** The front leg shall be constructed of 2" pipe and shall be attached to the slide using a channel constructed of 7 ga. sheet.
- Fasteners:** The assembly shall contain Versalok Fasteners and Fastener Style A hardware.
- Finishes:** The Rockite slide and platform canopy shall have color molded in. The step shall be finished in Mira-Therm. The handrail assemblies, deck enclosures, front leg, and clamps shall have a Mira-Cote finish. The back-up plate shall have a zinc plate finish.

Consult Miracle's "Glossary of Technical Data for Materials, Processes and Finishes" for specifications of underlined items.

Typhoon II Slides

714-748-49, 714-748-59, 714-748-69



# Product Specifications

February 10, 2006

Rev. B

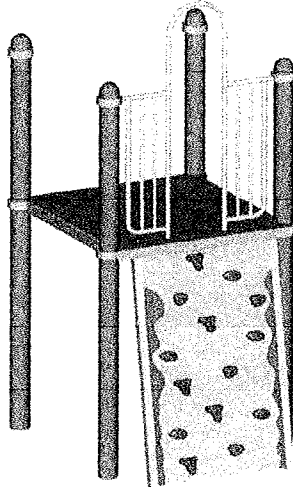
Kids' Choice™

**MIRACLE**  
RECREATION EQUIPMENT COMPANY

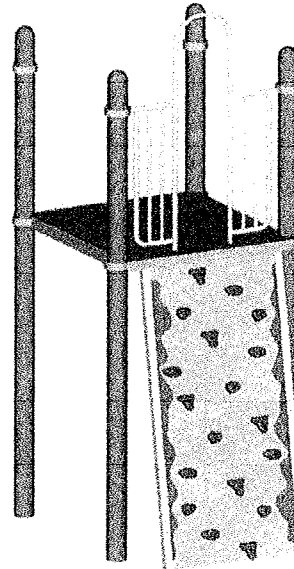
## Sloped Climbing Walls for 4' & 5' Decks, 6'-6" Deck & 8' Deck

714-757-25 and 714-757-26

Sloped Climbing Wall for 4' & 5' Decks Deck



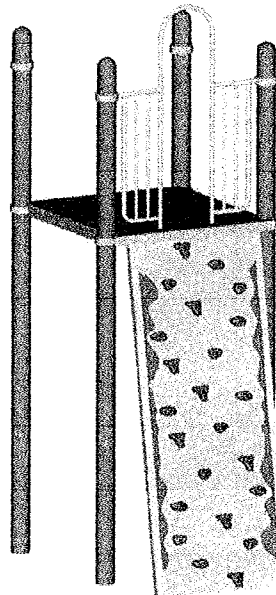
Sloped Climbing Wall for 6'-6" Deck



714-757-28

714-757-28

Sloped Climbing Wall for 8' Deck



Sloped Climbing Walls

714-757-25, 714-757-26, 714-757-28





**MIRACLE**  
RECREATION EQUIPMENT COMPANY

Kids' Choice<sup>®</sup>  
**Sloped Climbing Walls**

<u>MODEL #</u>	<u>PRODUCT</u>	<u>GRND. SPC.</u>	<u>PROT. AREA</u>	<u>CONCRETE</u>
714-757-25	Sloped Climbing Wall for 4' & 5' Decks	1'-7" x 4'-0"	14'-0" x 15'-9"	0.10 cu. yds.
714-757-26	Sloped Climbing Wall for 6'-6" Deck	1'-7" x 4'-0"	14'-0" x 15'-9"	0.10 cu. yds.
714-757-28	Sloped Climbing Wall for 8' Deck	1'-11" x 4'-0"	14'-5" x 15'-9"	0.10 cu. yds.

**DESCRIPTION**

These ground-to-deck sloped climbing walls challenge most users and feature an arch entry enclosure.

**MATERIALS**

- Panels:** The panel sections shall be constructed of sheets of high density polyethylene. The climbing holds shall be constructed of molded sand and polyester resin mixture.
- Frame:** The frame shall comprise vertical outer rails (which serves as legs) constructed of 11 ga., 2" square tube, solid welded to horizontal support rails of 1-1/2" square tube and 11 ga. galvanized, 1-1/2" x 3" rectangular tube.
- Fill Block:** The fill block shall be folded 11 ga. steel sheet, perforated with a staggered pattern of 3/8" diameter holes at 5/8" apart, center-to-center, solid welded with 7 ga. by 2" flat steel braces. TCX Model # 704-757-25, Model # 704-757-26, and Model # 704-757-28 shall be solid welded with 11 ga. by 2" flat steel braces.
- Arch Entry Enclosure:** The arch entry enclosure shall consist of a frame (top and inside support rails), an arched upright, and vertical rungs within the frame. The rails shall be constructed of 1" pipe and the archway and vertical rungs shall be constructed of 1" tube, all solid welded.
- Fasteners:** The assembly shall contain Versalok Fasteners and Fastener Style A hardware.
- Finishes:** The frame, enclosure and clamps shall be finished in Mira-Cote. The fill block shall be finished in Mira-Therm.

Consult Miracle's "Glossary of Technical Data for Materials, Processes and Finishes" for specifications of underlined items.

Sloped Climbing Walls

714-757-25, 714-757-26, 714-757-28



# Product Specifications

**MIRACLE**  
RECREATION EQUIPMENT COMPANY

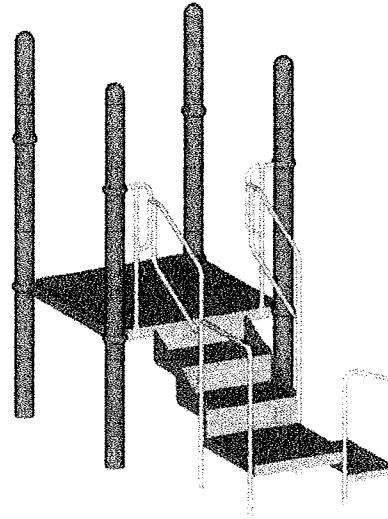
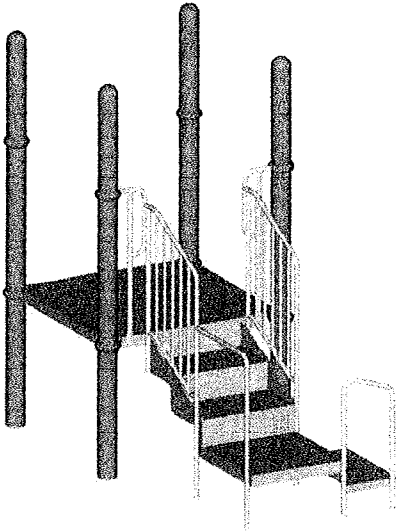
Kids' Choice® - Mira-Therm II

**Square Transfer Points - 3', 4', 5' and 6' & 6'-6" Decks**  
with Closed or Open Handrails

**714-851-39 & 714-851-359** ORIENTED LEFT

**Square Transfer Point for 3' Deck, Closed** Bottom Step exit LEFT

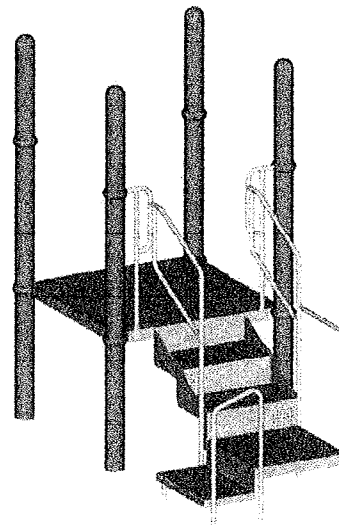
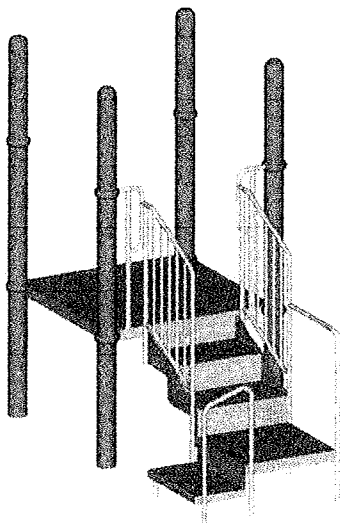
**Square Transfer Point for 3' Deck, Open** Bottom Step exit LEFT



**714-851-39 & 714-851-359** ORIENTED RIGHT

**Square Transfer Point for 3' Deck, Closed** Bottom Step exit RIGHT

**Square Transfer Point for 3' Deck, Open** Bottom Step exit RIGHT



Square Transfer Points

714-851-39, 714-851-359, 714-851-69, 714-851-659,  
714-851-49, 714-851-459, 714-851-59, 714-851-559,

## Kids' Choice<sup>®</sup> - Mira-Therm II Square Transfer Points

### MATERIALS (continued)

<b>Stair Handrail and Stair/Deck Handrail:</b>	Stair handrail assemblies shall be welded upper and lower handrails of formed <u>1" pipe</u> . Closed handrails shall contain vertical uprights of <u>3/4" x 1" oval tube welded</u> within. Swaged handrail extensions for field assembly to handrails shall be constructed of <u>1" pipe</u> . A transfer deck handrail constructed of formed 1" pipe shall be field assembled to one handrail newel upright and transfer point deck edge. Models designed for assembly to 5' and 6' or 6'-6" decks shall contain handrail sleeve supports constructed of <u>1-1/4" pipe, 10 ga.</u>
<b>Transfer Step Handrail:</b>	The "U"-shaped transfer step handrail shall be formed <u>1" pipe</u> , drilled for field assembly to transfer point deck and bottom step. Its apex shall be 36-1/8" from finished grade.
<b>Rung Leg:</b>	The rung leg shall be <u>1" pipe</u> with ends mashed and punched for field assembly to bottom step.
<b>Fasteners:</b>	Each assembly shall contain <u>Versalok Fasteners</u> and <u>Fastener Style A</u> hardware.
<b>Finishes:</b>	The stairs, bottom step, and transfer point deck shall be finished in <u>Mira-Therm</u> . The deck enclosures, handrails, extensions, sleeves, and leg shall be finished in <u>Mira-Cote</u> .

Consult Miracle's "Glossary of Technical Data for Materials, Processes & Finishes" for specifications of underlined items.



Kids' Choice<sup>™</sup> - Mira-Therm II  
**Square Transfer Points**

**MIRACLE**  
 RECREATION EQUIPMENT COMPANY

<u>MODEL #</u>	<u>PRODUCT</u>	<u>ORIENTATION</u>	<u>GRND. SPC.</u>	<u>PROT. AREA</u>	<u>CONCRETE</u>
714-851-39	Sqr. Transfer Point, 3' Dk, Closed	Left or Right ... Straight ...	4'-9" x 4'-0" 5'-10" x 3'-6"	17'-2" x 16'-0" 18'-3" x 14'-11"	0.30 cu. yds. 0.30 cu. yds.
714-851-359	Sqr. Transfer Point, 3' Dk, Open	Left or Right ... Straight ...	4'-9" x 4'-0" 5'-10" x 3'-6"	17'-2" x 16'-0" 18'-3" x 14'-11"	0.30 cu. yds. 0.30 cu. yds.
714-851-49	Sqr. Transfer Point, 4' Dk, Closed	Left or Right ... Straight ...	5'-11" x 4'-1" 7'-0" x 3'-6"	18'-4" x 16'-0" 19'-5" x 14'-11"	0.30 cu. yds. 0.30 cu. yds.
714-851-459	Sqr. Transfer Point, 4' Dk, Open	Left or Right ... Straight ...	5'-11" x 4'-1" 7'-0" x 3'-6"	18'-4" x 16'-0" 19'-5" x 14'-11"	0.30 cu. yds. 0.30 cu. yds.
714-851-59	Sqr. Transfer Point, 5' Dk, Closed	Left or Right ... Straight ...	8'-3" x 4'-0" 9'-4" x 3'-6"	20'-9" x 16'-0" 21'-10" x 14'-11"	0.30 cu. yds. 0.30 cu. yds.
714-851-559	Sqr. Transfer Point, 5' Dk, Open	Left or Right ... Straight ...	8'-3" x 4'-0" 9'-4" x 3'-6"	20'-9" x 16'-0" 21'-10" x 14'-11"	0.30 cu. yds. 0.30 cu. yds.
714-851-69	Sqr. Transfer Point, 6' Dk, Closed	Left or Right ... Straight ...	10'-8" x 4'-1" 11'-9" x 3'-6"	23'-1" x 16'-0" 24'-2" x 14'-11"	0.40 cu. yds. 0.40 cu. yds.
714-851-659	Sqr. Transfer Point, 6' Dk, Open	Left or Right ... Straight ...	10'-8" x 4'-1" 11'-9" x 3'-6"	23'-1" x 16'-0" 24'-2" x 14'-11"	0.40 cu. yds. 0.40 cu. yds.

Square Transfer Points

**DESCRIPTION**

These models are designed to assist disabled users gain access to and egress from a deck system.

**MATERIALS**

**Stair Assembly:** Each stair assembly shall be constructed of 11 ga. steel stringers solid welded to 11 ga. steel sheet decking that is perforated in a staggered pattern of 3/8" diameter holes at 5/8" apart center-to-center. Approximate dimensions of stair assembly shall be 26" overall width, 14" deep step tread and 8" high step rise.

**Transfer Point Deck:** Each 26" square (approximate) transfer point deck shall be constructed of 11 ga. steel sheet folded to form approximately 3" high sidewalls. The decking shall be perforated in a staggered pattern of 3/8" diameter holes at 5/8" apart center-to-center. It shall be reinforced with cross braces of 3/16" x 2" HR flat solid welded.

**Bottom Step:** The bottom step shall be constructed of 11 ga. steel sheet (with folded edges) perforated in an identical pattern. The step shall be approximately 26" wide by 14" deep by 6-1/2" high.

**Deck Enclosures:** Deck enclosures shall be constructed of formed 1" pipe, including a welded upright of the same material. Each assembly shall be drilled for field assembly of a stair handrail, and shall have its bottom end mashed and punched for field assembly to deck.

... continued next page

Consult Miracle's "Glossary of Technical Data for Materials, Processes & Finishes" for specifications of underlined items.

714-851-39, 714-851-359, 714-851-69, 714-851-659, 714-851-49, 714-851-459, 714-851-59, 714-851-559



**MIRACLE**  
RECREATION EQUIPMENT COMPANY

# Product Specifications

April 14, 2005

Rev. C

Kids' Choice® - Mira-Therm II  
ADA Stairs Between Decks - 1', 2', 2'-6" & 1'-6" Rise

714-810-9 & 714-959-9

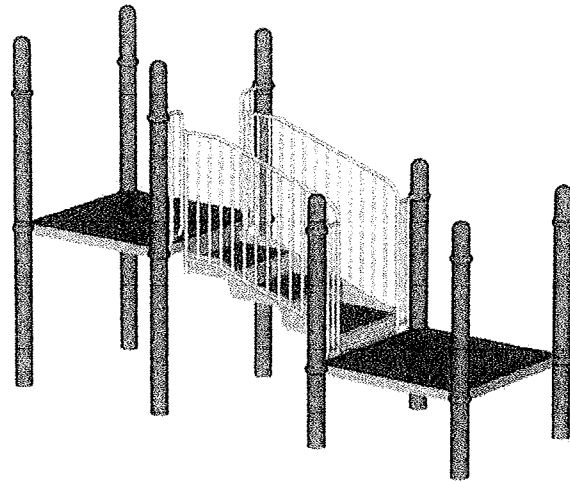
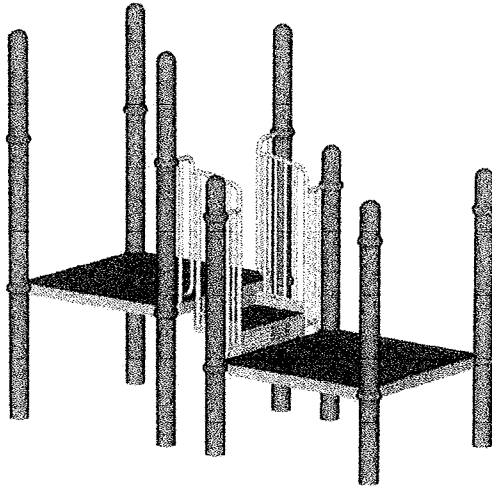
714-959-49 / 714-959-48

714-959-459

5 additional  
stair models

Stair (ADA) - 1' Rise Between Decks  
with Spoked Handrails, 1'-4" Span

Stair (ADA) - 2' Rise Between Decks  
with Spoked Handrails, 4'-6" Span



714-959-59 / 714-959-49

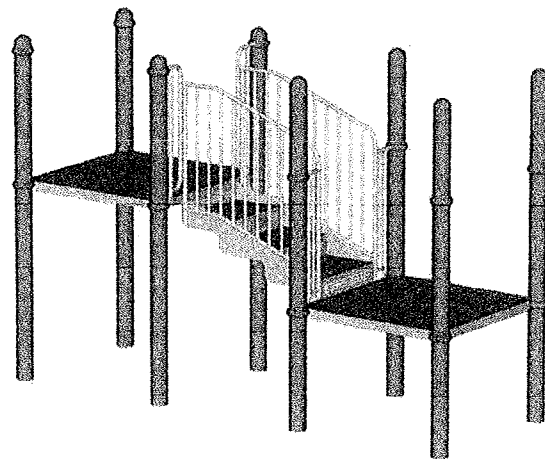
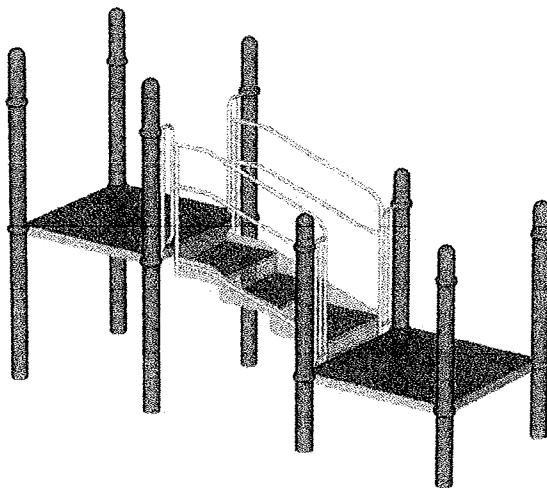
714-959-59 & 714-959-49

714-959-459

5 additional  
stair models

Stair (ADA) - 2' Rise Between Decks  
with Open Handrails, 4'-6" Span

Stair (ADA) - 2' Rise Between Decks  
with Spoked Handrails, 4'-0" Span



ADA Stairs Between Decks

714-810-9, 714-959-9, 714-959-59, 714-959-49, 714-959-459, 714-960-9, 714-993-9,  
714-993-59, 714-993-49, 714-993-459

# Kids' Choice® - Mira-Therm II ADA Stairs Between Decks

<u>MODEL #</u>	<u>PRODUCT</u>
714-810-9	ADA Stair Between Decks, 1' Rise, Spoked Handrails, 1'-4" Span
714-959-9	ADA Stairs Between Decks, 2' Rise, Spoked Handrails, 4'-6" Span
714-959-59	ADA Stairs Between Decks, 2' Rise, Open Handrails, 4'-6" Span
714-959-49	ADA Stairs Between Decks, 2' Rise, Spoked Handrails, 4'-0" Span
714-959-459	ADA Stairs Between Decks, 2' Rise, Open Handrail, 4'-0" Span
714-960-9	ADA Stairs Between Decks, 2'-6" Rise, Spoked Handrails, 6'-0" Span
714-993-9	ADA Stairs Between Decks, 1'-6" Rise, Spoked Handrails, 3'-0" Span
714-993-59	ADA Stairs Between Decks, 1'-6" Rise, Open Handrails, 3'-0" Span
714-993-49	ADA Stairs Between Decks, 1'-6" Rise, Spoked Handrails, 4'-0" Span
714-993-459	ADA Stairs Between Decks, 1'-6" Rise, Open Handrails, 4'-0" Span

## DESCRIPTION

These ADA-compliant stairs connect decks of differing heights and include handrails.

## MATERIALS

- Steps:** The wide step assemblies, approximately 26-3/8" before PVC-dip coating, shall be constructed of steel stringers solid welded to formed treads of 11 ga. steel sheet that are perforated with a staggered pattern of 3/8" diameter holes at 5/8" apart center-to-center. The braces shall be constructed of 11 ga. black.
- Spoked Handrails:** Spoked handrail enclosures shall consist of a top and bottom rail and newel post, all of 1" pipe, and uprights of 3/4" x 1" oval tube, all solid welded. The top rails shall contain 3/8" aluminum inserts. Plastic pipe plugs shall close open ends.
- Open Handrails:** Open handrail enclosures shall consist of a top and bottom rail and newel post, all of 1" pipe, solid welded. The top rails shall contain 3/8" aluminum inserts. Plastic pipe plugs shall close open ends.
- Top Stair Enclosure:** The top stair enclosure shall consist of enclosure rails and an upright, both of 1" pipe, drilled and solid welded. The upright shall be mashed on one end.
- Bottom Deck Enclosure:** The bottom deck enclosure shall consist of enclosure rails and an upright of 1" pipe, drilled, and a spoke of 3/4" x 1" oval tube, all solid welded. The upright shall be mashed on one end. Plastic pipe plugs shall close open ends.
- Fasteners:** The assembly shall contain Versalok Fasteners and Fastener Style A hardware.
- Finishes:** The stairs shall be finished in Mira-Therm. The handrails, enclosures, and clamps shall have a Mira-Cote finish.

Consult Miracle's "Glossary of Technical Data for Materials, Processes & Finishes" for specifications of underlined items.

714-810-9, 714-959-9, 714-959-59, 714-993-9, 714-993-49, 714-993-59, 714-993-49, 714-993-459, 714-960-9, 714-959-49, 714-959-459



# Product Specifications

Apr. 21, 2000 Rev. G

**MIRACLE**  
RECREATION EQUIPMENT COMPANY

Kids' Choice

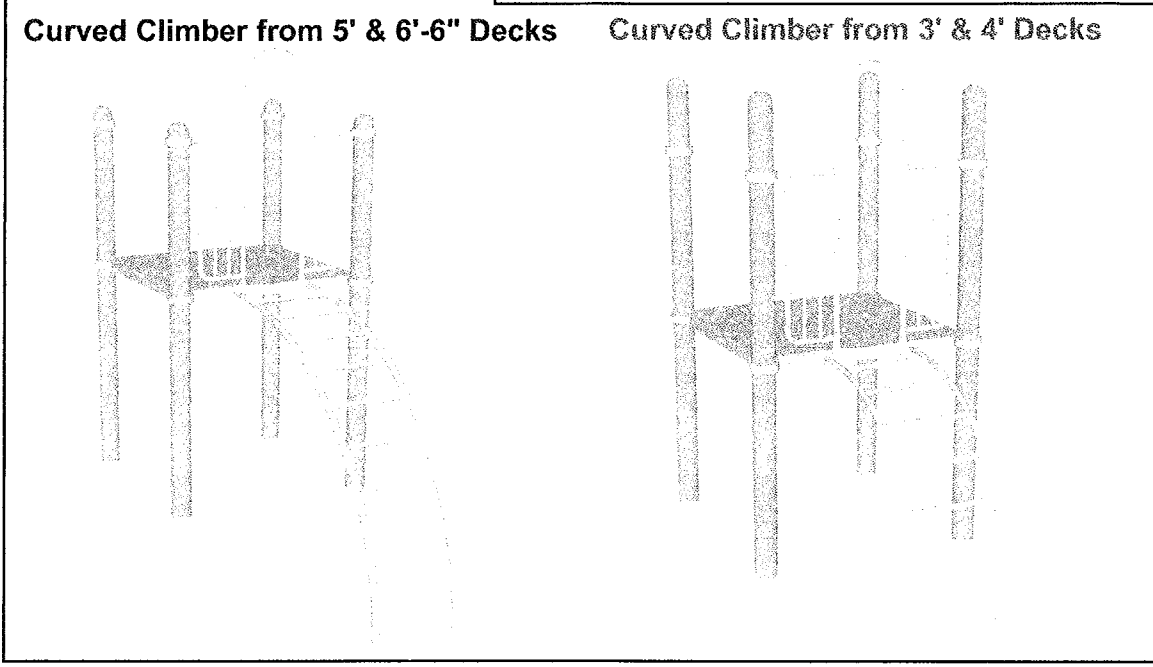
**Curved Climbers from 5' & 6'-6" Decks and 3' & 4' Decks**

Deck systems not included in these assemblies.

**714-942 and 714-967**

**Curved Climber from 5' & 6'-6" Decks**

**Curved Climber from 3' & 4' Decks**



Curved Climbers (5' & 6'-6"/3' & 4')

714-942, 714-967



Kids' Choice

**MIRACLE**  
RECREATION EQUIPMENT COMPANY

## Curved Climbers from 5' & 6'-6" Decks and 3' & 4' Decks

Deck systems not included in these assemblies.

<u>MODEL NO:</u>	<u>PRODUCT:</u>	<u>GRND SPC.</u>	<u>CONCRETE:</u>
714-942	Curved Climber from 5' & 6'-6" Decks	6'-7" x 1'-10"	0.10 cu. yds.
714-967	Curved Climber from 3' & 4' Decks	3'-6" x 1'-10"	0.10 cu. yds.

### DESCRIPTION:

The curved climbers are designed to be used as an entry or as an exit from deck systems of various heights.

### MATERIALS:

**Curved Climber:** The side rails shall be curved 1-1/2" pipe with blind fasteners inside top end with rungs to be constructed of 1" tubing x 18-1/2", mashed on ends and all welded construction. Dimensions shall be 22" wide with the span for Model # 714-942 being 6'-7" and the span for Model # 714-967 being 3'-6".

**Enclosure Assembly:** The enclosure assembly shall consist of top supports, a bottom support, and an arched upright, to be constructed of 1" pipe, drilled, formed and mashed, and vertical rungs to be constructed of 1" tube. The enclosure assembly shall be solid welded. Plastic pipe plugs shall close open ends.

**Versalok Fasteners:** All Versalok Fasteners for deck and component attachment shall be aluminum alloy.

**Fasteners:** All hardware shall be Fastener Style A.

**Finishes:** The curved climbers, enclosure assembly, and Versalok Fasteners shall have a Mira-cote finish.

Consult the Glossary of Technical Data for Materials, Processes and Finishes of the underlined items.

Curved Climbers (5' & 6'-6"/3' & 4')

714-942, 714-967





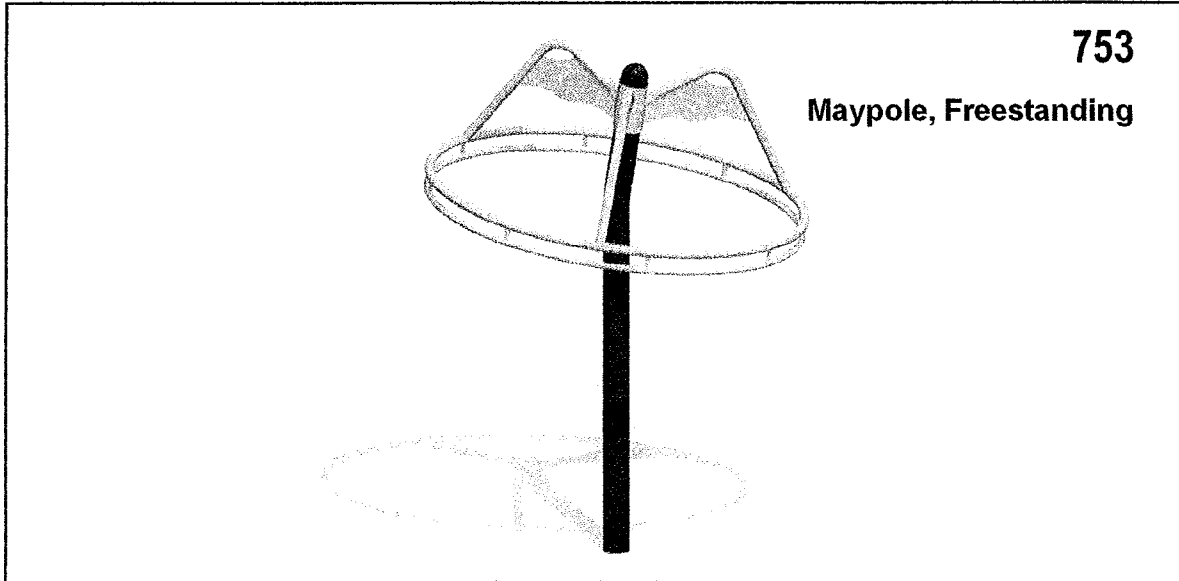
**MIRACLE**  
RECREATION EQUIPMENT COMPANY

# Product Specifications

December 16, 2008

Rev. A

## Freestanding Maypole



**753**

**Maypole, Freestanding**

Maypole, Freestanding

<u>MODEL #</u>	<u>PRODUCT</u>	<u>GROUND SPACE</u>	<u>PROTECTIVE AREA</u>	<u>CONCRETE</u>
753	Maypole, Freestanding	6' diameter	18'-6 3/4" diameter	1.2 cu. yds.

### DESCRIPTION

The Maypole is a dynamic play activity which permits users to grasp the rotating hand grip assembly and use his or her body weight to cause the assembly to rotate around its axis at a slight angle.

### MATERIALS

**Post Assembly:** The post assembly shall comprise a base plate constructed of 7 ga. galvanized steel, top and bottom shaft spacers constructed of 3/8" ASTM A-36 steel plate, a center shaft constructed of 1018/1020 carbon steel, and an upright post constructed of 5" OD x 7 ga galvanized steel tube. Entire post assembly shall measure 147" in height and 7-7/8" in width. All post assembly components shall be solid welded.

**Hand Grip Assembly:** Hand grip assembly shall comprise an outer ring constructed of 1.315" OD x 14 ga. galvanized steel tubing, eight connecting stubs of oval .75" x 1" x 15 ga. galvanized steel tubing, spokes and inner rings constructed of 1.9" OD x 10 ga. galvanized steel tubing, support brackets constructed of 7 ga. galvanized steel sheet, an inner hub constructed of 1018/1020 steel, and two deep groove ball bearings with elastomeric contact seals. Bearings shall be pressed into hub with interference fit. Hub, spokes, support brackets, inner ring, stubs and outer ring are solid welded. Hand grip assembly shall measure 6' in width and 2'-5" in height.

**Fasteners:** Fasteners shall include Fastener Style A hardware.

**Finishes:** Hub, spokes, support brackets, inner ring, stubs, outer ring and post assembly shall be finished in Mira-Cote.

753



**MIRACLE**  
RECREATION EQUIPMENT COMPANY

# Product Specifications

September 26, 2006

Rev. D

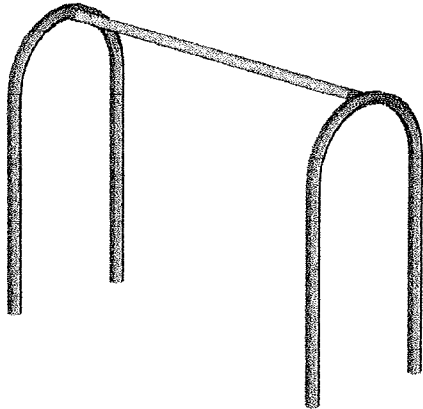
Kids' Choice®

## Arch Swing Frames & Arch Swing Frame Extensions

### 714-852-2 & 714-852-2X

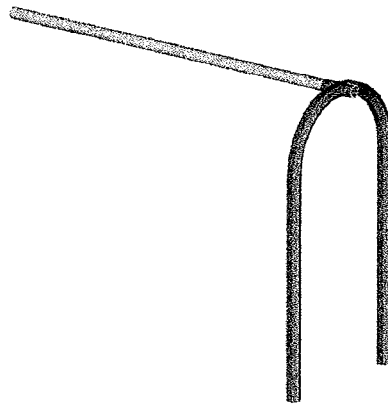
#### Arch Swing Frame\*

(2) End Arches & (1) Header form (1) Bay for (2) Seats



#### Arch Swing Frame Extension\*

(1) Extension Arch & (1) Header form (1) additional Bay for (2) additional Seats

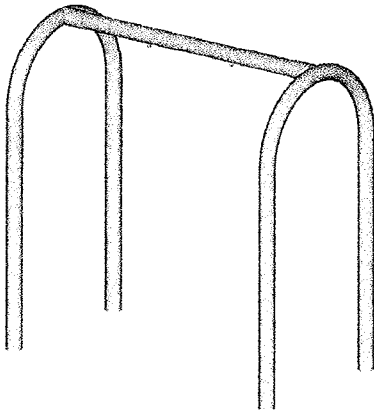


\* Specifications for Model #s 714-852-2 and 714-852-2X encompass Model #s 714-852-4 and 714-852-6.

### 714-852-1H & 714-852-2HH

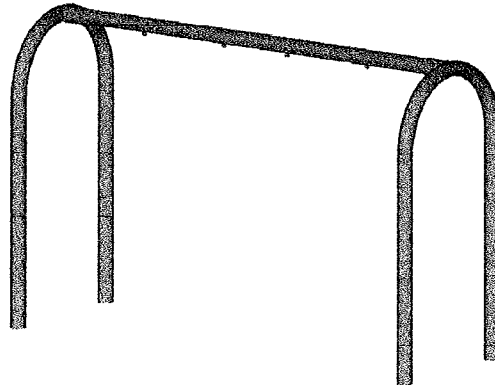
#### Arch Swing Frame for Therapeutic Swing Seat

(2) End Arches & (1) Header form (1) Bay for (1) Therapeutic Swing Seat



#### Arch Swing Frame for Therapeutic Swing Seats

(2) End Arches & (1) Header form (1) Bay for (2) additional Therapeutic Swing Seats



Arch Swing Frames & Extensions

714-852-2, 714-852-2X, 714-852-1H, 714-852-2HH, 714-852-1HX, 714-852-2HHX



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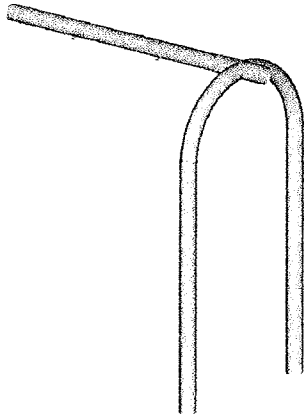
# Arch Swing Frames & Arch Swing Frame Extensions

714-852-2, 714-852-2X, 714-852-1H, 714-852-1HX, 714-852-2HH, 714-852-2HHX

714-852-1HX & 714-852-2HHX

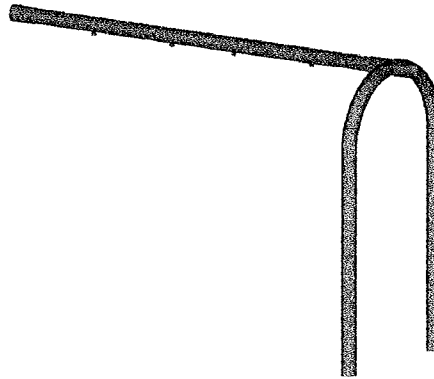
### Arch Swing Frame Extension for Therapeutic Swing Seat

(1) Extension Arch & (1) Header form (1) additional Bay for (1) additional Therapeutic Swing Seat



### Arch Swing Frame Extension for Therapeutic Swing Seats

(1) Extension Arch & (1) Header form (1) additional Bay for (2) additional Therapeutic Swing Seats



Arch Swing Frames & Extensions

714-852-2, 714-852-2X, 714-852-1H, 714-852-1HX, 714-852-2HH, 714-852-2HHX



Kids' Choice®

## Arch Swing Frames & Arch Swing Frame Extensions

<u>MODEL #</u>	<u>PRODUCT</u>	<u>GROUND SPACE</u>	<u>PROT. AREA</u>	<u>CONCRETE</u>
714-852-2	Arch Swing Frame, 1 Bay	4'-6" x 12'	32' x 24'	0.50 cu. yd.
714-852-2X	Arch Swing Frame Extension	4'-6" x 12'	32' x 24'	0.25 cu. yd.
714-852-1H	Arch Swing Frame, Therapeutic Seat	4'-6" x 8'	32' x 20'	0.50 cu yd.
714-852-2HH	Arch Swing Frame, Therapeutic Seats	4'-5" x 12'-10"	32' x 25'	0.50 cu yd.
714-852-1HX	Arch Swing Frame Extension, Thera. Seat	4'-6" x 8'	32' x 20'	0.25 cu. yd.
714-852-2HHX	Arch Swing Frame Extension Thera. Seats	4'-5" x 12'-10"	32' x 25'	0.25 cu. yd.

### DESCRIPTION

Model # 714-852-2 comprises two end arches, a header and four clevises, which assemble to form a swing frame. Model # 714-852-2X comprises an extension arch, a header, and four clevises. Model # 714-851-1H comprises two end arches, a header, and two clevises. Model # 714-852-2HH comprises two end arches, a header, and four clevises. Model # 714-852-1HX comprises one end arch, a header, and two clevises. Model # 714-852-2HHX comprises an extension arch, a header, and four clevises. Swing seats, Therapeutic Swing Seats, and chains must be ordered separately.

### MATERIALS

**Arches:** Arch assemblies shall consist of the arch, which serves as legs for the swing frame, and arch stub(s) which support the header. Arches and stubs shall be constructed of 5" tube. Arches shall measure 132" from leg end to the plane at the height of the underside of the apex. Stubs shall measure approximately 5-1/4" with two 5/8" holes drilled on top and bottom of stub 1-1/2" from flush end for field attachment of header. The stubs shall be solid welded to the arches.

**Header:** The header assembly must be installed 8' above the finished surfacing. Each header assembly shall consist of a header with a sleeve connector attached to each end. The header for Model # 714-852-2 and 714-852-1H shall be constructed of 5" tube, 11 ga. and shall measure 124". The header for Model # 714-852-1H and 714-852-1HX shall be constructed of 5" tube, 11 ga. and shall measure 81". The header for Model # 714-852-2HH and 714-852-2HHX shall be constructed of 5" tube, 11 ga. and shall measure 137". The sleeve connector shall measure 6" and shall be constructed of 5" Schedule 40 pipe, with two 9/16" holes drilled on top and bottom of connector 1-1/2" from one end. The sleeve connectors shall be solid welded to the headers with an overhang receptacle depth of 3-1/2". The header shall have 1-1/4" O.D. bushing housings welded to it with 9/16" O.D. oil-impregnated bushings installed after painting.

**Clevises:** The clevises shall be cast of ductile iron grade 60-40-18.

**Fasteners:** All fastening hardware shall be Fastener Style A.

**Finishes:** The arches and header shall be finished in Mira-Cote. The clevises shall be zinc plated.

Consult Miracle's "Glossary of Technical Data for Materials, Processes & Finishes" for specifications of underlined items.

Arch Swing Frames & Extensions

714-852-2, 714-852-2X, 714-852-1H, 714-852-2HH, 714-852-1HX, 714-852-2HHX



# Product Specifications

May 9, 2008

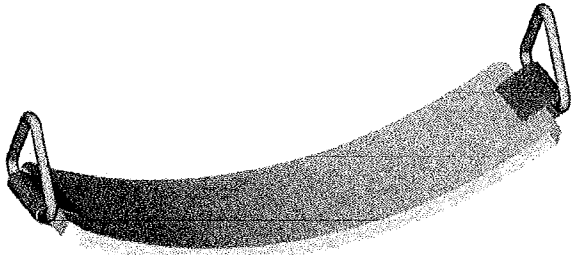
Rev. N

**MIRACLE**  
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## Swing Seats

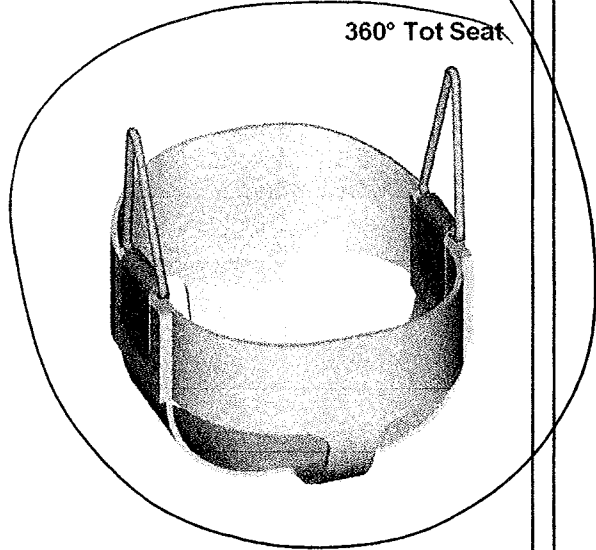
**284, 2840 & 2841**

Slashproof Seat



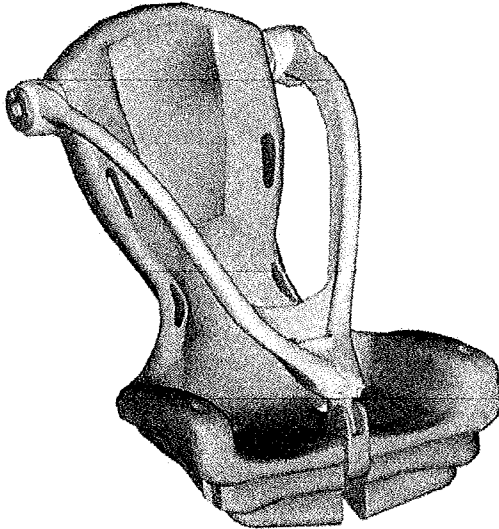
**299 & 2990**

360° Tot Seat



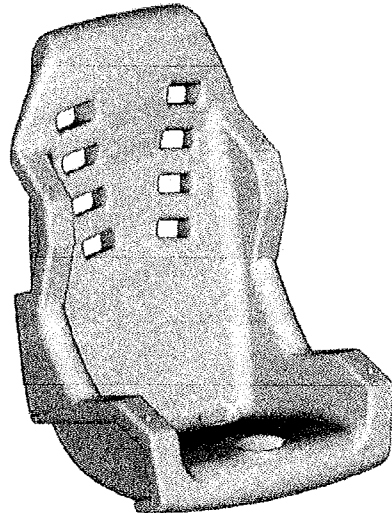
**2720**

Therapeutic Swing Seat



**2721**

Mirage Therapeutic Swing Seat



Swing Seats



## MIRACLE Swing Seats

RECREATION EQUIPMENT COMPANY

### DESCRIPTION:

The Slashproof Seat is a flexible flat single strap seat with end attachment points and has an exterior surface of EPDM rubber. The 360 Degree Slashproof Tot Seat is a flexible seat fabricated into a configuration of a wide strap through the bottom, a wide strap running completely around at the top, and two (2) interconnecting straps at the front and the rear of the seat for complete enclosure of the small user. The exterior surface is EPDM rubber. The Therapeutic Seats are Rockite seats molded to form a chair. Models with chain each have two chains to suspend the swing from a swing frame header.

### MATERIALS:

#### Slashproof Seat:

The Slashproof Seat is constructed of a 4" wide inner steel insert of type 301 stainless spring steel, 0.020" thick. The slashproof seat is 26" long (excluding mounting triangles) x 5" wide x 5/8" thick at the front and rear leading cushion edges. The rubber molded to the steel core is 70 durometer EPDM. At each end a 16 ga. galvanized steel clip 3" wide is attached by three stainless steel rivets through the clip and seat subassembly. A 3/8" diameter galvanized steel mounting triangle is encompassed by the steel clip at each end of the seat.

#### 360 Degree Tot Seat:

The 360 Degree Tot Seat is constructed of a one piece die cut 0.020" thick, martensitic spring steel insert with 70 durometer EPDM rubber, 1/4" thick, molded to the insert. The main seat strap is 5" wide, the back strap is 4" wide, and the front strap is 2" wide. The two (2) places where the straps are interconnected and form the suspension points for the seat are held by a clip and grommet system. The clip is 4" wide 16 ga. galvanized steel. There are two grommets per clip, each of which is 3/4" O.D. by 14 ga. wall galvanized steel tubing, flared to securely attach the clip to the seat. The two (2) mounting triangles are secured to the seat by clips and are made from 3/8" steel round stock, formed and galvanized.

#### Therapeutic Seats:

The Therapeutic Seats shall be constructed of Rockite.

#### Chain:

Each chain assembly is 4/0 straight link coil chain. The chain is hot dipped galvanized with a 670 pound working load limit. The chain is manufactured to ASTM A467-86A Class CS specifications.

#### "D" Shackle:

The "D" Shackle for all models except the Therapeutic Seats are sand cast of ductile iron grade 60-40-18.

#### Finishes:

All rubber surfaces are EPDM. The Rockite Therapeutic Seats have molded-in color. All exposed metal surfaces are bright zinc plated. The clevises are zinc plated. The chain for the Therapeutic Seats has a Mira-Therm coating.

Consult Miracle's "Glossary of Technical Data for Materials, Processes and Finishes" for specifications of underlined items.

# CHILD WORKS®

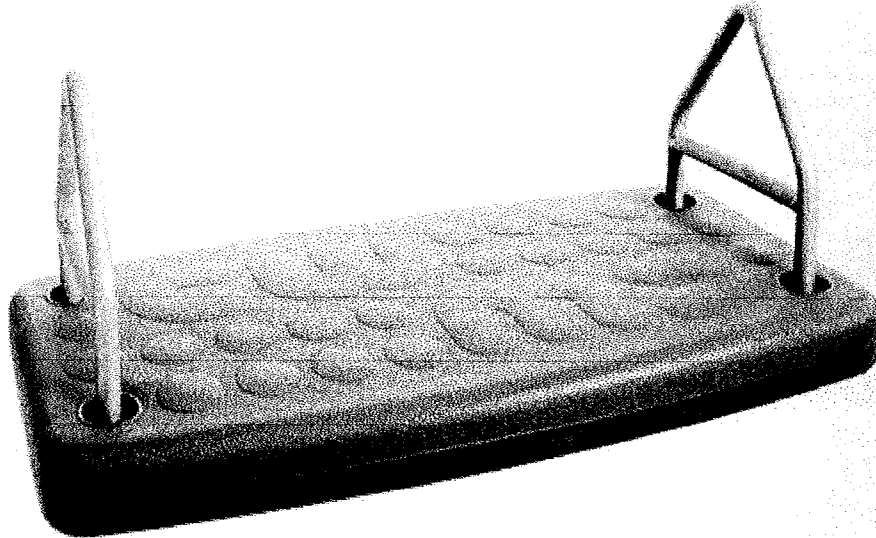
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## Child Works Flat Seat - (S-17)



### Commercial - Swings

An exclusive Child Works design, this is our newest flat seat. Molded from light-weight, rigid high-density polyethylene. It comes complete with galvanized hardware. 9-1/2" x 20"

Available Colors: ● ● ●



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