



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
DNR209039

PAGE
1

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

RFQ COPY

VENDOR

ROGER C. ALTIZER  
 ALTIZER CONTRACTING LTD. CO.  
 HC 37 BOX 80K  
 FRANKFORD, WV 24938

SHIP TO

DIVISION OF NATURAL RESOURCES  
 TWIN FALLS RESORT STATE PARK  
 ATTN: PARK SUPERINTENDENT  
 RT. 97, PO BOX 667  
 MULLENS, WV  
 25882 304-294-6000

DATE PRINTED 09/24/2008	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
BID OPENING DATE: 11/13/2008		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		650-38	118,483 <sup>26</sup>	118,483 <sup>26</sup>
PLAYGROUND EQUIPMENT (NOT OTHERWISE CLASSIFIED)  THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, THE WEST VIRGINIA DIVISION OF NATURAL RESOURCES, IS SOLICITING BIDS FROM RESPONSIBLE VENDORS TO PROVIDE PLAYGROUND EQUIPMENT TO TWIN FALLS STATE PARK, MULLENS WV, PER THE ATTACHED SPECIFICATIONS.  A WALK THROUGH OF THE SITE WILL BE HELD ON OCTOBER 6, 2008 AT 10:00 AM, VENDORS ARE RESPONSIBLE FOR BEING FAMILIAR WITH THE SITE AND NECESSARY REQUIREMENTS OF THIS PROJECT.  TECHNICAL QUESTIONS CONCERNING THIS PROJECT MUST BE SUBMITTED IN WRITING TO FRANK WHITTAKER IN THE WEST VIRGINIA PURCHASING DIVISION VIA FAX AT 304-558-4115 OR VIA EMAIL AT FRANK.M.WHITTAKER@WV.GOV. DEADLINE FOR ALL TECHNICAL QUESTIONS IS OCTOBER 9, 2008. AT 5:00 PM. ALL TECHNICAL QUESTIONS, IF ANY WILL BE ADDRESSED BY ADDENDUM AFTER THE DEADLINE.  BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT MAY BE DEEMED NULL AND VOID, AND TERMINATED WITHOUT FURTHER ORDER.  THE MODEL/BRAND/SPECIFICATIONS NAMED HEREIN ESTABLISH THE ACCEPTABLE LEVEL OF QUALITY ONLY AND ARE NOT INTENDED TO REFLECT A PREFERENCE OR FAVOR ANY PARTICULAR BRAND OR VENDOR. VENDORS WHO ARE BIDDING ALTERNATES SHOULD SO STATE AND INCLUDE PERTINENT						

RECEIVED  
 08 NOV 13 AM 10:58  
 PURCHASING DIVISION  
 STATE OF WV

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Roger C. Altizer</i>	TELEPHONE 304-497-3304	DATE 11-12-08
OWNER 20-8659173	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, this Contract may be deemed null and void, and terminated 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 workplace policy in compliance with the West Virginia Alcohol 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

RFQ NUMBER
DNR209039

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2

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

**RFQ COPY**  
**TYPE NAME/ADDRESS HERE**  
 Altizer Contracting Ltd. Co  
 Hc 37 Box 80K  
 Frankford, WV 24938

**SHIP TO**  
 DIVISION OF NATURAL RESOURCES  
 TWIN FALLS RESORT STATE PARK  
 ATTN: PARK SUPERINTENDENT  
 RT. 97, PO BOX 667  
 MULLENS, WV 25882 304-294-6000

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
09/24/2008				

BID OPENING DATE: 11/13/2008 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>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>NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p>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.: DNR209039</p> <p>BID OPENING DATE: 11/13/2008</p> <p>BID OPENING TIME: 1:30 PM</p> <p>PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Roger C. Altizer</i>	TELEPHONE 304-497-3304	DATE 11-12-08
TITLE Owner	FEIN 20-8659173	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  
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### Request for Quotation

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FRANK WHITTAKER
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**VENDOR**

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 TYPE NAME/ADDRESS HERE

Altizer Contracting, Ltd Co.  
 HC 37 Box 80K  
 Frankford, WV 24938

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DIVISION OF NATURAL RESOURCES  
 TWIN FALLS RESORT STATE PARK  
 ATTN: PARK SUPERINTENDENT  
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DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
09/24/2008				

BID OPENING DATE: **11/13/2008**      BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
TO CONTACT YOU REGARDING YOUR BID:						
				304-497-3304		
CONTACT PERSON (PLEASE PRINT CLEARLY):						
				Roger C. Altizer		
***** THIS IS THE END OF RFQ DNR209039 ***** TOTAL:						<u>118,483<sup>26</sup></u>

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Roger C. Altizer</i>	TELEPHONE 304-497-3304	DATE 11-12-08
TITLE Owner	FEIN 20-8659173	ADDRESS CHANGES TO BE NOTED ABOVE

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

## TWIN FALL STATE PARK PLAYGROUND SPECIFICATIONS – CONTD.

All playground equipment and engineered wood fiber must meet the following requirements:

- Compliance with U.S. Consumer Product Safety Commission, Handbook for Public Playground Safety.
- Compliance with ASTM Standard F 1487.
- Compliance with Architectural and Transportation Barriers Compliance Board, Americans with Disabilities Act (ADA) Accessibility Guidelines for Buildings and Facilities; Play Areas.

Vendors must submit the following attachments:

- Complete manufacturer's parts specifications and warranties.
- Layout drawing to scale of the proposed play structure or equipment.
- ASTM and CPSC Statement of Compliance

Additionally, all playground equipment should have UV protection on all rotational molded plastics and all vinyl coatings on posts, handrails, and roofs should have anti-microbial agents.

Warranties:

- All equipment and engineered wood fiber must be guaranteed to be free of defects in workmanship and material for a minimum of one year from date of acceptance. However, if manufacturer warranty periods are longer than the required minimum one year warranty, those warranties shall apply.

The award may be split if it is in the best interest of the West Virginia Division of Natural Resources

Vendors must have a familiarity with the proposed areas for which the playground equipment is to be purchased and installed. Owner will conduct site walk through on (date) at (time) for interested parties.

Item No	Quantity	Description	Unit Price	Amount
		To supply playground equipment to offer play activities for children ages five (5) to twelve (12) at Twin Falls State Park, Mullens, West Virginia. There will be a total of three (3) separate playground areas for playground equipment is to be supplied. Park personnel will install all playground equipment.		
		<p><b>MAIN PLAYGROUND</b>  <i>Bidding Equal-Play Mart</i></p> <p>GameTime powerscape plus modular unit, or equal.  Equipment must include the following components:  GameTime clover climber or equal  GameTime poly climber wall or equal.  GameTime challenge station base or equal.  GameTime crazy eight climber or equal.  GameTime cargo net wall attachment or equal  GameTime bubble climber or equal.  GameTime cosmix climber or equal. Climber must be approximately 8' in height.  GameTime track ride or equal. Ride must have minimum of a 3 deck span.  GameTime cargo new wall attachment-double or equal.  GameTime cargo net attachment or equal.  GameTime curve zip slide or equal.  GameTime overhead ladder access package or equal.  GameTime overhead tree climber triangle transfer platform or equal.  GameTime giant wave climber link or equal.  GameTime washbone slide or equal.  GameTime arch bridge link or equal.  GameTime wavy tree climber or equal.  GameTime maze wheel or equal.  GameTime answer wheel or equal.  GameTime ADA gizmo panel or equal.  GameTime crunch bar zip slide wilderslide or equal.  GameTime stepped platform or equal.  GameTime rock wall climber slate roof or equal.  Roof extension must be a minimum of 24" with insert.</p>		
1	1	GameTime flip slide with universal hood or equal.	42,830 <sup>00</sup>	42,830 <sup>00</sup>

Item No	Quantity	Description	Unit Price	Amount
2	2 Rolls	Geo-Textile felt 2,250 sq. ft. roll or equal	500 <sup>00</sup>	1,000 <sup>00</sup>
3	3,407 Sq. Ft.	Engineered wood fiber at a minimum 8" compacted depth or equal  F.O.B. Destination. Freight and or delivery charges are to be included in the price of the goods. Delivery must be made within ninety (90) days of purchase order award.	086	2,930 <sup>02</sup>
4	1	<b>Woodland Picnic Area Playground</b> <i>Bidding Equal - Play Mart</i>	Included	Included
		<p>GameTime powerscape plus modular unit, or equal . Equipment must include the following components:</p> <ul style="list-style-type: none"> <li>GameTime clover climber or equal.</li> <li>GameTime poly climber wall or equal.</li> <li>GameTime challenge station base or equal</li> <li>GameTime crazy eight climber or equal.</li> <li>GameTime cargo net wall attachment or equal.</li> <li>GameTime bubble climber or equal.</li> <li>GameTime cosmix climber or equal. Climber must be 8' monimum height.</li> <li>GameTime track ride or equal. Ride must have minimum 3 deck span.</li> <li>GameTime cargo new wall attachment-double or equal.</li> <li>GameTime cargo net attachment or equal.</li> <li>GameTime curve zip slide or equal.</li> <li>GameTime overhead ladder access package or equal</li> <li>GameTime overhead tree climber triangle transfer platform or equal.</li> <li>GameTime giant wave climber link or equal.</li> <li>GameTime washbone slide or equal</li> <li>GameTime arch bridge link or equal.</li> <li>GameTime wavy tree climber or equal.</li> <li>GameTime maze wheel or equal.</li> <li>GameTime answer wheel or equal.</li> <li>GameTime ADA gizmo panel or equal.</li> <li>GameTime crunch bar zip slide wilderslide or equal.</li> <li>GameTime stepped platform or equal.</li> </ul>		

GameTime rock wall climber slate roof or equal.  
Roof extension must be a minimum of 24" with insert.



Item No	Quantity	Description	Unit Price	Amount
5	1	GameTime flip slide with universal hood or equal.	42,830 <sup>00</sup>	42,830 <sup>00</sup>
6	1	GameTime PrimeTime swing frame or equal. Swing must have a minimum of 3 1/2" OD.	945 <sup>00</sup>	945 <sup>00</sup>
7	1	GameTime PrimeTime swing add-a-bay or equal. Swing must a minimum of 3 1/2" OD.	945 <sup>00</sup>	945 <sup>00</sup>
8	2	GameTime PrimeTime 3 1/2" belt seat-galvanized chain or equal.	100 <sup>00</sup>	200 <sup>00</sup>
9	2	GameTime PrimeTime 3 1/2" enclosed tot-galvanized chain or equal.	108 <sup>00</sup>	216 <sup>00</sup>
10	2 Rolls	Geo-Textile felt 2,250 Sq. Ft. roll, or equal.	500 <sup>00</sup>	1,000 <sup>00</sup>
11	1 Roll	Geo-Textile Felt 1,125 Sq Ft. roll, or equal.	250 <sup>00</sup>	250 <sup>00</sup>
12	5,084 Sq. Ft.	Engineered wood fiber at a minimum 8" compacted depth or equal.	086	4,372 <sup>24</sup>
13	1	F.O.B. Destination. Freight and or delivery charges are to be included in the price of the goods. Delivery must be made within ninety (90) days of purchase order award.	Included	Included
		<b>Shelter 3 Playground</b> Bidding Equal-Play Mart GameTime PrimeTime way cool or equal. Equipment must include the following components: GameTime PrimeTime crunch bar or equal. GameTime skywheels or equal GameTime PrimeTime single steering wheel or equal. GameTime PrimeTime "D" ring package or equal. GameTime PrimeTime double trapeze ring or equal. GameTime PrimeTime therapeutic rings or equal. GameTime PrimeTime barrier enclosure or equal. GameTime PrimeTime poly climber wall or equal. GameTime PrimeTime contoured seat panel or equal.		

Item No	Quantity	Description	Unit Price	Amount
14	1	GameTime PrimeTime wavy tree climber or equal. GameTime PrimeTime stepped platform or equal. GameTime PrimeTime vertical climbing wall or equal. GameTime PrimeTime shingle roof. Roof extension must be a minimum of 24" with insert. GameTime PrimeTime F5 Spiral Slide GameTime PrimeTime wilder slide barrier enclosure with steering or equal. GameTime PrimeTime wheel double seat or equal GameTime PrimeTime rung ladder or equal. GameTime Primetime Transfer Point GameTime PrimeTime corkscrew climber or equal.	18,925 <sup>00</sup>	18,925 <sup>00</sup>
15	1 Roll	Geo-Textile Felt 2,250 Sq. Ft. Roll or equal.	500 <sup>00</sup>	500 <sup>00</sup>
16	1,540 Sq. Ft.	Engineered wood fiber at a minimum 8" compacted depth or equal.	1 <sup>00</sup>	1,540 <sup>00</sup>
17	1	F.O.B. Destination. Freight and or delivery charges are to be included in the price of the goods. Delivery must be made within ninety (90) days of project award.	Included	Included
<b>TOTAL</b>				118,483 <sup>26</sup>

## 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: Altizer Contracting Ltd. Co.      Signed: Roger C. Altizer  
 Date: 11-12-08      Title: Owner

\*Check any combination of preference consideration(s) in either "A" or "B", or both "A" and "B" which you are entitled to receive. You may request up to the maximum of 5% preference for both "A" and "B".

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:

*West Virginia Code* §21-1D-5 provides that: Any solicitation for a public improvement construction contract shall require each vendor that submits a bid for the work to submit at the same time an affidavit that the vendor has a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the West Virginia Code. A 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. Vendors should visit [www.state.wv.us/admin/purchase/privacy](http://www.state.wv.us/admin/purchase/privacy) for the Notice of Agency Confidentiality Policies.

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

Vendor's Name: Altizer Contracting Ltd. Co.

Authorized Signature: Roger C. Altizer Date: 11-12-08

# Play Mart®

Playgrounds

Recovering yesterday's plastics for today's play.



## TWIN FALLS STATE PARK



To verify product certification,  
visit [www.ipema.org](http://www.ipema.org)

## The Leader in Recycled Plastic Play Systems

# TWIN FALLS STATE PARK

MULLENS, WV 25882 / CONTACT PERSON: TBA / SALES REP: GINA HILL 1-800-437-5297

cmb 11-11-08



Playgrounds  
playmart.com  
800-43-PLAYS

**PLAYSET SPECS**

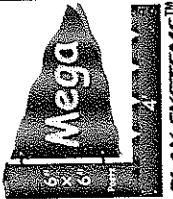
Accommodates: 85-100  
Safety Zone: 75' X 49'

**FOUNDATION SPECS**

IN GROUND 18"  
SURFACE MOUNT W/  
METAL BRACKETS:

**SITE SPECS**

Surfacing: 2689 SF  
Surfacing Type: EWF  
Surfacing Depth: 9-12"  
Borders: 18g  
Border Type: NIC



PLAY SYSTEMS™

RSP COLOR: TAN  
COLOR SCHEME  
NAME: NATURAL

**EXTRAS:**

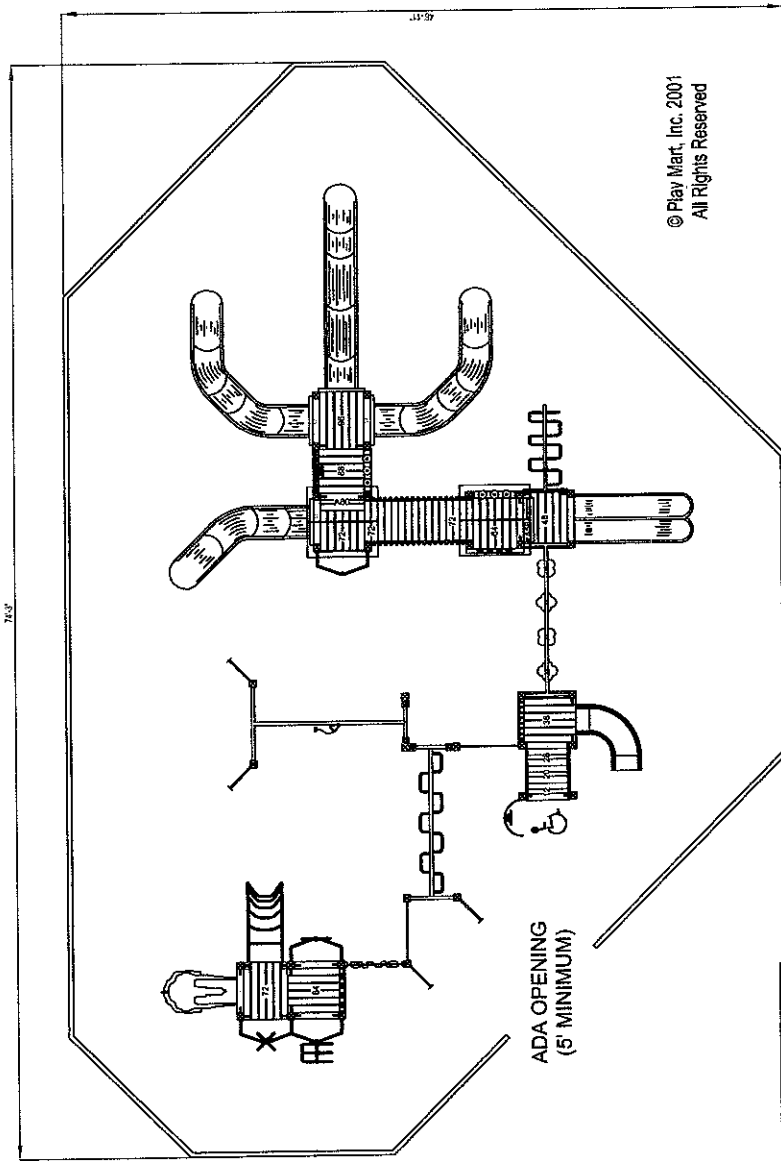
FILTER FABRIC

ELEMENTARY

Age: 5-12

Railing Height:  
**Elementary - 38"**

Scale: 1/8" = 1'



**MAIN PLAYGROUND**



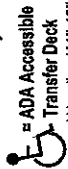
**CUSTOM PLAYSET**

ALL RIGHTS RESERVED. ANY DUPLICATION OR REPRODUCTION OF THIS PRINTED MATERIAL OR THE PRODUCTS MANUFACTURED AND DESIGNED BY PLAY MART, INC. IS STRICTLY PROHIBITED WITHOUT ADVANCED WRITTEN PERMISSION.  
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**Safety Certified  
ASTM, CPSC & ADA**

Play Mart certifies that our equipment meets or exceeds the standards given in the current ASTM F 1487, Consumer Product Safety Commission (pub.#325) and the ADA Accessibility Guide.



ADA Accessible Transfer Deck w/ Handles (11"-18" above resilient surface).



**DECK HEIGHTS**

Numbers on each deck represent the height of the deck in inches from the finished surface chosen. Maintaining correct depths of surfacing according to ASTM and CPSC Standards & Guidelines is the responsibility of the consumer.

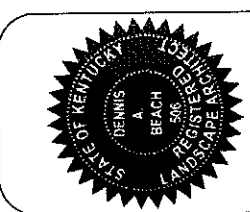


To verify product certification visit [www.ipema.org](http://www.ipema.org)

# TWIN FALLS STATE PARK

MULLENS, WV 25882 / CONTACT PERSON: TBA / SALES REP: GINA HILL 1-800-437-5297

ADA		RAMP REQUIRED WITH 20 OR MORE ELEV. COMPONENTS		GROUND LEVEL ADA COMPONENTS		NUMBER OF TYPES OF GROUND LEVEL COMPONENTS	
REQUIRED	PLAYSET PROVIDES	9	NONE	6	6	3	6
		18	NONE				
		18	NONE				



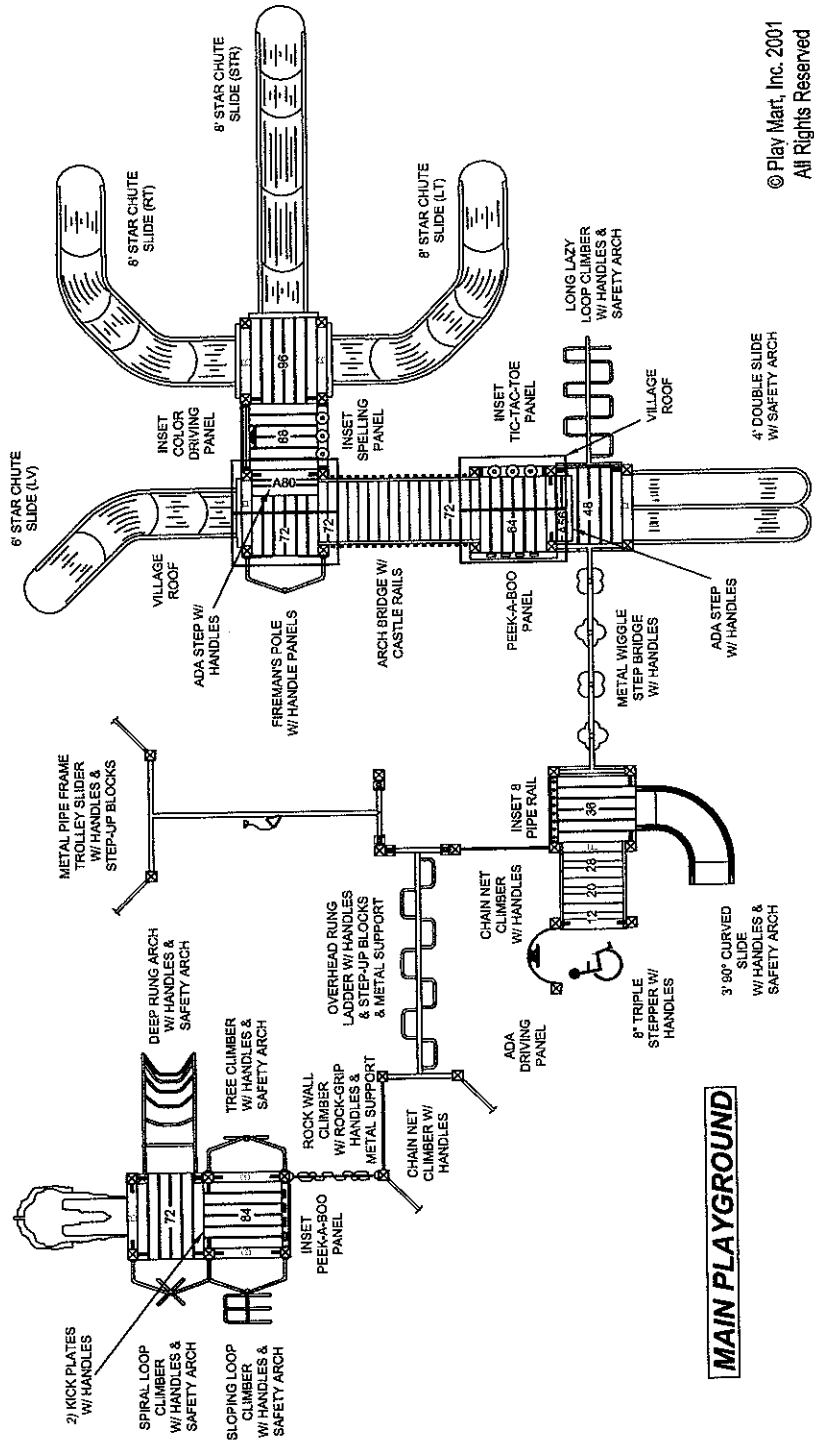
**Safety Certified**  
**ASTM, CPSC & ADA**  
 Play Mart certifies that our equipment meets or exceeds the standards given in the current ASTM F 1487, Consumer Product Safety Commission (pub.#325) and the ADA Accessibility Guide.  
 ADA Accessible Transfer Deck w/ Handles (11" x 18" above resilient surfaces).



**DECK HEIGHTS**  
 Numbers on each deck represent the height of the deck in inches from the finished surface chosen. Maintaining correct depths of surfacing according to ASTM and CPSC Standards & Guidelines is the responsibility of the consumer.



To verify product certification visit [www.playmart.com](http://www.playmart.com)



## MAIN PLAYGROUND



## CUSTOM PLAYSET

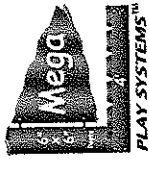
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 800-43-PLAYS

**PLAYSET SPECS**  
 Accommodates: 85-100  
 Safety Zone: 75' X 49'

**FOUNDATION SPECS**  
 IN GROUND 18"  
 SURFACE MOUNT W/  
 METAL BRACKETS:



**RSP COLOR: TAN**  
**COLOR SCHEME**  
**NAME: NATURAL**

**EXTRAS:**

**FILTER FABRIC**

**ELEMENTARY**

Age: 5-12

Railing Height:

**Elementary - 38"**

Scale: 3/16" = 1'



Playgrounds

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# TWIN FALLS STATE PARK CUSTOM

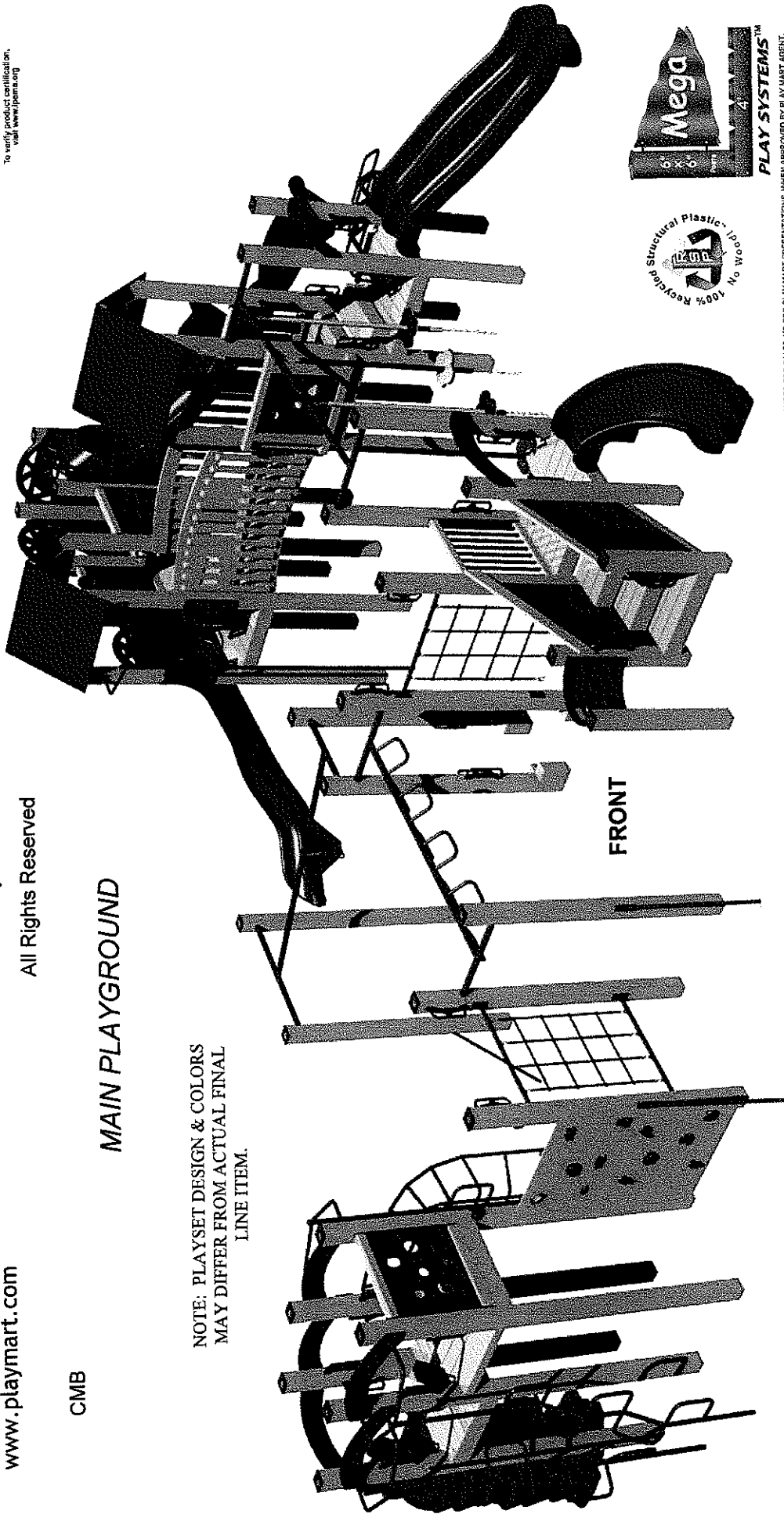
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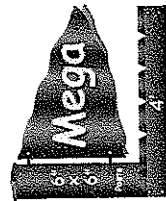
CMB

## MAIN PLAYGROUND

NOTE: PLAYSET DESIGN & COLORS  
MAY DIFFER FROM ACTUAL FINAL  
LINE ITEM.



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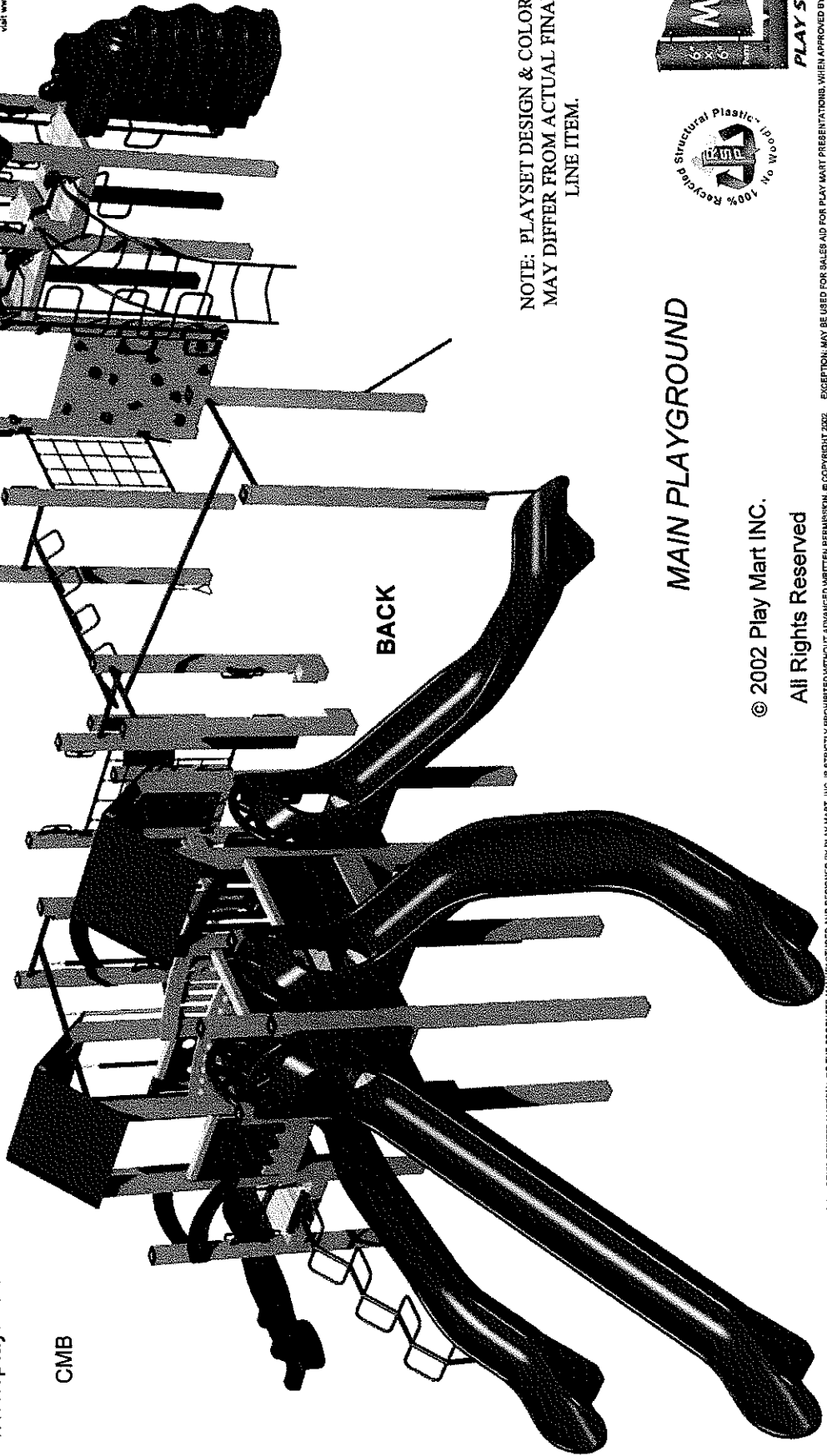
Playgrounds

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# TWIN FALLS STATE PARK CUSTOM



To verify product certification, visit [www.ipema.org](http://www.ipema.org)

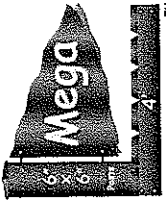


CMB

BACK

NOTE: PLAYSET DESIGN & COLORS  
MAY DIFFER FROM ACTUAL FINAL  
LINE ITEM.

MAIN PLAYGROUND



PLAY SYSTEMS™

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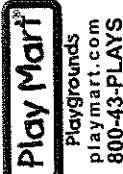
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# TWIN FALLS STATE PARK

MULLENS, WV 25882 / CONTACT PERSON: TBA / SALES REP: GINA HILL 1-800-437-5297

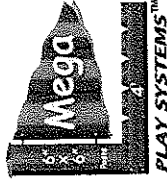
omb 11-12-08



**PLAYSET SPECS**  
Accommodates: 89-106  
Safety Zone: 107' X 49'

**FOUNDATION SPECS**  
IN GROUND 18":   
SURFACE MOUNT W/  
METAL BRACKETS:

**SITE SPECS**  
Surfacing: 4331 SF  
Surfacing Type: EWF  
Surfacing Depth: 9-12"  
Borders: 273  
Border Type: NIC



**RSP COLOR: BROWN**  
**COLOR SCHEME**  
**NAME: NATURAL**

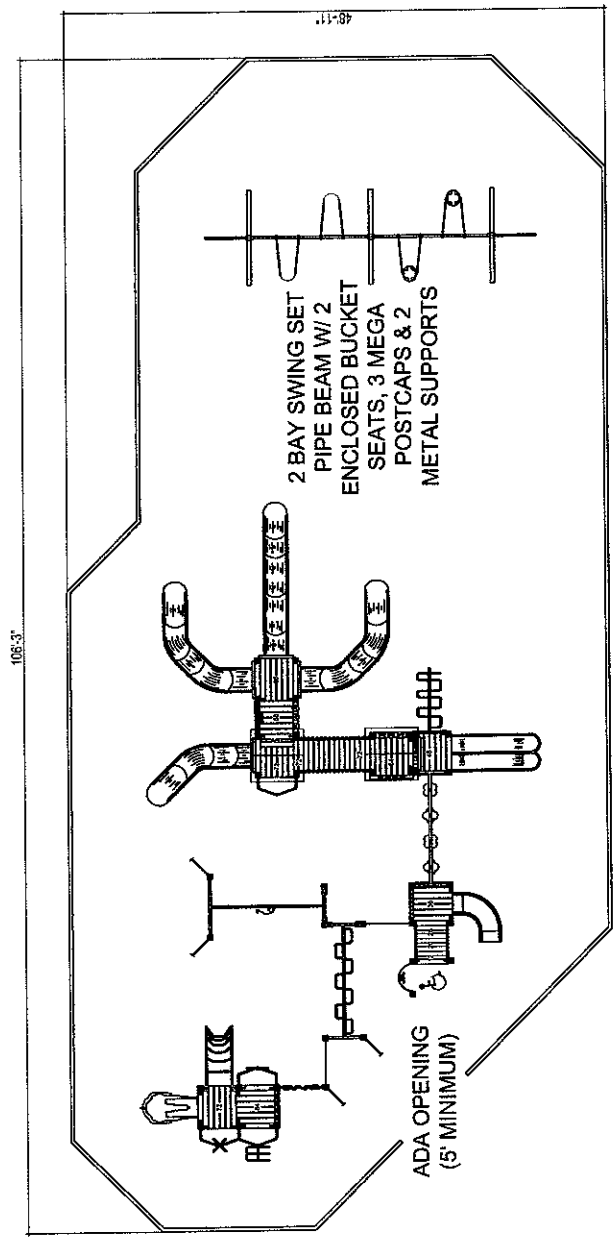
**EXTRAS:**

**FILTER FABRIC**

**ELEMENTARY**

Age: 5-12  
Railing Height:  
**Elementary - 38"**

Scale: 3/32" = 1'



**WOODLAND PICNIC AREA**

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**CUSTOM PLAYSET & SWINGS**  
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**Safety Certified**  
**ASTM, CPSC & ADA**  
Play Mart certifies that our equipment meets or exceeds the standards given in the current ASTM F 1487.

Consumer Product Safety Commission (pub.#325) and the ADA Accessibility Guide.

**ADA Accessible Transfer Deck**  
w/ Handles (11"-18" above resilient surface).



**DECK HEIGHTS**  
Numbers on each deck represent the height of the deck in inches from the finished surface chosen. Maintaining correct depths of surfacing according to ASTM and CPSC Standards & Guidelines is the responsibility of the consumer.



To verify product certification visit [www.beema.com](http://www.beema.com)

# TWIN FALLS STATE PARK

MULLENS, WV 25882 / CONTACT PERSON: TBA / SALES REP: GINA HILL 1-800-437-5297

cmh 11-11-08

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**PLAYSET SPECS**

Accommodates: 85-100  
Safety Zone: 75' X 48'

**FOUNDATION SPECS**  
IN GROUND 18"  
SURFACE MOUNT W/  
METAL BRACKETS



**RSP COLOR: BROWN**  
**COLOR SCHEME**  
**NAME: NATURAL**

**EXTRAS:**

**FILTER FABRIC**

**ELEMENTARY**

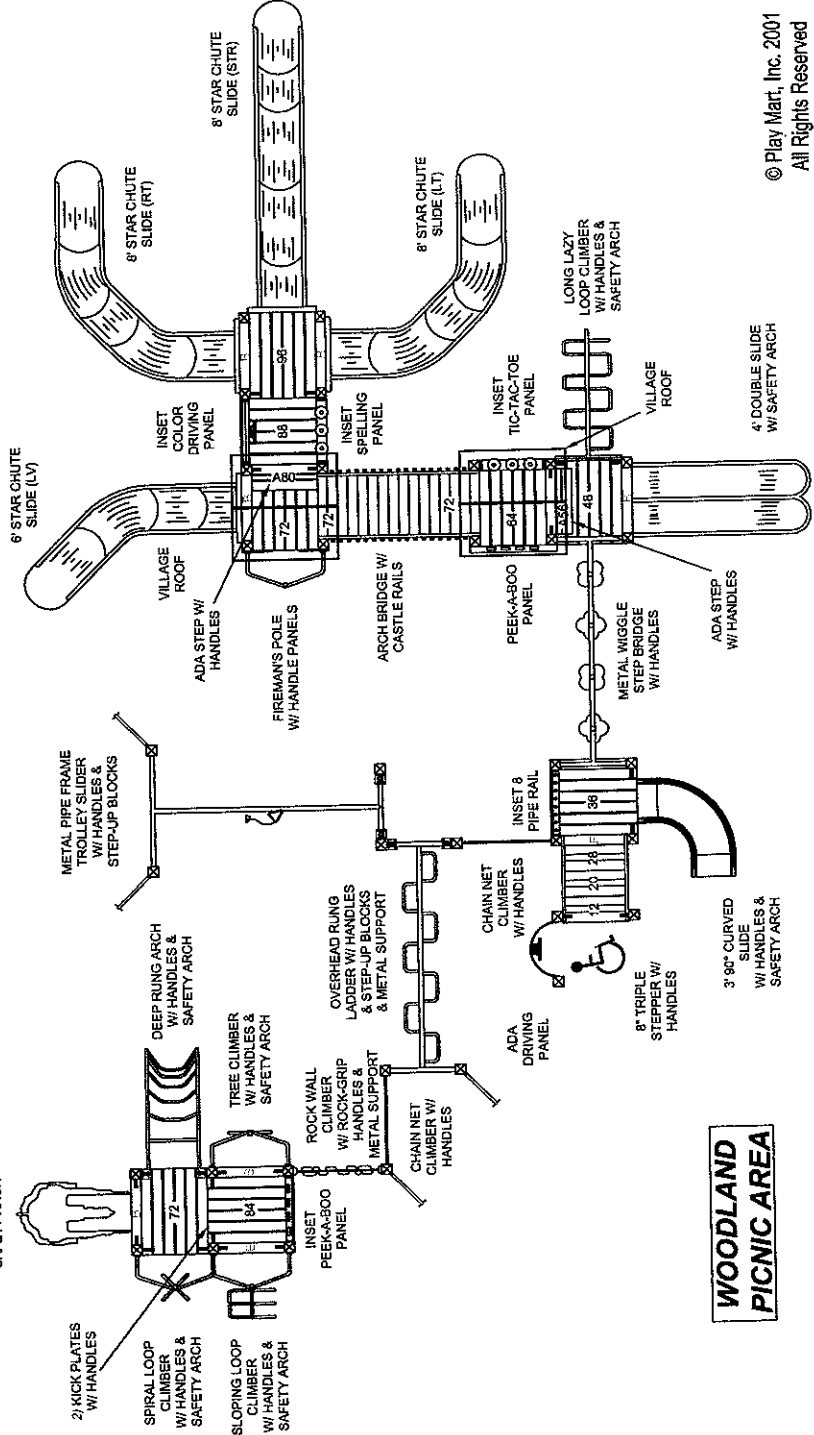
Age: 5-12

Railing Height:  
**Elementary - 36"**

Scale: 3/16" = 1'

ADA		TOTAL ELEVATED COMPONENTS	ADA ACCESSIBLE COMPONENTS	RAMP REQUIRED WITH 20 OR MORE ELEV. COMPONENTS	GROUND LEVEL ADA COMPONENTS	NUMBER OF TYPES OF GROUND LEVEL COMPONENTS
REQUIRED	18	18	9	NONE	6	3
PLAYSET PROVIDES	18	18	13	NONE	6	6

DING-HITE CLIMBER W/ HANDLES & SAFETY ARCH



**WOODLAND PICNIC AREA**



**CUSTOM PLAYSET**

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**Safety Certified**

**ASTM, CPSC & ADA**  
Play Mart certifies that our equipment meets or exceeds the standards given in the current ASTM F 1487, Consumer Product Safety Commission (pub.#325) and the ADA Accessibility Guide.

**ADA Accessible**  
Transfer Deck w/ Handles (11"-18" above resilient surface).



**DECK HEIGHTS**

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To verify product certification visit [www.playmart.com](http://www.playmart.com)



Playgrounds

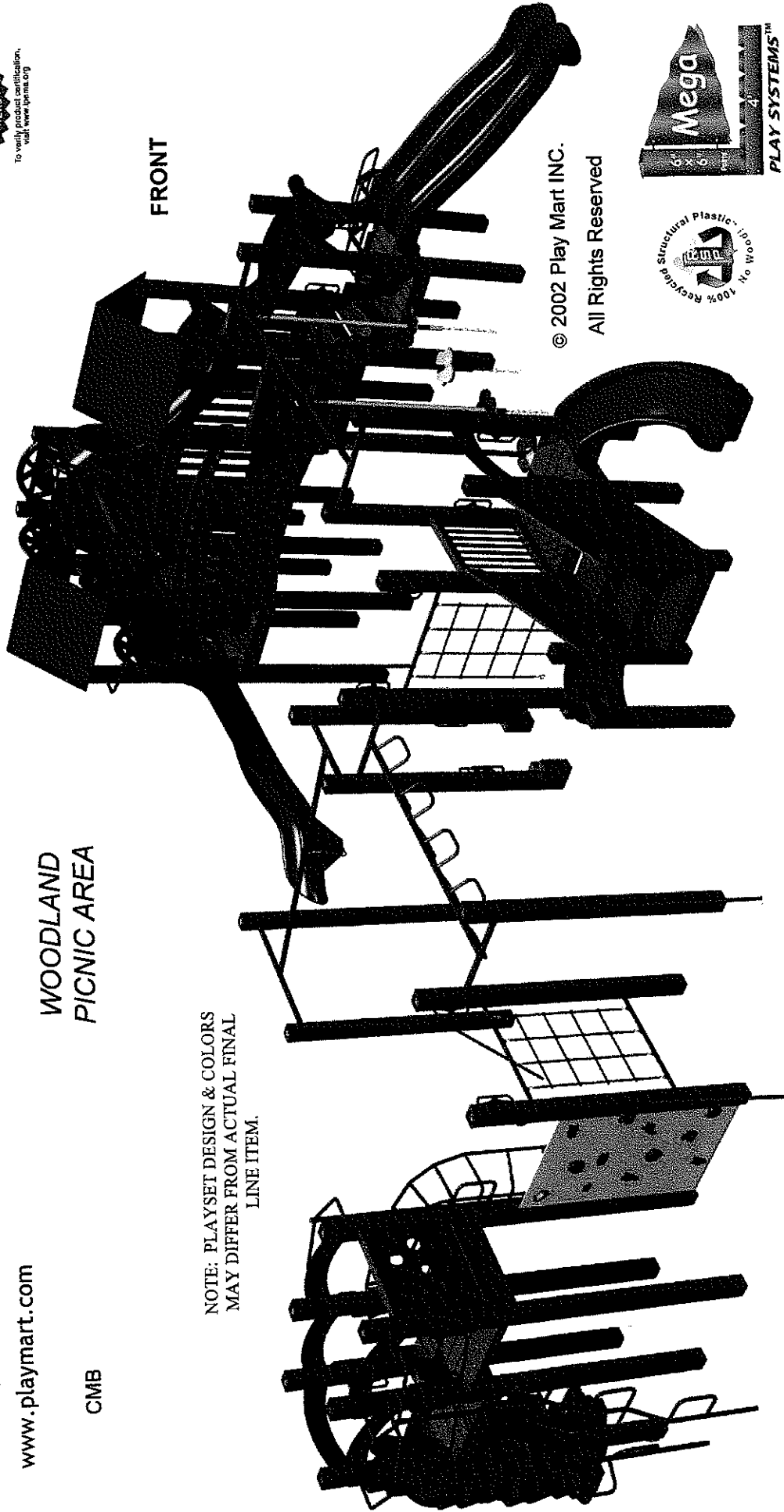
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# TWIN FALLS STATE PARK CUSTOM

WOODLAND  
PICNIC AREA

NOTE: PLAYSET DESIGN & COLORS  
MAY DIFFER FROM ACTUAL FINAL  
LINE ITEM.



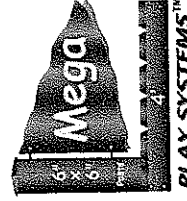
FRONT

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Playgrounds

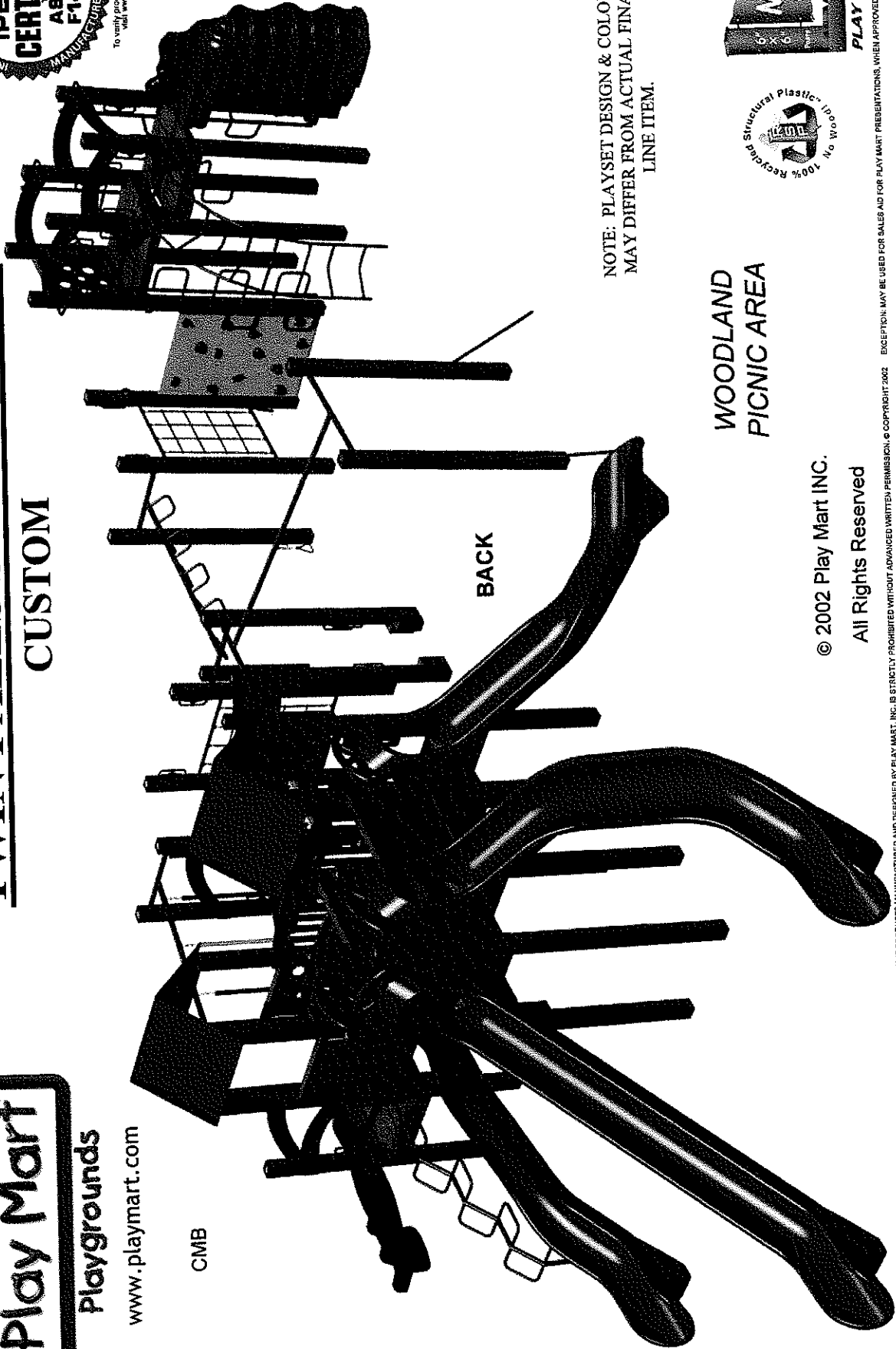
www.playmart.com

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# TWIN FALLS STATE PARK CUSTOM



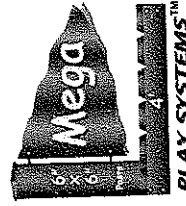
To verify product certification, visit [www.ipema.org](http://www.ipema.org)



BACK

NOTE: PLAYSET DESIGN & COLORS  
MAY DIFFER FROM ACTUAL FINAL  
LINE ITEM.

WOODLAND  
PICNIC AREA

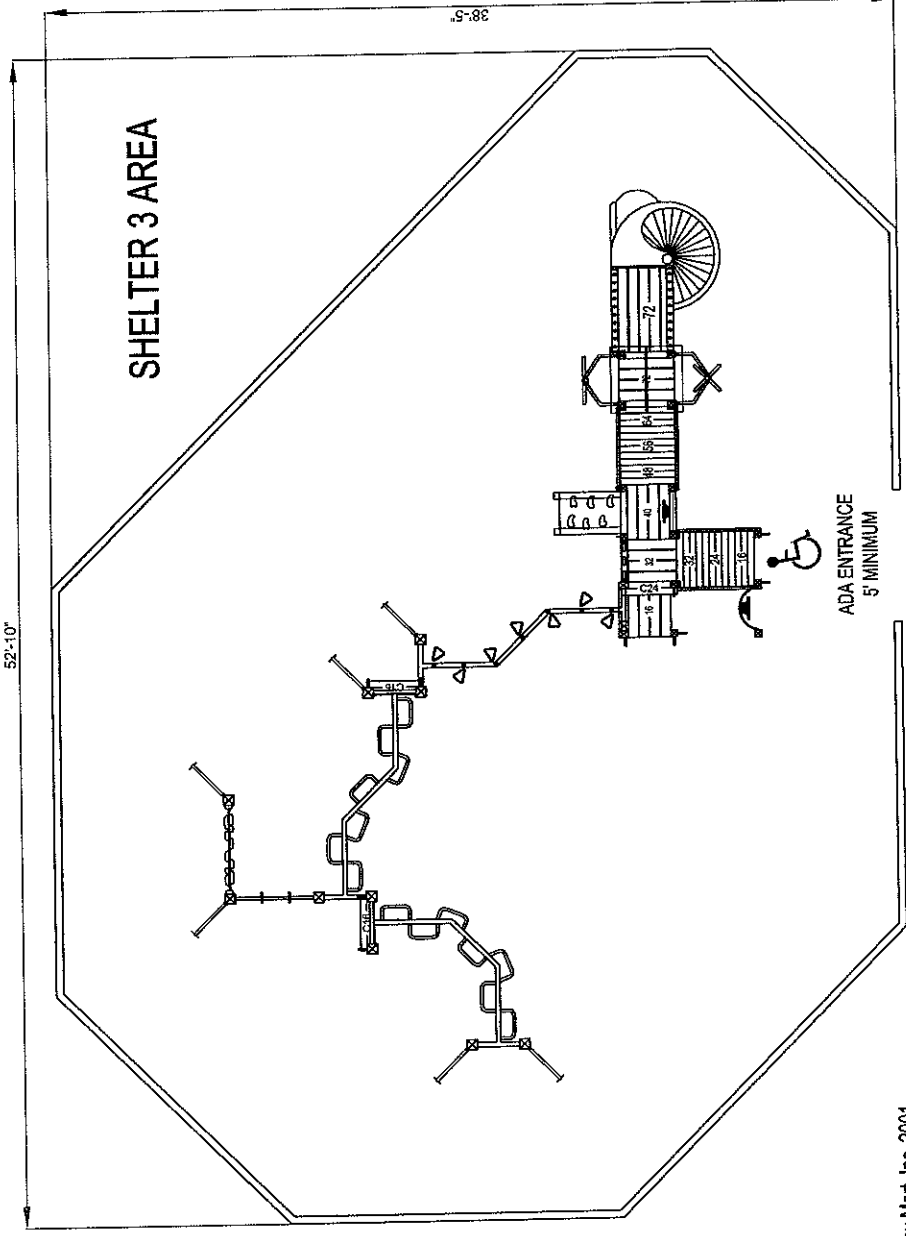


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# TWIN FALLS STATE PARK

MULLENS, WV 25882 / CONTACT PERSON: TBA / SALES REP: GINA HILL 1-800-437-5297



SHELTER 3 AREA

52'-10"

5'-88"

EJM 11/12/08



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**PLAYSET SPECS**  
Accommodates: 12-18  
Safety Zone: 53' X 39'

**FOUNDATION SPECS**  
IN GROUND 18"  
SURFACE MOUNT W/  
METAL BRACKETS:

**SITE SPECS**  
Surfacing: 1520 SF  
Surfacing Type: EWF  
Surfacing Depth: 9"-12"  
Borders: 148'  
Border Type: NIC



**RSP COLOR: BROWN**  
**COLOR SCHEME**  
**NAME: PARK**

**EXTRAS:**

**FILTER FABRIC**

**ELEMENTARY**  
Age: 5-12

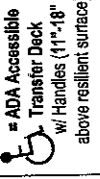
Railing Height:  
**Elementary - 38"**

Scale: 3/16" = 1'



**Safety Certified**  
**ASTM, CPSC & ADA**  
Play Mart certifies that our equipment meets or exceeds the standards given in the current ASTM F 1487.

Consumer Product Safety Commission (pub. #325) and the ADA Accessibility Guide.



**DECK HEIGHTS**  
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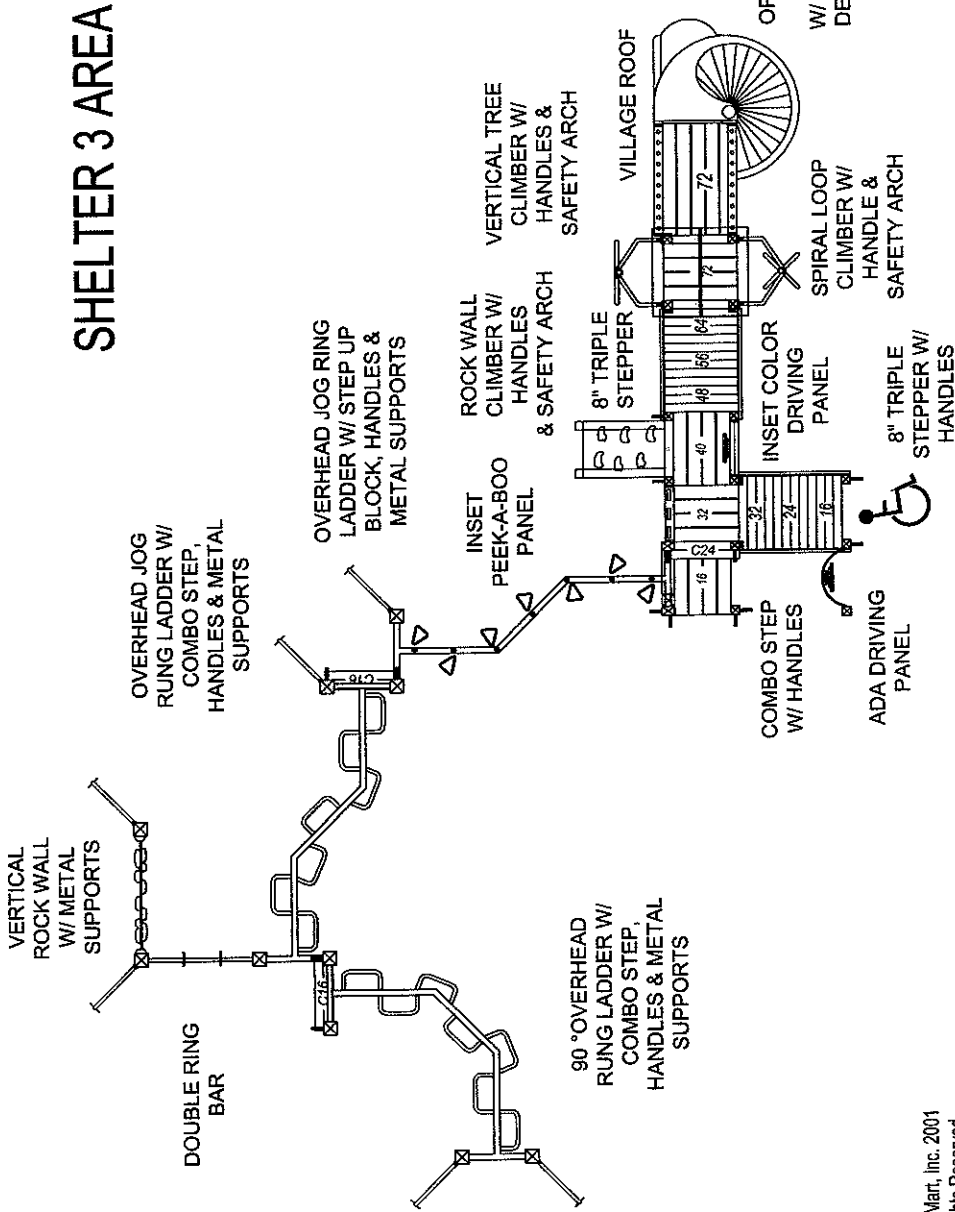
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PLAYSET: CUSTOM  
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# TWIN FALLS STATE PARK

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PLAYSET: CUSTOM

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**PLAYSET SPECS**  
Accommodates: 12-18  
Safety Zone: 53' X 39'

**FOUNDATION SPECS**  
IN GROUND 18"  
SURFACE MOUNT W/  
METAL BRACKETS:



**RSP COLOR: BROWN**  
**COLOR SCHEME**  
**NAME: PARK**

**EXTRAS:**

FILTER FABRIC

**ELEMENTARY**

Age: 5-12

Railing Height:  
**Elementary - 38"**

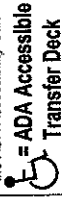
Scale: 1/4" = 1'



**Safety Certified**  
ASTM, CPSC & ADA

Play Mart certifies that our equipment meets or exceeds the standards given in the current ASTM F 1487,

Consumer Product Safety Commission (pub.#325) and the ADA Accessibility Guide.



**= ADA Accessible Transfer Deck**  
w/ Handles (11"-18" from resilient surface).



**DECK HEIGHTS**

Numbers on each deck represent the height of the deck in inches from the finished surface chosen. Maintaining correct depths of surfacing according to ASTM and CPSC Standards & Guidelines is the responsibility of the consumer.





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# TWIN FALLS STATE PARK CUSTOM

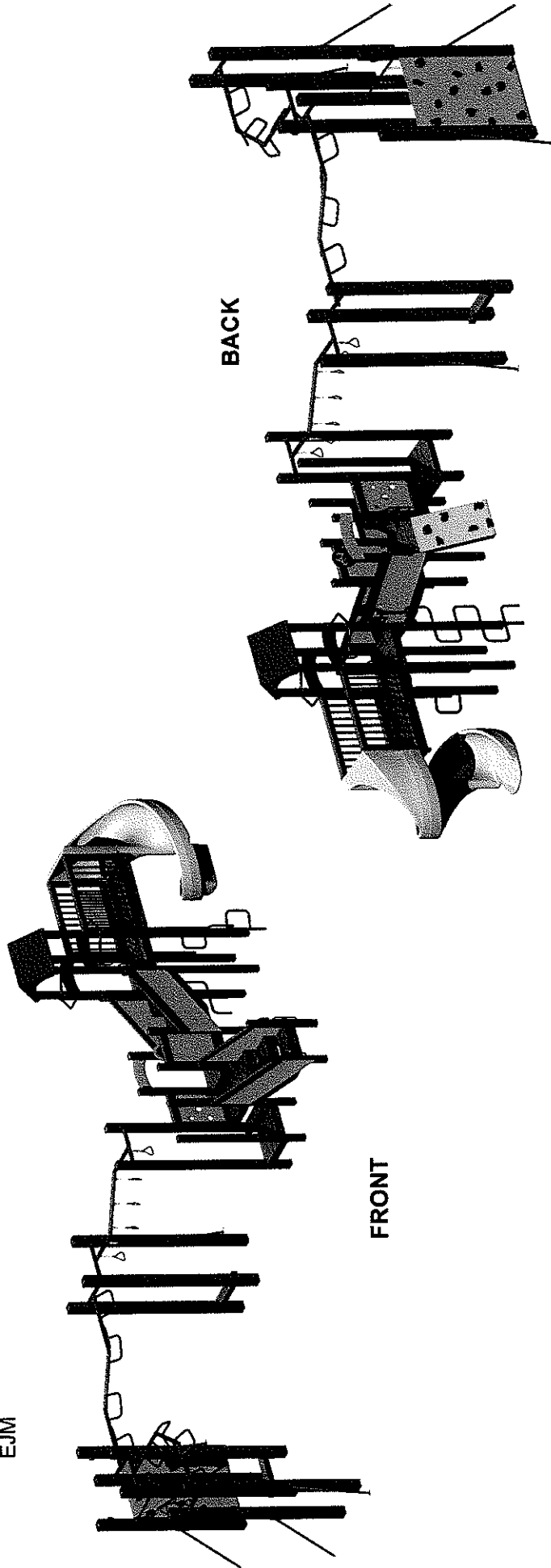
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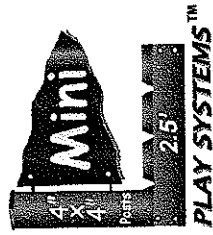
BACK

FRONT



11/12/2008 5:25 PM

NOTE: PLAYSET DESIGN & COLORS  
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## **SAFETY CERTIFICATION**

### **IPEMA**

Play Mart Inc. is a member in good standing with the *International Play Equipment Manufacturer's Association*. We abide by the regulations set forth by **IPEMA**, and certify that we follow the following guide lines used in **IPEMA** Certification.

### **ASTM Guidelines**

In accordance with the *American Society for Testing and Materials*, F 1487 – 01, Play Mart certifies that all play components adhere to the strictest interpretation of the safety guidelines in the design and manufacturing process. Under the supervision of a *Licensed Landscape Architect #506*, and *Certified Public Safety Inspector*, using Auto Cad, careful attention is given to the design of each piece of play equipment to ensure conformity to **ASTM** recommendations. By conformity to the current guidelines potential hazards such as protrusions, pinch points, sharp edges, head entrapments and clothing entanglements are eliminated.

### **CPSC Guidelines**

Play Mart certifies that all play components meet the recommendations provided by the *Consumer Product Safety Commission (CPSC)*. These recommendations are a major design factor in determining the safe play value for every new design, favoring the most stringent guideline. The *CPSI* supervisor continues to monitor during the entire manufacturing process for conformity to the **CPSC** guidelines.

### **ADA Law**

Play Mart strives to comply with: Part IV Architectural and Transportation Barriers Compliance Board 36 CFR Part 1191 Americans with Disabilities Act (**ADA**) Accessibility Guidelines for Building and Facilities; Play Areas; Final Rule. The *American Disability Act of 1991* requires that all public areas have handicap access. Play Mart certifies its designs provide **ADA** platforms, ramps or decks for handicap access. Under the supervision of the design staff, the shortest route to the **ADA** access is determined as part of the site plan. We also strive to provide multiple access decks/ramps or play stations at **ADA** access heights for age specific play equipment. In addition the March 2001 *Guide to ADA Accessibility Guidelines for Play Areas* further defined ratios of components. This Act is not law at the date of this writing, but nonetheless Play Mart will continue to alter equipment as needed in further revisions of the law in the future.

### **Safety Surfacing**

Of all the playground fatalities reported in U.S. hospitals, about three fourths of the injuries were a result of falls from play equipment. Therefore, Play Mart is very serious about working with the consumer in providing a safety cushion beneath equipment. We insist upon either Play Mart installing a factory direct safety surfacing such as "engineered wood fibers" or a recycled rubber surface. Both of these products meet **ADA**, **ASTM** and **CPSC** guidelines. Play Mart uses certified safety surfaces from certified (**ASTM**, **CPSC**) surfacing vendors. They will provide proof of their certification upon demand.

### **Age Appropriate Designs**

The **CPSC** recommendations favor the separation of age groups for 2 – 5 year olds and 6- 12 year olds, with age appropriate play systems for each age group. *Preschool age children generally require a contained area, separated from the other play areas*. Play Mart will work with the consumer in providing a site plan that incorporates the guidelines for age segregated areas.



**Playgrounds**  
www.playmart.com



## Play Mart's Benefits

Why are we the Leader in Recycled Plastic Play Systems? Read on!

Play Mart:	Play Mart's Benefit to Customers	Comparison Companies
<p><b>Privately-held, family business:</b> We maintain a commitment to our Mission Statement; our focus is on integrity and dependability, treating employees well, and reinvesting in growth and improvement of our company.</p>	<p>Customers should expect to be treated with same respect and integrity that we treat our employees with. At Play Mart, our motto is "The bottom line is not the bottom line. People are"</p>	<p>Conglomerates own many playground manufacturers and their primary focus is increased earnings instead of quality products and service. Ask your rep why they got into the business!</p>
<p><b>Woman-Owned Small Business:</b> Play Mart holds a preferred-vendor status as a Woman-Owned Small Business.</p>	<p>WOSB contributes to significant government incentives &amp; set-asides for purchasers based on Play Mart's preferred-vendor status.</p>	<p>Many playground manufacturers do not qualify for preferred-vendor status.</p>
<p><b>Stable company:</b> Play Mart maintains 26 years of experience and a record of steady growth and contribution to the playground industry.</p>	<p>Product and service quality controlled by owners, not public investors. Play Mart's owners are concerned with being a "great" company, not just satisfying demands of shareholders.</p>	<p>Many playground companies don't have the longevity in the industry and their financial integrity is either non-existent or at least less secure.</p>
<p><b>International Sales and Installation Network:</b> Consistent quality of service, no matter where your project is located.</p>	<p>Our customers can expect to receive exactly the product ordered and a consistently great level of service.</p>	<p>Many recycled plastic manufacturers are only local or regional, providing limited product availability and installation or repair services.</p>

*The Leader in RECYCLED Plastic Play Systems*

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PO BOX 4050, WEST SOMERSET, KY 42564 • 170 ALLENS WAY, SOMERSET, KY 42501

Play Mart:	Play Mart's Benefit to Customers	Comparison Companies
<p><b>Nationally CPSI certified installers:</b> Our installers are some of the best in the industry, all CPSI certified and maintain current insurance and licensing.</p>	<p>Play Mart customers can expect to receive dependable, quality, and timely installations. Our installers will ensure your satisfaction before leaving the site! CPSI certification ensures that our installers know the safety codes for playground equipment, which is extremely important for the safety of your children!</p>	<p>Most recycled manufacturers provide only local or regional installation services. Many installation crews are not CPSI certified, nor do they maintain adequate insurance or licensing.</p>
<p><b>Play Mart Trained &amp; Managed Installation Network:</b> Play Mart's certified installers have all been trained by us to insure that they are familiar with the unique characteristics of our recycled product.</p>	<p>On-call tech support and specialized installer website will insure your installers will have the most up-to-date information.</p>	<p>Uncertified contractors may not be up to date on CPSI codes or manufacturer's specifications. They may create safety hazards or void your warranty by installing equipment incorrectly.</p>
<p><b>Warranty:</b> 100 Year Warranty on Recycled Structural Plastic™ (RSP)</p>	<p>We at Play Mart believe so much in our product, we will stand behind it for an absurdly long time!</p>	<p>Make sure you read the fine print on other manufacturers' warranties – many don't compare to Play Mart's</p>
<p><b>Registered Landscape Architect</b> Play Mart's co-founder and co-owner is a Registered Landscape Architect and directs our product designs and site plans. (Our first playground was designed and built as a volunteer project in 1968!)</p>	<p>Your site-specific issues are taken into professional consideration during the design process to assure that critical site factors are taken into consideration and meet safety codes.</p>	<p>Most other manufacturers do not utilize landscape architects.</p>
<p><b>Made in America:</b> The majority (95% or greater) of Play Mart's products are manufactured in the US and Canada – most of them at our plant in Somerset, Kentucky.</p>	<p>We provide jobs and reinvests profits in the US economy, which is especially vital in the rural area in which Play Mart is based. The quality of our locally sourced and produced materials is much easier to control.</p>	<p>Many playground companies are outsourcing manufacturing overseas to increase their profits.</p>

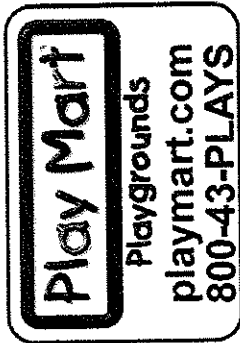
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PO BOX 4050, WEST SOMERSET, KY 42564 • 170 ALLENS WAY, SOMERSET, KY 42501

<b>Play Mart:</b>	<b>Play Mart's Benefit to Customers</b>	<b>Comparison Companies</b>
<b>RSP Made Locally:</b> The raw HDPE for our Recycled Structural Plastic is gathered from the Southeast US (KY, TN, GA & OH) and RSP is <b>extruded in-house</b> .	Use of local materials affords LEEDS incentives to customers interested in " <b>green</b> " certification and lessens the carbon footprint of Play Mart's product.	Products shipped from overseas consume more energy and have a larger carbon "footprint".
<b>Internal Recycling:</b> All HDPE waste produced during Play Mart's manufacturing process is recycled internally -- into RSP for playgrounds.	Internal recycling increases Play Mart's environmental responsibility and reduces industrial waste.	Many manufacturers have immense amounts of waste and environmental responsibility is low on the list of priorities.
<b>Metal Components:</b> All metal components are manufactured in-house.	Our strict quality control ensures better welds, powder coating, appearance and design of our metal components.	Smaller manufacturers' metal components are often unsafe designs. Larger manufacturers' metal components often provide shoddy welds and workmanship.
<b>Quality Control:</b> Play Mart's quality control processes include multiple double-checks and quick shipping for any missing parts. We don't ship until all pieces are included in the order	Play Mart's low incidence of missing parts and quick shipping helps to assure that your playground will be installed in a timely manner	Many manufacturers will ship out incomplete projects just to make monthly goals
<b>Safety:</b> Play Mart cares about safety! OSHA recommended Play Mart for their Sharp program due to our extremely high safety standards in manufacturing. ( <i>Only 6 companies in Kentucky qualified for this program</i> )	Our safer manufacturing processes demonstrate our commitment to providing safety -- both for our employees and your children!	

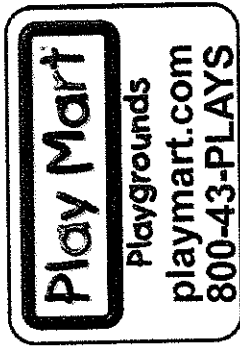
*The Leader in **RECYCLED** Plastic Play Systems*

WWW.PLAYMART.COM • TOLL FREE: (800) 43-PLAYS • FAX: (606) 678-0911  
PO BOX 4050, WEST SOMERSEI, KY 42564 • 170 ALLENS WAY, SOMERSEI, KY 42501



# Commercial "Gold Label" Warranty

Standing Behind our Equipment Since 1980!



**Warranty 09-01-04 - To Present**

LIMITED 100 YEAR WARRANTY on RSP COMPONENTS including POSTS, DECKS, BRIDGES, RSP BORDERS and RAILINGS under normal use and proper maintenance against structural failure due to corrosion, deterioration or weathering; not subjected to vandalism, negligence or acts of God. This warranty does not include moderate warping.

LIMITED 15 YEAR WARRANTY on STAINLESS STEEL HARDWARE and PLASTIC BORDERS under normal use and proper maintenance against structural failure due to corrosion, deterioration or weathering; not subjected to vandalism, negligence or acts of God.

LIMITED 10 YEAR WARRANTY on STEEL COMPONENTS and WOOD BORDERS against structural failure due to corrosion, rotting or deterioration. This warranty does not include moderate warping.

LIMITED 3 YEAR WARRANTY on all POLYETHYLENE SLIDES, ENCLOSURES and other PLASTIC COMPONENTS, BOUNCY ANIMALS (not including springs), TROLLEYS and SWING HANGERS against structural failure due to weathering, deterioration or manufacturing defects.

LIMITED FIRST YEAR WARRANTY on MOVING PARTS and all other MATERIALS not mentioned above for one year from the date of the signed Warranty Registration and Safety Certification against structural failure or manufacturing defects.

- The above warranties are valid only if the structures are erected in conformity with the layout plan and/or installation instructions provided by PMI; have been maintained and inspected in accordance with PMI's instructions; have not been subjected to addition or substitution of parts; and have not been modified, altered, or repaired by persons other than PMI or PMI's designees in cooperation with installers.
- The above mentioned warranties do not include any cosmetic issues, scratches, dents, marring, moderate warping, fading or discoloration.
- Damage resulting from vandalism, misuse, negligence, accidents or acts of God are not covered by this warranty.
- Warranties apply from the date of signed Warranty Registration and Safety Certification.
- To make warranty claim: complete a Warranty Claim Form. Attach copy of the original invoice, signed copy of Warranty Registration - Safety Certification and photographic evidence of damage or return damaged part. Warranty applies to original purchasing agent only and does not include equipment moved or reinstalled at a new location without Play Mart's written consent and cooperation.
- Service to upgrade equipment is available at current prices. Please call to request a safety audit or Repair Policy Form.
- Moving equipment: ASTM and CPSC guidelines mandate that any equipment moved must be upgraded to meet current safety standards. For continued warranty protection, Play Mart reserves the right to upgrade Play Mart play systems.
- Installation or labor is not included in replacement of warranty parts. Shipping is not included after first year on warranty parts.
- Restocking: Play Mart will restock play equipment in re-usable condition for a 20% fee + shipping.

Maintenance checks at regular intervals are the responsibility of the purchasing agents (see maintenance forms in Customer Pack).

NO OTHER WARRANTIES APPLY. THIS WARRANTY EXCLUDES ANY LIABILITY OTHER THAN EXPRESSLY STATED INCLUDING, BUT NOT LIMITED TO, ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.

**EFFECTIVE: September 1, 2004**

Play Mart reserves the right to improve and upgrade our equipment, designs, specifications & materials without notice.



## PLAY MART EQUIPMENT SPECIFICATIONS

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Revise Date: June 2008

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### **IPEMA Certified Products:**

IPEMA: In the interest of playground safety, the International Play Equipment Manufacturers Association (IPEMA) provides a Third Party Certification Service whereby a designated independent laboratory, Detroit Testing Laboratory, Inc., (DTL), validates an equipment manufacturer's certification of conformance to ASTM F1487, Standard Consumer Safety Performance Specification for Playground Equipment for Public Use, except sections 7 1.1, 10 and 12.6 1. The use of the corresponding logo in Play Mart, Inc.'s website signifies that Play Mart, Inc. has received written validation from the independent laboratory that the product(s) associated with the use of the logo conforms to the requirements of the indicated standard. Check the IPEMA website ([www.ipema.org](http://www.ipema.org)) to confirm product validation

### **Registered Landscape Architect Approved Designs:**

All designs, site plans or other drawings generated from Play Mart's AutoCAD and Inventor designers are approved by a Registered Landscape Architect, ASLA License #506.

### **Structural components:**

**RECYCLED STRUCTURAL PLASTIC (RSP™):** 100% recycled high density polyethylene (HDPE), and additives including recyclo-stabilizer, UV protectant and colorant additives, strengthening agents, blowing agents. Structural deck systems have passed the ASTM 12.4.1.3. structural integrity tests withstanding 273# / sq.ft. without failure. (See [www.ipema.org](http://www.ipema.org) for validated products) Horizontal structural members with steel inserts meet a stress level of 2610.00 psi.

Mini Systems: 4" x 4" posts [nominal], 24" x 31" Deck System

Mega Systems: 6" x 6" posts [nominal], 46" x 36" Deck System

All structural components must comply with ASTM-F 1487-07. 12 for Structural Integrity.

### **Walking Surfaces:**

**NON SLIP WALKING SURFACES:** All decks, bridges, transfer stations, and all walking surfaces shall be comprised of recycled plastic lumber with a minimum of (27) **SLIP RESISTENT RIDGES** (1/8" WIDE with 1/16" SPACING) to prevent injuries by falls when wet.

### **Hardware:**

All hardware shall be **stainless steel**; minimum of grade 304 Stainless Steel. Hardware employs a vandal-resistant lock system. Galvanized, zinc coated or plated hardware will not be accepted. Manufacturer must validate stainless steel and country of origin. Products manufactured in China will not be accepted. Meet standards for ASTM B-117 and ASTM D-1654; ASTM-F 1487-07 6.2, CPSC 9 1-9.4: all hardware shall be assembled such that no protrusion hazards or sharp edges exist.

### **Metal Components:**

**Sure Grip PAINT- Safety Powder Epoxy Wrinkle Finish for all metal products.** Specific gravity meets a calculated range of 1.2 – 1.7, direct impact resistance up to 140 in. / lb Flexibility follows the ASTM D 522 Test Method B, with equal to or less than 25 mandrel. Pencil hardness, following ASTM D test method 3368 [greater than or equal to "H", refer to standard]. Salt Spray resistance meets a 1000+ hour resistance rate. Humidity resistance meets a 1000+ hour resistance rate. Gloss (60°) [refer to ASTM D 523] less than 5 units

**Grade 304 Stainless Steel attachment plates, angle iron and welding wires for all applications.**

Meet standards for ASTM B-117 and ASTM D-1654  
Industry Average Steel recycled content: 85% minimum.

**Cautions for the End User:**

Equipment Manufacturers should be able to supply specification sheets for every material for verification. In particular specs should be provided for stainless steel hardware, plates and welding wire. A simple in-house test is to use a magnet on all metal parts. Stainless is not magnetic; steel (zinc coated or plated) is magnetic. Verification should also be provided on the recycled content of any product claiming to be "recycled". In particular, if any manufacturer claims its product is 100% recycled ask for verification. Most recycled materials require some portion of virgin materials to achieve consistency in color, strength, & durability.

**Plastic Components: Rotomolded**

Refer to ASTM D 1248 type 2 class A category 3 and Federal Specification LP-390 type 1, class M, grade 2: rotationally molded using polyethylene resin with wall thickness varying with the specific component's size and stress design from 1/4", 5/16", and 3/8" with the tolerances being plus or minus 1/16". All polyethylene shall contain a UV-8 maximum ultra violet stabilization package.

**Plastic Components: Roofs, panels, post-caps**

**Post Consumer Recycled Flat Plastic:** 100% recycled high density polyethylene (HDPE), with recyclable stabilizer, UV protectant and colorant additives.

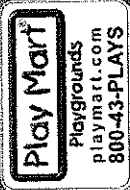
Refer to ASTM-F 1487-07 4.1, 4.1.1: Designed for commercial playground equipment industry

ASTM-D 257: Graffiti-resistant finish, non-delaminating.

ASTM-D 570: Moisture Resistant

ASTM-F 1487 4.1.1 UV Stabilized for Outdoor Applications

ASTM-D 638 – 1/2" – 3/4" in thickness



Available in Tan or Brown

# 100% Recycled Structural Plastic

Play Mart's exclusive Recycled Structural Plastic™ Posts, Decks, and Railings provide buyers with a choice that is economically and environmentally wise for now and the future.

## Maintenance Free!

• Nontoxic - will not leach or bleed arsenic, heavy metals or chemicals into water or soil.

• No splintering, cracking, splitting or shrinking.

• Flame, rot and fungus resistant.

• Mechanical properties remain static even when in continuous contact with water, sea air, salt and sand.

• NonPorous.

• Immune to termites, insects or other borers.

• Never needs painting or treating.

• Structurally stronger than wood/polymer com-

posites (steel inserts for added structural strength when required - reinforced members are stronger than wood).

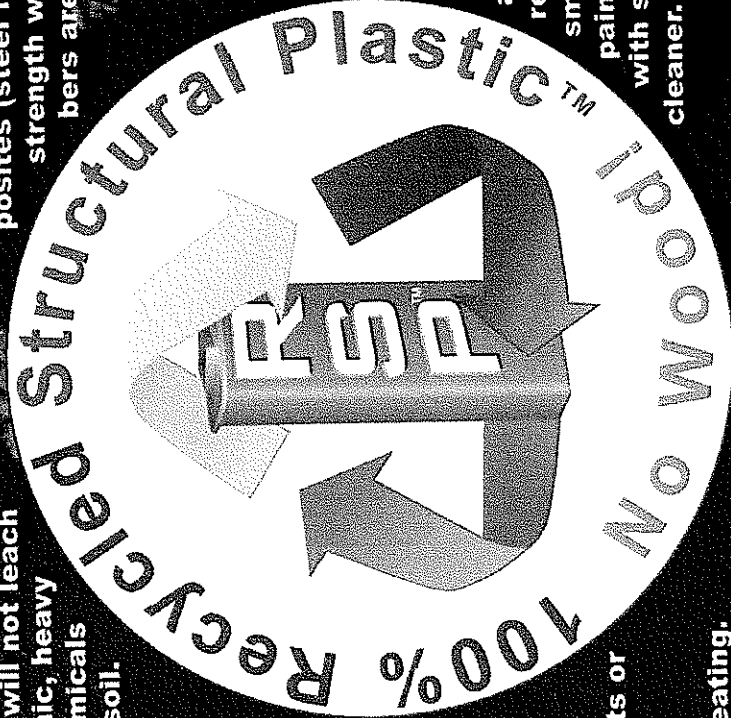


• More flexible than wood or steel. Flexes on impact preventing serious injuries to a child or the play structure.

• Graffiti resistant. Scratches remove or

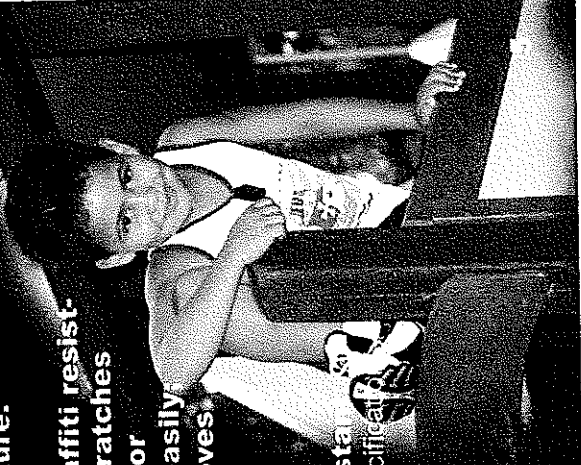
smooth easily. paint removes with simple cleaner.

• Colorfast - fade resistant. See pages 120 - 122 for RSP Specifications.



## 100 Year Warranty!

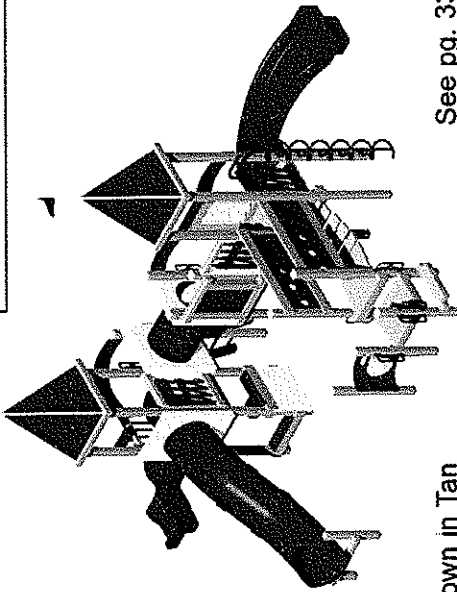
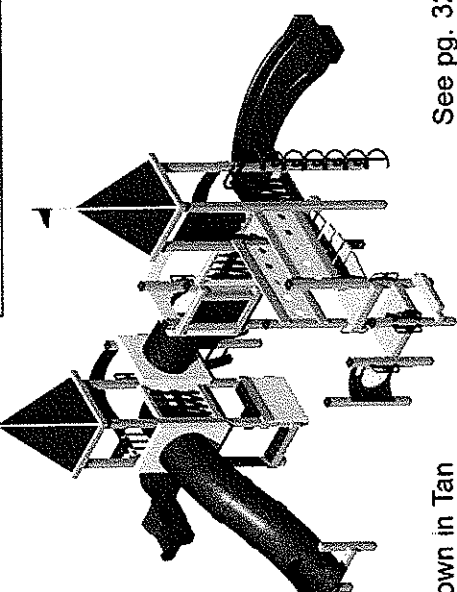
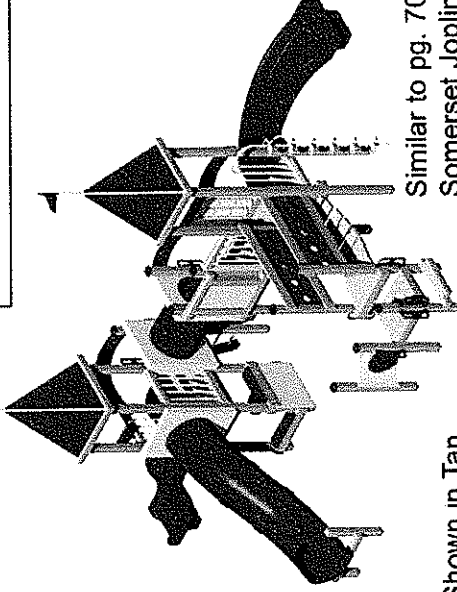
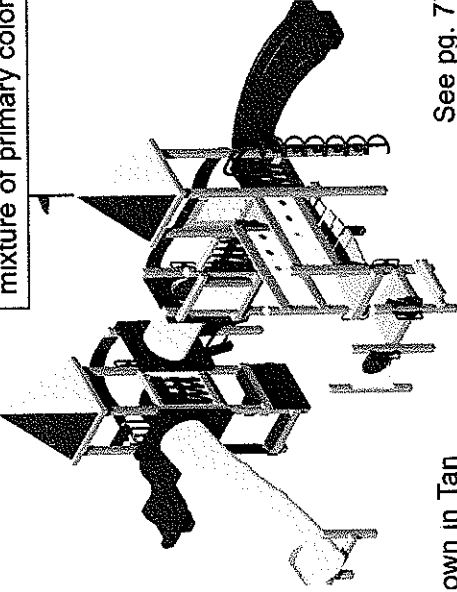
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# Play Area Planning

## 3. Play Equipment - Color Schemes

<p><b>BAY</b></p>  <p>Shown in Tan</p> <p>See pg. 33</p>	<p><b>NATURAL</b></p>  <p>Shown in Tan</p> <p>See pg. 32</p>
<p><b>CHERRY</b></p>  <p>Shown in Tan</p> <p>Similar to pg. 70-Somerset Joplin</p>	<p><b>PRIMARY</b> mixture of primary colors</p>  <p>Shown in Tan</p> <p>See pg. 77</p>

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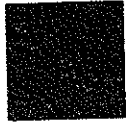
**Play Mart**  
Playgrounds  
playmart.com  
800-43-PLAYS

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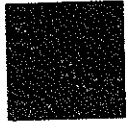


**Choose Color Scheme & RSP Color (decks, posts, & structural supports)**

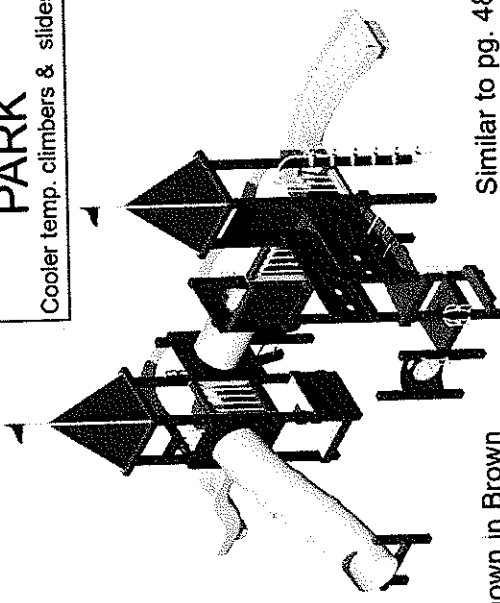
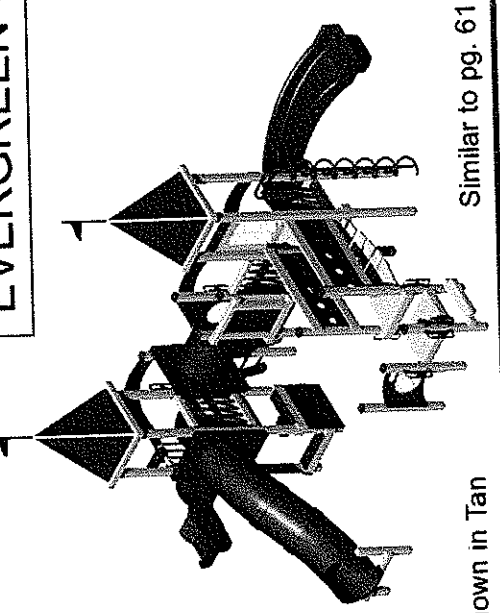
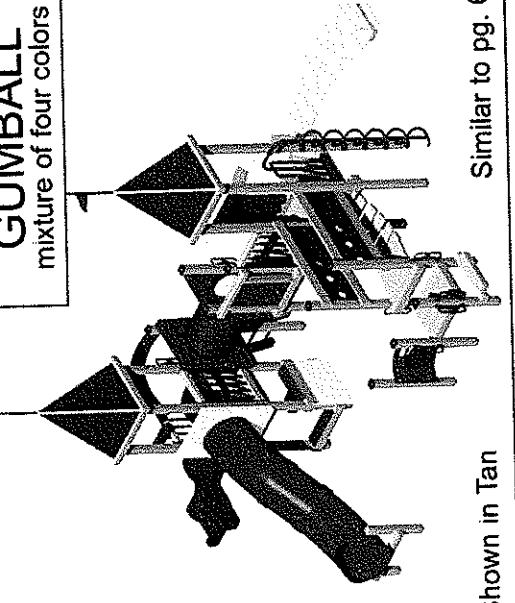
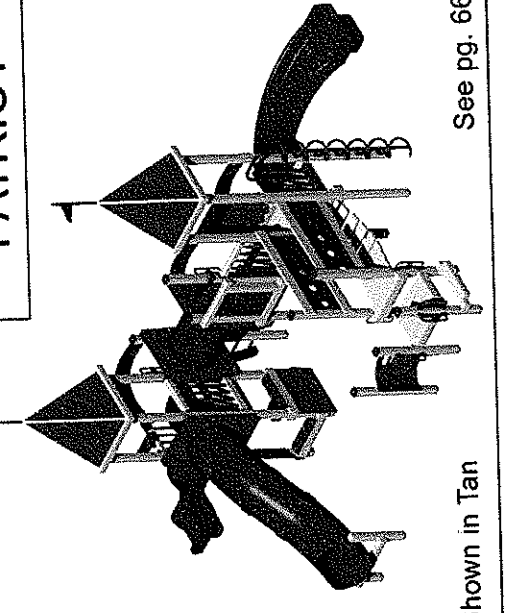
All color schemes available in either Tan or Brown RSP



Tan



Brown

<p><b>PARK</b> Cooler temp. climbers &amp; slides</p>  <p>Shown in Brown</p>	<p><b>EVERGREEN</b></p>  <p>Shown in Tan</p>
<p><b>GUMBALL</b> mixture of four colors</p>  <p>Shown in Tan</p>	<p><b>PATRIOT</b></p>  <p>Shown in Tan</p>

Similar to pg. 61

See pg. 66

# Material Specifications



## Hardware

### ASTM-F1487-4.2.1

All hardware for playground applications is **stainless steel**, plated or coated to inhibit rust and/or corrosion. Standard bolts, washers, and nuts are grade 304 Stainless Steel minimum. Rust Proof.

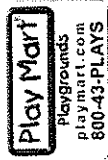


### ASTM-F 1487 6.2 & CPSC 9.1-9.4

All hardware is recessed or assembled such that no protrusion hazards or sharp edges exist.

### Recessed & Capped with 1-1/8" Plastic Inserts

- No Protrusions
- Vandal Proof



## Pipes & Galvanized Steel Products

ASTM B-117 and ASTM D-1654.

### Triple Coated Finish.

Quality Allied Tubing features a triple-coated finish. This leaves both the inside and outside of the tubing with a protective zinc galvanized finish.



### Electromagnetically powder coated.

Baked-on powder-coated finish provides lasting color and a corrosion-free quality playground. Powder-coating Allied's galvanized steel tubing provides at least 5 to 6 times greater corrosion resistance than powder coating over uncoated steel (High bake thermoset acrylic, 350 degrees F at 15 minutes. High bake alkyd 350 deg. at 15 minutes. High bake polyester 350 deg. at 15 minutes. Others may require individual evaluation).

Scribed powder coating over untreated substrate peels 1 1/2" after only 549 hours in a salt spray chamber. **No significant creepage found at 3,000 hours on Powder coating over Allied Flo Coat product.**

Tests were independently conducted by:  
Scientific Control Laboratories  
Chicago, IL, in accordance with ASTM B-117 and ASTM D-1654.



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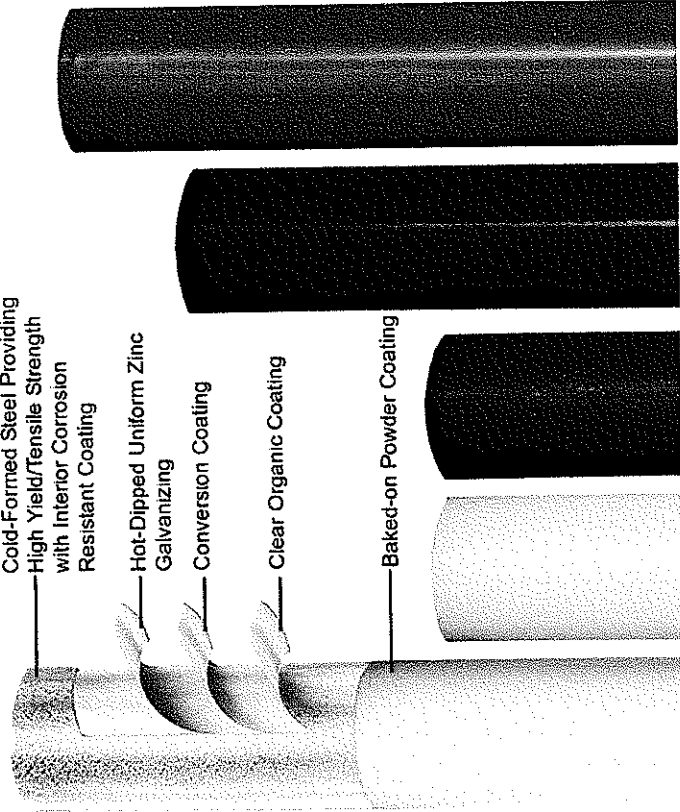
Cold-Formed Steel Providing High Yield/Tensile Strength with Interior Corrosion Resistant Coating

Hot-Dipped Uniform Zinc Galvanizing

Conversion Coating

Clear Organic Coating

Baked-on Powder Coating



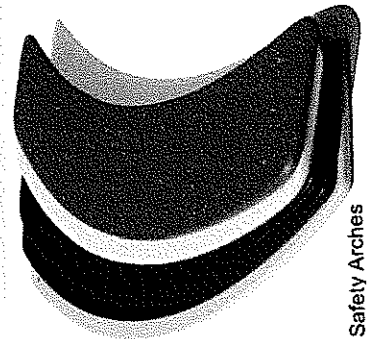
**Plastic Components - Slides, some panels, & handles:**

**ASTM D 1248 type 2 class A category 3 and Federal Specification LP-390 type 1, class M, grade 2**

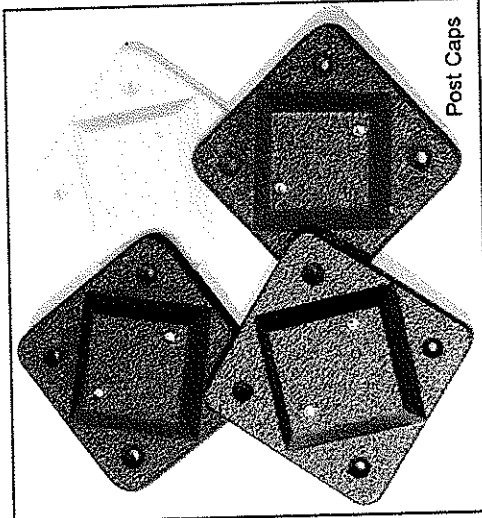
Rotationally molded using polyethylene resin with wall thickness varying with the specific component's size and stress design from 1/4", 5/16" and 3/8" with the tolerances being plus or minus 1/16"

**ASTM-F 1487 4.1.1**

Polyethylene contains a UV-8 maximum ultra violet stabilization package. Color is molded into part.



Safety Arches



Post Caps

**Plastic - Roofs, panels & post caps:**

**ASTM-F 1487 4.1, 4.1.1 - Designed for the Commercial**

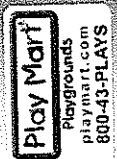
Playground Equipment Industry

**ASTM-D 257 - A Unique Graffiti-Resistant Finish: Hides Scratches & Scrapes and Won't Delaminate!**

**ASTM-D 570 - Moisture Resistant**

**ASTM-F 1487 4.1.1 - UV Stabilized for Outdoor Applications**

**ASTM-D 638 - 1/2" - 3/4" Thickness to Withstand Years of Heavy Use**



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Play Mart reserves the right to improve and upgrade our equipment designs, specifications and materials without notice.

# RSP Specifications



## RSP Test Results & Conclusions - Recycled Structural Plastic

### RSP Composition of Recycled Materials -

RSP Composition	% BY WEIGHT	SOURCE
HDPE - HIGH DENSITY POLYETHYLENE	95.5	MILK JUGS
POLYPROPYLENE	4.00	LIDS
RECYCLOSTABILIZER - STABILIZES RECYCLED MATERIAL	0.25	ADDITIVE
UV PROTECTANT - PROTECTS AGAINST COLOR FADING	0.25	ADDITIVE
<b>TOTAL</b>	<b>100.00</b>	

### Weights & Quantities of Recycled Materials - 2001 RSP PLASTIC LUMBER RAW MATERIAL WEIGHTS & JUG QUANTITIES

MILK JUG WEIGHTS	3.66 OUNCES / JUG	
MILK JUG LID WEIGHTS	0.15 OUNCES / LID	
TOTAL WEIGHT	3.8 OUNCES / JUG & LID	4.2 JUGS PER POUND
SAMPLE BOARD: 2"x4"x12'	33.51 POUNDS / BOARD	140.76 JUGS / BOARD
SAMPLE BOARD: 2"x6"x12'	50.02 POUNDS / BOARD	210.09 JUGS / BOARD
SAMPLE BOARD: 5/4"x6"x12'	28.51 POUNDS / BOARD	119.74 JUGS / BOARD
SAMPLE BOARD: 4"x4"x12'	52.92 POUNDS / BOARD	222.26 JUGS / BOARD
SAMPLE BOARD: 4"x6"x12'	83.16 POUNDS / BOARD	349.27 JUGS / BOARD
SAMPLE BOARD: 6"x6"x12'	124.81 POUNDS / BOARD	524.20 JUGS / BOARD

### 2001

Mechanical Engineering Testing Lab at Lehigh University, Bethlehem, PA  
May 1998 C.J. Coghlan

### REPORT STATEMENTS: 1.4.1 ENVIRONMENTAL REASONS TO

**USE PLASTIC LUMBER** "Plastic Lumber is becoming an appealing material to use due to environmental concerns...Plastic does not decompose from contact with the soil. This was the problem with landfilling plastic. In this case, a previously detrimental property has become a beneficial property. Environmental regulations are also making plastic lumber a material of choice. Many parts of the country are enacting legislation making it illegal to place pressure treated lumber into water...Plastic Lumber will not degrade and will not release any chemicals into the water. **RSP Lumber is an**

### environmentally friendly product."

### REPORT STATEMENTS: 1.4.2 ECONOMIC REASONS TO USE

### PLASTIC LUMBER

"There are economic reasons to use plastic lumber. Plastic lumber does cost more than traditional wood lumber...This means that a customer will have a greater initial investment to make. However, when the cost of plastic lumber is calculated over its lifetime, it becomes more cost effective than wood. Plastic lumber requires less maintenance than wood. Once it is set up, it should not be painted at all. It will not need to be waterproofed on a yearly basis because it is waterproof by its physical nature. Plastic planks will not splinter or crack. **There will be generally no maintenance after construction is completed."**

### 3.1 Test: Plastic Lumber Bending Tests - 1998

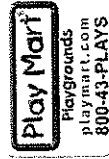
MATERIAL & SIZE	MAXIMUM LOAD	MAXIMUM STRESS	BENDING MODULUS
WOOD 2 x 4	2834.75 lbs	6106.92 psi	10,689,413 psi
RSP 2 x 4	2128.23 lbs	3691.15 psi	1,136,508 psi
WOOD 1 x 6	680.84 lbs	6106.92 psi	6,455,095 psi
RSP 1 x 6	1178.06 lbs	3583.11 psi	1,342,644.3 psi
WOOD 2 x 6	1980.26 lbs	4440.57 psi	7,215,713 psi
RSP 2 x 6	2672.57 lbs	3090.17 psi	1,084,108 psi
RSP IS STRONGER THAN WOOD IN SOME TESTS			RSP IS MORE FLEXIBLE THAN WOOD

### (Structural Resistance to Bending)

Mechanical Engineering Testing Lab at Lehigh University, Bethlehem, PA  
May 1998 C.J. Coghlan

**3.1.5 CONCLUSIONS:** "From these results, it is evident that RSP beams are more flexible and fail at lower stresses than their wooden counterparts."

**CONCLUSION 1: RSP is ultimately stronger than wood in maximum loading in two out of three tests, but remains more flexible with less resistance to bending.** (see tests with steel inserts for horizontal beam applications).



**PMI In-House Test: Mini Deck Loading Tests - 2001 (Structural Resistance to Bending)** Mini Deck with No Steel

PMI MINI DECK - MATERIAL SIZE	MAXIMUM LOAD	MAXIMUM LOAD Duration & Temp	MAXIMUM DEFLECTION
RSP 5/4" x 6" Frames & Tops	1000 lbs Live & Dead Loads	100 Hours	Passed with 1/240 Deflection
Deck Size 23" x 30" x 7"	200 psf	60 to 100 Deg. F. Fluctuation	No Failure
Deck Support Size (4) 3.5" x 3.5" x 10"			
Hardware Sizes	Deck Top Hardware (48) #10 x 2.5" SS Square Drive Deck Screws	Deck Frame Hardware (24) #10 x 3" SS Square Drive Deck Screws	Post & Frame Hardware (8) 3/8" x 4" Hex Drive Lag Bolts

Inserts

**CONCLUSION 2: RSP is strong in maximum loading in mini deck tests, due to closer joist spacing in the deck design, and passed a 200 psf loading test, double the code requirement for many commercial applications.**

**Rhodes Test: Plastic (composite) Lumber with Steel Inserts Bending Tests - 1997 (Structural Resistance to Bending)**

MATERIAL & SIZE	MAXIMUM LOAD	MAXIMUM STRESS	BENDING MODULUS
RSP 4 x 6 (3.8" x 5.44" x 30" Span) & 1/8" x 4" x 30" Steel	With Steel Insert 9,785.00 lbs.	2610.00 psi	Not Reported
RSP (2) 2 x 6 (3.12" x 5.44" x 30" Span)	(2) 2" x 6" Boards Without Steel 3,170.00 lbs Each Total 6,340.00 lbs	2050.00 psi each	Not Reported
Steel Inserts Increased Load Carrying Ability	9,785 - 6,340 = 3,445 lbs Extra Load Support	Not Reported	Not Reported
RSP WITH STEEL INSERT IS 54% STRONGER THAN RSP WITHOUT STEEL IN THIS TEST		RSP WITH STEEL IS MORE RIGID THAN RSP WITHOUT STEEL	

Rhodes Structural Testing Labs - Lexington, KY  
May 1997 Geisler, P.E. & J.M.P. Consultant Engineers, J.M. Poage Structural Engineer

**CONCLUSION 1:** RSP is ultimately stronger with steel inserts in maximum loading in these tests by 54% than an identical beam with no steel.

**3.1.5 CONCLUSIONS:** "The structural design is extremely safe to carry live load forces used for construction of "Play Mart, Inc." playground equipment. Safety factors of 2.0 to 4.77 were found for bending stress. Compressive safety factor for the 6" x 6" post was 24.5". I found the material structurally sound to be used for the manufacture of playground equipment per "Play Mart, Inc." specifications and uses." - Joseph L. Poage P.E. & L.S. Registered Professional Structural Engineer - State of KY #5257.

**RSP (w/steel) beams are 54% structurally stronger and safer, with appropriate design for recycled materials.**

**3.2 Test: Plastic Lumber Hardness Testing - 1998 (Structural Resistance to Marring)**

Mechanical Engineering Testing Lab at Lehigh University, Bethlehem, PA  
May 1998 C.J. Coghlan

The Average Force of Six Tests for RSP Plastic Lumber	<b>2471.79 lbs</b>	<b>2471.79 / 4448.46 =</b>
The Average Force of Six Tests for Wood	<b>448.46 lbs</b>	<b>5.51 ratio</b>

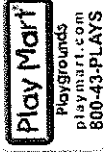
A steel ball of .444" diameter is driven to one-half its diameter into the surface of the material.

**CONCLUSION 1:** RSP is 5.51 times more resistant to surface marring than wood.

**3.2.5 CONCLUSIONS:** "It has been consistently shown that recycled lumber is not as strong in bending as is wood. RSP lumber is, however, almost six times as hard as is wood. In hardness testing, it was found that the orientation of the fiber in wood does allow it to be a factor in hardness. While this contributes to the fact that it is more difficult to cut, it also allows RSP recycled lumber to stand up to greater impact forces. This will enable RSP lumber to be handled more roughly than wood."

**CONCLUSION 2:** Vandalism is directed at the surface of all products first. RSP is more vandal resistant to surface defacing. Because the color penetrates the entire cross-sectional profile, it is impossible to scratch off the color of the material.

**RSP surface is vandal resistant (de-facing proof).**



Play Mart reserves the right to improve and upgrade our equipment designs, specifications and materials without notice.

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# RSP Specifications

## RSP Test Results & Conclusions Continued- Recycled Structural Plastic



### 3.3 Test: Plastic Lumber Impact Testing - 1998 (Structural Resistance to Breaking)

Mechanical Engineering Testing Lab at Lehigh University, Bethlehem, PA  
May 1998 C.J. Coghlan

**Report Statements: 3.3.1** "RSP lumber appears to have a number of properties that give it advantages over wood in certain applications. One area that this may occur is in its resistivity to sudden impact. In order to quantify this theory, Charpy impact testing was conducted on specimens of both RSP lumber and wood."

MATERIAL TESTED	BREAKING ENERGY REQUIRED AT ROOM TEMPERATURE	BREAKING ENERGY REQUIRED AT 14 DEG. F. TEMPERATURE
(4) Identical RSP Test Samples	138.2 ft. lbs.	137.8 ft. lbs.
(4) Identical Wood Test Samples	126.8 ft. lbs.	127.1 ft. lbs.
<b>RSP Breaking Strength / Wood Breaking Strength</b>	<b>Room Temperature RSP = 108.99% of Wood</b>	<b>Frozen RSP = 108.42% of Wood</b>

**3.3.7 CONCLUSIONS:** "The Charpy Impact test is used to measure the impact resistivity of a given material. It measures the amount of energy necessary to break a standard sized specimen of the material. This test was used to measure the impact resistivity of RSP lumber and wood. In both cases, the breaking energy of RSP lumber was greater than that of the wooden specimen used. The difference between the two fracture energies at room temperature was 11.4 ft.-lbs. The difference between the two fracture energies at 14 deg. F. was 10.7 ft.-lbs. From this it can be inferred that RSP lumber will be able to resist greater impact forces than wood."

**RSP is impact break resistant.**

### 3.4 Test: Plastic Lumber Water Absorption Rates - 24 Hour Submersion - 1998

Mechanical Engineering Testing Lab at Lehigh University, Bethlehem, PA  
May 1998 C.J. Coghlan

<b>BEFORE SUBMERSION IN WATER FOR 24 HOURS -</b> AVERAGE DIMENSIONS OF (4) RSP LUMBER SPECIMENS:	<b>6.031" L x 5.813" W x 1.938" TH.</b>
<b>AFTER SUBMERSION IN WATER FOR 24 HOURS -</b> AVERAGE DIMENSIONS OF (4) RSP LUMBER SPECIMENS:	<b>6.031" L x 5.813" W x 1.938" TH.</b>

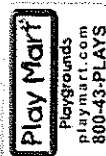
**CONCLUSION 1:** Size of specimens were unchanged after 24 hour submersion.

<b>BEFORE SUBMERSION IN WATER FOR 24 HOURS -</b> AVERAGE WEIGHT OF (4) RSP LUMBER SPECIMENS:	<b>6.031" L x 5.813" W x 1.938" TH.: 2.095 lbs.</b>
<b>AFTER SUBMERSION IN WATER FOR 24 HOURS -</b> AVERAGE DIMENSIONS OF (4) RSP LUMBER SPECIMENS:	<b>6.031" L x 5.813" W x 1.938" TH.: 2.099 lbs.</b>

**CONCLUSION 2:** Weight of specimens increased 0.2% after 24 hour submersion.

**3.4.5 CONCLUSIONS:** "The results of this experiment, while not surprising, are very favorable. It would be expected that the specimens of recycled lumber would not absorb water during submersion in water. After all, the materials from which this recycled lumber is manufactured were once used to make liquid containers... The fact that recycled lumber does not absorb water will allow it to be used in situations where wood would not be suitable."

**RSP is virtually waterproof.**



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# Test Results

STANDARD	DESCRIPTION	DATE	PAGES
	Cover page		1
	Inside Cover		1
ASTM F1292	WOODCARPET® Hardwood	2/8/95	4
ASTM F1292	WOODCARPET® Ten year old Hardwood	9/9/97	3
ASTM F1292	WOODCARPET® Coniferous	4/6/98	2
ASTM F 1292	WOODCARPET®, DURADRAIN™, & DURAKICK MAT™	6/9/99	7
ASTM F1951	WOODCARPET® Hardwood	5/16/01	3
ASTM F1951	WOODCARPET® Coniferous	6/28/99	3
ASTM F 2075	WOODCARPET®	6/25/01	2
16 FR Part1630	WOODCARPET®	6/29/92	2
16 CFR 1500.44	WOODCARPET®	6/29/92	2



# WOODCARPET®

RECREATIONAL SURFACING



## TEST RESULTS



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# IPEMA Certificate of Compliance



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, 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.

Date of Issue: **Friday, November 16, 2001**

Manufacturer: **Zeager Bros., Inc.**

Product #	Product Line	Description	Th/Ht Ratio
08w	Woodcarpet	8" Woodcarpet	8"/8'
12w	Woodcarpet	12" Woodcarpet	12"/12'
wm11w	Woodcarpet Mat	.75" Woodcarpet Mat over 11.25" Woodcarpet	12"/12'
dkdd	Durakick Mat with Duradrain	2" Durakick Mat over 1.4" Duradrain	3.4"/8'
dk	Durakick Mat	2" Durakick Mat	2"/5'
08 wgs	Woodcarpet/Gravel System	8" Woodcarpet over 3" Gravel	8"/8'
12 wgs	Woodcarpet/Gravel System	12" Woodcarpet over 3" Gravel	12"/12'
09 wdds	Woodcarpet/Duradrain System	9" Woodcarpet over 1.4" Duradrain	10.4"/12'

You may validate this certificate by visiting IPEMA's website at <http://www.ipema.org>

**IDENTIFICATION OF THE FOLLOWING TEST REPORT**

**TEST DATE:**

February 8, 1995

**TEST SAMPLE:**

WOODCARPET7 - Hardwood

**TEST METHOD:**

Testing was performed in accordance with ASTM F1292.

**PAGES:**

4, including this cover sheet

\*\* Testing was done by an independent testing laboratory.



# Detroit Testing Laboratory, Inc.

7111 E Eleven Mile. Warren, Michigan 48092 • PO Box 869, Warren, Michigan 48090-0869  
810 754-9000 • FAX 810 754-9045

REPORT NUMBER	CLIENT'S ORDER	DATE REC'D	REPORT DATE
007088-A	34240	1/16/95	2/8/95

REPORT FOR

ZEAGER BROTHERS, INC.  
4000 East Harrisburg Pike  
Middletown, PA 17057

Attn: Mr. Ted Illjes

TEST REPORT

SAMPLE DESCRIPTION:

The client submitted approximately 3 square yards of Wood Carpet for safety surfacing systems under and around playground equipment.

WORK REQUESTED:

To determine the different shock absorbing properties of Wood Carpet Fiber at three (3) different depths 6", 8", and 12" for Impact Attenuation.

TEST SPECIFICATION:

Testing was performed in accordance with ASTM F1292-93 and per ASTM F355, Procedure C.

CONCLUSION:

Wood Carpet at a depth of 6" passed at 11 ft. at 72°F.  
Wood Carpet at a depth of 8" passed at 13 ft. at 72°F.  
Wood Carpet at a depth of 12" passed at 14 ft. at 72°F.  
Wood Carpet at 6" 8" and 12", depth's with 3/4" Vinyl Mat on top passed at 12 ft. at 72°F.  
Wood Carpet at a depth of 12" with 3/4" Vinyl Mat 4" under the surface passed at 12 ft. at all three (3) temperatures.  
Wood Carpet at a depth of 12" with 3/4" Vinyl Mat 4" under the surface passed at 14 ft. at 72°F.  
Vinyl Mat 3/4" passed at 2 ft. at room temperature on hard surface.

TEST EQUIPMENT:

NOTE: Detroit Testing Laboratory, Inc. calibration program meets the requirements of MIL-STD>-45662A.

KME, HIC Computer; Model Series 300, S/N 316M400, No Calibration required  
PCB, Accelerometer; Model J357AOI, ID 08268, Calibrated to 7/13/95  
Tenney, Environmental Chamber; Model T6RC, ID EC006, Calibrated to 8/3/95  
K1A Magnesium Alloy Tuned Headform.  
DTL, Impact Tower.

Detroit Testing Laboratory, Inc. letters, reports and data are for the exclusive use of our customers to whom they are addressed. Our letters and reports apply only to those samples tested, and are not necessarily indicative of the qualities of apparent identical or similar products. Samples not destroyed in testing are retained for a maximum of thirty (30) days. The use of the name Detroit Testing Laboratory, Inc. or its Seal or insignia are not permitted to be used by the customer on their communication, brochures, advertising reports or other forms of media without prior written approval.

# Detroit Testing Laboratory, Inc.

ZEAGER BROTHERS, INC.

Report # 007088-A

Page # 3

## TEST RESULTS:

Sample Wood Carpet

DEPTH	(ft) HEIGHT	(f°) TEMP.	HIC/G	2rd DROP	3rd DROP	AVERAGE	PASS/FAIL
6"	6'	72°	HIC G	330 93	364 97	347 95	Pass Pass
6"	8'	72°	HIC G	625 126	570 120	597.5 123	Pass Pass
6"/mat	12'	72°	HIC G	762 133	710 131	736 132	Pass Pass
8"	12'	72°	HIC G	713 130	637 120	675 125	Pass Pass
8"/mat	12'	72°	HIC G	498 90	518 97	508 93.5	Pass Pass
9"	12'	72°	HIC G	657 121	770 135	713 128	Pass Pass
12"	12'	72°	HIC G	404 76	484 90	444 83	Pass Pass
12"	12'	72°/wet	HIC G	414 75	475 79	444.5 77	Pass Pass
12"	12'	30°	HIC G	586 107	527 98	556.5 102.5	Pass Pass
12"/mat	12'	30°	HIC G	409 77	444 81	426.5 79	Pass Pass
12"	12'	120°	HIC G	516 93	541 98	528.5 95.5	Pass Pass

These test results are measured against two distinct danger point levels where injury is likely to occur:

The "G" maximum danger point is 200

The Head Injury Criteria (HIC) is 1000

You will notice that our test results are well below each danger point.

# Detroit Testing Laboratory, Inc

ZEAGER BROTHERS, INC.

Report # 007088-A

Page # 4

## TEST RESULTS: (continued)

Sample Wood Carpet

BOX	(ft) DEPTH	(f°) HEIGHT	TEMP.	2rd HIC/G	3rd DROP	DROP	AVERAGE	PASS/FAIL
13	12"/mat	12'	72°	HIC G	431 74	439 77	435 75.5	Pass Pass
10	12"	14'	72°	HIC G	685 104	654 102	670 103	Pass Pass
15	12"/mat	14'	72°	HIC G	566 87	592 90	579 88.5	Pass Pass

**NOTE:** Sample Wood Carpet at a depth of 12" with Vinyl mat added was always 4" below the surface. Wood Carpet at other depths was on the surface.

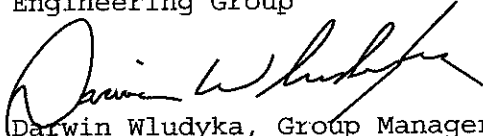
## SAMPLE DISPOSITION:

The test samples were disposed of by DTL per the clients request.

DETROIT TESTING LABORATORY, INC.



Daniel Smock, Test Technician  
Engineering Group



Darwin Wludyka, Group Manager  
Engineering Group

DS/DW:ppm

**IDENTIFICATION OF THE FOLLOWING TEST REPORT**

**TEST DATE:**

September 9, 1997

**TEST SAMPLE:**

WOODCARPET7 - Ten year old Hardwood

**TEST METHOD:**

Testing was performed in accordance with ASTM F1292.

**PAGES:**

3, including this cover sheet

\*\* Testing was done by an independent testing laboratory.



SGS U.S. Testing Company Inc.

291 Fairfield Avenue  
Fairfield, NJ 07004  
Tel: 201-575-5252  
Fax: 201-575-8271

REPORT NUMBER: 122847  
DATE: September 18, 1997  
PAGE 1 OF 6

REPORT OF TEST

CLIENT: Zeager Bros., Inc.  
4000 East Harrisburg Pike  
Middletown, PA 17057

SUBJECT: Shock Absorbing Properties of Playing Surfaces

AUTHORIZATION: Zeager Bros., Inc. Letter of Authorization dated August 6, 1997

SAMPLE ID: One (1) sample of playing surface was received from the Client on August 21, 1997. The Client identified the sample as:

WOODCARPET® PLAYGROUND SAFETY SURFACE MATERIAL (ENGINEERED WOOD FIBER) TAKEN FROM SHENK'S PARK OF THE DERRY TOWNSHIP PARK SYSTEM, BULLFROG VALLEY ROAD, HERSHEY, PENNSYLVANIA 17033, WHICH WAS INITIALLY INSTALLED ON NOVEMBER 6, 1987.

The sample was received in acceptable condition.

TEST PROCEDURE: The submitted sample was evaluated for Shock Absorbing Properties in accordance with the Client's instructions using the equipment described in F-1292-96 Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment.

TEST DATE: September 9, 1997

RESULTS: Continued on Page 2

PREPARED BY:  
*Frank Savino*  
Frank Savino, Manager  
Engineering Physical Properties  
SHOCK  
dj

SIGNED FOR THE COMPANY BY:  
*Frank Pepe*  
Frank Pepe, Vice President  
Operations

Member of the SGS Group

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SGS U.S. Testing Company Inc.

REPORT NUMBER: 122847  
DATE: September 18, 1997  
PAGE 2 OF 6

CLIENT: Zeager Bros., Inc.

Test Results Summary

Test Temperature: 23°C (73°F)

<u>Test Thickness. Inches</u>	<u>Drop Height. Ft.</u>	<u>Average "G" Max.</u>	<u>Average HIC</u>
6	4	62	161
	6	72	220
	8	96	394
	10	125	660
8	6	67	214
	8	85	353
	10	105	540
	12	124	754
10	6	59	177
	8	76	297
	10	95	462
	12	109	625
12	6	55	148
	8	69	247
	10	82	367
	12	96	511

REPORT OF TEST

**IDENTIFICATION OF THE FOLLOWING TEST REPORT**

**TEST DATE:**

April 6, 1998

**TEST SAMPLE:**

WOODCARPET7 - Coniferous

**TEST METHOD:**

Testing was performed in accordance with ASTM F1292.

**PAGES:**

2, including this cover sheet

\*\* Testing was done by an independent testing laboratory.



PA Office 1-800-346-8524  
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## CONIFEROUS WOODCARPET IMPACT ATTENUATION

The information on this page pertains to testing performed (report dated 4/6/98), on a fresh sample of WOODCARPET made from North American **coniferous** wood

### Test Procedure

Material was placed into box with a minimum inside dimension of 18 by 18 inches and side walls of sufficient height (18 inches) to hold the loose fill material at the thickness of intended used and to keep the loose fill material in place. Loose material was poured into a box to required depth. For every change to a new height, the material was mixed and brought back to the required depth. Conducted the impact test to certify sample for depths of 6" and 12", 72° F at a height of 12 feet. An impact test consists of three (3) drops at the same impact site at each thickness. Calculate the average of the second and third drops. The impact test samples were also tested at three (3) specific temperatures of 30° F, 72° F, and 120° F at the 12' height and 12" depth. One (1) group of samples were allowed to soak in room ambient water over night, drained, then tested as 72° F at 12' with a 12" thickness.

### Test Requirement

ASTM F1292-96: Using an average of the last 2 of 3 drops no value shall exceed 200 g-max or 1,000 HIC at temperatures of 30° F, 72° F and 120° F at each height and thickness for sample.

### Test Results (report date 4/6/98)

<u>Temperature</u>	<u>Height (ft)</u>	<u>Drop #</u>	<u>Thickness</u>	<u>HIC</u>	<u>Average HIC</u>	<u>Peak (g)</u>	<u>Avg Peak (g)</u>
72° F	6'	1	6"	373.9		94.21	
72° F	6'	2	6"	787.92		149	
72° F	6'	3	6"	890.36	839.14	163.95	156.475
72° F	13'	1	12"	273		67.31	
72° F	13'	2	12"	822		124.1	
72° F	13'	3	12"	996.25	909.125	141.03	132.565
72° F-Wet	13'	1	12"	46.64		33.44	
72° F-Wet	13'	2	12"	286.77		63.33	
72° F-Wet	13'	3	12"	406.28	346.525	80.26	71.795
120° F	12'	1	12"	273.24		71.3	
120° F	12'	2	12"	824.77		127.83	
120° F	12'	3	12"	923.59	874.18	139.04	133.435
30° F	12'	1	12"	972.9		76.77	
30° F	12'	2	12"	846.86		129.58	
30° F	12'	3	12"	972.9	909.88	143.03	136.305

**IDENTIFICATION OF THE FOLLOWING TEST REPORT**

**TEST DATE:**

June 9, 1999

**TEST SAMPLE:**

WOODCARPET®, DURADRAIN™, and DURAKICK MAT™

**TEST METHOD:**

Testing was performed in accordance with ASTM F 1292.

**PAGES:**

6, including this cover sheet

\*\* Testing was performed by an independent testing laboratory



# Detroit Testing Laboratory, Inc.

7111 E. Eleven Mile Warren, Michigan 48092 • (810) 754-9000 • FAX (810) 754-9045  
www.detest.com • Email: testing\_services@detest.com

## TEST REPORT

**ZEAGER BROTHERS, INC.**  
4000 E. Harrisburg Pike  
Middletown, PA 17057

<b>REPORT NO</b>	041871
<b>REPORT DATE</b>	6/9/99
<b>RECEIVE DATE</b>	6/7/99
<b>CUSTOMER REF</b>	289

**ATTN: Ted Iljes**

## SAMPLE DESCRIPTION

Zeager Brothers, Inc. submitted the following samples:

1. Wood Carpet
2. Dura Drain Panel 35mm
3. Dura Drain Panel 35mm topped with 9" of wood carpet pine
4. Dura Drain Panel 35mm topped with 9" of wood carpet pine, wet
5. Dura Kick Mat 50mm
6. Dura Drain Panel 35mm and Dura Kick Mat 50mm stacked

## WORK REQUESTED/TEST SPECIFICATIONS

Samples are to be tested for HIC (Head Impact Criteria) and g-max (maximum deceleration) at various heights in accordance with the instructions of the client. All testing performed in accordance with procedures noted in ASTM F1292-96.

## CONCLUSION

- Wood Carpet, coniferous, at a depth of 9" at 12' drop height, ambient temperature, Pass
- Dura Drain Panel 35mm at 3' drop height, ambient temperature, Pass
- Dura Drain Panel 35mm topped with 9" wood carpet pine, at 12'9" drop height, at -1.0°C, 23°C and 49°C, Pass
- Dura Drain Panel 35mm topped with 9" depth water saturated and drained wood carpet at 12' 9" drop height, ambient temperature, Pass
- Dura Kick Mat 50mm at 6' drop height, ambient temperature, Pass
- Dura Kick Mat 50mm and Dura Drain Mat 35mm stacked at 10' drop height, -1.0°C, 23°C and 49°C, Pass

**TEST RESULTS**

Reported test parameters are generally specified as set points of testing equipment. All documents utilized in the generation of this report such as plots, graphs, traces, equipment, data sheets, calibration tolerances and uncertainties of equipment used are located within DTL job folders and are available upon request.

Procedure: Test samples were subjected to head impact testing at various heights and locations indicated by the client. HIC and g-max averages were calculated from the second and third impacts.

Results:

**Sample 1:** Wood carpet coniferous 9" depth. Testing performed at one specified drop height, ambient indoor temperature.

Drop #	Height	HIC	Avg. HIC	Peak (g)	Avg. Peak	Ambient Temp.	Sample Temp.
1	12'	321.70		83.83		77.0°F	75.4°F
2	12'	490.81		101.00		77.0°F	75.4°F
3	12'	565.32	528.07	108.96	104.98	77.2°F	74.4°F

For Head Impact graphs please refer to Attachment A (3 pages)

**Sample 2:** Dura Drain Panel 35mm. Testing performed at one specified drop height, ambient indoor temperature.

Drop #	Height	HIC	Avg. HIC	Peak (g)	Avg. Peak	Ambient Temp.	Sample Temp.
1	3'	290.48		106.72		77.7°F	76.2°F
2	3'	398.85		132.59		77.8°F	76.2°F
3	3'	450.73	424.79	144.53	138.56	78.2°F	75.9°F

For Head Impact graphs, please refer to attachment B (3 pages)

**Sample 3:** Dura-Drain Panel 35mm topped with 9" depth wood carpet. Testing performed at one specified drop height, at 3 temperatures (-1.0°C, 23°C and 49°C).

Drop #	Height	HIC	Avg. HIC	Peak (g)	Avg. Peak	Ambient Temp.	Sample Temp.
1	12'9"	397.69		83.83		76.3°F	-1.0°F
2	12'9"	414.07		90.05		76.3°F	-1.0°F
3	12'9"	516.25	465.16	100.75	95.40	76.3°F	-1.0°F
1	12'9"	336.15		73.88		78.5°F	23°F
2	12'9"	349.46		81.84		78.5°F	23°F
3	12'9"	424.11	386.79	91.29	86.57	78.5°F	23°F
1	12'9"	292.83		63.43		76.4°F	49°F
2	12'9"	306.40		76.87		76.4°F	49°F
3	12'9"	365.47	335.94	83.83	80.35	76.4°F	49°F

For Head Impact graphs, please refer to Attachment C (9 pages)

**Sample 4:** Dura Drain Panel 35mm topped with 9" water saturated wood carpet. Testing performed at one specified drop height, indoor ambient temperature.

Procedure: Wood carpet sample was placed in a 24" x 24" box at a depth of 9" atop a 35mm drain panel. The sample was then waterlogged to the point at which the sample and box together could no longer retain water.

Drop #	Height	HIC	Avg. HIC	Peak (g)	Avg. Peak	Ambient Temp.	Sample Temp.
1	12'9"	95.47		37.06		78.9°F	70°F 67.2°F wet
2	12'9"	57.45		30.60		79.0°F	70°F 67.2°F wet
3	12'9"	18.03	37.74	37.06	33.83	79.0°F	70°F 67.2°F wet

Dura Drain Panel 35mm topped with 9" water saturated and drained wood carpet.  
 Testing performed at one specified drop height, indoor ambient temperature.

Procedure: The above described sample was tested and allowed to thoroughly drain for a 24-hour period and retested in a dampened state.

Drop #	Height	HIC	Avg. HIC	Peak (g)	Avg. Peak	Ambient Temp.	Sample Temp.
1	12'9"	312.40		61.94		75.5°F	70°F
2	12'9"	276.02		70.90		75.6°F	70°F
3	12'9"	323.01	299.52	78.86	74.88	75.7°F	70°F

For Head Impact graphs, please refer to Attachment D (6 pages)

**Sample 5:** Dura Kick Mat 50mm. Testing performed at one specified drop height, ambient indoor temperature.

Drop #	Height	HIC	Avg. HIC	Peak (g)	Avg. Peak	Ambient Temp.	Sample Temp.
1	6'	559.28		152.49		78.6°F	77°F
2	6'	679.92		187.06		78.6°F	77°F
3	6'	701.40	690.66	190.55	188.81	78.6°F	77°F

For Head Impact graphs, please refer to Attachment E (3 pages)



**Sample 6:** Dura Kick Mat 50mm and Dura Drain Panel stacked. Testing performed at one specified drop height at three temperatures (-1.0, 23°C and 49°C)

Drop #	Height	HIC	Avg. HIC	Peak (g)	Avg. Peak	Ambient Temp.	Sample Temp.
1	10'	784.02		123.63		76.6°F	-1.0°F
2	10'	898.78		134.58		76.6°F	-1.0°F
3	10'	904.22	901.50	136.57	135.58	76.6°F	-1.0°F
1	10'	736.92		116.90		78.7°F	23°F
2	10'	710.28		117.16		78.7°F	23°F
3	10'	697.03	703.66	116.67	116.92	78.7°F	23°F
1	10'	723.95		112.69		76.6°F	49°F
2	10'	797.25		121.39		76.6°F	49°F
3	10'	792.80	795.03	121.64	121.52	76.6°F	49°F

For Head Impact graphs, please refer to Attachment F (9 pages)

Requirements: ASTM F1292-96; using an average of the last two of three impact drops, no value shall exceed 200g max or 1000 HIC at indicated temperatures and specified drop heights.

**TEST EQUIPMENT**

**Detroit Testing Laboratory, Inc.'s calibration system meets the requirements of ANSI/NCSL Z540-1-1994.**

- KME, HIC Computer IV, model 300 series, ID # 08932, Calibrated Before Use
- Piezotronic Accelerometer, model 353B17, ID # 09119, Initial Calibration Only
- DTL Impact Tower, ID # 08704
- KIA Tuned Head Form
- Fluke 51 K/J Thermometer, ID #08233, Calibrated to 7/30/99
- TCA – Hygro-Thermometer, ID # 08708, Calibrated to 5/11/2000
- Environmental Chamber # 10, ID # EC010, Calibrated to 9/15/99
- Environmental Chamber #35, ID # EC035, Calibrated to 9/14/99

**IDENTIFICATION OF THE FOLLOWING TEST REPORT**

**TEST DATE:**

May 16, 2001

**TEST SAMPLE:**

WOODCARPET7 - Hardwood

**TEST METHOD:**

Testing was performed in accordance with the requirements of ASTM F1951.

**PAGES:**

2, including this cover sheet

\*\* Testing was done by an independent testing laboratory.

**PROCEDURE**

The test material was placed into fixture, then tested rolling wheelchair with four (4) even pushes across the material within seven (7) seconds. This procedure was repeated five (5) times for each (straight and turn).

**TEST RESULTS**

<b>RUN #</b>	<b>NO MATERIAL (WORK PER METER)</b>	<b>WITH MATERIAL (WORK PER METER)</b>
Straight Run 1	12.039 N	12.333 N
Straight Run 2	12.326 N	12.543 N
Straight Run 3	11.869 N	11.457 N
Straight Run 4	11.872 N	10.959 N
Straight Run 5	12.283 N	10.857 N
Average	12.064 N	11.583 N
Turn Run 1	11.386 N	9.542 N
Turn Run 2	10.536 N	9.802 N
Turn Run 3	11.431 N	9.446 N
Turn Run 4	11.376 N	9.433 N
Turn Run 5	11.419 N	8.922 N
Average	11.393 N	9.473 N

ASTM F1951-99 Work per Meter was determined discarding the high and low work per meter values and averaging the three remaining trials.

- Average Work per Meter Straight, No Material, Grade of 7.1% = 12.064 N
- Average Work per Meter Straight, With Material = 11.583 N
- Average Work per Meter Turn, No Material, Grade of 7.1% = 11.393 N
- Average Work per Meter Turn, With Material = 9.473 N

**REQUIREMENTS**

The Average Work per Meter values for straight propulsion and turning with material should be less than the average work per meter for straight and turning on a flat surface with a Grade of 7.1%.

**IDENTIFICATION OF THE FOLLOWING TEST REPORT**

**TEST DATE:**

June 28, 1999

**TEST SAMPLE:**

WOODCARPET7 - Coniferous

**TEST METHOD:**

Testing was performed in accordance with the requirements of ASTM F1951.

**PAGES:**

3, including this cover sheet

\*\* Testing was done by an independent testing laboratory.

**Beneficial  
Designs  
Inc.**

5858 Empire Grade  
Santa Cruz CA 95060-9603  
408 429 8447 ph  
408 423 8450 fax

**Surface Testing Report – ASTM F1951**

Standard Specification for Determination of Accessibility of  
Surface Systems Under and Around Playground Equipment

**SUMMARY OF RESULTS**

Beneficial Designs, Inc. received a surfacing sample from **Zeager Bros., Inc.** described by the manufacturer as Loose Fill with the brand name **Woodcarpet Conifer**. This sample of Woodcarpet Conifer met the maneuverability performance requirements of ASTM F1951-99.

Report prepared by

  
Denise Chesney, Director of Research

28 July 1999

Date

**TEST SPECIMEN**

Manufacturer **Zeager Bros., Inc.**  
Name **Woodcarpet Conifer**  
Type Loose Fill  
  
Mfr.'s lot no. unknown  
Thickness 12 in.

**TEST DATE**

28 June 1999

**TESTING CONDITIONS**

Surface water content 18.9%  
Surface temperature 87 deg F  
Atmospheric temperature 91 deg F  
Relative humidity 27 %

**INSTALLATION, LEVELING & COMPACTION**

A 6-inch layer of Woodcarpet Conifer was installed over 2-inch drain rock and geotextile fabric, wetted and compacted with a vibrating plate compactor to a depth of 4 inches. An additional 6 inches of Woodcarpet Conifer was installed, wetted and compacted with a vibrating plate compactor to a depth of 8 inches. A final 6-inch layer of Woodcarpet Conifer was installed, wetted and compacted with a vibrating plate compactor to a total depth of 12 inches.

Prior to testing, the surface was leveled by placing a large piece of plywood down on the surface and having a person jump systematically across the entire area.

Prior to each test trial, the surface was leveled using a 1 ft. by 1 ft. square tamper.

**TEST WHEELCHAIR & RIDER**

Manufacturer Sunrise Medical/Quickie  
ID no. None  
Model Quickie II  
Weight 33.2 lb.

Weight of test wheelchair rider 165 lb.

Front-to-rear weight distribution  
of wheelchair-rider system 38.4 % - 61.6 %

## WHEELCHAIR WORK MEASUREMENT METHOD RESULTS

### Straight Propulsion on Woodcarpet Conifer

	Work per meter (N*m)	Trial Time (sec)
Trial 1	69.0	6.9
Trial 2	68.3	6.8
Trial 3	73.3	6.6
Trial 4	71.7	6.6
Trial 5	70.1	6.5

Average work per meter (n=3) = **70.3 N\*m**

### Turning on Woodcarpet Conifer

	Work per meter (N*m)	Trial Time (sec)
Trial 1	47.4	6.0
Trial 2	44.3	6.2
Trial 3	46.9	6.1
Trial 4	44.8	6.1
Trial 5	48.1	6.1

Average work per meter (n=3) **46.4 N\*m**

### Straight Propulsion on 7.1% Ramp\*

	Work per meter (N*m)	Trial Time (sec)
Trial 1	71.1	7.0
Trial 2	75.9	7.5
Trial 3	77.3	7.9
Trial 4	74.7	7.6
Trial 5	69.6	7.8

Average work per meter (n=3) **73.9 N\*m**

\* Hard smooth surface with grade 7.1+/-0.2% (1:14)

### Turning on 7.1% Ramp\*

	Work per meter (N*m)	Trial Time (sec)
Trial 1	58.2	6.7
Trial 2	55.7	6.4
Trial 3	54.6	7.1
Trial 4	55.8	6.8
Trial 5	56.1	6.2

Average work per meter (n=3) **55.9 N\*m**

Straight Propulsion Work Ratio **0.95**

Turning Work Ratio **0.83**

Work ratio = Avg work on surface / Avg work on 7.1% ramp. If both the straight propulsion and turning work ratios are less than 1.00, the surface system meets the performance requirements of F1951-99.

**IDENTIFICATION OF THE FOLLOWING TEST REPORT**

**TEST DATE:**

June 25, 2001

**TEST SAMPLE:**

WOODCARPET®

**TEST METHOD:**

Testing was performed in accordance with ASTM F2075.

**PAGES:**

2, including this cover sheet

\*\* Testing was done by an independent testing laboratory.



# ANALYTICAL LABORATORY SERVICES, INC.

Environmental ♦ Industrial Hygiene ♦ Food Science

www.analyticallab.com

Page # 1  
Sample # 181102-1

ATTN: Mr. Ted Illjes  
Zeager Bros. Inc.  
4000 East Harrisburg Pike  
Middletown PA 17057

June 25, 2001

## LAB ANALYSIS REPORT

Job Name	: Zeager Brothers Inc.	Customer PO#	:
Jon Number	: Z2122-TI-MC	Date Sample	: 05/18/01
Location	: Wood Carpet Sieved	Date Received	: 05/18/01
Sample State	: Solid Waste Grab	Date Approved	: 06/22/01
Collector	: CLT	Discard Date	: 07/06/01

TEST/PARAMETER	RESULT	UNITS	REPORTING	
			LIMIT	METHOD
METALS				
ASTM Metals by ICP				
Antimony	N.D.	mg/1	0.011	DRAFT
Arsenic	N.D.	mg/1	0.022	DRAFT
Barium	0.16	mg/1	0.011	DRAFT
Cadium	0.001	mg/1	0.006	DRAFT
Chromium	0.006	mg/1	0.011	DRAFT
Lead	0.009	mg/1	0.011	DRAFT
Selenium	N.D.	mg/1	0.011	DRAFT
Mercury, ASTM Leachate	N.D.	mg/1	0.0010	DRAFT

N.D. - Not Detected

All testing completed on this sample follow the ASTM draft method  
Provided by the client.

\*\*\*\* Continued \*\*\*\*



**IDENTIFICATION OF THE FOLLOWING TEST REPORT**

**TEST DATE:**

June 29, 1992

**TEST SAMPLE:**

WOODCARPET7

**TEST METHOD:**

Testing was performed in accordance with 16 FR Part 1630, modified procedure  
(not oven dried).

**PAGES:**

2, including this cover sheet

\*\* Testing was done by an independent testing laboratory.



# United States Testing Company, Inc.

291 FAIRFIELD AVENUE • FAIRFIELD, NEW JERSEY 07004 • 201-575-5252 • Fax: 201-575-8271

## REPORT OF TEST

REPORT #: 017954-1

DATE: 6/29/92

PAGE: 1 of 1

**CLIENT:** Zeager Brothers, Inc.  
4000 East Harrisburg Pike  
Middletown, PA 17057

### REFERENCE:

Zeager Brothers, Inc. letter of authorization dated 6/19/92 by Theodore F. Illjes.

### SAMPLE IDENTIFICATION:

One (1) sample of playground safety surface material identified as 'WOODCARPET.."

### TEST PERFORMED AND TEST RESULTS:

The apparatus and methods of testing were those described in 16 FR Part 1630 Standard for Surface Flammability of Carpets and Rugs (FF1-70), Modified procedure (NOT OVEN DRIED), tested as received.

<u>Pass</u>	<u>Fail</u>	<u>Resistant to Flammability</u>
8	0	Yes (as tested)

Requirements: At least 7 of the 8 specimens must meet test criterion for the material to be classified as resistant to flammability.

Testing supervised by:

Howard Barbara  
Supervisor-Flammability  
Textile Services

SIGNED FOR THE COMPANY BY:

Dominick A. Martucci  
Director  
Textile Services

HB/lis

**SGS** Member of the SGS Group (Societe Generale de Surveillance)

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**IDENTIFICATION OF THE FOLLOWING TEST REPORT**

**TEST DATE:**

June 29, 1992

**TEST SAMPLE:**

WOODCARPET

**TEST METHOD:**

Testing was performed in accordance with 16 CFR 1500.44 of the Federal Hazardous Substances Act, Title 16, Chapter II, Subchapter C for Rigid and Pliable Solids.

**PAGES:**

2, including this cover sheet

\*\* Testing was done by an independent testing laboratory.



# United States Testing Company, Inc.

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## REPORT OF TEST

REPORT #: 017954-2

DATE: 6/29/92

PAGE: 1 of 1

CLIENT: Zeager Brothers, Inc.  
4000 East Harrisburg Pike  
Middletown, PA 17057

### REFERENCE:

Zeager Brothers, Inc. letter of authorization dated 6/19/92 by Theodore F. Illjes.

### SAMPLE IDENTIFICATION:

One (1) sample of playground safety surface material identified as 'WOODCARPET.'

### TEST PERFORMED AND TEST RESULTS:

The method of testing was that described in 16 CFR Part 1500.44 of the Federal Hazardous Substances Act Title 16, Chapter II, Subchapter C for rigid and pliable solids.

Burn Length (Inches)	Time (Seconds)	Burn Rate (Inches/Second)
DNI	-	-
DNI	-	-
DNI	-	-
DNI	-	-

DNI - Did not ignite

Requirements: A material is considered "flammable" if it ignites and burns with a self-sustained flame at a rate greater than 0.1 inches per second along its major axis.

Conclusion: Based upon the results of the test reported, the submitted sample does meet the requirements of the Federal Hazardous Substances Act.

Testing supervised by:

Howard Barbara  
Supervisor-Flammability  
Textile Services

SIGNED FOR THE COMPANY BY:

Dominick A. Martucci  
Director  
Textile Services

HB/lis

**SGS** Member of the SGS Group (Societe Generale de Surveillance)

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KY Office Phone 1-800-296-9227  
Fax 270-586-4493

PA Office Phone 1-800-346-8524  
Fax 717-944-7681

## **COMMONLY ASKED QUESTIONS ABOUT DURALINER FABRIC**

**December 28, 1998**

**QUESTION: HOW MUCH SHOULD I OVERLAP THE FABRIC?**

**ANSWER:** We recommend overlapping the seams 10"

**QUESTION: HOW DO I FIGURE OUT HOW MUCH FABRIC I NEED  
(INCLUDING ENOUGH FOR OVERLAPPING THE SEAMS?)**

**ANSWER:** If you are using our 5' x 250' rolls, multiply the area in square feet by the number of layers needed ( 1 or 2 layers), then multiply by 1.2, then divide that by 1,250 sq. ft. to get the number of rolls needed. If using our 10' x 250' rolls, multiply the area in square feet by the number of layers needed, then multiply by 1.1 and divide that by 2,500 sq. ft. to get the number of rolls needed.

**QUESTION: HOW IS DURALINER SOLD?**

**ANSWER:** By the roll - not by square feet or square yard