PLAYGROUND AUDIT GUDDE ASTMI and CPSC Compliance



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# INTRODUCTION

In 1981 the U.S. Consumer Product Safety Commission (CPSC) published its Handbook for Public Playground Safety. This was a set of guidelines designed to reduce the number and severity of accidents on public use playgrounds. The Handbook was promulgated in response to the growing number of serious accidents which were reported on playgrounds and play equipment from hospital emergency rooms throughout this country. The 1981 guidelines were directed towards play areas for children ages 5-12 years.

In November, 1991 the CPSC issued a revised Handbook for Public Playground Safety, with many changes from the previous version. The new version addressed equipment for children from the age of two years to twelve years and, based on current injury data, identified some new areas of concern. This handbook has had 2 revisions since 1991.

ASTMI (American Society for Testing and Materials International) is one of the largest voluntary standard-setting organizations in the world. In 1988 ASTMI undertook a project to develop safety standards for Public Use Playground Equipment. A committee of over 140 professionals and consumers, dedicated to playground safety, worked on the development of this standard and, in December, 1993, ASTMI Published F1487, Standard Consumer Safety Performance Specification for Playground Equipment for Public Use, which has since had 3 revisions.

This audit publication measures existing playground equipment against the latest ASTMI F1487 and the CPSC Guidelines. Although the ASTMI standard is "voluntary," it was developed with the cooperation of the CPSC, and communities seeking to upgrade their playgrounds should use both documents as resource points. That is the intent of this publication.

It should be noted that there is a major difference between an audit and an inspection of the playground. The audit identifies the pieces that are on the playground, their current condition, and how they measure up to the ASTMI specification F1487. In addition, the surfacing and design of the play area are evaluated. The audit forms the basis for the development of a master plan to upgrade the safety of the play area and in addition to identifying the current conditions, it prioritizes the changes that have to be made to remove, repair, replace. Using the completed audits, a community can establish both the plan and budget for playground upgrading. This is especially important since few communities can afford to make all the identified changes at one time, and need to establish a plan to have their playgrounds meet the ASTMI F1487 requirements.

After the audit is completed and playgrounds upgraded, regularly scheduled inspections should be held, to make certain that the playground remains in good condition. Of course, constant inspections are crucial so that regular maintenance procedures can repair and replace worn and deteriorating parts of equipment. The audit allows the user to both judge the playground against the ASTMI standard F1487 and the CPSC Handbook, and also to prioritize actions needed for upgrading. It uses a priority system based upon one which appeared in the National Park Service publication **Trends**. The three levels of priority, as identified in this article, are:

- 1. Any condition which is life-threatening or can cause severe, permanent disability.
- 2. Any condition which can cause serious or non-disabling injury.
- A condition which may cause slight injury; \*a condition which may not have caused injury but does not meet the requirements in ASTMI F1487 Standard Consumer Safety Performance Specifications for Playground Equipment for Public Use, and the CPSC Handbook for Public Playground Safety.

\* This last statement has been added by the auditors to the priority ratings identified in **Trends**.

In addressing these priorities it is obvious that priority (1) items must be addressed immediately, followed by the second and third priorities. Together they form the master plan for upgrading your playground.

An audit sheet should be filled out for every piece of play equipment and every playground you operate. These reports should be kept on file for the life of the equipment and play area.

This Audit Guide is being provided as a public service by:



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If you have any questions on the audit procedure, or if you are interested in a Playground Audit Kit, contact your local Playworld representative, or call 1-800-233-8404.

# QUICK REFERENCE GUIDE

### ASTMI SPECIFICATION F1487 AND CPSC HANDBOOK FOR PUBLIC PLAYGROUND SAFETY

	SURFACING REQUIREMENTS
Methods Used to Determine Shock Absorbency	200g maximum and 1000 HIC maximum
Fall Height (Definition)	The vertical distance between a designated play surface and the protective surfacing beneath it.
Critical Fall Height	The maximum height which yields no more than 200g and 1000 HIC when impacted in a fall.
Fall Height Measurement	<ul> <li>Swing – height of pivot point</li> <li>Elevated Platforms – height of the platform</li> <li>Upper Body Equipment – maximum height of structure</li> <li>Climbers – Free-Standing – highest part of the climbing component</li> <li>Climbers – Access/Egress – highest part of the climber intended for foot support</li> <li>Merry-Go-Rounds – height of any part of perimeter on which child may sit or stand</li> <li>See-Saws – maximum height attainable by any part of the see-saw</li> <li>Spring Rockers – maximum height above the ground by seat or designated play surface</li> <li>Balance Beams – highest part of the walking surface</li> <li>Sliding Poles – platform when accessed from platform</li> <li>Sliding Poles without Platform – 60" below highest portion of pole</li> <li>Log Rolls – the highest point of the rolling part</li> <li>Roofs – have no fall height requirements</li> </ul>
Use Zones (Definition)	Where protective surfacing is required. The area beneath and immediately adjacent to a play structure or equipment that is designated for unrestricted circulation around the equipment and on whose surface it is predicted that a user would land when falling from or exiting the playground.
USE ZONES: Stationary Equipment	Should extend a minimum of 6 feet from perimeter. May overlap if designated play surfaces are no more than 30 inches above the protective surfacing (See ASTMI for additional information).
Slides	No less than 6 feet from slide exit end; maximum 8 feet (ASTMI). No overlap. 6 feet around all other sides.
Single Axis Swings	Two times height of pivot point to surface front and back and 6 feet at either end. Ends may overlap.
Multi-Axis Swings	Six feet from pivot point plus length of suspending member, 6 feet at the ends. Ends may overlap.
Tot Swings	Two times height of pivot point to occupant's sitting surface, front and back, 6 feet at either end. Ends may overlap.
Merry-Go-Rounds	Six feet from perimeter. No overlap allowed.
Spring Rocking Equipment	Six feet from at-rest perimeter if intended for sitting. May overlap if seat is no higher than 30 inches. Seven feet from at-rest perimeter if intended for standing. Sides may not overlap.
Composite Equipment	Use zone for individual components in one design. Use professional judgment. Single and multi-axis swings.
Equipment That Requires No Use Zone	The use zone for stationary play equipment shall extend no less than 72 in. (1830 mm) from all sides of the play structure. Equipment that is intended for a user to maintain contact with the ground during play has no individual use zone requirements (for example, free standing talk tubes, free standing activity panels, ground level sandboxes).

**Quick Reference Guide** 

Edges

Sharp Points, Corners,

Wood Parts, Corners

**Suspended Members** 

**Head Entrapment** 

**Opening**)

(Completely Bound

Protrusions

## **GENERAL HAZARDS**

#### **ASTM**

Should be none

All corners rounded.

#### Should be none. Exposed open ends of all tubing not resting on the Exposed open ends of all tubing not resting on the ground or otherwise covered shall have caps or plugs ground or otherwise covered shall have caps or plugs that cannot be removed without tools. that cannot be removed without tools. Smooth, free of splinters, Smooth, free of splinters, All corners rounded. A projection that fails the protrusion test. A projection that fails the protrusion test. No surface should protrude beyond test gauge. No surface should protrude beyond test gauge. For all completely bound openings, if the small torso For all completely bound openings, if the small torso probe can be inserted into the opening to a depth probe can be inserted into the opening to a depth greater greater than 4 inches, then the large head probe must than 4 inches, then the large head probe must also pass through the opening, or you have head entrapment. also pass through the opening, or you have head entrapment. (Area to be tested-use probes) (Area to be tested-use probes) leg is horizontal or projects downward.

**CPSC** 

Angles Test for partially bounded openings. Angle of vertex not less than 55 degrees, unless lower Rigid shield can cover angle less than Rigid shield can cover angle less than 55 degrees. Rigid shield can cover angle less than 55 degrees. **Tripping Hazards** Not addressed. All anchoring devices installed below playing surface. Not addressed. No concrete footings exposed. Not addressed. No environmental obstacles including rocks, roots, other ground protrusions. Not addressed. Retaining walls highly visible, charge of elevation. Support posts for balance beams shall not pose a tripping hazard. Not addressed. **Crush and Shear Points** Should be none. Should be none. Finger Probe test added. Use only materials with demonstrated Use only Materials Use only materials with demonstrated Use only materials materials with demonstrated durability. with demonstrated durability. New materials shall be tested or documented by New materials shall be tested or documented by manufacturer. manufacturer. Ferrous Metals painted or galvanized. Plastics and Ferrous Metals painted or galvanized. other materials shall be protected against ultraviolet Meet CPSC regulation for lead paint. liaht Wood naturally rot-resistant or treated after Meet CPSC regulation for lead paint. fabrication. Wood naturally rot-resistant or treated after Creosote, pentachlorophenol and tributyl tin oxide not fabrication. acceptable. Creosote, pentachlorophenol and tributyl tin oxide not acceptable. Hardware Should not be removable without use of tools. Should not be removable without use of tools. Fasteners corrosion resistant. Fasteners corrosion resistant. Bearings or bearing surfaces that reduce friction or Bearings easy to lubricate or self-lubricating. wear. S-hooks are considered closed if no gap or space more than .04" exists. (This is about the thickness of a dime.) S-hooks closed tightly as possible. (.04 measured with a feeler gauge.) **Metal Surfaces** Warning message to communicate hot play surface(s). Bare metal platforms and slide beds located out of direct sun ravs. Stability When properly installed, equipment withstands forces for overturn, tip, slide or move in any way. Alternative to testing is professional certification. Maintenance Comprehensive maintenance program. Comprehensive maintenance program.

## **GENERAL HAZARDS** continued

#### ASTM

### CPSC

Installation	Follow manufacturer's instructions.	Follow manufacturer's instructions.
	Do not deviate from manufacturer's instructions.	Do not deviate from manufacturer's instructions.
	Not addressed.	Inspect before first use.
	Not addressed.	Keep all instructions on file.
	Durable label to identify manufacturer.	Durable label to identify manufacturer.
	Label of warning on surfaces.	Not addressed.
Maximum Heights	Height restriction on horizontal ladders, and balance beams.	Height restriction on horizontal ladders balance beams and tot swings.
General Cables, Wires, Ropes	None should be suspended between play units within 45 degrees of play units horizontal (if greater than 7 feet are horizontal (if greater than 7 feet are exempt) doesn't apply to flexible exempt) doesn't apply to flexible climber – use bright colors for ropes & cables.	None should be suspended between play units within 45 degrees of play units horizontal (if greater than 7 feet are horizontal (if greater than 7 feet are exempt) doesn't apply to flexible exempt) doesn't apply to flexible climber – use bright colors for ropes & cables.
Age Separation	Play equipment for a specific age group shall have all play activities meet requirements for that age group.	Separate areas should be provided for younger children with appropriately sized equipment (pre-schoolers require more supervision).

### LABELING

	ASTM	CPSC
Shall Read	All play structures and composites must carry a durable warning label and separate manufacturer's identification. Label shall not be able to be removed without a tool.	Signs and/or labels should give adults guidance on age appropriateness of equipment (CPSC Guidelines).
	Either a sign or label shall be provided stating the age group the playground is for along with "adult supervision is recommended."	
Warning	Installation over a hard surface such as concrete, asphalt or packed earth may result in serious injuries or death from falls.	Not addressed.
	Triangle with exclamation point inside shall precede "Warning."	Not addressed.

### IMPORTANT TO NOTE DEFINITIONS

**Designated Play Surface** – any elevated surface for standing, walking, sitting or climbing, or a flat surface larger than 2" wide by 2" long having less than a 30 degree angle from horizontal.

**Professional Judgment** – The ability of an individual with current knowledge, skill or experience, or both, in the field of playground/playground equipment design, use, or operations, which enables the person to form an opinion or make a decision, or both, concerning a matter within that field of expertise.

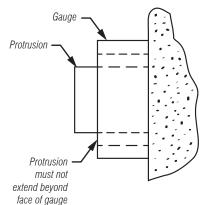
# PLAYGROUND SAFETY AUDIT TESTING PROCEDURES

#### **PROJECTION TEST PROCEDURES**

Successively place each gauge over any projection and determine if it projects beyond the faces of the gauge (see figure).

#### PROJECTION TEST PROCEDURE FOR SUSPENDED MEMBERS OF SWING ASSEMBLIES

Conduct the test with the suspended member in its rest position. Place the gauge (2 inches o.d.  $\times$  1-1/4 inches i.d.  $\times$  1/8 inch thick) over any projection on the front or rear surface of the suspended member such that the axis of the hole in the gauge is parallel to both the intended path of the suspended member and a horizontal plane. Visually determine if the projection penetrates through the hole and beyond the face of the gauge.



### ENTRAPMENT TEST PROCEDURE FOR COMPLETELY BOUNDED OPENINGS

Attempt to place the Small Torso Probe in the opening with the plane of the probe parallel to the plane of the opening. While keeping it parallel to the plane of the opening, the probe should be rotated to its most adverse orientation i.e. major axis of the template oriented parallel to the major axis of the opening. If the Small Torso Probe can be freely inserted through the opening, place the Large Head Probe in the opening, again with the plane of the probe parallel to the plane of the opening, and attempt to freely insert it through the opening.

An opening can pass this test when tested in accordance with the above test procedures in one of two ways.

1. The opening does not admit the Small Torso Probe when it is rotated to any orientation about its own axis, or

2. The opening admits the Small Torso Probe and also admits the Large Head Probe. An opening fails the test under the following conditions: the opening admits the Small Torso Probe but does not admit the Large Head Probe.

#### ENTRAPMENT TEST PROCEDURE FOR NON-RIGID OPENINGS

Place the Small Torso Probe in the opening, tapered end first, with the plan of the probe parallel to the plane of the opening. While keeping its base parallel to the plane of the opening, rotate the probe to its most adverse orientation (major axis of probe parallel to major axis of opening). Determine whether the probe can be pushed or pulled through the opening by a force no greater than 50 lbs. If the Small Torso Probe cannot pass completely through the opening, it conforms to the requirements.

If the Small Torso Probe passes completely through the opening, place the Large Head Probe in the opening with the plane of its base parallel to the plane of the opening. Again attempt to push or pull the probe through the opening with a force no greater than 50 lbs. If the Large Head Probe can pass completely through the opening, it conforms to the requirements.

### TEST FOR PARTIALLY BOUNDED OPENINGS - SEE ASTMI STANDARD F1487.

# FORMS

PLEASE FEEL FREE TO REPRODUCE THE FOLLOWING SAMPLE AUDIT FORMS FOR YOUR OWN PERSONAL USE IN DETERMINING THE SAFETY OF YOUR PLAYGROUND.

## **GENERAL HAZARDS**

Playground:	Materials:
Location:	Surface:
Inspected by:	Ages of intended Users:
Location:	Weather:
Height:	Date of Audit:

### PRIORITY

1 Life threatening, permanent disability

#### 2 Serious or non-disabling injury

🚯 Slight injury or may not have caused injury but does not meet ASTMI F1487 or CPSC Handbook for Public Playground Safety

	CONDITION	PRIORITY	RECOMMENDATIONS
Sharp Points, Corners and Edges			
• No sharp points, corners or edges on any component of playground equipment.			
Wood parts to be smooth and no splinters.			
• All corners, metal and wood, should be rounded. Minimum curvature of 1/4 inch for corners and edges of suspended assemblies.			
• Exit end and sides along a slide bed should have special attention.			
• Exposed open ends of all tubing shall have caps or plugs that cannot be removed without tools.			
Projections			
<ul> <li>No projection allowed that is capable of entangling children's clothing or causing lacerations.</li> </ul>			
Special attention required at the top of slides to minimize clothing entanglement.			
<ul> <li>All projections are to be tested in accordance with test procedures. No projection should extend beyond the face of the gauge.</li> </ul>			
Inaccessible projections exempted.			
• Exposed bolt ends should not protrude more than two threads beyond face of the nut, must be free of burrs and sharp edges.			
<ul> <li>No projection shall increase in size or diameter from initial surface to outer end even though it fits within gauges.</li> </ul>			
• A projection that extends upward from a horizontal plane is an entanglement hazard.			
Crush and Shearing Points			
There are no accessible crush or shearing points on playground equipment.			
<ul> <li>To determine if there is a possible crush or shear point, consider the likelihood of entrapping a body part.</li> </ul>			
• Must not entrap a 5/8 inch diameter rod. Opening less than 1 inch acceptable if probe cannot touch any crush or shear point.			
• Exemptions: Chain and its method of attachment; attachment area of coil springs to body and base of rocking equipment.			

# **GENERAL HAZARDS** continued

	CONDITION	PRIORITY	RECOMMENDATIONS
Tripping Hazards			
<ul> <li>All anchoring devices such as footings and horizontal bars at the bottom of flexible climbers, to be installed below playing surface.</li> </ul>			
<ul> <li>Special attention to be given to environmental obstacles such as rocks, roots and other projections from the ground.</li> </ul>			
• Support posts for balance beams shall not pose a tripping hazard.			
<ul> <li>Retaining walls should be highly visible; change of elevation should be obvious. Bright colors add to visibility.</li> </ul>			
Head and Torso Entrapment			
<ul> <li>A component or group of components should not form openings that could trap a child's head or torso.</li> </ul>			
• For all completely bound openings, if the small torso probe can be inserted into the opening to a depth greater than 4 inches, then the large head probe must also pass through the opening, or you have head entrapment. (area to be tested-use probes)			
• The above opening requirement applies to all openings if it penetrates 4 inches regardless of their height above the ground, except where the ground serves as the opening's lower boundary. • Non-rigid openings considered accessible if torso probe penetrates to a depth of 4 inches with a force of 50 lbs.			
Angles			
<ul> <li>The angle of a vertex formed by adjacent components is not to be less than 55 degrees, unless the lower leg is horizontal or projects downwards.</li> </ul>			
• Exception can be made if a rigid shield is attached to the vertex between adjacent components and the shield is sized to prevent a 9 inch diameter probe from simultaneously touching components on either side of the vertex.			
Accessible completely bounded openings shall meet requirements for angles.			
Use ASTMI test for partially bounded openings.			
Suspended Hazards			
<ul> <li>Cables, wires, ropes or similar flexible components suspended between play units or from the ground to a play unit within 45 degrees of horizontal to be located outside of high traffic areas.</li> </ul>			
• Suspended members to be brightly colored or contrast with surrounding equipment.			
• Suspended members located 7 feet or more above the playground surface are exempt.			
<ul> <li>Non-rigid components must be a minimum of 1 inch at the widest cross-section dimensions.</li> </ul>			
• Rope, cable or chain shall be fixed at both ends unless 7 inches or less in length.			
• Elements cannot be looped on itself creating inside perimeter greater than 5 inches.			
• Exemptions: Multiple suspended components at two or more locations can be located below 7 feet when they comply with all other requirements and cannot be looped or stretched to contact another suspended element.			
COMMENTE:			
COMMENTS:	ACTION TAKEN:		
	DATE:		
	ВҮ:		
	SUPERVISOR:		

# STAIRWAYS AND LADDERS

Playground:			Materials:		
Location:		:	Surface:		
Inspected by:			Ages of intended Users:		
Location:			Weather:		
Height:		I	Date of Audit:		
2 Serious or non-dis	ermanent disability abling injury y not have caused injury but d	loes not meet A	STMI F1487 or CPSC Ha	andbook for Pu	blic Playground Safety
STAIRWAYS AND LADDERS Rung Ladder Step Ladder	<ul> <li>Stairway</li> <li>Ramps (Not for Disabled)</li> </ul>				
			CONDITION	PRIORITY	RECOMMENDATIONS
<ul><li>Stability</li><li>Footings are stable and bu</li></ul>	ried below ground level or covered by pro	otective surfacing.			

• No corrosion or visible rotting.

#### Design

•	Steps or rungs to be evenly spaced, including the space between the step or rung and the surface of the platform.	
•	Openings between steps or rungs and the underside of the platform should not present an entrapment hazard.	

٠	When risers are closed, treads of stairways and step ladders are to prevent the
	accumulation of water and debris.

• Access for rung ladders, flexible climbing devices, arch climbers, and stepping surface for final access shall not be above designated play surface it serves.

#### Rungs and Handgripping Components

• Rungs to be diameter between .95 and 1.55 inches.

Handrails		
<ul> <li>Handrails on stairways and stepladders with more than one tread to be continuous; extending the full length of the access and provided on both sides.</li> <li>Handrails required regardless of the height of the access.</li> </ul>		

# STAIRWAYS AND LADDERS continued

	CONDITION	PRIORITY	RECOMMENDATIONS
Slope Requirements			
• Rung Ladder: Slope (75-90 degrees)			
See attached ladder chart for tread width, tread depth and vertical rise.			
• Step Ladder: Slope (50-75 degrees)			
See attached ladder chart for tread width, tread depth and vertical rise.			
• <b>Stairway</b> : Slope (less than 50 degrees) See attached ladder chart for tread width, tread depth and vertical rise.			
Handrail Height			
• The vertical distance between the top front edge of a step and the top surface of the handrail should be no less than 22 inches and no more than 38 inches.			
Handrail diameter should be between .95 and 1.55 inches.			
Any transition from an access to a platform must have handrails or hand holds.			
Sharp Points, Corners and Edges			
There are no sharp points, corners or edges. Wood to be smooth and no splinters.			
Destrucione			
There are no protrusions. Projections to be tested.			
Entrapment Angles			
<ul> <li>All angles to be greater than 55 degrees, unless lower leg is horizontal or projects downwards. (Use ASTMI test for Partial Boundaries.)</li> </ul>			
Entrapment – Head and Body			
• For all completely bound openings, if the small torso probe can be inserted into the opening to a depth greater than 4 inches, then the large head probe must also pass through the opening, or you have head entrapment. (area to be tested-use probes)			
Openings to be tested.			
Hardware			
All fasteners to be tight.			
Fasteners, connecting or covering devices not removable without use of tools.			
Surfacing			
Adequate drainage provided.			
<ul> <li>Depth of surfacing material agrees with critical height of equipment. (Use CPSC Chart or matting manufacturer's information.)</li> </ul>			
Use Zone			
• Six feet in all directions from perimeter of equipment, except at slide exits and under swings.			

### - Table 1: Stairways, Ladders & Ramps

## STAIRWAYS AND LADDERS continued

	CONDITION	PRIORITY	RECOMMENDATIONS
Spiral Stairway			
Shall meet all general requirements for access.			
• Depth of tread outer edge should be greater than 7 inches for 2-5 years and greater than 8 inches for 5-12 years; both open and closed risers.			
• Where design does not allow handrails on both sides of stairway, continuous handrail to be provided along outside perimeter of steps.			
COMMENTS:	ACTION TAKEN:	·	
	DATE:		
	SUPERVISOR:		

# TABLE 1

### RUNG LADDERS, STEPLADDERS, STAIRWAYS, AND RAMPS (ACCESS SLOPE; TREAD, RUNG AND RAMP WIDTH; TREAD DEPTH; RND DIAMETER; AND VERTICAL RISE, BY AGE OF INTENDED USER)

#### AGE OF INTENDED USER, YEARS

		,,	
TYPE OF ACCESS	2-5	5-12	2-12
Rung Ladders:*			
• Slope	75 to 90°	75 to 90°	75 to 90°
Total ladder width**	≥12 in. (300 mm)	≥16 in. (400 mm)	≥16 in. (400 mm)
• Vertical rise (top of rung to top of rung)	≤12 in.*** (300 mm)	≤12 in. *** (300 mm)	≤12 in. *** (300 mm)
Rung diameter	0.95 to 1.55 in. (24-39 mm)	0.95 to 1.55 in. (24-39 mm)	0.95 to 1.55 in. (24-39 mm)
Stepladders:			
• Slope	50 to 75°	50 to 75°	50 to 75°
• Tread width: Single file access Two-abreast access	12 to 21 in. (300 to 530 mm) *	≥16 in. (400 mm) ≥36 in. (910 mm)	16 to 21 in. (300 to 530 mm) *
Tread depth: Open riser Closed riser	≥7 in. (180 mm) ≥7 in. (180 mm) ≤9 in. *** (230 mm)	≥3 in. (76 mm) ≥6 in. (150 mm) ≤12 in. *** (300 mm)	≥7 in. (180 mm) ≥7 in. (180 mm) ≤9 in. *** (230 mm)
<ul> <li>Vertical rise (top of step to top of step)</li> </ul>	≤9 III. (250 IIIII)	$\leq$ 12 III. (300 IIIII)	$\leq 9$ III. (250 IIIIII)
Stairways:			
• Slope	<50°	<50°	< 50°
<ul> <li>Tread width: Single file access</li> <li>Two-abreast access</li> </ul>	≥12 in. (300 mm) ≥30 in. (760 mm)	≥16 in. (400 mm) ≥36 in. (910 mm)	≥16 in. (400 mm) ≥36 in. (910 mm)
Tread depth:     Open riser	≥7 in. (180 mm) ≥7 in. (180 mm)	≥8 in. (200 mm) ≥8 in. (200 mm)	≥8 in. (200 mm) ≥8 in. (200 mm)
Closed riser	≤9 in. *** (230 mm)	≤12 in. *** (300 mm)	≤9 in. *** (230 mm)
Vertical rise (top of step to top of step)			
Ramps (doesn't address wheelchair use):			
<ul> <li>Slope (vertical/horizontal)</li> </ul>	≤1:8	≤1:8	≤1:8
• Width: Single file access Two-abreast access	≥12 in. (300 mm) ≥30 in. (760 mm)	≥16 in. (400 mm) ≥36 in. (910 mm)	≥16 in. (400 mm) ≥36 in. (910 mm)

\* Not recommended as sole access for preschoolers. \*\* Excluding side supports. \*\*\* Entrapment provisions apply.

Foot Note: Information reproduced from ASTMI F1487, Standard Consumer "Safety Performance Specification for Playground Equipment for Public Use."

## Forms: Platforms

## PLATFORMS

Playground:	Materials:
Location:	Surface:
	Ages of intended Users:
Location:	Weather:
Height:	Date of Audit:

### PRIORITY

1 Life threatening, permanent disability

2 Serious or non-disabling injury

😮 Slight injury or may not have caused injury but does not meet ASTMI F1487 or CPSC Handbook for Public Playground Safety

	CONDITION	PRIORITY	RECOMMENDATIONS
Design			
Platforms to be within +2 degrees of a horizontal plane.			
Openings provided to allow for drainage.			
Guardrail			
• Elevated surface (2-5 years old) more than 20 inches high to have guardrail.			
<ul> <li>Top surface of guardrail (2-5 years old) to be 29 inches high and bottom surface no more than 23 inches above platform.</li> </ul>			
• Elevated surface (5-12 years old) more than 30 inches high to have guardrail.			
• Top surface of guardrail (5-12 years old) to be 38 inches high and bottom surface no more than 28 inches above platform.			
Guardrails shall completely surround elevated surface except for necessary entrances and exits.			
• The maximum clear opening without a top horizontal guardrail shall be 15 inches (380mm). Stairs, ramps and upper body equipment exempted.			
Protective Barrier			
Elevated surface (2-5 years old) more than 30 inches high to have protective barrier.			
• Top surface of protective barrier (2-5 years old) to be 29 inches high and non- climbable.			
• Elevated surface (5-12 years old) more than 48 inches high to have protective barrier.			
• Top surface of protective barrier (5-12 years old) to be 38 inches high and non- climbable.			
• Protective barriers shall completely surround elevated surface except for necessary entrances and exits.			
• The maximum clear opening without a top horizontal guardrail shall be 15 inches (380mm). Stairs, ramps and upper body equipment exempted.			
Stepped Platforms			
<ul> <li>The maximum difference in height between stepped platforms should be: 2-5 years old: 12 inches/5-12 years old: 18 inches</li> </ul>			
• If the space exceeds 9 inches and the height of the lower platform exceeds 20 inches for 2-5 years old or 30 inches for 5-12 years old, infill to be used to reduce space to less than 3-1/2 inches.			

### - Forms: Platforms

PLATFORMS continued				
	CONDITION	PRIORITY	RECOMMENDATIONS	
Sharp Points, Corners and Edges				
• There are no sharp points, corners or edges. Wood to be smooth and no splinters.				
Protrusions				
• There are no protrusions. Projections to be tested.				
Entrapment Angles				
<ul> <li>All angles to be greater than 55 degrees, unless lower leg is horizontal or projects downwards.</li> </ul>				
Entrapment – Head and Body				
<ul> <li>For all completely bound openings, if the small torso probe can be inserted into the opening to a depth greater than 4 inches, then the large head probe must also pass through the opening, or you have head entrapment. (area to be tested-use probes)</li> </ul>				
Openings to be tested.				
Hardware				
All fasteners to be tight.				
Fasteners, connecting or covering devices not removable without use of tools.				
COMMENTS:				
ACTION TAKEN:				
DATE:				

BY: \_\_\_\_

SUPERVISOR:\_\_\_

### Forms: Slides

## **SLIDES**

Playground:	Materials:
Location:	Surface:
Inspected by:	Ages of intended Users:
Location:	Weather:
Height:	Date of Audit:

### PRIORITY

1 Life threatening, permanent disability

2 Serious or non-disabling injury

😮 Slight injury or may not have caused injury but does not meet ASTMI F1487 or CPSC Handbook for Public Playground Safety

#### SL

SLIDES					
Straight	Tube	Half-Tube			
Spiral	Embankment	Roller			
			CONDITION	PRIORITY	RECOMMENDATIONS
Layout					
• Metal slides are in	a shaded area.				
Located in uncong	ested area.				
Stability					
<ul> <li>Footings are stable</li> </ul>	and buried below ground level or covered	l by protective surfacing.			
Corrosion					
No corrosion or vis	sible rotting.				
Slide Access					
Rung Ladder: Slop See attached ladde	be (75-90 degrees) er chart for tread width, tread depth and v	ertical rise.			
Step Ladder: Slop See attached ladde	e (50-75 degrees) er chart for tread width, tread depth and v	ertical rise.			
Stairway: Slope (le See attached ladde	ess than 50 degrees) er chart for tread width, tread depth and v	ertical rise.			
Ladder rung diame	eter: .95-1.55 inches				
• Handrail diameter:	.95-1.55 inches				
Continuous handra	ils provided with handrail height between	22 inches and 38 inches.			
Slide Platform					
Minimum length of	14 inches				
Width equal or greater	ater than width of slide.				
• Guardrails or prote	ctive barriers to surround platform.				
No spaces or gaps	between platform and start of sliding sur	face.			
Handholds provide	d at slide entrance.				
Means provided to	channel user into sitting position (guardra	ail or hood that does not			

encourage climbing).

## – Forms: Slides 🔴

SLIDES	continued
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	CONDITION	PRIORITY	RECOMMENDATIONS
Sliding Surface			
Average incline of no more than 30 degrees.			
• Flat open chutes to have minimum side height of 4 inches extending full length of slide.			
Sides to be an integral part of chute without gaps between side and sliding surface.			
Clear area 21 inches wide, for entire length of slide, on either side of slide.			
Exit Region			
All slides to have an exit region.			
11 inches minimum exit region length.			
<ul> <li>Slides no more than 4 feet high to have an exit region height of 11 inches.</li> </ul>			
• Slides over 4 feet high to have an exit region between 7 inches and 15 inches above protective surface.			
Slide exit edges to be rounded or curved.			
Radius of exit region curvature shall be 30 inches or greater.			
Embankment Slide			
Same as straight slide (where applicable).			
Means provided to prevent use of skateboards and bicycles.			
Spiral Slides			
Same as straight slides.			
<ul> <li>Only short spiral slides for 2-5 year old children.</li> </ul>			
• Clear area, 21 inches wide, for entire length of slide, from inside face of sidewall to outer edge of slide.			
Tuka Olidaa			
Tube Slides			
Same as straight slides.			
<ul> <li>Min. internal diameter not less than 23 inches.</li> <li>Top surface of tube to have tortured surface to provent eliding on top of tube.</li> </ul>			
<ul><li>Top surface of tube to have textured surface to prevent sliding on top of tube.</li><li>Consideration should be given to extra supervision on playgrounds having tube slides or</li></ul>			
to have transparent tube sections for observation and supervision.			
Roller Slides			
Meet all general slide requirements.			
<ul> <li>No crush, shear, entrapment, entanglement or catch points. Must not admit 3/16 inch diameter neoprene rod.</li> </ul>			
No missing rollers or broken bearings.			
Guardrail			
<ul> <li>Elevated surface (2-5 years old) more than 20 inches high to have guardrail.</li> </ul>			
• Top surface of guardrail (2-5 years old) to be 29 inches high and bottom surface no more than 23 inches above platform.			
Elevated surface (5-12 years old) more than 30 inches high to have guardrail.			
• Top surface of guardrail (5-12 years old) to be 38 inches high and bottom surface no more than 28 inches above platform.			

SLIDES continued				
	CONDITION	PRIORITY	RECOMMENDATIONS	
Protective Barrier				
• Elevated surface (2-5 years old) more than 30 inches high to have protective barrier.				
<ul> <li>Top surface of protective barrier (2-5 years old) to be 29 inches high and non- climbable.</li> </ul>				
• Elevated surface (5-12 years old) more than 48 inches high to have protective barrier.				
<ul> <li>Top surface of protective barrier (5-12 years old) to be 38 inches high and non- climbable.</li> </ul>				
Sharp Points, Corners and Edges				
• There are no sharp points, corners or edges. Wood to be smooth and no splinters.				
Protrusions				
There are no protrusions. Protrusions to be tested.				
Entrapment Angles				
<ul> <li>All angles to be greater than 55 degrees, unless lower leg is horizontal or projects downwards. (Use partially bounded test.)</li> </ul>				
Entrapment – Head and Body				
<ul> <li>For all completely bound openings, if the small torso probe can be inserted into the opening to a depth greater than 4 inches, then the large head probe must also pass through the opening, or you have head entrapment. (area to be tested-use probes)</li> </ul>				
Openings to be tested.				
Hardware				
All fasteners to be tight.				
Fasteners, connecting or covering devices not removable without use of tools.				
Surfacing				
Adequate drainage provided.				
<ul> <li>Depth of surfacing material agrees with critical height of equipment. (Use CPSC Chart or matting manufacturer's information.)</li> </ul>				
Use Zone				
<ul> <li>6 feet in all directions from perimeter of equipment. Exit region requires special attention.</li> </ul>				
• Use zone at the exit of the slide to extend a minimum of 6 feet from the end of the slide to a maximum of 8 feet from the exit end of the slide.				

COMMENTS:	
ACTION TAKEN:	
DATE:	
BY:	
SUPERVISOR:	

## – Forms: Swings 🔵

## SWINGS

Playground:	Materials:			
Location:	Surface:			
Inspected by:	Ages of intended Users:			
Location:	Weather:			
Height:	Date of Audit:			
PRIORITY				
<ol> <li>Life threatening, permanent disability</li> </ol>				
2 Serious or non-disabling injury				
Slight injury or may not have caused injury but does not meet	ASTMI F1487 or CPSC H	landbook for P	ublic Playground Safety	
SWINGS         Single-Axis Swing       Multi-Occupancy         Multi-Axis Swing       Rope Swing         Tot Swing	g Exercise Rings/Trapeze Bar			
	CONDITION	PRIORITY	RECOMMENDATIONS	
Location				
Swings to be located away from other equipment and activities.				
Stability				
• Footings stable and buried below ground level or covered by protective surfacing.				
Corrosion and Wear				
• No rotting, corrosion or visible wear on chain and S-hooks.				
Structure Design				
Single axis swings to have no more than two swings per bay.				
Single axis swings not to be attached to composite structure.				
A-frame support structures not to have horizontal cross bars.				
<ul> <li>Tot swing to be suspended from structures separate from other swings or suspended in a different bay of the same structure.</li> </ul>				
Seat Design and Placement				
Seats designed for only one user at a time.				
Wood or metal seats not to be used.				
• Tot seats to have support on all sides and not present a strangulation hazard.				
Swing hangers spaced wider than seats, not less than 20 inches.				
24 inches minimum clearance between seats.				
<ul> <li>30 inches minimum clearance between seat and structure, measured 5 feet above protective surface.</li> </ul>				
All S-hooks to be closed completely.				
Clearances				
Vertical distance at least 12 inches between underside of occupied seat and protective				

surface.

# SWINGS continued

Multi-Axis Tire Swings         • Tire swings not suspended from a structure having other swings in the same bay.         • Steel-belted radials to be closely examined to insure no exposed steel betts.         • Drain holes to be provided.         • No heavy truck files, plastic may be used.         • Due to added stress of rotation, inspect all hanger mechanisms for wear.         • No accessible crush points.         • All S-hooks to be alcosed completely04 inches.         • Only one rotating swing in each bay. No limit on number of bays.         • Tire swings not to be attached to composite structure.         • May accommodate more than one user. Weight no more than 35 lbs.         Swings for Pre-School Children         • Pivot points no greater than 95 inches above protective surfacing.         Minimum Clearance         • Ther minimum clearance between the seating surface of tire and the uprights of supporting structure to be 30 inches when tire is in a position closest to support structure.         Swings Not Recommended for Public Playground         • Multiple occupancy swing (tire swings are the exception).         • Animal figure swing.         • Free swinging rope swings.         • Swinging exercise rings and trapeze bars. (This does not apply to overhead rings.)         Sharp Points, Corners and Edges         • There are no sharp points, corners or edges. Wood to be smooth and no splinters.         Protrusion	PRIORITY	RECOMMENDATIONS
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Hangers shall have bearings, bushings or other means of reducing friction and wear.  Surfacing		
<ul> <li>Depth of surfacing material agrees with critical height of equipment. (Use CPSC Chart or matting manufacturer's information.)</li> </ul>		

### —— Forms: Swings 🔵

## SWINGS continued

CONDITION	PRIORITY	RECOMMENDATIONS
	CONDITION	CONDITION PRIORITY

COMMENTS:

ACTION TAKEN:
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DATE:	
BY:	
SUPERVISOR:	

# **CLIMBING & UPPER BODY EQUIPMENT**

Playground:			Materials:			
			Surface: Ages of intended Users:			
Height:			Date of Audit:			
DDIODITY						
<b>PRIORITY</b> <ol> <li>Life threatening, </li> </ol>	permanent disability					
2 Serious or non-di	sabling injury					
	ay not have caused injury	but does not meet A	ASTMI F1487 or CPSC H	landbook for Pu	blic Playground Safety	
CLIMBING & UPPER BODY E Arch Climbers Horizontal Ladders	EQUIPMENT Sliding Poles Balance Beams	<ul><li>Track Rides</li><li>Roofs</li></ul>	Other			
			CONDITION	PRIORITY	RECOMMENDATIONS	
Stability						
Footings are stable and bu	uried below ground level or covered	by protective surfacing.				
Corrosion						
No corrosion or visible rot	tting.					
Design						
	bing bars or rigid structural compo ild may fall more than 18 inches.	nents in the interior of the				
Climbing devices intended	d for 2-5 year olds to offer an easy	way out.				
	hould not be used as sole access to	1				
<ul> <li>Designated play surfaces</li> <li>2-5 year olds: 60 inches</li> <li>5-12 year olds: 84 inches</li> </ul>		imited to:				
Climbers With Non-Rigid Co	omponents					
<ul> <li>Connections between rop fixed.</li> </ul>	es, cables, or chains within the clin	nbing grid to be securely				
<ul> <li>Spacing between the horiz criteria.</li> </ul>	zontal and vertical climbing grid to	satisfy all entrapment				
<ul> <li>Flexible grid climbing devi children ages 2-5 years o</li> </ul>	ices not recommended as sole acc f age.	ess to equipment for				
Flexible climbing devices	to be securely anchored at both en	ds.				
	to be below the level of playing sur					
<ul> <li>For pre-school, users sho ascending to next level.</li> </ul>	uld be able to bring both feet to the	same level before				

### – Forms: Climbing & Upper Body Equipment 🔴

CONDITION       PRIORITY       RECOMMENDATIONS         Arthouses       - First-standing or Contracts on traccommended for 2-5 year olds.       - First-standing or Contracts on traccommended for 2-5 year olds.       - First-standing or Contracts on traccommended for ung ladders (or on the 2 - 0.000 or OSMM).       - Social point on the contract of the sole means of access to equipment.	CLIMBING & UPPER BOD		NT continu	ied
Free-standing ach dimbers not recommended for 2-5 year adds.     Hand to foot rung diameter to be between. 35 – 1.3 5 Inchus.     Spacing Outrong on the limbers to be wrecommendations for rung liadors (see links 2 – 0-FSG or ASTM).     Acht chindres sould and be the olds meaner of access to oquipment.     Acht hidden as access shall have means of hand support while diriching.     Horizontal Liador and Overhead Ring     O To be used only by 4-12 year olds (CPSC).     Spacing between adjacent support of the optimater of access to oquipment.     Acht chindres in the scalar direction and on the product filter 9 inchus.     Outro-14-2 year olds (CPSC).     Spacing between adjacent rungs of voetbaard liadors to be grader filter 9 inchus.     Outro-14-2 year olds (CPSC).     The first handhold on to place directly above the platform or climbing rungs.     Horizontal distance for the scalar direction of access to access and agrees are rungs. Inchronal distance to first handhold on grader than 10 inches.     Where access and agrees are rungs. Inchronal distance to first handhold on grader than 10 inches.     Where access and agrees are rungs. Inchronal distance to first handhold on grader than 10 inches.     Where access and agrees are rungs. Inchronal distance to first handhold on grader than 10 inches.     Where access and agrees are rungs. Inchronal distance to first handhold on grader than 10 inches.     Where access and agrees are rungs. Inchronal distance to first handhold on grader than 10 inches.     Where access and agrees are rungs. Inchronal distance to first handhold on grader than 20 inches.     Siding pole to the chartes and on one thand 20 inches.     Siding pole to the chart at least 40 inches adove engenter than 10 inches.     Siding pole to thand a to first est duration ado a factores 20 inches     Siding pole to thand a to first est duration and 20 inches.     Siding pole to thand a to first est duration ado a factores     Siding pole to thand a to finches 40 to pole thands.     Siding pole to th		CONDITION	PRIORITY	RECOMMENDATIONS
Hand or fund rung diameter to be between .95 – 1.55 inches.     Specing of rungs on ach climbers to follow recommendations for rung ladders (see halfs 2 – 0.956 control and were lease to be uppertend.     Specing between the horizontal and were lease to be uppertend.     Arch climbers as access to all hand support while climbing.     Arch climbers as access to that support while climbing.     Horizontal Ladder and Overhead Ring     To be used only by 4-12 year obles (DSC), 2-12 years (ASTM).     Specing between the horizontal access to pupper the climbing.     Horizontal Ladder and Overhead Rings     To be used only by 4-12 year obles (DSC), 2-12 years (ASTM).     Specing between the postcoreal access to be poster than 9 montes.     Genter-do-center spacing of overhead rungs rol to exceed 15 inches (Bits does not apply b) the specing of overhead rungs rol to exceed 15 inches (Bits does not apply b) the specing of overhead rungs.     Horizontal Ladder to paced directly above the platform or climbing rungs.     Horizontal distance to prove the platform or climbing rungs.     Horizontal distance to prove the platform or climbing rungs.     Horizontal distance to prove the platform or climbing rungs.     Horizontal distance to prove the platform or climbing rungs.     Horizontal distance to prove the platform or climbing rungs.     Horizontal distance to prove the platform or climbing rungs.     Horizontal distance to prove the platform or climbing rungs.     Horizontal distance to platform or climbing rungs rungs.     Horizontal distance to platform or climbing rungs rungs.	Arch Climbers			
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Spacing drung on actic billiow recommendations for rung ladders (see in bits 2 - CPSC or XSTM). Spacing between the instructural and vertical components should satisfy all entragment critical. Arch binders as access stall have means of access to equipment. Arch binders as access stall have means of access to equipment. Arch binders as access stall have means of access to equipment. Arch binders as access stall have means of thand support while cliniblig. Horizontal Ladder and Overhead Rings Conter 40-12 year olds (CPSC), 212 years (ASTM). Space between adjacent rungs of to be grateer than 9 inclues. Conter 40-12 years old (CPSC), 212 years (ASTM). Space between adjacent rungs on to access 15 inclues (this does not apply to the square from lake-off land(bit) forst hand/did between 8 inclues and forebased. Macimum height 2-5 years old - 00 inclues/5-12 years old - 64 inclues Macimum height 10 laiding structure: 2-5 years old - 36 inclues dave protective surface Softing Poten United. Notic mountmethol for 2-5 year olds. (CPSC). Sifting poten to thore offer thand/did between 8 inclues and 10 inclues. Notic mountmethol for 2-5 years old - 60 inclues/6-12 years old - 64 inclues Macimum height 01 laiding structure: 2-5 years old - 36 inclues dave protective surface Softing opten to the continuous with no protructing wells or sears atong sliding surface. Sifting poten to theore discultation (Besliding potic). Horizontal distance between adjudg poles and the edge of the platform or other structure used to access to be to not share 10 inclues and no more than 20 inclus. Upper access to be on teaget than 1.9 incluses. Upper access to be on teaget to ally and one than 20 incluse. Working Ausgenedic disting pote match be caused of a fonting. Clinibing composential batts of inclues and potential to theore allie of torming toops of more that shared incluss on				
Spacing between the horizontal and vertical components should satisfy all entragment Ach dimbers should not be the sole means of access to equipment. Ach dimbers abould not be the sole means of access to equipment. Ach dimbers abould not be the sole means of access to equipment. Ach dimbers abould not be the sole means of access to equipment. Ach dimbers abould not be the sole means of access to equipment. Ach dimbers abould not be the sole means of access to equipment. Space between adjacent rungs of to exceed 15 inches files does not apply to the spacing of overhead indiges. The first handhold not placed directly above the platform or elimbing rungs. Horizontal distance for that-of informing for shandhold between 8 inches and 10 inches. Maintum height 2-5 years oid - 00 inches/5-12 years oid - 84 inches Maintum height 2-5 years oid - 00 inches/5-12 years oid - 84 inches Maintum height 2-5 years oid - 00 inches/5-12 years oid - 84 inches Maintum height 2-5 years oid - 00 inches/5-12 years oid - 84 inches Maintum height 2-5 years oid - 00 inches/5-12 years oid - 84 inches Maintum height 2-5 years oid - 00 inches/5-12 years oid - 84 inches Maintum height 2-5 years oid - 00 inches/5-12 years oid - 84 inches Maintum height 2-5 years oid - 00 inches/5-12 years oid - 84 inches Maintum height 2-5 years oid - 00 inches/5-12 years oid - 84 inches Maintum height 2-5 years oid - 00 inches/5-12 years oid - 84 inches Maintum height 2-5 years oid - 15 inches and protion. Horizontal distance botween shall not protechine barriace Maintum height 2-5 years oid - 15 inches and patform one rune at 20 inches. Siding pole to the oragenetic mole and the platform or or the attruture used for access to pole form one height only. Maintum height 2-5 years oid - 12 inches/5-12 years oid - 16 inches Signopt to extend at last 60 linches and patform opening. Maintum height 2-5 years oid - 12 i				
<ul> <li>Arch ladders as access shall have means of hand support while climbing.</li> <li>Horizontal Ladder and Overhead Rings</li> <li>To be used only by 4-12 year did (CPSC), 2-12 years (ASTMI).</li> <li>Space between adjacent rungs of overhead rungs not to exceed 15 inches (this does not apply to the spacing of overhead rungs not to exceed 15 inches (this does not apply to the spacing of overhead rungs not to exceed 15 inches (this does not apply to the spacing of overhead rungs not to exceed 15 inches (this does not apply to the spacing of overhead rungs not to exceed 15 inches (this does not apply to the spacing of overhead rungs not to exceed 15 inches (this does not apply to the spacing of verhead rungs not to exceed 15 inches (this does not apply to the spacing of verhead rungs not to exceed 15 inches (this does not apply to the spacing structure: Low days set rungs).</li> <li>Horizontal distance from take-off landing to first handhold no geater than 10 inches.</li> <li>Madimum height of landing structure: Low days of the platform or climbing rungs.</li> <li>Not recommended for 2-5 years old – 60 inches/5-12 years old – 84 inches</li> <li>Magimum height of landing structure: Low days of the platform or other structure used for access to be no test than to hold on the platform or other structure used for access to be no test than to hold not no met than 20 inches.</li> <li>Sliding pole to the charing discuss the securely anchored to a follong.</li> <li>Climbing forger</li> <li>Vertically suspended climbing ropes must be securely anchored to a toping.</li> <li>Climbing ropes secured tabe due structure shares and in one than 20 inches.</li> <li>Sliding pole to the adding pole to be applied to platform opening.</li> <li>Climbing ropes secured tabe and the capable of forming loops of more than 10 inches.</li> <li>Sliding poles to base natil not pose at tripping hazard.</li> <li>Sloding contain the designabed to be applied to seares along sliding</li></ul>	• Spacing between the horizontal and vertical components should satisfy all entrapment			
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Horizontal Ladder and Overhead Rings           • To be used only by 4-12 year olds (CPSD), 2-12 years (ASTMI),           • Space between adjacent rungs of overhead ladders to be greater than 9 inches.           • Centrefo-centre spacing of overhead rungs, not to exceed 15 inches (this does not apply to the spacing of overhead rungs).           • The first hardhold to placed directly above the platform or climbing rungs.           • Horizontal distance from take-off landing to first handhold no greater than 10 inches.           • Maximum height 2-5 years old – 60 inches/5-12 years old – 84 inches           • Maximum height 2-5 years old – 60 inches/5-12 years old – 84 inches           • Maximum height 2-5 years old – 60 inches/5-12 years old – 84 inches           • Maximum height 2-5 years old – 60 inches/5-12 years old – 84 inches           • Maximum height 2-5 years old – 60 inches/5-12 years old – 81 inches           • Sliding poles to be continuous with no portuding welds or seams along sliding surface.           • Sliding pole not be continuous with no portuding welds or seams along sliding surface.           • Sliding pole not be continuous with no portuding welds or seams along sliding surface.           • Sliding pole not be continuous with no portuding porton.           • Horizontal distance between sliding pole and the edge of the platform.           • The diameter of the sliding pole to be no greater than 1.9 inches.           • Upper access to pole from one height only.           • Maximum height 2-5 years old – 12 inc	<ul> <li>Arch ladders as access shall have means of hand support while climbing.</li> </ul>			
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<ul> <li>Space between adjacent rungs of overhead ladders to be greater than 9 inches.</li> <li>Genter-bo-center spacing of overhead rungs not to exceed 15 linches (this does not apply to the signific of overhead rungs).</li> <li>The first handhold not placed directly above the platform or climbing rungs.</li> <li>Horizontal distance from take-off landing to list handhold between 8 linches and 10 inches.</li> <li>Moximum height 2-5 years old – 60 inches/5-12 years old – 64 inches</li> <li>Moximum height 2-3 binches above protective surface</li> <li>Stiding Poles</li> <li>Note coordinated for 2-5 year olds (CPSC).</li> <li>Stiding poles to be continuous with no protrucing welds or searns along sliding surface.</li> <li>Sliding poles to be continuous with no protrucing welds or searns along sliding surface.</li> <li>Sliding pole to to change direction along the sliding portion.</li> <li>Horizontal distance between sliting pole and the edge of the platform or other structure used for access to be for one height only.</li> <li>Maximum horizontal distance between sliting pole to the ng greater than 1.9 inches.</li> <li>Upper access to pole from one height only.</li> <li>Maximum horizontal distance between sliting pole to the ng greater than 1.9 inches.</li> <li>Upper access to pole from one height only.</li> <li>Maximum horizontal distance between sliting pole to the ng greater than 1.9 inches.</li> <li>Upper access to pole from one height only.</li> <li>Maximum horizontal distance between sliting pole to the capse at tipping hazard.</li> <li>Support posts for balance beam shall not pose a tipping hazard.</li> <li>Support posts for balance beam shall not pose a tipping hazard.</li> <li>Support posts for balance beam shall not pose a tipping hazard.</li> <li>Support posts for balance beam shall not pose a tipping hazard.</li> <li>Support posts for balance beam shall not pose a tipping hazard.</li> <li>Support posts for</li></ul>	-			
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<ul> <li>Maximum height of landing structure: 2-5 years old - 18 inches above protective surface</li> <li>Sliding Poles</li> <li>Not recommended for 2-5 year olds (CPSC).</li> <li>Sliding pole to be continuous with no protuduing welds or seams along sliding surface.</li> <li>Sliding pole to be continuous with no protuduing welds or seams along sliding surface.</li> <li>Sliding pole to be continuous with no protuduing welds or seams along sliding surface.</li> <li>Sliding pole to be continuous with no protuduing welds or seams along sliding surface.</li> <li>Sliding pole to change direction along the sliding portion.</li> <li>Horizontal distance between sliding pole and the edge of the platform or other structure used for access to be no less than 18 inches and no more than 20 inches.</li> <li>Sliding pole to extend at least 60 inches above level of the platform.</li> <li>The diameter of the sliding pole to be no greater than 1.9 inches.</li> <li>Upper access to pole from one height only.</li> <li>Maximum horizontal dimension to 15 inches at platform opening.</li> <li>Climbing Ropes</li> <li>Vertically suspended climbing ropes must be securely anchored to a footing.</li> <li>Climbing ropes secured ab toh ends, shall not be capable of forming loops of more than 5 inches in diameter.</li> <li>Support posts for balance beam shall not pose a tripping hazard.</li> <li>Roofs</li> <li>Should contain no designated play surfaces.</li> <li>Should contain no designated play surfaces.</li> <li>Af above underlying play surface.</li> <li>Not recommended for children under 5 years old.</li> <li>Lowest portion of hand-gripping component minimum 64 inches.</li> <li>Elevated landings minimum 36 inches long, 32 inches wide.</li> <li>Must not obstruct user in landing area.</li> </ul>	<ul> <li>Horizontal distance from take-off landing to first handhold no greater than 10 inches.</li> <li>Where access and egress are rungs, horizontal distance to first handhold between 8</li> </ul>			
2-5 years old - 48 inches above protective surface         Siding Poles         Siding poles         Not recommended for 2-5 year olds (CPSC).         Siding poles to be continuous with no protruding welds or seams along sliding surface.         Siding pole not to change direction along the sliding portion.         Horizontal distance between sliding pole and the edge of the platform or other structure used for access to be no less than 18 inches and no more than 20 inches.         Siding pole to extend at teast 60 inches above level of the platform.         The diameter of the sliding pole to be no greater than 1.9 inches.         Upper access to pole from one height only.         Vertically suspended climbing ropes must be securely anchored to a footing.         Climbing Ropes         Climbing ropes secured at both ends, shall not be capable of forming loops of more than 5 inches in diameter.         Balance Beams         • Maximum height: 2-5 years old - 12 inches/ 5-12 years old - 16 inches         • Support posts for balance beam shall not pose a tripping hazard.         Rots         • Should contain no designated play surfaces.         • 84' above underlying play surfaces.         • 84' above underlying play surfaces.         • Rot Rotter         • Not recommended for children under 5 years old.         • Lowvest portion of hand-gripping componet minimium 64 inches.         • Elevated lan	<ul> <li>Maximum height: 2-5 years old – 60 inches/5-12 years old – 84 inches</li> </ul>			
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<ul> <li>The diameter of the sliding pole to be no greater than 1.9 inches.</li> <li>Upper access to pole from one height only.</li> <li>Maximum horizontal dimension to 15 inches at platform opening.</li> <li>Climbing Ropes</li> <li>Vertically suspended climbing ropes must be securely anchored to a footing.</li> <li>Climbing ropes secured at both ends, shall not be capable of forming loops of more than 5 inches in diameter.</li> <li>Balance Beams</li> <li>Maximum height: 2-5 years old - 12 inches/ 5-12 years old - 16 inches</li> <li>Support posts for balance beam shall not pose a tripping hazard.</li> <li>Roots</li> <li>Should contain no designated play surfaces.</li> <li>84' above underlying play surface.</li> <li>Track Rides</li> <li>Not recommended for children under 5 years old.</li> <li>Lowest portion of hand-gripping component minimum 64 inches.</li> <li>Elevated landings minimum 36 inches long, 32 inches wide.</li> <li>Must not obstruct user in landing area.</li> </ul>				
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<ul> <li>Maximum horizontal dimension to 15 inches at platform opening.</li> <li>Climbing Ropes         <ul> <li>Vertically suspended climbing ropes must be securely anchored to a footing.</li> <li>Climbing ropes secured at both ends, shall not be capable of forming loops of more than 5 inches in diameter.</li> </ul> </li> <li>Balance Beams         <ul> <li>Maximum height: 2-5 years old – 12 inches/ 5-12 years old – 16 inches</li> <li>Support posts for balance beam shall not pose a tripping hazard.</li> </ul> </li> <li>Roots         <ul> <li>Should contain no designated play surfaces.</li> <li>84' above underlying play surface.</li> <li>Tack Rides             <ul> <li>Not recommended for children under 5 years old.</li> <li>Lowest portion of hand-gripping component minimum 64 inches.</li> <li>Elevated landings minimum 36 inches long, 32 inches wide.</li> <li>Must not obstruct user in landing area.</li> </ul> </li> </ul></li></ul>	The diameter of the sliding pole to be no greater than 1.9 inches.			
Climbing Ropes       • Vertically suspended climbing ropes must be securely anchored to a footing.       • Climbing ropes secured at both ends, shall not be capable of forming loops of more than 5 inches in diameter.       • Climbing ropes secured at both ends, shall not be capable of forming loops of more than 5 inches in diameter.       • Balance Beams       • Climbing ropes are used both ends, shall not be capable of forming loops of more than 5 inches in diameter.       • Climbing ropes secured at both ends, shall not be capable of forming loops of more than 5 inches in diameter.       • Climbing ropes are used both ends, shall not be capable of forming loops of more than 5 inches in diameter.       • Climbing ropes are used both ends, shall not be capable of forming loops of more than 5 inches in diameter.       • Climbing ropes are used both ends, shall not be capable of forming loops of more than 5 inches in diameter.         Balance Beams       • Maximum height: 2-5 years old – 12 inches/ 5-12 years old – 16 inches       • Climbing ropes at ripping hazard.         Roofs       • Should contain no designated play surfaces.       • Climbing ropes at ripping hazard.       • Climbing ropes at ripping hazard.         Not recommended for children under 5 years old.       • Not recommended for children under 5 years old.       • Climbing ropes are used.       • Climbing ropes are used.         • Not recommended for children under 5 years old.       • Lowest portion of hand-gripping component minimum 64 inches.       • Climbing area.       • Climbing area.         • Must not obstruct user in landing area.       • Must not obstruct user in landing area.       •	Upper access to pole from one height only.			
<ul> <li>Vertically suspended climbing ropes must be securely anchored to a footing.</li> <li>Climbing ropes secured at both ends, shall not be capable of forming loops of more than 5 inches in diameter.</li> <li>Balance Beams         <ul> <li>Maximum height: 2-5 years old – 12 inches/ 5-12 years old – 16 inches</li> <li>Support posts for balance beam shall not pose a tripping hazard.</li> </ul> </li> <li>Roots         <ul> <li>Should contain no designated play surfaces.</li> <li>84' above underlying play surface.</li> <li>Track Rides             <ul> <li>Not recommended for children under 5 years old.</li> <li>Lowest portion of hand-gripping component minimum 64 inches.</li> <li>Elevated landings minimum 36 inches long, 32 inches wide.</li> <li>Must not obstruct user in landing area.</li> </ul> </li> </ul></li></ul>	Maximum horizontal dimension to 15 inches at platform opening.			
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than 5 inches in diameter.Image: Constraint of the series of	<ul> <li>Vertically suspended climbing ropes must be securely anchored to a footing.</li> </ul>			
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Roofs       Image: Contain no designated play surfaces.         • Should contain no designated play surfaces.       Image: Contain no designated play surface.         Track Rides       Image: Contain no designated play surface.         • Not recommended for children under 5 years old.       Image: Contain no designated play surface.         • Lowest portion of hand-gripping component minimum 64 inches.       Image: Contain no designated play surface.         • Elevated landings minimum 36 inches long, 32 inches wide.       Image: Contain no designated play surface.         • Must not obstruct user in landing area.       Image: Contain no designated play surface.	<ul> <li>Maximum height: 2-5 years old – 12 inches/ 5-12 years old – 16 inches</li> </ul>			
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Track Rides         • Not recommended for children under 5 years old.         • Lowest portion of hand-gripping component minimum 64 inches.         • Elevated landings minimum 36 inches long, 32 inches wide.         • Must not obstruct user in landing area.				
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<ul> <li>Elevated landings minimum 36 inches long, 32 inches wide.</li> <li>Must not obstruct user in landing area.</li> </ul>	-			
Must not obstruct user in landing area.				
	<ul> <li>Center to center distance between adjacent tracks 48 inches or more.</li> </ul>			

## CLIMBING & UPPER BODY EQUIPMENT continued

	CONDITION	PRIORITY	RECOMMENDATIONS
Sharp Points, Corners and Edges			
• There are no sharp points, corners or edges. Wood to be smooth and no splinters.			
Protrusions			
There are no protrusions. Projections to be tested.			
Entrapment Angles			
<ul> <li>All angles to be greater than 55 degrees, unless lower leg is horizontal or projects downwards. Test for partially bounded openings.</li> </ul>			
Entrapment – Head and Body			
<ul> <li>For all completely bound openings, if the small torso probe can be inserted into the opening to a depth greater than 4 inches, then the large head probe must also pass through the opening, or you have head entrapment. (area to be tested-use probes)</li> <li>Opening to be tested.</li> </ul>			
Hardware			
All fasteners to be tight.			
• Fasteners, connecting or covering devices not removable without use of tools.			
Surfacing			
Adequate drainage provided.			
<ul> <li>Depth of surfacing material agrees with critical height of equipment. (Use CPSC Chart or matting manufacturer's information.)</li> </ul>			
Use Zone			
Six feet in all directions from perimeter of equipment.			

COMMENTS:	
ACTION TAKEN:	
DATE:	
BY:	
SUPERVISOR:	
	-

### – Forms: Rotating & Rocking Equipment 🔴

## **ROTATING AND ROCKING EQUIPMENT**

	<b>NOTATIN</b>				
Playground:			Materials:		
Location:			Surface:		
Inspected by:			Ages of intended Users:		
Location:			Weather:		
Height:			Data of Auditu		
neigiit					
PRIORITY					
Life threatening	permanent disability				
Serious or non-o	disabling injury				
Slight injury or n	nay not have caused injury	but does not meet A	STMI F1487 or CPSC H	landbook for Pub	lic Playground Safety
ROTATING AND ROCKING ED	QUIPMENT				
Merry-Go-Rounds	Spring Rockers	Log Rolls			
Seesaws	Trampolines	Others			
			CONDITION	PRIORITY	RECOMMENDATIONS
Stability					
• Footings are stable and I	buried below ground level or covered	by protective surfacing.			
Corrosion					
• No corrosion or visible r	otting.				
Merry-go-rounds					
	be continuous and approximately circ	cular.			
• The difference between to exceed 2.0 inches.	the minimum and maximum radii of a	noncircular platform not			
<ul> <li>No component of the ap perimeter of the platform</li> </ul>	paratus, including the handgrips, sho 1.	uld extend beyond the			
Children to be provided	with handgrips with a diameter betwe	en .95 and 1.55 inches.			
-	or crushing mechanisms in the under	-			
	rm to be continuous with no opening a 5/16 inch diameter rod to pass thro				
• A means to limit the peri	pheral speed of rotation to a maximu	m of 13 feet per second.			
• No oscillatory (up and d	own) motion.				
	orm – 14 inches above protective su face). Platforms less than 20 inches				
Handgrips shall be provi	ded or platform should be tub or dish	ılike.			
Log Rolls					
<ul> <li>Require hand-gripping c</li> </ul>	omponents.				
Not recommended for cl					
	nts between .95-1.55 inches.				

• Highest point of roller logs no more than 18 inches above surface.

## **ROTATING AND ROCKING EQUIPMENT** *continued*

	CONDITION	PRIORITY	RECOMMENDATIONS
Seesaws			
<ul> <li>Not recommended for 2-5 year old children unless they are equipped with a spring centering device.</li> </ul>			
<ul> <li>Partial car tires or some other shock absorbing material to be embedded in the ground underneath the seats of fulcrum seesaws, or secured on the underside of the seats.</li> </ul>			
<ul> <li>Handholds to be provided at each seating position for gripping with both hands and should not turn when grasped.</li> </ul>			
• Handgrips for two hands minimum length of 6 inches, should not protrude beyond seat sides.			
<ul> <li>Diameter of handgrips to be between .95 – 1.55 inches.</li> </ul>			
Handholds are not to protrude beyond the side of the seat.			
<ul> <li>Footrests are not to be provided on fulcrum seesaws unless they are equipped with a spring centering device.</li> </ul>			
<ul> <li>Maximum attainable seat height – 5 feet above the surface.</li> </ul>			
Fulcrum should not present a crush hazard.			
Spring Rocking Equipment			
<ul> <li>Seat design to minimize the likelihood of the rocker being used by more than the intended number of users.</li> </ul>			
Each seating position to be equipped with handgrips and footrests.			
• Diameter of handgrips to be between .95 – 1.55 inches.			
<ul> <li>The spring should not crush children's hands or feet between coils or between the spring and any part of the rocker.</li> </ul>			
<ul> <li>Handgrips for one hand – minimum length – 3 inches.</li> <li>Handgrips for two hands – minimum length – 6 inches.</li> <li>Footrests – minimum width of 3.5 inches.</li> </ul>			
• Installed height of seat (unloaded and at rest) not less than 14 inches nor more than 28 inches above platform surface.			
Trampolines			
Not recommended for use on public playgrounds.			
Sharp Points, Corners and Edges			
• There are no sharp points, corners or edges. Wood to be smooth and no splinters.			
Protrusions			
• There are no protrusions. Projections to be tested.			
Entrapment Angles			
<ul> <li>All angles to be greater than 55 degrees, unless lower leg is horizontal or projects downwards.</li> </ul>			
Entrapment – Head and Body			
<ul> <li>For all completely bound openings, if the small torso probe can be inserted into the opening to a depth greater than 4 inches, then the large head probe must also pass through the opening, or you have head entrapment. (area to be tested-use probes)</li> </ul>			
Openings to be tested.			
Hardware			
All fasteners to be tight.			
• Fasteners, connecting or covering devices not removable without use of tools.			

## **ROTATING AND ROCKING EQUIPMENT** *continued*

RECOMMENDATIONS

8	urfacing		
•	Adequate drainage provided.		
•	Depth of surfacing material agrees with critical height of equipment. (Use CPSC Chart or matting manufacturer's information.)		
ι	ise Zone		
•	Merry-Go-Rounds: Use zone to extend 6 feet beyond the perimeter of the platform.		
•	<b>Seesaws</b> : Use zone to extend a minimum of 6 feet in all directions from the perimeter of the equipment.		
•	<b>Spring Rocking Equipment</b> : Use zone to extend a minimum of 6 feet from the "at rest" perimeter of equipment. Adjacent spring rockers with a maximum seat height of 30 inches when intended for sitting, may share the same use zone.		
•	When intended for standing, use zone to be no less than 7 feet in all directions, from at rest perimeter.		

#### COMMENTS:

ACTION TAKEN:

DATE:	
BY:	
SUPERVISOR:	

## Forms: Surfacing

## SURFACING

Playground:	Materials:
	Surface:
Inspected by:	Ages of intended Users:
Location:	Weather:
Height:	Date of Audit:

### PRIORITY

1 Life threatening, permanent disability

#### 2 Serious or non-disabling injury

3 Slight injury or may not have caused injury but does not meet ASTMI F1487 or CPSC Handbook for Public Playground Safety

	CONDITION	PRIORITY	RECOMMENDATIONS
Shock Absorbency of Surfacing Material			
• Surfacing material must yield both a peak deceleration of no more than 200 G's and a HIC (Head Injury Criteria) of no more than 1,000 when tested in accordance with procedures described in ASTMI F1292 "A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment."			
Critical Height			
• The surfacing material used under and around a particular piece of playground equipment is to have a Critical Height value as identified for each type of equipment.			
Fall Height for Equipment			
<ul> <li>Swings: The highest accessible part of a swing is the height of the pivot point where the swing's suspending elements connect to the supporting structure.</li> </ul>			
• Elevated Platforms: The highest accessible part is the height of the platform surface above the playing surface.			
<ul> <li>Horizontal Ladders: The highest accessible part is the maximum height of the structure.</li> </ul>			
• Merry-Go-Rounds: The highest accessible part is the height above the ground of any part at the perimeter on which a child may sit or stand.			
• Seesaws: The highest accessible part is the maximum height attainable by any part of the seesaw.			
• <b>Spring Rockers</b> : The highest accessible part is the maximum height above the playing surface of the seat or designated play surface.			
<ul> <li>Climbers: Free-standing – highest part of the climbing equipment Access / Egress – highest part of the climber intended for foot support.</li> </ul>			

### - Forms: Surfacing

## SURFACING continued

	CONDITION	PRIORITY	RECOMMENDATIONS
Acceptability of Various Surfacing Materials			
• Hard surfacing materials, such as asphalt or concrete, are unsuitable for use under and around playground equipment.			
<ul> <li>Earth surfaces such as soils and hard packed dirt are unsuitable for use under and around playground equipment.</li> </ul>			
Grass and turf are unsuitable for use under and around playground equipment.			
Unitary Materials: (rubber mats or rubberlike materials):			
• To have identification of Critical Height rating. This information is to be attained from the manufacturer of this material.			
Loose-Fill Material:			
Not to be installed over hard surfaces such as asphalt or concrete.			
Requires a method of containment.			
Requires good drainage under material.			
<ul> <li>Requires periodic renewal or replacement and continuous maintenance to maintain proper depth and remove foreign matter.</li> </ul>			
<ul> <li>Refer to table listing the critical height (expressed in feet) for seven loose fill materials when tested in an uncompressed state at depths of 6, 9 and 12 inches. This test was conducted by CPSC staff in accordance with the voluntary ASTMI F1292 standard.</li> </ul>			
• Surface materials for accessibility must pass ASTMI Test F1951.			
Use Zones for Equipment			
• The area beneath and immediately adjacent to equipment that is designated for unrestricted circulation and on whose surface it is predicted that a user would land when falling from or exiting the equipment. Surface shall meet requirements of ASTMI F1292 from the maximum fall height.			
Recommendations for Use Zone			
• Stationary Equipment: The use zone is to extend a minimum of 6 feet in all directions from the perimeter of the equipment.			
• <b>Slides</b> : The use zone in front of the exit of the slide is to extend a minimum distance of 6 feet from the end of the slide chute or a maximum of 8 feet whichever is the greater.			
• <b>Single-Axis Swings</b> : The use zone is to extend to the front and rear of a single axis swing a minimum distance of 2 times the height of the pivot point above the surfacing material.			
• Multi-Axis Swings: The use zone is to extend in any direction from a minimum distance of 6 feet + the length of the suspending members.			
• Merry-Go-Rounds: The use zone is to extend a minimum of 6 feet beyond the perimeter of the platform.			
• <b>Spring Rocking Equipment</b> : The use zone is to extend a minimum of 6 feet from the perimeter of the equipment but adjacent spring rockers with a maximum seat height of 30 inches may share the same use zone. Rocking equipment meant for standing requires a use zone of 7 feet; use zones may not be shared.			
COMMENTS:	ACTION TAKEN:		

DATE: \_\_\_\_\_\_ BY: \_\_\_\_\_ SUPERVISOR:\_\_

# TABLE 2

### CRITICAL HEIGHTS (IN FEET) OF TESTED MATERIALS

		UNCOMPRESSED DEPTH		
MATERIAL	6 INCH	9 INCH	12 INCH	9 INCH
Wood Chips*	7	10	11	10
Double Shredded Bark Mulch	6	10	11	7
Engineered Wood Fibers**	6	7	>12	6
Fine Sand	5	5	9	5
Coarse Sand	5	5	6	4
Fine Gravel	6	7	10	6
Medium Gravel	5	5	6	5
Shredded Tires***	10-12	N/A	N/A	N/A

\* This product was referred to as Wood Mulch in previous versions of this handbook. The term Wood Chips more accurately describes the product.

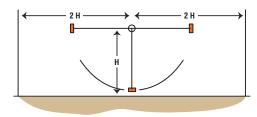
\*\* This product was referred to as Uniform Wood Chips in previous versions of this handbook. In the playground industry, the product is more commonly known as Engineered Wood Fibers.

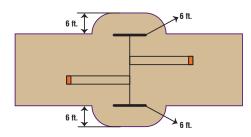
\*\*\* This data is from tests conducted by independent testing laboratories on a 6 inch depth of uncompressed shredded tire samples produced by four manufacturers. The tests reported critical heights which varied from 10 feet to greater than 12 feet. It is recommended that persons seeking to install shredded tires as a protective surface request test data from the supplier showing the critical height of the material when it was tested in accordance with ASTMI F1292.

Footnote: Information reproduced for the 1997 publication of the CPSC "Handbook for Public Playground Safety."

# **USE ZONES**

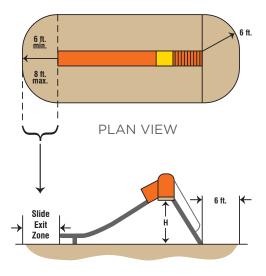
### SINGLE-AXIS TIRE SWING





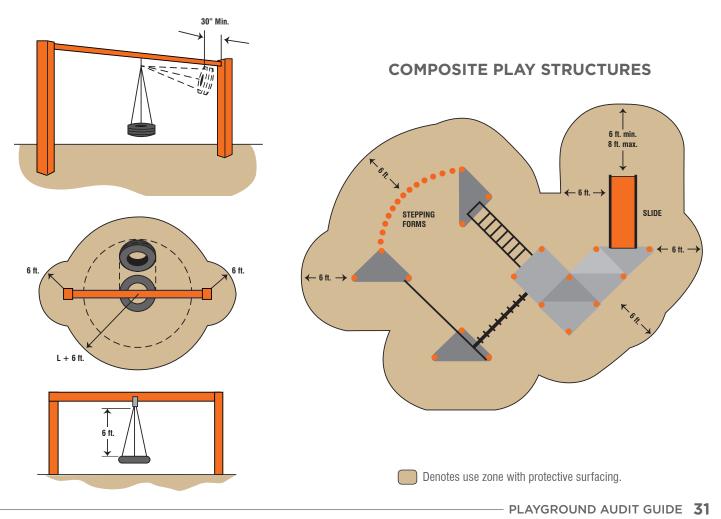
FALL ZONE FOR SLIDES

ASTMI F1487



SIDE ELEVATION

**MULTI-AXIS TIRE SWING** 



Playworld believes The World Needs Play<sup>®</sup>. Play is vital to everyone's health and well-being. It's something you are never too young or too old to enjoy. We develop playground environments where creativity is king, belly laughs are welcome and children make the rules. Playworld's equipment and surfacing are designed to unleash the transformational power of play so bodies grow stronger, children play safely and imagination can take flight. For more than 40 years, Playworld has created innovative, inclusive and meaningful outdoor play experiences for all ages and abilities. **Come play with us.** 



If you have any questions on the audit procedure, or if you are interested in a Playground Audit Kit, contact your local Playworld representative, or call 1-800-233-8404.

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