

# ZIPLINE FUN

*The World's Safest Zipline*

## ZIPLINE BUNDLE INSTRUCTIONS

INCLUDES COMPLETE ZIPLINE  
SYSTEM WITH ALL PARTS  
& HARDWARE FOR  
**EASY** ASSEMBLY



**For ages 8+**

MADE IN THE USA SINCE 1976



FROM 90% USA COMPONENTS

THE **ONLY** RESIDENTIAL ZIPLINE TO MEET ASTM HOME PLAYGROUND EQUIPMENT SAFETY STANDARDS.



**MODELS: THE TOTAL Z35, Z40, Z70, Z80 AND THE 100X  
ZIPLINE INSTALLATION, OPERATING AND MAINTENANCE INSTRUCTIONS**

Thank you for purchasing our exciting new zipline bundle. The warnings and instructions that follow are important to the enjoyment and safe play of all users. Please review these with them and save for future reference.

**WARNING**

All of the following precautions should be exercised by adults and included in the ON SITE supervision of children using the zipline

**LIABILITY RELEASE**

**ROCK CLIMBING, ROPES COURSE, ZIPLINES ARE DANGEROUS**

Allowing your children, friends, or anyone else's children to ride on a zipline that has not been installed properly, maintained as instructed and inspected for safety is tantamount to endangerment and negligence. Please use common sense and remember that you are responsible for your decisions as well as the outcome. Zip Line Fun and its associates are not responsible for anything that may go wrong with your zipline installation, trees, gear, trolleys, or related components. We are not responsible for any injuries or deaths that occur during the construction or operation of your zipline or any other products. No warranty related to ziplines is expressed or implied by installation tips, construction guides, or by any representative of Zip Line Fun, including warranties of merchantability or fitness. Ensure you educate yourself on the proper installation, maintenance and use of everything related to your zipline or other products. Seek competent local assistance if you are unsure how to work with trees, cable installation or maintenance. All information related to ziplines received from any representative or printed material distributed by Zip Line Fun is only an opinion and shall not be interpreted as expert or professional advice. The customer accepts full responsibility for any and all incidents, accidents, injuries, deaths, and property damage that may occur during the building and operating of your zipline or other products. Serious injury and death may occur as a result of improper use of this equipment. DO NOT attempt to use this equipment without proper training! Inspect all equipment before each use and destroy any gear that is damaged, worn, or does not pass inspection. Any person using these products is responsible for the proper care and maintenance of these products. WHEN IN DOUBT, REPLACE IT! Any person using these products in any manner assumes all risk and responsibility for any damage or injury, including death, dismemberment or worse. Any litigation involving these products will be defended and challenged according to the above release of liability.

The zipline system has been designed for fun. It has been thoroughly tested to insure its safety and where applicable conforms to ASTM F1148 Standard Consumer Safety Performance Specification for Home Playground Equipment, and European Toy Safety Standard EN-71. However, as with all playground equipment and accessories, all users of the zipline bundle will need proper instruction and supervision. This zipline system is intended to be used as a cable ride between two points.

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ADVENTURE PARKS | 520 Salem Avenue, Holly Springs, MS 38635

PHONE: 662.504.6060 | FAX: 662.252.1888

AdventureParks.com

Fun@AdventureParks.com

**PLEASE NOTE: Observing the following statements and warnings reduces the likelihood of serious or fatal injury.**

**ALL USERS SHOULD BE INSTRUCTED:**

- 1. TO use the zipline system ONLY after it is properly installed by an adult.**
2. TO get off the zipline ONLY after it has completely stopped and to drop gently to the ground.
3. THAT the zipline is designed to be used by one rider at a time, ages 8+, weight up to 250 pounds. (Although the equipment has been designed and tested to support up to 250 pounds, the user should be able to support his or her own body weight.
4. TO use the zipline system ONLY as it is intended.
5. NOT TO walk close to, in front of, behind, or between a moving zipline or any other moving object.
6. NOT TO use the zipline system without adult supervision.
7. TO always begin the ride from a stable platform.
8. TO grip the handles firmly with both hands directly overhead before beginning the ride.
9. NOT TO attach items to the equipment that are not specifically designed for use with the equipment, such as, but not limited to, jump ropes, clothesline, pet leashes, cables, chain and rope as they may cause a strangulation hazard.
10. TO dress appropriately with full foot enclosing footwear (Examples of inappropriate footwear are clogs, flip flops and sandals) and not to wear ponchos, scarves or other loose fitting clothing, such as but not limited to, hood and neck drawstrings, cord-connected items and capes which are potentially hazardous and these items can cause death by strangulation.
11. NOT TO use the zipline system when the equipment is wet.
12. TO verify that the cable is secure at both ends.



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**PARENTS PLEASE NOTE: Observing the following statements and warnings reduces the likelihood of serious or fatal injury.**

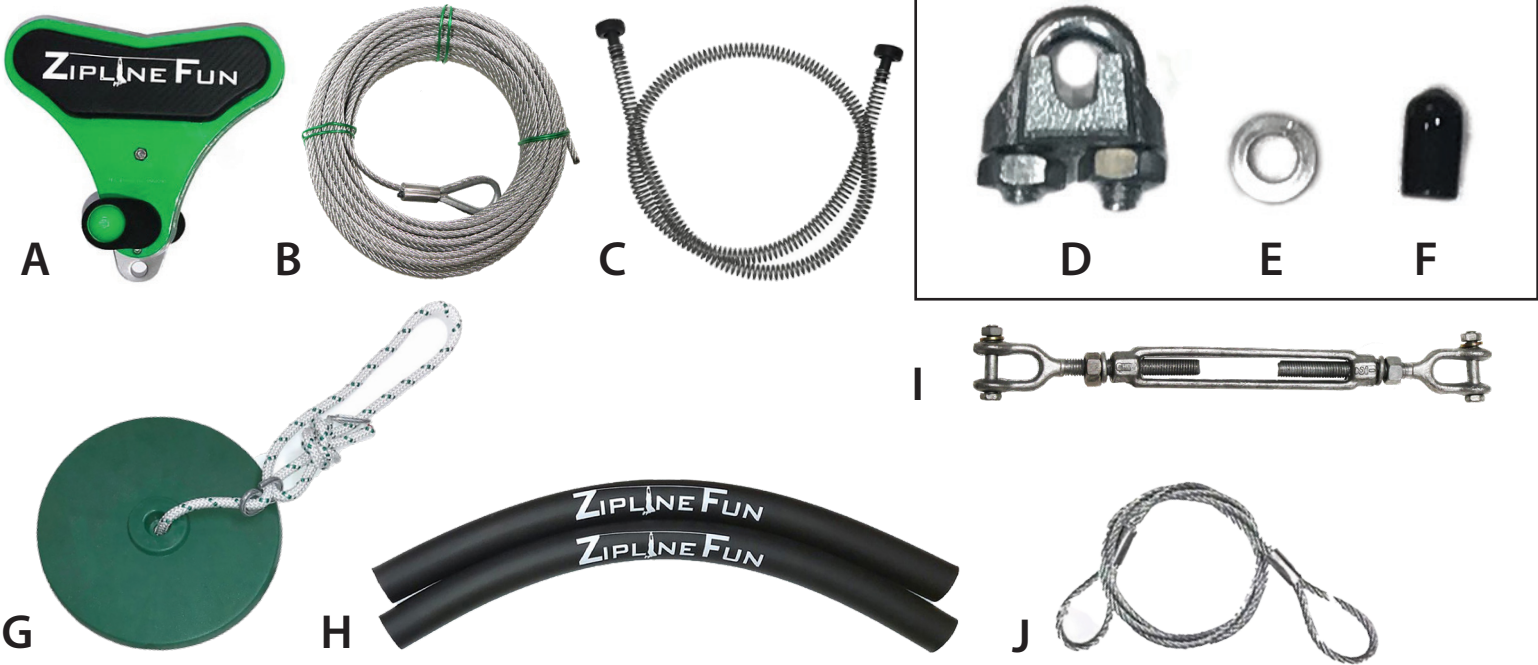
**TOOLS REQUIRED FOR SETUP:**

1. Ladder
2. Pliers or Vise-Grips
3. Socket Wrench
4. Adjustable Wrenches x2 (optional)
5. Flat Head Screwdriver
6. Wire Cutter
7. Electrical Tape
8. A Friend
9. Tape Measure
10. Rope or Cord (approximately 5 ft.)

PARTS LIST	Total Z35/40	Total Z70/Z80	Total Z90	100X
A. Trolley	1 (yellow)	1 (green)	1 (blue)	1 (black)
B. Galvanized Aircraft Cable	1 coil (39'/44' long)	1 coil (74'/84 long)	1 coil (94' long)	1 coil (104' long)
C. Braking System	1	1	1	1
D. Cable Clamps (U-bolts with Nuts)	4 sets	3 sets	3 sets	3 sets
E. Lockwashers	8	6	6	6
F. Thread Caps	8	6	6	6
G. Disc Seat	1 (yellow)	1 (green)	1 (blue)	1 (black)
H. Tree Protectors	set of 2	set of 2	set of 2	set of 2
I. Turnbuckle(s)		1	2	2
J. Galvanized Aircraft Cable Sling		1 sling	1 sling	1 sling

**Please note that not all bundles come with all parts pictured below. Refer to the chart above to ensure you have all parts for your bundle.**

Check all parts against the above chart immediately.  
In case of discrepancy, email [Fun@AdventureParks.com](mailto:Fun@AdventureParks.com).



**DO NOT SUBSTITUTE PARTS!**

The parts provided have been safety tested to exceed the maximum stresses expected to be encountered when using this product. If a part becomes damaged in any way, email [Fun@AdventureParks.com](mailto:Fun@AdventureParks.com) for replacement information.



## INSTALLATION AND ASSEMBLY SAFETY INSTRUCTIONS

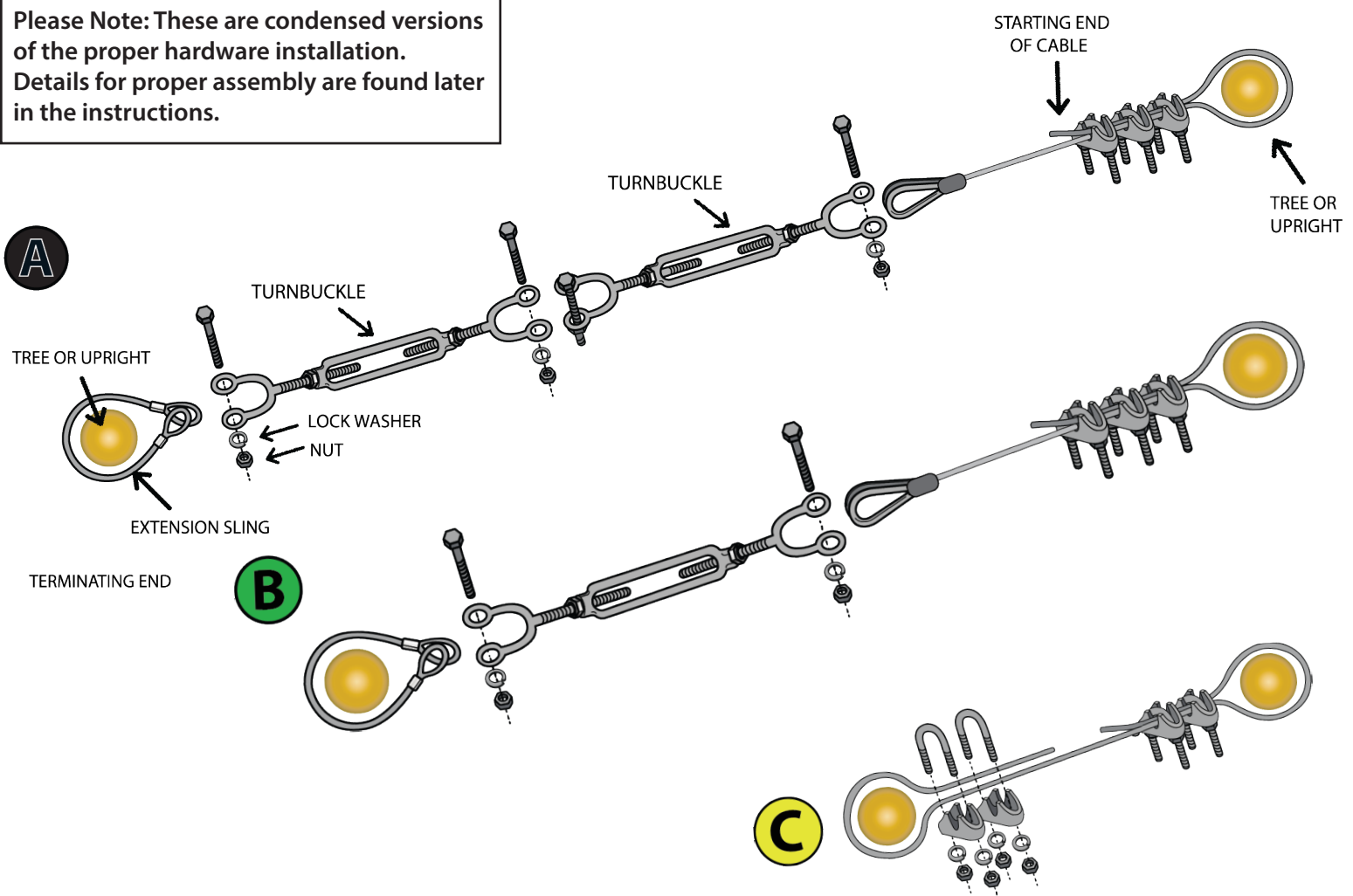
PLEASE NOTE: Observing the following statements and warnings reduces the likelihood of serious or fatal injury.

1. Be sure that the supporting trees or uprights are secure and will support at least 1,250 pounds. If you are using uprights other than trees or are considering installation on other than level ground, please email [Fun@AdventureParks.com](mailto:Fun@AdventureParks.com) for important safety information.
2. Be sure that the area between the trees or uprights is level and at a distance of not less than 6 feet from any structure or obstruction such as a fence, garage, house, tree trunk, interfering branches, laundry line or electrical wire.
3. The maximum fall height for this product is determined by measuring from the handles to the ground at the highest point of attachment to the tree or upright. This will vary depending upon the height of the user and the distance between the trees or uprights (see assembly instructions).
4. Do not install the zipline system over concrete, asphalt, packed earth, grass, gravel, or any other hard surface. A fall onto a hard surface can result in a serious injury or death to the equipment user. (See enclosed CONSUMER INFORMATION SHEET FOR PLAYGROUND SURFACING MATERIALS.)

## ASSEMBLY INSTRUCTIONS

### DO NOT SUBSTITUTE PARTS OR HARDWARE!

Please Note: These are condensed versions of the proper hardware installation. Details for proper assembly are found later in the instructions.



**Illustration A: Hardware Installation for the 100X and Total Z90**

**Illustration B: Hardware Installation for the Total Z80 and Z70**

**Illustration C: Hardware Installation for the Total Z40 and Z35**

INSTALLATION AND ASSEMBLY SAFETY INSTRUCTIONS (CONTINUED)

PLEASE NOTE: Observing the following statements and warnings reduces the likelihood of serious or fatal injury.

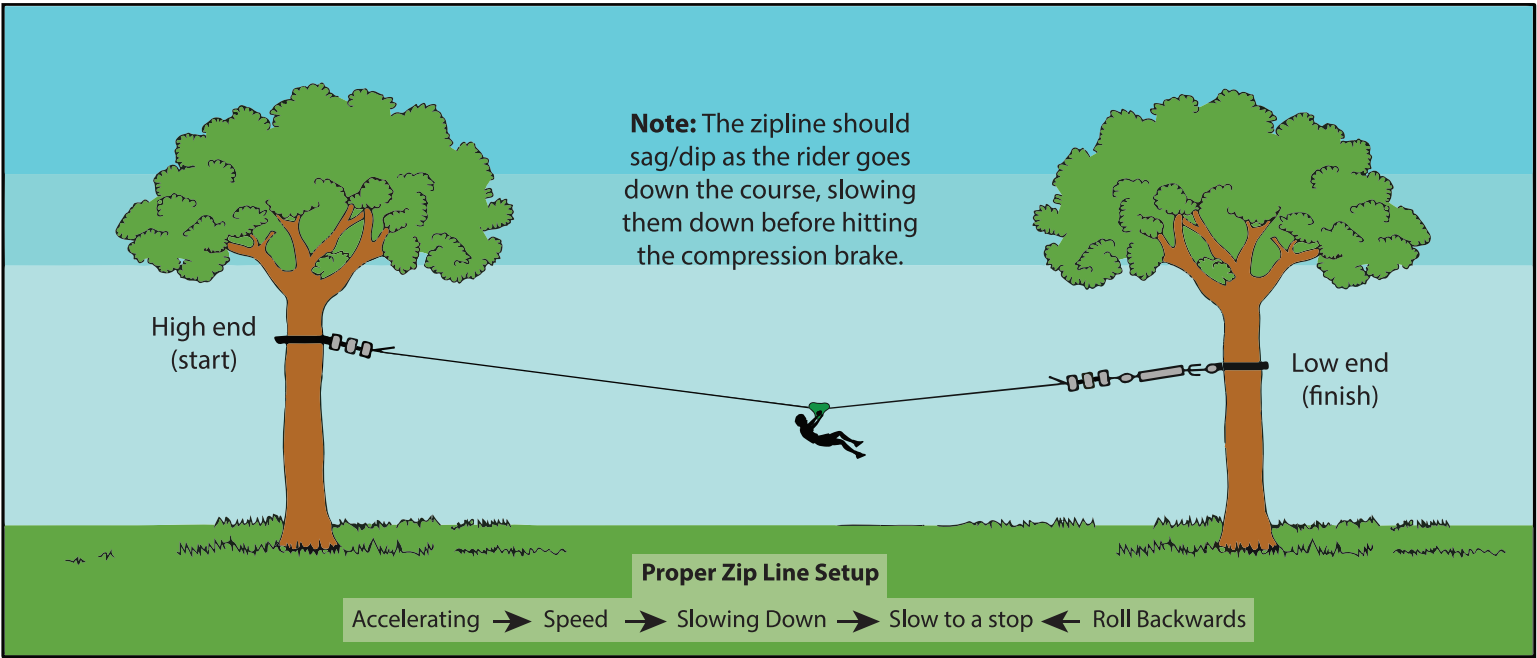
- 1. Determine the height you will need to install the zipline. To determine the height of the starting point of the zipline, measure the height of the user.
- 1B. CABLE HEIGHT: For the zipline to operate properly and safely, it is necessary to follow the mounting instructions carefully and observe the height recommendations. **NOTE: AT NO TIME SHOULD THE HEIGHT OF THE ZIPLINE CABLE EXCEED THE MAXIMUM RECOMMENDED INSTALL HEIGHT!**

One end of the cable must be mounted at a lower level than the other end, and depending upon the height of the user and the distance between the tress or uprights, these levels can be easily determined as follows:

- A. Measure the height of the user. If there is more than one user, and less than 6 inches in difference between their heights, then for this purpose use the height of the tallest user. If heights of the users differ by more than 6 inches, it is recommended that the height of the cable be adjusted to accommodate a user whose height is outside the range and that user not be permitted to ride until adjustment is made. Add 2 1/2 feet to the height of the user determined and mark this point on the upright intended to be the end point of the ride (i.e., if the user is 5' 2" tall or 62 inches, then 62 plus 2 1/2 feet or 30 inches equals 92 inches or 7' 8"). **SEE TABLE.**
- B. Measure the distance between the uprights. For the full ride length, add 2 1/2 feet (30") to the height of the mark made on the end point upright, and mark this point on the upright intended to be the starting point of the ride (i.e., 96" + 30" = 122" or 10' 2"). For each 10 feet less distance between the uprights, reduce the add-on to the starting point by 6 inches (i.e. 60' distance equals 2' or 24" of add on at starting point). **SEE TABLE.**

USER HEIGHT	LOW END CABLE HEIGHT	HIGH END CABLE HEIGHT AT DISTANCE BETWEEN UPRIGHTS						
		100 FEET	90 FEET	80 FEET	70 FEET	60 FEET	50 FEET	40 FEET
48"	78"	132"	126"	120"	114"	108"	102"	96"
54"	84"	138"	132"	126"	120"	114"	108"	102"
60"	90"	144"	138"	132"	126"	120"	114"	108"
66"	96"	150"	144"	138"	132"	126"	120"	114"
72"	102"	156"	150"	144"	138"	132"	126"	120"

**WARNING! Do not add additional slope to the cable. This will not improve the ride and may create a danger to the user!**





## INSTALLATION AND ASSEMBLY SAFETY INSTRUCTIONS (CONTINUED)

PLEASE NOTE: Observing the following statements and warnings reduces the likelihood of serious or fatal injury.

2. Once you have marked your heights, we will start by installing one of the Tree Protectors (H) around the Cable Sling (J). To do this, you will need to take a length of rope (approximately 5 ft) and fold it in half. Take the folded end of the rope, and insert it into one end of the Galvanized Aircraft Cable Sling (J). Thread the loose end of the rope through the folded end of the rope to create a Lark's Head Knot on the cable.
3. Feed the loose ends of the rope through the Tree Protector until they stick out the end. Then pull firmly to get the Cable Sling inside the Tree Protector. One looped end of the Cable Sling should be on each end of the Tree Protector.

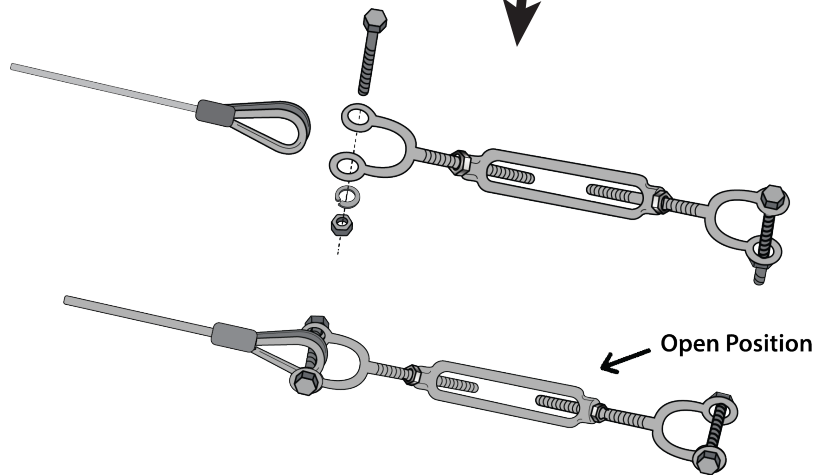
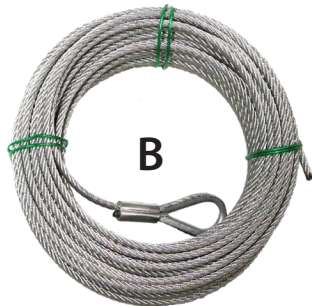
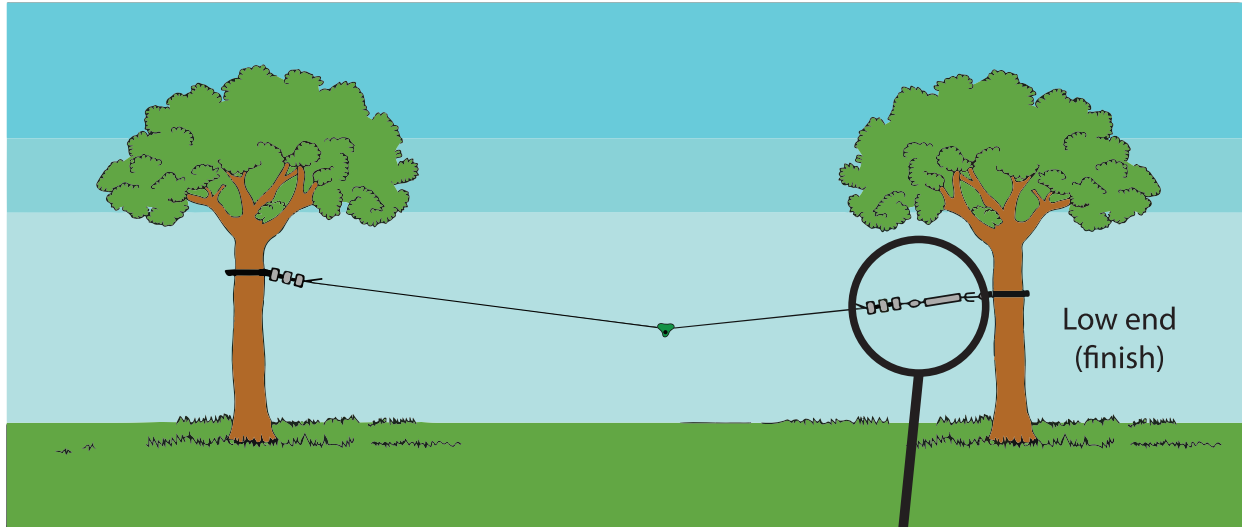
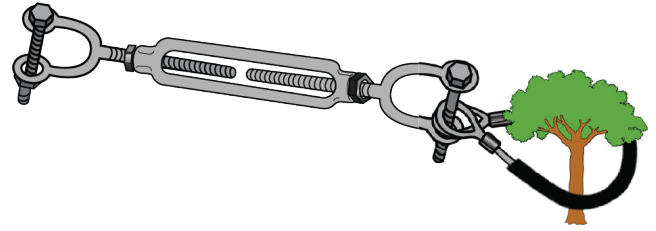




## INSTALLATION AND ASSEMBLY SAFETY INSTRUCTIONS (CONTINUED)

PLEASE NOTE: Observing the following statements and warnings reduces the likelihood of serious or fatal injury.

3. Wrap the Cable Sling (J) provided around the Terminating Point (or low end) at the height determined in step 1B. Place the loops at the end of the Cable Sling inside the jaw of the Turnbuckle (I) and secure with the pin as illustrated.



4. Stretch out the Galvanized Aircraft Cable (B) and place the loop end inside the jaw of the Turnbuckle (I). Screw the jaw of the Turnbuckle back together with the pin so that it is secured. Keep the Turnbuckle in an open position so that it can later be tightened.



## INSTALLATION AND ASSEMBLY SAFETY INSTRUCTIONS (CONTINUED)

PLEASE NOTE: Observing the following statements and warnings reduces the likelihood of serious or fatal injury.

- Now we will install the braking system on the opposite end of the Galvanized Aircraft Cable (B). Place the first brake stop into the end of the spring as shown in Figure 1. Insert the Galvanized Aircraft Cable through the first end of the spring until it is sticking out of the other end.
- Thread the cable through the second brake stop and push the brake stop until it is completely inserted inside the spring.

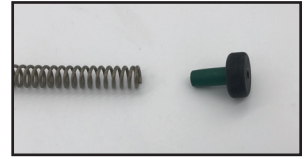


Figure 1



- Install the Trolley (A) by threading the cable on the opposite end of the Braking System (C) through the Trolley just below the wheels until it sticks out the opposite end.
- After installing the Trolley, you will need to thread the Galvanized Aircraft Cable through the second Tree Protector until it comes through on the other end.
- Once you have done this, wrap the Galvanized Aircraft Cable with the Tree Protector around the starting point at the height marked earlier in step 1B. Make sure that the Tree Protector is touching the tree!



A

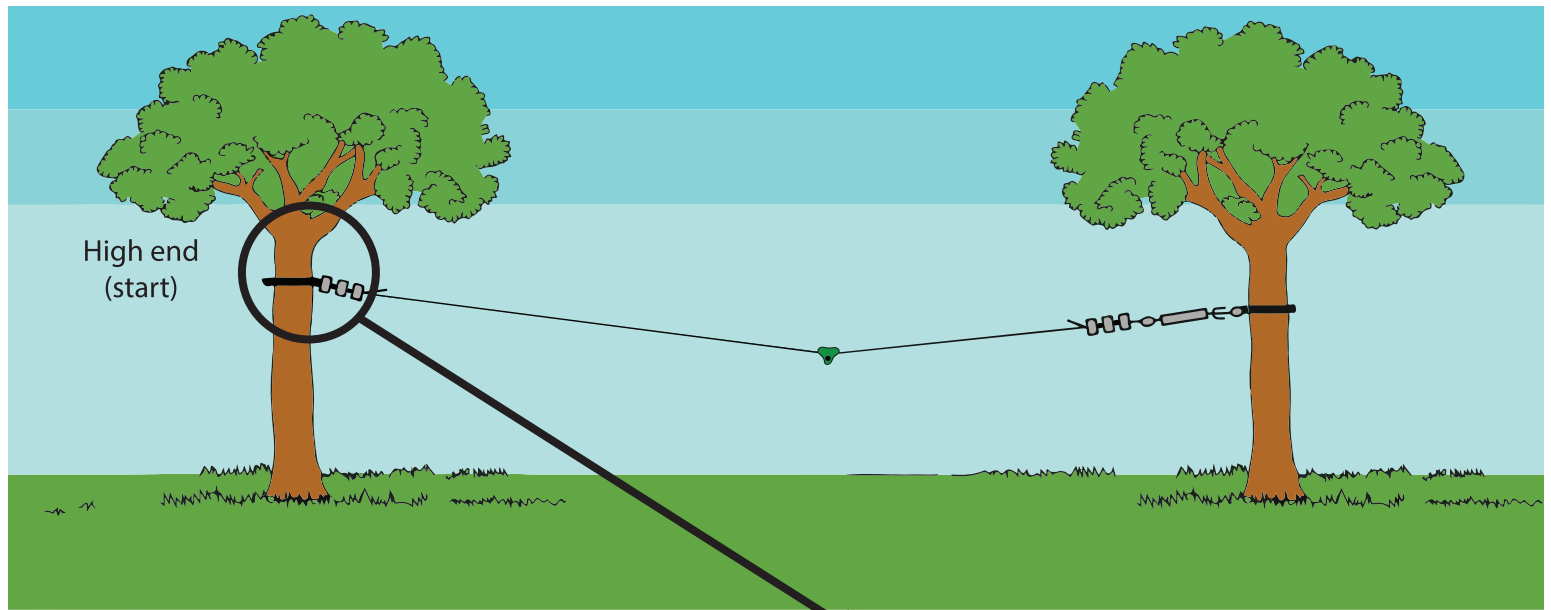




## INSTALLATION AND ASSEMBLY SAFETY INSTRUCTIONS (CONTINUED)

PLEASE NOTE: Observing the following statements and warnings reduces the likelihood of serious or fatal injury.

10. Using the three (3) Cable Clamps (D) (or two of the Cable Clamps for the Total Z35/Z40) provided with Lockwashers (E) and nuts, secure the other end of the Galvanized Aircraft Cable at the starting point (high end) as illustrated below. Tighten the nuts carefully with a socket wrench and push the Thread Caps (F) over the exposed threads.



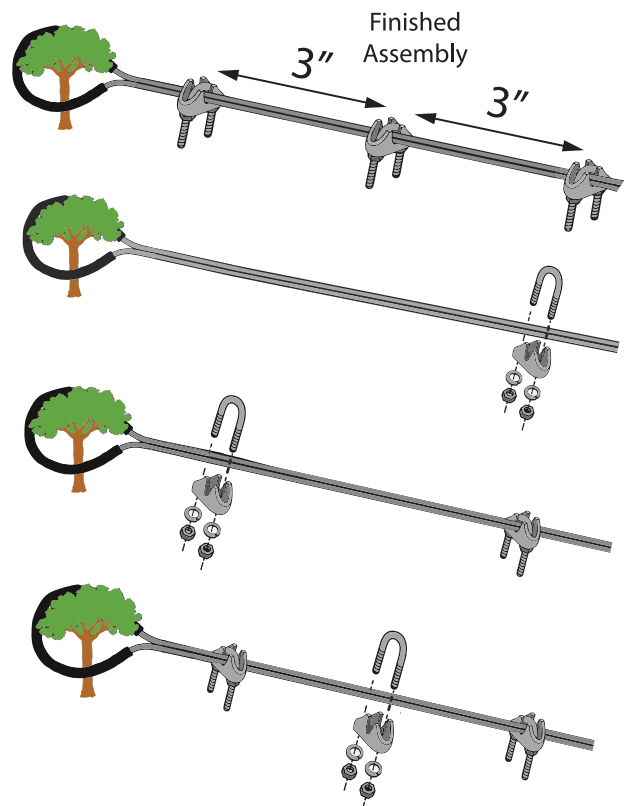
- A. Attach the first clamp so the U-bolt is one clamp base width from the dead end of the wire rope. **Note that all U-bolts should be installed 3" apart as shown to the right.**
- B. Tighten U-bolt nuts evenly on first clamp. Attach second clamp no closer to the tree/upright than 1-1/2 times the diameter of the tree/upright.
- C. Attach the third clamp evenly between the first two clamps. Now tighten all nuts evenly. **Re-tighten all nuts after the first ride.**

**DISTANCE NOTE:** Do not place the first Cable Clamp closest to the tree/upright any nearer than 1-1/2 times the diameter of the tree/upright.

Example: Tree Diameter = 16", closest U-Bolt after final tightening should be 24" from tree/upright.

**WARNING:** OVERTIGHTENING THE NUTS ON THE CLAMPS MAY DAMAGE THE WIRE ROPE AND CREATE A SERIOUS HAZARD.

**NOTE:** The cable should not "choke" the tree. The cable should make a "V" shape as it comes off the tree, in a "teardrop" shape.

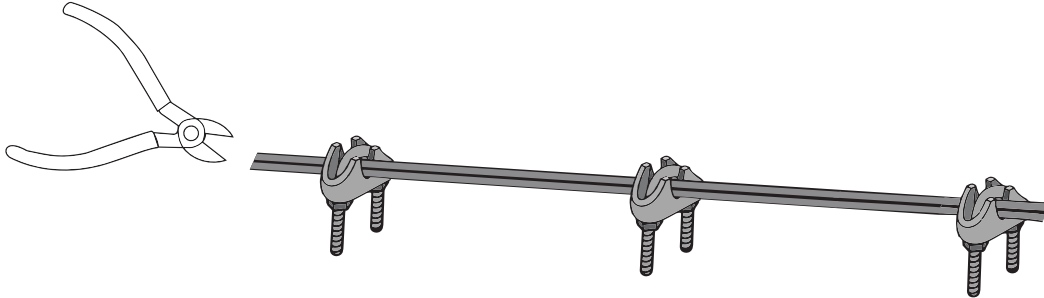




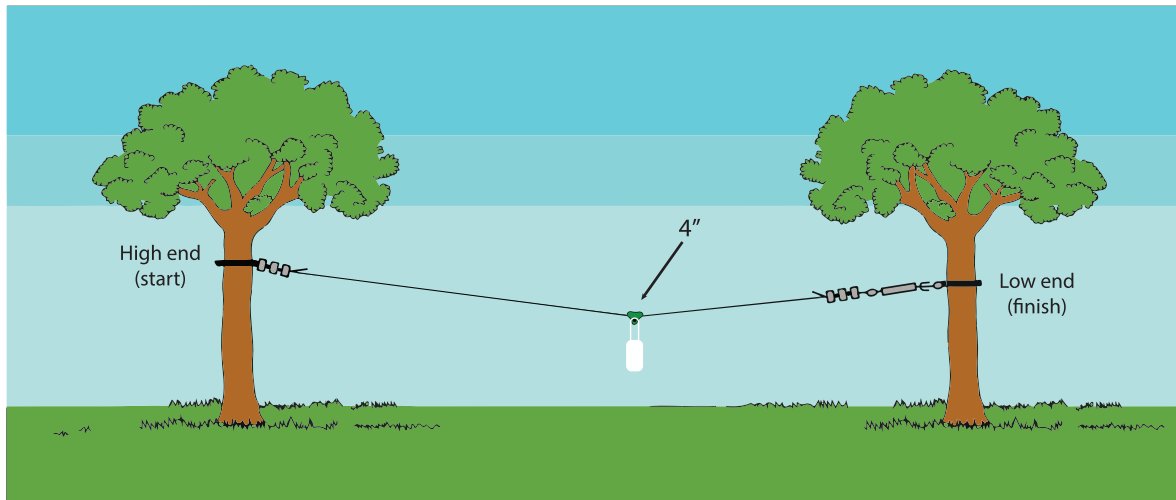
## INSTALLATION AND ASSEMBLY SAFETY INSTRUCTIONS (CONTINUED)

PLEASE NOTE: Observing the following statements and warnings reduces the likelihood of serious or fatal injury.

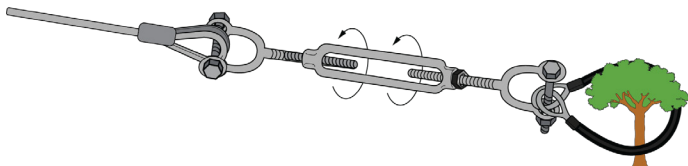
11. Depending upon the length of your zipline, you may now have extra cable. This excess should be removed. Wrap both protruding cable ends with electrical tape to cover sharp or pointed edges. Using wire cutters, remove any excess wire protruding beyond 6 inches from the last Cable Clamp.



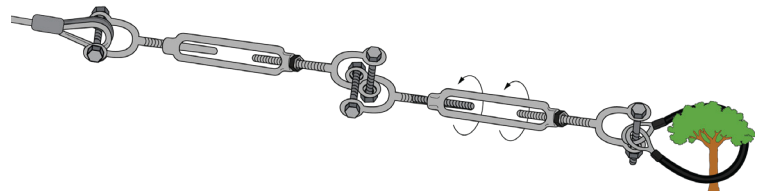
12. Tighten the Turnbuckle by turning the frame while holding the ends. This will increase the tension in the cable. Do not tighten all the way, but only until the cable appears to be a straight line. The ideal tension is approximately 200 lbs. You can test this as follows: Obtain a shopping bag with handles and place in it a 5 lb. weight such as a bag of sugar or flour. Move the Trolley to the approximate center of the cable and measure the distance from the cable to the ground. Hang the bag from the handles of the Trolley and re-measure the distance from the cable to the ground. At 200 lbs. tension, the cable should be 4 inches closer to the ground. If this distance is more than 4 inches, then you must tighten the Turnbuckle. If the distance is less than 4 inches, you must loosen the Turnbuckle. After achieving the proper tension, tighten the Locknuts on each end of the Turnbuckle tight to the frame of the Turnbuckle.



Turnbuckle Configuration for  
the Total Z70/Z80



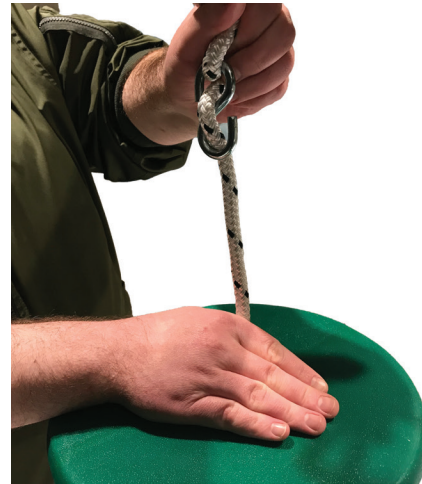
Turnbuckle Configuration for  
the Total Z90 and the 100X



## INSTALLATION AND ASSEMBLY SAFETY INSTRUCTIONS (CONTINUED)

PLEASE NOTE: Observing the following statements and warnings reduces the likelihood of serious or fatal injury.

13. Grab the Disc Seat (G), and open the quick link all the way by twisting the middle link. Thread the quick link through the stainless seat attachment on the Trolley.
14. **Close the quick link until it cannot be tightened anymore.** You can further tighten the quick link with a pair of pliers to ensure it is fully tightened. To lengthen the rope of the seat, place one hand on the seat, and with the other hand, grab the "S" hook, and move it toward the Trolley. To shorten the length of the rope, pull the "S" hook down toward the seat, and pull the rope attached to the seat up.



15. While standing erect, test the connections by placing your full weight (as close to 250 lbs. as possible) on the Trolley at approximately the center point of the ride. If you feel any slippage, you must adjust the tension again and tighten the Cable Clamps further. Repeat this process until there is no slippage.
16. Obtain a secure platform to place at the starting point of the ride. Place it at the start of the ride and make sure that it cannot tip in any direction.
17. Now test the ride. You should stop a short distance before reaching the other end. If you stop considerably short, then you probably have too much tension in the cable and should loosen the Turnbuckle slightly. If you come too close to the ground, then you may have too little tension and should tighten the Turnbuckle slightly, or you should recheck your measurements.
18. After the first use, you may expect a small amount of stretch in the cable due to its construction. This is normal and can be adjusted by following the installation instructions step 12.

**Your zipline system is now ready for use and enjoyment.**

## **INSTALLATION AND ASSEMBLY SAFETY INSTRUCTIONS (CONTINUED)**

PLEASE NOTE: Observing the following statements and warnings reduces the likelihood of serious or fatal injury.

### **PLEASE NOTE:**

1. DO NOT allow the use of the zipline by children without adult supervision.
2. DO NOT attach the zipline to a tree or other upright without first determining if the tree or other upright, at the point of attachments, will support at least 1,250 pounds.
3. ALWAYS check the support structure, attachments, trolley, cable clamps, turnbuckle, and cable for integrity before allowing the use of the zipline.
4. DO NOT attach the zipline closer than 6 feet to any other playground equipment.
5. ALWAYS use a stable platform to stand on before beginning the ride.

### **OPERATING INSTRUCTIONS:**

Your zipline system has been designed to provide children and adults with all of the enjoyment and traditional fun of a smooth, safe and exhilarating ride through the air from one point to another.

1. Follow the installation instructions carefully.
2. Follow the rules of safe use.
3. Stand on a stable platform and grip the handles of the trolley directly overhead with both hands.
4. Lift your feet off the platform and zipline will do the rest.
5. The zipline will slow and stop before reaching the other end of the ride. Drop gently to the ground onto both feet.

### **AT THE BEGINNING OF EACH PLAY SEASON:**

- Check the trolley, cable and cable clamps for evidence of rust, deterioration, excessive wear, fractures, breaks or sharp edges. Replace if necessary.
- Check all protective coverings on bolts, pipes, edges, and corners. Replace if they are loose, cracked or missing.
- Check all nuts and bolts for tightness and tighten as required.
- Rake and check depth of loose fill protective surfacing materials to prevent compaction and to maintain appropriate depth. Replace as necessary. It is particularly important that this procedure be followed at the beginning and end of each play season.
- Reinstall Plastic Parts, Swing Seats, or Other Items that were removed for the cold season.

### **ONCE A MONTH DURING PLAY SEASON:**

- Check the trolley, cable and cable clamps for evidence of rust, deterioration, excessive wear, fractures, breaks or sharp edges. Replace if necessary.

### **TWICE A MONTH DURING PLAY SEASON:**

- Rake and check the depth of loose fill protective surfacing materials to prevent compaction and to maintain appropriate depth. Replace as necessary. It is particularly important that this procedure be followed at the beginning and end of each play season.
- Check all protective coverings on bolts, pipes, edges, and corners. Replace if they are loose, cracked or missing.
- Check all nuts and bolts for tightness and tighten as required.
- Check metal parts for rust. If found, sand and repaint using a nonlead-based paint meeting the requirements of 16 CFR 1303.

### **AT THE END OF EACH PLAY SEASON/TEMPERATURE DROPS BELOW 32° FAHRENHEIT:**

- Uninstall and take the zipline trolley, swing seats or other items inside.
- Rake and check the depth of loose fill protective surfacing materials to prevent compaction and to maintain appropriate depth. Replace as necessary. It is particularly important that this procedure be followed at the beginning and end of each play season.



## INSTALLATION AND ASSEMBLY SAFETY INSTRUCTIONS (CONTINUED)

PLEASE NOTE: Observing the following statements and warnings reduces the likelihood of serious or fatal injury.

### MAINTENANCE

1. When done at prescribed intervals, the above check lists will provide for long lasting and safe use of your zipline system.
2. Owners shall be responsible for maintaining the legibility of the warning labels.

**WARNING: Always check the cable before use following an electrical storm. Lightning can strike the cable and weaken it, which could result in a fall and injury!**

**WARNING: Failure to carry out these checks and inspections could result in a fall and injury!**

### DISASSEMBLY

- Follow the steps backwards beginning with the **release of tension** at the turnbuckle.

### DISPOSAL

- Disassemble and dispose of all playground equipment in such a way that no unreasonable hazards will exist at the time it is discarded.

## WARNING: WIRE ROPE/CABLE

Wire rope WILL FAIL if worn-out, overloaded, misused, damaged, improperly maintained or abused.

Wire rope failure may cause serious injury or death!

### PROTECT YOURSELF AND OTHERS:

ALWAYS INSPECT wire rope for WEAR, DAMAGE, or ABUSE BEFORE and DURING USE.

NEVER USE wire rope that is WORN-OUT, DAMAGED, or ABUSED.

Destroy and discard worn out or damaged wire rope in a fashion that does not permit use by someone that does not know the hazard.

## LIMITED WARRANTY

Zipline Fun warrants to the first consumer purchaser, for a period of one (1) year from the date of purchase, that the zipline will be free from defective workmanship and materials, and agrees that it will, as its option, either repair the defect or replace the defective product or part thereof at no charge to the purchaser of parts or for labor.

This warranty does not apply to any product which has been damaged or defaced, which has been subject to misuse, abnormal service or handling, or which has been altered or modified in design, constructions, assembly, installation or operation.

In order to enforce the rights under this limited warranty, the purchaser should return the warranty registration card enclosed in the product package and contact Zip Line Fun if a problem occurs. In the alternative, the purchaser should have available and submit a proof of purchase to Zip Line Fun.

This limited warranty described above is in addition to whatever implied warranties may be granted to purchasers by law.

The warranties described above shall be the sole and exclusive remedy available to the purchaser.

## SECTION 4 OF THE CONSUMER PRODUCT SAFETY COMMISSION'S OUTDOOR HOME PLAYGROUND SAFETY HANDBOOK

One of the most important things you can do to reduce the likelihood of serious head injuries is to install shock-absorbing protective surfacing under and around your play equipment. The protective surfacing should be applied to a depth that is suitable for the equipment height in accordance with ASTM F1292. There are different types of surfacing to choose from; whichever product you select, follow these guidelines:

**NOTE:** Do not install home playground equipment over concrete, asphalt, or any other hard surface. A fall onto a hard surface can result in serious injury to the equipment user. Grass and dirt are not considered protective surfacing because wear and environmental factors can reduce their shock absorbing effectiveness. Carpeting and thin mats are generally not adequate protective surfacing. Ground level equipment—such as a sandbox, activity wall, playhouse or other equipment that has no elevated play surface—does not need any protective surfacing

### Loose-Fill Materials

- Maintain a minimum depth of 9 inches of loose-fill materials such as wood mulch/chips, engineered wood fiber (EWF) or shredded/recycled rubber mulch for equipment up to 8 feet high; and 9 inches of sand or pea gravel for equipment up to 5 feet high. NOTE: An initial fill level of 12 inches will compress to about a 9-inch depth of surfacing over time. The surfacing will also compact, displace, and settle, and should be periodically refilled to maintain at least a 9-inch depth.
- Use a minimum of 6 inches of protective surfacing for play equipment less than 4 feet in height. If maintained properly, this should be adequate. (At depths less than 6 inches, the protective material is too easily displaced or compacted.)
- Use containment, such as digging out around the perimeter and/or lining the perimeter with landscape edging. Don't forget to account for water drainage.
- Check and maintain the depth of the loose-fill surfacing material. To maintain the right amount of loose-fill materials, mark the correct level on play equipment support posts. That way you can easily see when to replenish and/or redistribute the surfacing.
- **Do not** install loose fill surfacing over hard surfaces such as concrete or asphalt.

### Poured-In-Place Surfaces or Pre-Manufactured Rubber Tiles

You may be interested in using surfacing other than loose-fill materials—like rubber tiles or poured-in-place surfaces.

- Installations of these surfaces generally require a professional and are not “do-it-yourself” projects.
- Review surface specifications before purchasing this type of surfacing. Ask the installer/manufacture for a report showing that the product has been tested to the following safety standard: ASTM F1292 Standard Specification for Impact Attenuation of Surfacing Materials within the Use Zone of Playground Equipment. This report should show the specific height for which the surface is intended to protect against serious head injury. This height should be equal to or greater than the fall height—vertical distance between a designated play surface (***elevated surface for standing, sitting, or climbing***) and the protective surfacing below—of your play equipment.

### Placement

Proper placement and maintenance of protective surfacing is essential. Be sure to:

- Extend surfacing at least 6 feet from the equipment in all directions.
- For to-fro swings, extend protective surfacing in front of and behind the swing to a distance equal to twice the height of the top bar from which the swing is suspended.
- For tire swings, extend surfacing in a circle whose radius is equal to the height of the suspending chain or rope, plus 6 feet in all directions.
- Check the protective surfacing frequently for wear

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