



Commercial Trampoline Safety Guide

A comprehensive guide for schools and commercial orgainsations considering installing a trampoline.



An introduction to trampoline safety

Play is an essential part of every child's life. It provides the mechanism for children to explore the world around them and the medium through which skills are developed and practiced.

Risk taking & Challenge

Risk taking and challenge have an especially important role in children's play and development.

Well designed & supervised

Well designed, supervised and maintained playgrounds and play equipment, such as trampolines, provide an additional stimulus for children and gives them an opportunity to improve their motor skills and test their physical abilities in a controlled and supervised environment.

You'll need to consider

Ensure your play area is designed and constructed by a professional contractor/designer with relevant experience.

Ensure that trampoline is designed and installed to the appropriate safety standard.

Ensure that when the trampoline is installed, appropriate certification and documentation is obtained.

Ensure that risks associated with the trampoline is assessed and that control measures are adopted.

5 Ensure that there is appropriate levels of supervision during play periods.



Ensure that your trampoline is regularly inspected and maintained.





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Equipment selection

You will need to think about the size and shape of trampoline you want. Then you should think about the specification of the trampoline - it should be fit for purpose.

Ask yourself



How many children will be using the trampoline?

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How often will they use it?



What age are they?



Will the trampoline be sited indoors or outdoors?



In-ground or above-ground?

How heavy are they?





Trampoline standards in the EU

Brisith Safety Standards

There is a British Standard (European Norm) that pertains to domestic trampolines, EN71-14, but as yet there is no safety standard for commercial or schools trampolines. That said, there is a more general Playground Equipment Standard EN1176. Many commercial trampoline manufacturers do test their trampolines to the relevant parts of EN1176.

The European Standards are not retrospective or a legal requirement but they represent good practice.

Safety surfacing

Impact absorbent surfacing (safety surfacing) can be provided in a variety of materials, such as bonded mulch, rubber tiles or artificial grass with shock pad underneath.

Critical fall heights

Where used the depth of material must comply with the regulations relating to the critical fall height, and this must be considered in relation to the maximum height of the equipment. See BS EN 1177: Impact Absorbing Playground Surfacing.

Although impact absorbing surfaces cannot prevent accidents they may reduce the level of injury.

What about In-ground Trampolines?

A surface is not strictly required for low level play equipment such as in-ground trampolines, less than 600mm in fall height.

However we still do recommend an impact absorbing surface is constructed and Capital Play or your playground equipment contractor/designer can also assist in your selection.

Trampolines?

Checklist

Where equipment is unable to meet a standard, an explanation of acceptability or evidence of third party testing by a recognised body or a risk assessment should be provided.

Installation

The installer should provide written confirmation that the trampoline has been installed to the manufacturer's instructions and to the relevant standard where appropriate.

Where considered necessary, a postinstallation inspection should be carried out by RoSPA or other appropriate body.



documentaton

Trampoline manufacturers/suppliers should submit documentary evidence of compliance with BS EN 1176: Playground Equipment Safety

"All installations undertaken by Playgrade Trampolines will receive an Installation Certificate of Safety"



Plan out risk

Cluttered play areas cause supervisory and accident problems for schools and the installation of any ancillary equipment should be an integral part of an overall plan.

Other playground equipment

Other playground equipment and ancillary items near your trampoline, such as gates, fences, litter bins and seating if provided should be constructed and installed to apply to the requirements of BS EN 1176.



Risk Assessment

The design, installation, use and maintenance of playgrounds and equipment should be subject to a risk assessment by the school. This should identify hazards and the necessary measures necessary to control risk to a reasonably practicable level.

Typical hazards could be:

- Slips, trips and falls associated with equipment use
- O Use of equipment by children with special needs
- O Damaged or faulty equipment and safety surfacing
- O Inadequate or poor levels of supervision
- O Inclement weather
- Older equipment/use of second-hand equipment
- Poor maintenance and inspection regimes
- O Use of equipment by inappropriate age groups
- O Use of equipment by large numbers of children
- O Children wearing inappropriate clothing

All installations undertaken by Playgrade Trampolines will receive full risk assessment as part of our service.

Supervision and safety

The safe usage of equipment provided for the physical development of children relies on adequate arrangements for supervision and control being established and followed within the school.

We recommend:

As approximately 75% of injuries occur when more than one person is on the trampoline, use should be restricted to a single user.

Children under 6 are particularly vulnerable and it is recommended that a minimum age of at least 6 is placed on use of trampolines.

Supervision by staff is no guarantee of safety and in around half of accidents the child is being supervised by staff. Spotters however greatly reduce this risk. Where practical experienced "spotters" should be present whilst trampolines are in use. These spotters should receive appropriate training.

The area around the trampoline should be clear of dangerous objects and the trampoline should not be near fences, trees, or other playground equipment. Use a frame pad that fully covers the entire spring system and ensure that this is securely fixed against movement.

Users should be required to remove all jewellery items (including ear studs etc). Clothing should not have any hard or sharp points (e.g. buckles, toggles) or anything that is going to catch. Users should not wear hard shoes.

Appropriate notices for safe use of the trampoline should be clearly displayed near the entrance to the trampoline. See Appendix 1.

All staff should be fully aware of the emergency procedures for trampolining incidents at the area.

You should never allow a child to exit the trampoline by bouncing off.



The facility should have at least one qualified first-aid provider present at all times.

The equipment should be inspected by a suitable person before every use and the area around the trampoline should be kept free of litter and other items at all times.

Smoking should not be allowed on, or near, the trampoline. Food and drink should also be kept well away from the area.

If outdoors, muddy footwear should be removed before entering the trampoline area.

Children should be encouraged to understand their limitations and not to try skills/moves beyond their ability or experience.

Damaged equipment should be taken out of use immediately and reported to the responsible safety manager.

It is recommended that users should not be allowed excessive time on the trampoline without a break. Untrained users do not have the muscle strength for long periods. 90 seconds is a recommended maximum time for usage without a break.

An appropriate accident book that meets the requirements of the Health and Safety Executive should be kept. It is recommended that the trampoline area should have its own accident book. A fence with gated entrance points should be constructed around the trampoline so that access can be controlled.

There should be good access for emergency vehicles to the trampoline area.

It is recommended that all users learn the bouncing skills which are usually detailed in the trampoline installation guide.

The following should be checked before every use.

- a. Wear on the jump mat, any damaged or thinning areas.
- b. Loose stitching or damaged of breaks in webbing.
- c. Uneven or high tension on the jump mat.
- d. All springs should be in place and undamaged with any hooks facing downwards.
- e. Stretched or elongated springs should be replaced.
- f. Surround pads should be checked for damage and security of fixing.
- g. Impact attenuating surfaces should be checked for damage and cleanliness.

Care and maintenance

BS EN 1176-1 requires that your trampoline should be inspected and maintained according to the manufacturer's instructions at a frequency not less that that stated by the manufacturer. We recommend inspections at the following intervals:

Daily visual inspection

by supervising staff prior to use should include looking for evidence of vandalism/ damage to equipment or surfaces. The area around the trampoline should also be checked to ensure it is clear of glass, litter and other hazardous objects.

IMPORTANT: If any faults are found, the trampoline MUST NOT BE USED.

We advise that the trampoline is taken out of service until replacement parts are fitted.

Monthly inspection

of the trampoline itself using a checklist detailed, as follows.

Annual inspection.

This should be undertaken at intervals not exceeding 12 months. It should be carried out by an independent and competent specialist. It should be carried out in strict accordance with the manufacturer's instructions.



Care of your trampoline

Do not exceed the maximum user weight limit provided by the trampoline manufacturer. Excess weight and improper use will damage it and cause it to break easily.



Keep trampoline clean. If any part becomes dirty, clean with a damp cloth and dry thoroughly. Do not use any abrasive cleaners as this could damage the products.



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If possible, store pads in dry place when not in use. Prolonged exposure to sun and harsh weather can shorten their life.

Keep trampoline in good condition by using a cover. Damage can be caused by water pooling, garden/outdoor debris landing on it, and sparks from nearby bonfires and fireworks displays.

Records

Inspection record sheets and records of work actioned as a result of them should be kept for the life of the equipment. They should include date the work was carried out and the reasons for it.

Records of annual inspections by the play equipment inspector should be kept during the life of the equipment as they will be required if a claim is made following an accident.

Repairs & faults

Faults

Faults identified during the inspection should be rectified immediately if they are hazardous. If this is not possible then the trampoline should be taken out of use until such time as it has been made safe.

A trampoline beyond economic repair must be taken out of use immediately, appropriately signed and be removed from the site and safely disposed of as soon as possible. When it is necessary to remove equipment from the site the ground underneath must be made good afterwards.

When repairs are required

When repairs are required, always use the manufacturer's correct replacement parts or provide parts of equivalent or better quality. If the original manufacturer no longer exists, obtain advice on suitable replacement parts from a play equipment inspector.





Further information

Useful links:

The Children's Play Information Service: www.ncb.org.uk/cpis Association of Play Industries http://www.api-play.org Play England: www.playengland.org.uk Royal Society for the Prevention of Accidents: www.rospa.com/leisuresafety/adviceandinformation/playsafety/default.aspx

Legalisation:

Health and Safety at Work etc Act 1974 Occupiers Liability Acts 1957/1984 Disability Discrimination Act 1995 Management of Health and Safety at Work Regulations 1999

Play equipment standards:

BS EN 1176: Playground Equipment BS EN 1177: Impact Absorbing Playground Surfacing BS EN 15312: Free access multi-sports equipment.Disability Discrimination Act 1995

Appendix 1

Safety notice

Before you use this trampoline you must

Appendix 2

Monthly assessment

trampoline you must	Part	Checklist	OK	Not OK
	All Parts	Securely attached	\bigcirc	\bigcirc
Take your shoes off before jumping.		Correctly positioned	\bigcirc	\bigcirc
Remove glasses, jewellery and any other objects.			\bigcirc	\bigcirc
Ensure there is adult supervision.		No sharp edges or points present	\bigcirc	\bigcirc
Only allow one jumper at a time is allowed.	Springe	No damaged springs	\bigcirc	\bigcirc
Do not sit on the trampoline frame pad or stand on the edge while others are jumping.	Springs		\bigcirc	\bigcirc
Always walk on and off the jump mat, do not jump off.		(bent, broken or stretched)	\bigcirc	\bigcirc
Climb carefully up and down the ladder and do not grasp the frame pad to pull yourself		No missing springs	\bigcirc	\bigcirc
onto the trampoline.	Frame	No bent parts	\bigcirc	\bigcirc
Practice jumping and landing in the same spot – the sign of a good controlled jump.		No loose parts	\bigcirc	\bigcirc
Break your jump whenever you start to lose balance or control. This is done by simply		No rusting or corrosion	\bigcirc	\bigcirc
flexing the knees sharply upon landing.		-	\bigcirc	\bigcirc
Do not attempt somersaults or other dangerous movements		No missing springs	\bigcirc	\bigcirc
Do not bring food or drink onto the trampoline.	Jump mat	No missing parts (e.g. D-rings)	\bigcirc	\bigcirc
Do not use the trampoline when under the influence of drugs or alcohol		No damage (e.g. holes, rips, frays)	\bigcirc	\bigcirc
		No holes, rips or tears in the netting	\bigcirc	\bigcirc
	Enclosure	Netting securely fastened to the enclosure poles and not sagging	0	\bigcirc
		Protective pole foam padding in good condition	\bigcirc	\bigcirc
Play play hieve		No damage (e.g. holes, rips, frays)	\bigcirc	\bigcirc
V ackii		No holes, rips or tears in the netting	\bigcirc	\bigcirc

Appendix 3

Example risk assessment for a school

Activity	Hazard / danger	Severity High Medium Low	Likelihood Very Likely Fairly Likely Possible Unlikely Very Unlikely	Control measures
Jumping against netting	Equipment Damage/ Injury	Medium	Possible	Safety cage net secured firmly all around. Damage repo equipment not used until fully repaired
Session undertaken in adverse weather conditions	Equipment Damage/ Injury/Fall	High	Very Unlikely	Sessions cancelled in adverse weather conditions (this that is considered to cause harm to the group, either d indirectly-as a result of the weather causing safety equ to fail. This could be gale force winds, very heavy rain o sleet/snow) Guidelines for adverse conditions form par induction.
Jumping and landing	Injury	Medium	Possible	Participants briefed by instructor before sessions on sa including bending their knees. Participants must not fl take their feet past their head (as this increases risk of injury. Adults must supervise participants under the ag Participants must warm up before jumping.
More than one person using trampoline at once	Equipment failure	Medium	Possible	Only one person in enclosure at once.
Equipment failure	Injury	Medium	Unlikely	Monthly checks must be undertaken as well as checks and after each use. Any faults found must be reported use of trampolines should be stopped until they have b fixed. Participant weight restriction of 14 stone (manu recommendations) is in place.
Entry and exit onto Trampoline	Injury/ Equipment Damage	Low	Unlikely	Activity must be supervised by an adult leader. Supervi are inducted in safe use of the trampoline. Participants briefed by a supervisory staff member bef begins.

	Risk assessment after Control measures High Medium Low	Review date
ported and	Low	Jan 2019
is is weather directly or quipment or severe part of staff		Jan 2019
safe bouncing flip or of spinal age of 18.	Low	Jan 2019
	Low	Jan 2019
es before d and e been nufacturer	Low	Jan 2019
rvisory staff efore sessions	Low	Jan 2019



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