

Reg.8.1

Form 3

WORKSAFE
NEW ZEALAND | HAKI MAUMĀRU
AOTEAROA

**Certificate of Registration of
an Amusement Device**

AMUSEMENT DEVICES REGULATIONS 1978

THIS IS TO CERTIFY that an amusement device known as a 4-WAY BUNGY TRAMPOLINE*
and owned by FKR Limited, trading as 'Prokarts'
of 9a Austen Ward Heights, Enner Glynn, Nelson has this day been
registered by me and allotted No. 1232

The erection and operation of this device is subject to the following special conditions specified by the engineer who has examined the device

Reg No 1232

Page 1 of 6

** This Certificate of Registration is for a trailer mounted four station bungee trampoline apparatus, manufactured by Zhejiang Gallop Sports Equipment Co. Ltd, Yongkang City, Zhejinag Province, China.*

The device consists of a central tower structure from which 4 individual bungee connections are suspended at 90° angles to each other. Participants are fitted into an approved safety harness, which is connected to an overhead bungee cord system, which is in turn, connected to a rope that is winched (vertically) upwards to a pre-determined height. Directly beneath the bungee cords, is a trampoline type device. The nature of the ride is for the 'suspended' participant, who, under their own gravitational forces, then stretches the bungee cord downwards until making contact with the trampoline. The participant then completes the 'rebound' mode for a set amount of time and on completion, is then lowered to the ground under the powered winch mechanism. This particular machine and its associated equipment, although designed for re-location purposes, will be used at a fixed site on Tahuna Beach at the 'Mega Slide'.

This Certificate is for the complete mobile '4-Way Bungee Trampoline' unit, and all associated equipment used in connection therewith, as inspected, tested and certified by the Examining Engineer, Mr L K Hope. Device is Class 2 in accordance with Table 2.1 of AS 3533.1 – 2009.

Refer to the photograph below and on page 6 of this Certificate.



Unless sooner revoked this Certificate expires on the 10th day of November 2019
Dated this 26th day of February 2018

M. H. Hope
Inspector of Machinery

THE FOLLOWING CONDITIONS ARE SPECIFIED BY THE EXAMINING ENGINEER

1. that the maximum safe operating speed of the winch does not exceed 180rpm, as set by the motor/drive characteristics. Bungee system shall be 29kg of tension;
2. that the maximum safe operating load does not exceed four (4) adult participants with a combined total weight of **360kg**, being 1 adult up to **90kg** attached at **each** of the 4 separate bungy stations. Participants must be a **minimum** weight of 10kg and a maximum of 90kg;
3. that the maximum tension in the bungee cords must not exceed the specified ratings of the cord manufacturer. Require a minimum of one yellow elastic bungee cord per side and a maximum of 8 cords per side;
4. that the maximum operating wind speed must not exceed 40km/hour;
5. that the complete bungee trampoline and all equipment used in connection therewith, must at all times be assembled, set up, tested and operated in accordance with the manufacturer's Maintenance and Operation Manual for the "4-WAY MOBILE BUNGEE TRAMPOLINE";
6. that **each** of the bungee cords have a design rating as specified by the manufacturer, the cords (yellow) must be replaced after a total of 750 "participant" cycles per space of the trampoline; note there are four spaces on this particular trampoline. A reasonably accurate system for the recording of this information shall be implemented and entered into a register/log book for this purpose. Once the bungy cords have reached the end of their serviceable period (as outlined above), they shall be disposed of in accordance with the relevant provisions of AS/NZS 5848 : 2000 (viz. Part 1, Section 114.7.3), entitled "CODE OF PRACTICE FOR BUNGY JUMPING";
7. that ambient temperatures shall be between 5°C and 35°C;
8. that further to the specified requirements of the Operation and Maintenance Manual issued by the designer/manufacturer, "Gallop Sport", the "4-WAY MOBILE BUNGEE TRAMPOLINE" device shall be erected on firm level ground that is deemed suitable for the intended purpose and approved by the Local Authority concerned. This would include the Local Authority requirement under Regulation 11[3a], which states "the ground on which the device is erected is capable of supporting it without risk of subsidence";
9. that further to condition number [5], the complete "4-WAY MOBILE BUNGEE TRAMPOLINE" shall be conducted strictly in accordance with the requirements and specifications that are set out in detail and contained in any relevant documents and publications pertaining to this type of activity. This would include compliance being maintained at all times with all known Standards relating to the equipment used in connection therewith, in particular the following references : -
 - a) the Owner's Operations Manual entitled "OPERATION AND MAINTENANCE MANUAL" (issued by the designer/manufacturer), and
 - b) the relevant provisions of the Australian Standard AS 3533.1 and 3533.2, (2009) entitled "AMUSEMENT RIDES AND DEVICES", and
 - c) the relevant provisions of the Australian/New Zealand Standard AS/NZS 5848 : 2000, entitled "CODE OF PRACTICE FOR BUNGY JUMPING", and
 - d) the relevant sections and provisions of any other Standards, Codes of Practice Guideline publications, etc., applicable to this type of activity, be it in an advisory and/or regulatory capacity;



Inspector of Machinery

Continued.../

THE FOLLOWING CONDITIONS ARE SPECIFIED BY THE EXAMINING ENGINEER – continued

10. that as the "4-WAY MOBILE BUNGEE TRAMPOLINE" has been designed to carry a maximum of four (4) participants, with a combined total weight of 360kg, **no** additional participants shall be permitted under any circumstances at all times and a prominent sign to this effect shall be conspicuously displayed;
11. that further to condition number [4], the "4-WAY MOBILE BUNGEE TRAMPOLINE" operation shall not be carried out in high winds. The "4-WAY MOBILE BUNGEE TRAMPOLINE" operation shall only be carried out strictly within the wind speed criteria specified in condition number [4] and a procedure to obtain wind speed readings from the Nelson Airport be put in place for this purpose;
12. that the Owner/Site Controller shall ensure that participant safety and security is imperative at all times by carrying out regular checks to the participant safety harness apparatus, which shall be maintained at all times so that it cannot be intentionally or inadvertently released at any time by a participant;
13. that the Owner of the "4-WAY MOBILE BUNGEE TRAMPOLINE" device shall ensure that the entire "4-WAY MOBILE BUNGEE TRAMPOLINE" operation shall be under the control of fully trained and competent staff who are a minimum of 18 years of age, and who are thoroughly familiar with the prescribed conditions of operation, the "4-WAY MOBILE BUNGEE TRAMPOLINE" Operation and Maintenance Manual, etc., and fully conversant with the conditions specified on this Certificate. This includes attendants and maintenance personnel who must also be thoroughly trained and familiarised with the safety requirements and procedures as per the operating and maintenance manual. **All** personnel must have relevant experience;
14. that prior to use each day, the "4-WAY MOBILE BUNGEE TRAMPOLINE" device shall be fully test run and inspected in accordance with the site operating manual to ensure that it is in safe working condition. In accordance with the Operation and Maintenance Manual, the daily maintenance items listed under Elastics, Ropes, Harnesses and Structure shall be strictly adhered to;
15. that the Winch Operator and attendants shall have an unobstructed view of the operation at all times and shall be in the immediate vicinity of the operating controls during operation. No other person shall be permitted to interfere with the controls during operation;
16. that further to the stipulated requirements of the site operating manual, any persons impaired by alcohol or drugs shall not be permitted to participant in the "BUNGY TRAMPOLINE" device;
17. that all participants must have a **minimum** bodyweight of 10kg. Proof of weight shall be checked using an accurate means of weight measurement scales where the participant's minimum weight may be questionable. A prominent sign shall be conspicuously displayed to this effect;
18. that entry to and exit from the main loading/unloading zone shall be carried out from one fixed control point;
19. that the bungee trampoline structure shall be erected so that there is a minimum clearance of at least 9 metres away from any form of electric lines, be it overhead or otherwise. This shall include provision for any other moving part of the activity, including participants, to meet this minimum clearance of 9 metres. Furthermore, compliance with the relevant provisions of the Electricity (Safety) Regulations 2010 and standard AS/NZS 3002:2008 shall be adhered to at all times. The Owner of the "4-WAY MOBILE BUNGEE TRAMPOLINE" shall seek the advice of the electrical line owner (or WorkSafe New Zealand, Energy Safety electrical inspectors) be it in an advisory or regulatory capacity, prior to installing and/or setting up the "4-WAY MOBILE BUNGEE TRAMPOLINE" operation;




Inspector of Machinery

Continued.../

THE FOLLOWING CONDITIONS ARE SPECIFIED BY THE EXAMINING ENGINEER – continued

20. that further to the relevant itemised procedural requirements contained in any of the documents listed above (refer to condition number 9), the Operator shall provide an adequate level of supervision during loading and unloading procedures. This would include checking prior to commencement that : -
 - a) nobody shall be permitted to stand near the loading and unloading zones before the "4-WAY MOBILE BUNGEE TRAMPOLINE" device is operated, and
 - b) any participant who does not meet the minimum bodyweight criteria of 10kg (as per condition number 17 above), shall be strictly forbidden to attempt this activity, and
 - c) **each** participant shall be thoroughly checked out to ensure that any long hair and loose or baggy clothing (e.g. scarves, hair ribbons, etc.) are either suitably confined, secured, contained, or removed, and
 - d) any loose items or articles (e.g. footwear, handbags, jewellery, camera equipment, and the like, etc.) shall not be permitted with the rider, and
 - e) **each** rider shall be properly positioned with the body harness correctly positioned, adjusted and securely fastened in place, and
 - f) any person found not to be of sufficient age/height/weight to be safely and properly contained by the harness/apparatus shall not be permitted to participate and that all participants are informed of these requirements, and
 - g) **each** passenger shall be fully and clearly instructed to remain in the correct position (as instructed) for the duration of the activity;
21. that a conspicuous sign/pictograph shall be prominently displayed stating all of the conditions listed in condition number [20] above;
22. that all equipment and fittings associated with the "4-WAY MOBILE BUNGEE TRAMPOLINE" device activity shall be strictly maintained in accordance with the manufacturer's design specifications and requirements, and any other stipulated recommendations and/or requirements;
23. that the "4-WAY MOBILE BUNGEE TRAMPOLINE" activity and all associated equipment used in connection therewith, that may have any dangerous moving components and parts, must be fitted with adequate and suitable safety guard/s that effectively fully encloses and encapsulates any or all moving components with the potential to be a risk or hazard, and with which participants may come into contact with. This shall include any moving parts of the drive motor (motive power unit), winch equipment, cable/rope drums, etc.;
24. that further to any fencing specifications that may be stipulated elsewhere, peripheral fence-barriers shall be maintained in place at all times to the satisfaction of Local Authority requirements and/or any applicable by-laws, to effectively prevent public access to the device activity and its defined "area of operation";
25. that an approved "back-up" system shall be provided for immediate assistance in the event of the winch and any of the related equipment used in connection therewith either failing or breaking down. In the event of equipment failure (viz. loss of motive power, winch malfunction, etc.) where participants could be left "suspended", the Owner shall provide a suitable and approved means of a back-up system capable of being implemented without undue delay. This would include: -
 - a) having an auxiliary motive power (viz. a secondary prime mover unit) that can be readily adapted and/or connected to the main winch to safely lower the participant by controlled means; or


Inspector of Machinery

Continued.../

THE FOLLOWING CONDITIONS ARE SPECIFIED BY THE EXAMINING ENGINEER – continued

Condition 25 continued

- b) having a manual cranking mechanism that can be readily adapted and/or connected to the main winch to safely lower the participant by controlled means; or
 - c) having an alternative method of safely controlling the lowering of the elevated participant by such a means that is duly recognised/approved by a recognised authority (viz. Examining Engineer, NZ Fire Service, Standards NZ, WorkSafe NZ, etc.);
26. that further to condition number [25], the back-up equipment shall be checked and tested prior to each day's operation;
27. that programmed maintenance shall be carried out to prevent breakdown of any equipment;
28. that further to condition number [19], the Owner shall fully comply at all times with Local Authority requirements in respect to site location (sufficient clearance between any part of the device and any fixed or moving objects in its vicinity, as per Amusement Devices Regulation 11[3b]), noise levels, spectator control fence/barriers and any other relevant by-laws considered applicable to the "4-WAY MOBILE BUNGEE TRAMPOLINE" device activity;
29. that all power leads to the device shall be adequately protected and the power supply shall be transmitted via approved methods, viz. an isolating transformer or residual current device (rcd);
30. that no form of "stunting" shall be permitted under any circumstances. The trajectory of the participant must at all times be carried out in accordance with the requirements of the Operation and Maintenance Manual;
31. that all equipment and fittings associated with the "4-WAY MOBILE BUNGEE TRAMPOLINE" device activity shall be strictly maintained in accordance with the design specifications and requirements, and/or as stipulated in the Operations and Maintenance Manual;
32. that the Operator shall carry out regular checks to the "4-WAY MOBILE BUNGEE TRAMPOLINE" equipment to ensure that no damage, sharp objects, protrusions, etc., can cause any harm or injury to riders. All parts of the "4-WAY MOBILE BUNGEE TRAMPOLINE" device with which a rider may come into contact with shall be smooth, free from sharp, rough, or splintered edges and corners, and with no protruding studs, bolts, screws, or other projections. Should any of this equipment become damaged during operation, then operation of the "4-WAY MOBILE BUNGEE TRAMPOLINE" device shall be discontinued until such time as satisfactory repairs have been completed;
33. that where any parts are to be replaced, replacement components shall be original equipment supplied by the manufacturer or his agent. When assembling the trampoline ensure that all pins are retained by the ring clip or R-clip as appropriate. As the device may be left in an unenclosed or unlockable area, the Operator shall check all joints subject to possible vandalism prior to operating the device;
34. that the "4-WAY MOBILE BUNGEE TRAMPOLINE" shall meet the approval requirements of any other Authority (i.e. Local and/or Regional) or Agency (i.e. NZ Fire Service, etc.) which may have relevance, be it in an advisory and/or regulatory capacity;
35. that all components shall be maintained within Safe Tolerance of Original Equipment Manufacturer (OEM) specifications at all times;



Inspector of Machinery

Continued.../

THE FOLLOWING CONDITIONS ARE SPECIFIED BY THE EXAMINING ENGINEER – continued

36. that prior to carrying passengers each day, all load bearing components are inspected for any defects (e.g., deformed, cracked or bent parts due to overload, vandalism, fatigue, abuse etc.). If any defects are found, the device shall be removed from service until repaired and certified under supervision by the Certifying Engineer;
37. that this Certificate expires 10 November 2019.

PHOTOGRAPH OF “4-WAY BUNGY TRAMPOLINE” AMUSEMENT DEVICE REGISTRATION NUMBER 1232



M. H. Shaw

Inspector of Machinery