

# CERTIFICATE OF EXAMINATION OF AMUSEMENT DEVICE

Amusement Devices Regulations 1978



I, Neil James ROGERS

a chartered professional engineer (as defined in section 6 of the Chartered Professional Engineers of New Zealand Act 2002) with a qualification in mechanical engineering, hereby certify that the amusement device hereinafter described can, subject to the conditions and requirements (if any) hereinafter set out, be erected and operated without danger to persons operating or using it or in its vicinity.

## Description of Device - Registration No: 1262

Freefall Xtreme - vertical open wind tunnel for body flying to simulate the freefall experience of skydiving. A vertical axis fan is driven via right angle gearbox by a large diesel engine. Air is drawn in at the base of the structure and passes through the fan. After several layers of safety, flow correction and noise control screens the air stream emerges at the top of the device. Patrons enter the air stream, with the assistance of two attendants, to eventually "fly" whilst being supported in free space by the air stream. Patrons can learn to control their own movements during flight by adjusting the posture of their limbs and body. The flying zone is surrounded by an inflatable cushion to protect patrons in the event of a fall. There are at least three effective barriers between the flight zone and the fan. This device is owned and operated by Velocity Valley, 1335 Paradise Valley Rd, Ngongotaha, Rotorua.

This device is rated Class 2 in accordance with Table 2.1 of AS3533.1:2009, as per attached analysis.



## Conditions and Requirements

1. Maximum safe operating speed: 2100 rpm engine speed.
  2. Maximum safe operating load: One person of maximum body mass 150 kg.
- plus additional Conditions of Operation numbered 3 to 19 on three following pages.

Dated at Tauranga this 15th day of September 2018.

Signature:

Address: PO Box 2414, Tauranga 3140

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