



K2 Tower Risk Assessment

RISK ASSESSMENT SHEET				Serial No:
Department:		Date Of Assessment: 29/7/06		
Section: "K2" 24ft mobile Climbing Tower		Assessment carried out by: Lee Burnside		
Hazards/Issues Identified	Persons At Risk	Existing Controls/Precautions	Estimation of Risk Hi/Med/Low	Further Controls/precautions Necessary (include action taken)
CLIMBING				
Auto Belay Failure		Systems checked and signed off prior to opening. Weight restrictions for climbers between 3 and 17 stones in place. Daily pre-opening checks in place and staff fully trained.	Low	
Climbing rope becoming tangled during climb		Auto Belay system controls the slack during climb and descent. Pre-opening check to confirm correct functioning before use including sheave block and bolt integrity. Staff trained to check for tension on cable before each climber begins climb.	Low	
Climber harnessed incorrectly		All staff operating attraction are fully trained and signed off by an authorised assessor. Second person supervising climb checks harness before climb commences	Low	
Climber exceeding recommended height		All climbers are supervised and coached by second harnesser.	Low	

Injury during ascent		All climbers are briefed by trained staff before climb commences	Low	
Injury during descent		Auto Belay system will prevent a fall. Continuous safety matting of 25mm dense rubber foam provided at base of wall to prevent injury while landing. Each auto-belay to be primed before opening.	Low	Additional matting
Injury as a result of improper behaviour e.g. swinging, jumping.		All climbers briefed by harness team and supervised while climbing	Low	
Climber landing on individual on descent		Whole area of the wall is barriered off providing a safe and controlled area. Excluding harnessing staff only four people are allowed with this area at a time, one per wall.	Low	
Climber hitting barriers on descent		Barriers are at least 3.4 meters from the wall face as recommended in ADIPS report.	Low	
Risk of head injury		Requirement for safety helmets ceased if a high quality of supervision and briefing is provided	Low	Briefing on controlled descent to all climbers.
Risk of slipping due to loose hand holds		All hand holds checked and tightened by Technical Services prior to opening.	Low	
Risk of injury due to slipping		Operation closed down during wet weather.	Low	
Climber hitting trailer while descending		Stabilising jacks within 2.4meters directly below Belay system are fitted with padding	Low	
Wall being lowered while being used		Remote control is removed and locked in storage unit until it is time to lower the wall, key held by an authorised operator.	Low	
TOWING				
Trailer becoming while towing		Towing can only be carried out by employee's authorised through security to use company vehicle and trained on how to correctly attach trailer.	Low	

Trailer becoming free while towing		Tow hitch locking mechanism, Chain attached to trailer and vehicle. Automatic breaking mechanism incorporated should trailer become detached from vehicle	Low	
Wall raising while in transit		Climbing wall secured to trailer by a tie down nylon strap and hydraulic rams.	Low	
Risk of wall toppling		Staff trained through manufacturer on how to position and erect wall correctly with use of extendable jacks or ballasted weights as recommended.	Low	
		Wind speed monitored.	Low	
Siting the wall				
Injury while siting		Attraction will only be positioned when the park is closed or in a safe area fenced off from the public by a specified team trained to do so.	Low	
Injury during set up		All staff involved must be supervised by a person who has received training from the manufacturer. All staff and public to keep clear	Low	
Risk of injury while raising wall		Remote control device is stored in locked storage, key held by authorised operator	Low	
Lowering the wall				
Injury while removing		Attraction will only be lowered in a fenced area or repositioned during times that a specified team closes the park and by staff trained to do so.	Low	
Injury lowering the wall		All staff involved must be supervised by a person who has received training from the manufacturer	Low	
Risk of injury while lowering wall		Remote control device is stored in locked storage, key held by authorised operator	Low	

Preventative Maintenance				
Failure of Belay cables		All cables checked on a daily basis before opening by Technical Services for wear, frays and kinks. All cables and other wear items to be replaced annually plus annual service and check.	Low	
Hydraulic failure		Whole system checked and primed by Technical Services prior to opening.	Low	
Harness and other climbing hardware failing	Staff and guests	Signed off by Technical Services. Staff training. Daily log book. All critical parts replaced annually.	Low	