



AH-64 Apache, Tiger, Bell Viper 412

Rotor Diameter: 13m to 14.63m: 43' to 48'

LZ Size: 4 x 4 segments: 24.4m x 24.4m: 80' x 80'*

Cgear Australia has designed and patented the only Lightweight Helicopter Landing Zone (LZ) that eliminates "Brownout" resulting in maintenance savings of greater than 90% when landing in desert conditions.

The LZ has been designed to be configurable to suit all size helicopters.

The LZ should be a minimum of 4 metres: 13 feet greater than the rotor diameter of any helicopter to prevent "Brownout", covering the Vortex downwash that causes the "Brownout" issues.

The Cgear LZ has been in use since 2006 in Iraq, where the US Marines deployed over 6 million square feet of LZ's. It is also in use by the British and Australian Armies. LZ's are configured using segments that measure 6.1m x 6.1m: 20' x 20' and weigh less than 21.5 kgs: 47lbs. Configurations of 2 x 2, 3 x 3, 4 x 4, 5 x 5, 6 x 6, 7 x 7.

Product Capabilities

- Eliminates "Brownout" completely
- Reduces maintenance caused by desert landings and take offs by over 90%, with payback on purchase price of less than 4 weeks with continual landing on sand
- Increases time over target (TOT) of fleet with a "virtual" increase in fleet size by 30% as helicopters not down being repaired
- **Night Vision (NV)** capable from 1 km with NV Goggles
- Extreme Light Weight (less than 400kgs: 880lbs for a complete LZ)
- Deployed in less than 60 mins by 8 trained personnel
- Lifted in less than 60 minutes by 8 trained personnel
- UV protection for 10 years
- Material has rip stop technology, so any hole does not increase in size
- Very low cost compared to heavy weight LZ competitors
- HLZ are MOT and LZ's are available for immediate delivery
- NV LZ NSN: 1710-66-159-6469
- Green LZ NSN: 1560-01-555-9744
- Repair Kit NSN: 1710-66-159-6472

Technical Specifications

- Hand made using 220gsm HDPE mesh, using UV stabilised resin
- Each segment has two layers of mesh to enable "brown out" prevention
- Ripstop technology preventing any tears enlarging, impervious to petro chemical spills
- Segment size is 6.1m x 6.1m (37.21 sqm) : 20' x 20' (400sq')
- Segments are joined with US spec Velcro with 545kg (1200lbs) lateral breaking strength
- Velcro joins are reinforced by 4 connecting straps that have 280kg (616lbs) breaking strength
- Segment weight is 21.5kg (47lbs) with 16 drings used for pegging down
- Night Vision(NV) capable from 1km (1600')

Equipment Required

- 18 segments (2 spare),
- 61 peg combo
- 61 straps, 1 repair kit
- 3.9 cbm/139cbf

Cost of Helo vs LZs

| | | |
|--------|----|------------|
| Apache | vs | 750 |
| Tiger | vs | 850 |
| Viper | vs | 660 |
| | | 412 vs 150 |

*LZ minimum size required to prevent "Brownout" by segments