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Hi-Nets  
(a division of AJW Construction Ltd)

## Hi-Nets Ballstop Fencing System Specification

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### General Specification:

Hi-nets Ballstop fence system is designed from the ground up to perform in all topographical situations to give a low maintenance and cost effective solution to ball containment.

Latticework towers are used as support structures for rigidity and aesthetics, tower heights range from 5 metres to 35 metres and tower spacings from 20 linear metres to 35 linear metres.

Net Panels are designed specifically for the towers, with an intergrated fixing system to towers along with pre stretched rope built into the nets as horizontal supports to aid with the dynamic performance and longevity.

Net panels are designed to release at a loading approximately equivilant to wind speed of 90mph to protect the supporting steelwork.

The fence design is underwritten by structural engineers who specialize in steel lattice structures and catenary cabling.

### Steel tower Specification:

Galvanized latticework supports are fabricated from high yield hot rolled steel tube (S355) And bolted to galvanised stubs set into concrete foundations.

Tower sections are fabricated in 5m lengths (for ease of Transportation)

Maximum towers spacings for specific heights.

5m to 20m high fence = up to 35m spacings

25m to 30m high fence = up to 30m spacings

35m high fence = up to 20m spacings

Steelwork Design Life = 40 years

### Foundation Specifications:

Excavated Foundation bases to take concrete and steel stub, ground impaction at base of foundation to take a maximum of 150kN/m<sup>2</sup> ground pressure bearing.

Concrete to be C40 grade with A393 reinforcing mesh sheets.

Foundations are designed on mass only so can be installed above gorund if needed.

(continued)

**Net Specification:**

Net: black knotted 10/12 construction HDPE ultra violet stabilised twine, with mesh size of 28mm, border corded around perimeter and with support ropes stitched in.

The twine is made up from 430 denier monofilament HDPE it is then twisted x 4 then x 3 strands to make a finished twine that is approximately 1.1mm in diameter with a breaking force of 28kg to ISO1805.

Support Ropes: Pre-stretched 14mm polyester.

Cable to be 7/8mm 7/7 construction high tensile and galvanized, Cable ties to be T50s and T120i with UV stabilizer.

Net Panels made to fit between steel towers with horizontal ropes attached at 5m centres vertically. Nets are installed between the towers on a halyard and pulley system and have built in fuses to which enables the net panels to release from towers in extreme weather conditions (this is to steel towers form damage) the nets can also be lowered for maintenance at a later date if needed and repaired or replaced.

Net, fixtures and fittings design life = 10 years