TSS Vertifan
Protection Screen System
www.tss-me.com
TSS Vertifan

TSS Vertifan option one could be described as an evolution of the TSS traditional Safety Net Fan Solution. The safety net fan requirement has grown and is now recognized by many major contractors and authorities as a must have safety solution. The Vertifan demonstrates a major step forward for our clients, with this particular product development.

Designed as a one piece self climbing unit, the Vertifan comes complete with double layer vertical netting as well as Safety Net Fan, fully compliant with European Standard EN-1263-2 Type T, using 60 x 60 and 20 x 20 double layered nets. The netting provides for the full vertical barrier at the building perimeter as well as horizontal protection with the safety net fan.

- Lightweight (All Aluminium System) efficient engineering
- Self Climbing, therefore crane independent
- Integral Safety Net Fan attachment to catch any falling materials
- Full Vertical floor to floor height protection, double layer safety netting + hand railing
- Much closer positioning of fans under slab formwork
- Full vertical protection for follow on trades, e.g perimeter blockwork, temporary edge protection installation
TSS Vertifan

TSS Vertifan option two is a robust perimeter edge protection system which provides full height floor to floor edge protection, in conjunction with the single working platform at the top and the fully integrated extra wide safety fan.

The system has been designed to provide the working platform at the top as a mechanism to replace the high risk activity of formwork erection and dismantle around the perimeter of the building.

- Lightweight (All Aluminium System) efficient engineering
- Self Climbing, therefore crane independent
- Integral Safety Net Fan attachment to catch any falling materials
- Full Vertical floor to floor height protection, double layer safety netting + hand railing
- Top working platform to facilitate slab formwork operation or post tensioning
- Movement of vertifan in tandem with slab formwork
System Information T1F2

Type 1 Screen
2 Floors Protection Provided

Overlap Min. 0.75m to Max. 1.00m
System Information T1F3

Needle Slab Attachment

The NEEDLE slab attachments are the main supporting mechanism for the TSS Vertifan units, in terms of connection and vertical movement along the building facade. Integrated with the aluminium spine beam channels, the needles allow for, fixed positioning, vertical and horizontal adjustment controlled movement of Vertifan from slab to slab.

- Robust mechanical connection to slabs
- Safety click hook to allow the Vertifan to travel vertically while ensuring the units cannot drop down
- Guided rollers for controlled movement
- Swing arms which aid ease of installation of the vertifan into the needles during erection
- Attachment points for the electric lifting cobra frame
- Facility for cast-in anchor or post-fixed anchor, during installation
The cobra hoist lifting system is the innovative mechanism for lifting the vertifan units vertically from one floor to the next.

The main purpose of the lifting system is to provide a safety edge enclosure system which can be 100% crane independent during re-positioning.

The cobra hoist has been designed to fit onto the slab needle attachment at the upper levels, ensuring a robust connection of the units to the floor slab.

The system comes complete with a pair of electric motors which are controlled together by a pair of hand held remotes.
System Information T2F3

Type 2 Screen
1 Top Platform
3 Floors Protection Provided

Overlap Min. 0.75m to Max. 1.00m
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