

## **Nozzle Placement Design Criteria**

**Test Method DFL170213-1261-7**

**Test Series 4 - Local protection mechanical machines**

## Nozzle placement design criteria

The nozzle placement design criteria described in this document has been concluded during the tests in Test method DFL170213-1261-7, Test series 4 – Local protection of mechanical machines. For technical details of the nozzle, see Product data sheet PD-24691-WNFPK6.

### Nozzle position: Pendent

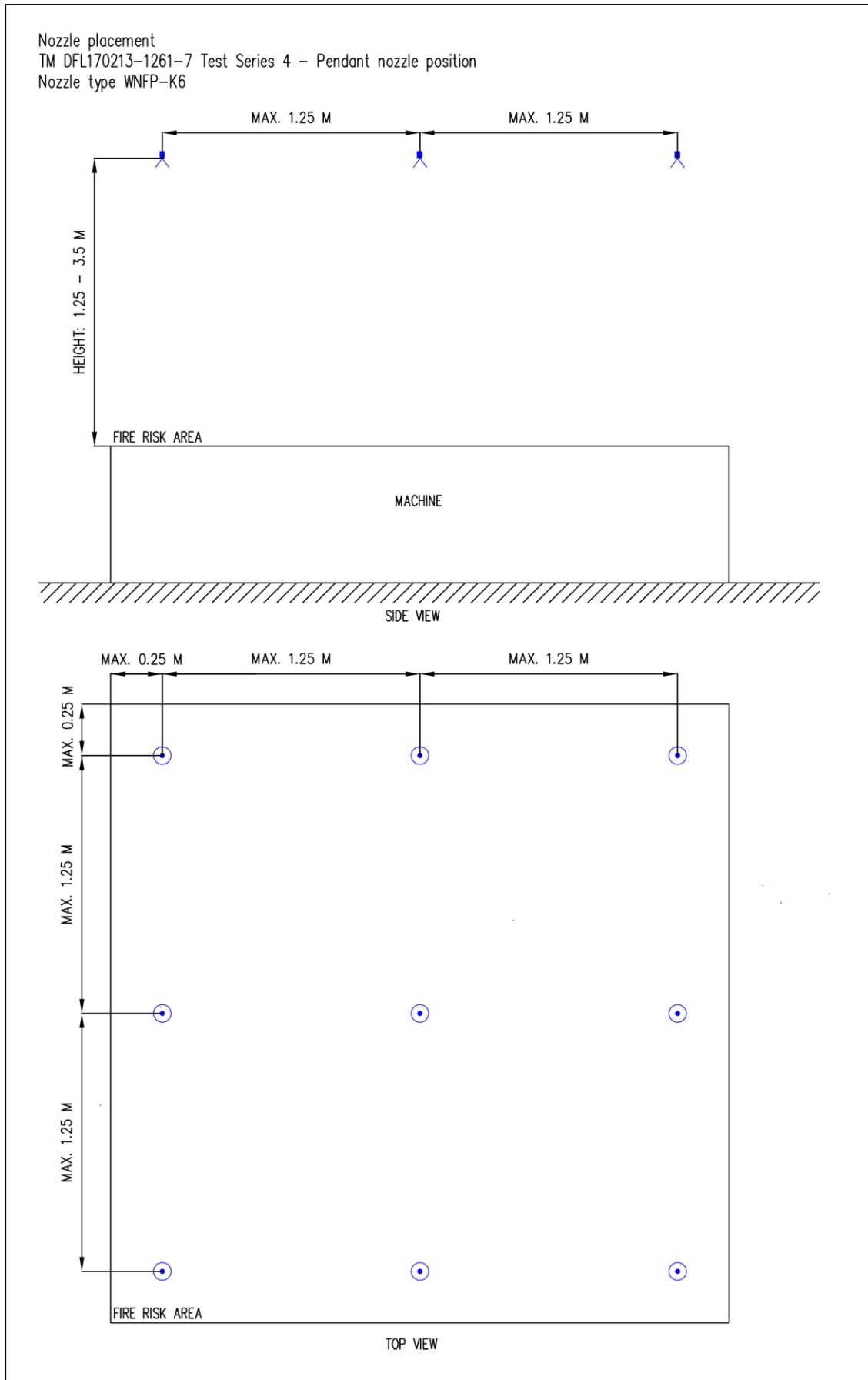
The water mist nozzles shall be positioned to cover the defined fire risk area. Max. deviation of +/- 5% from the specified nozzle height is allowed. The outermost nozzles shall be located at the boundary, or max. 0.25 meter inside the limit of the defined fire risk area. The nozzles shall be positioned so that obstruction of the spray pattern is minimized. In case of a significantly obstructed spray pattern, additional nozzles shall be used. The mist system shall consist of at least two nozzles.

Nozzle type:	WNFP-K6
Water pressure:	Min. 6 bar
Spray direction:	Vertically downwards
Nozzle height/spacing:	Height min. 1.25 – max. 3.5 m:      Spacing max. 1.25 m
Water density:	> 8.7 l/min/m <sup>2</sup>

### Nozzle position: Horizontal

The water mist nozzles shall be positioned to cover the defined fire risk area. The nozzle covers a length of 1.5 m (0.5 - 2 m in front of the nozzle) and a width of 1 m. The nozzles shall be positioned so that obstruction of the spray pattern is minimized. In case of a significantly obstructed spray pattern, additional nozzles shall be used.

Nozzle type:	WNFP-K6
Water pressure:	Min. 6 bar
Spray direction:	Horizontally
Height:	Min. 0.15 m – max. 0.65 m
Spray distance:	Min. 0.5 m – max. 2 m
Nozzle spacing:	Max. 1 m



Nozzle placement  
TM DFL170213-1261-7 Test Series 4 - Horizontal nozzle position  
Nozzle type WNFP-K6

