

TITLE:

INTERNAL ACCESS SCAFFOLDING FOR T-6960

CHECKED BY: DRAWING NO: DATE:

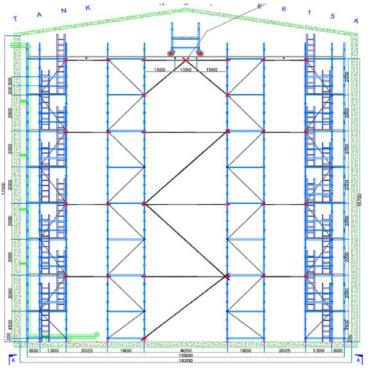
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Scaffold Design Calculations



Design Check:

Standard

(CupLock)

The total load acting in the Standard = Self Weight of Tubes, Fittings, & Boards + Live Load from working Lift above Self weight of Cuplok Tubes

Tubes	length	Nos.				Total			
Standards	16.0 m	х	1	nos.	Х	0.055 kN/m =	0.88 kN		
Ledger	1.60 m	х	20	nos.	X	0.04 kN/m =	1.28 kN	(Including Guard Rail)	
Transoms	1.30 m	х	20	nos.	Х	0.04 kN/m =	1.04 kN	(Including Guard Rail)	
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Self weight of Tubes

<u>Tubes</u>	length			Nos.	Total
Vertical Bracing	2.50 m	÷	x	7 nos. =	17.50 m
Plan Bracing	2.50 m	÷	x	8 nos. =	20.00 m
					37.50 m
					0.042 kN/m

Weight of scaffold tube per meter 0.043 kN/m 1.59 kN

Allowing 5% extra for Tube Overage, Laps & fittings

Total Load of Tubes & fitting = **1.67 kN -----** B 1.59 kN 1.050

Self weight of Planks on Fully planked levels:

Tributary area per Standard = 1.8 m x 1.3 m 2.3 m^2 = Tributary area x Self weight of the Boards x No. of Lifts Load of the Planks

> 7 nos = 2.3 m² x 0.25 kN/m² x 4.10 kN ----- C

Total Dead Load 3.20 kN + 1.67 kN + 4.10 kN = 8.97 kN (From A, B & C)

Live Load

Live Load due to Access loading

Tributary working lift area per Standard = 1.80 m x 1.30 m 2.34 m²

Access Loading 1.2 kN/m²

Total Live Load per Lift = Tributary area x Live Load per m^2 x No. of working Lifts at a time

1.2 kN/m² x 2.34 m² x 1 nos 2.81 kN