

Site Seeing



Wonderpark Estate, Pretoria



**In case of
emergency -
use the Stair Stringer 750.**

With a deteriorating staircase structure posing a significant risk to residents at the Wonderpark Estate in Pretoria, a swift solution was required to preserve the safety of the public and restore the existing buildings. Johannesburg Scaffolding were up to the task of addressing this issue but had a few specific requirements to successfully solve the challenge.

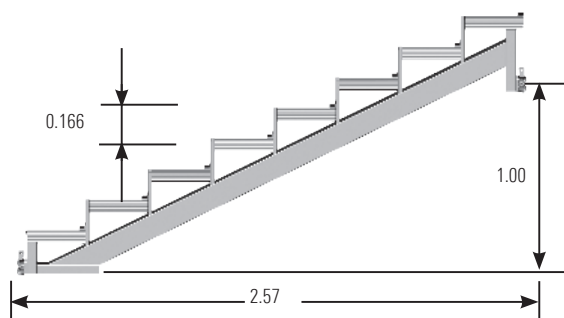
To meet these requisites, the temporary structure had to comply with SANS standards for public use. In addition, the stairs needed to be at least 1m in width and a step rise of no more than 200mm in height. The offered solution at the time did not meet any of the requirements as conventional scaffolding is limited in use and is cumbersome to work with.

Ensuring the safety in challenging situations using Layher's efficient solution, Johannesburg Scaffolding laid many concerns to rest with their quick work!

With these demands in mind, the engineers at Johannesburg Scaffolding settled with using Layher's Stair stringers to construct an emergency Stairtower. Unlike conventional scaffolding solutions, the Stairtower is a modular system that can be used alongside any length of deck, in this particular case the 1.09m steel decks were used.

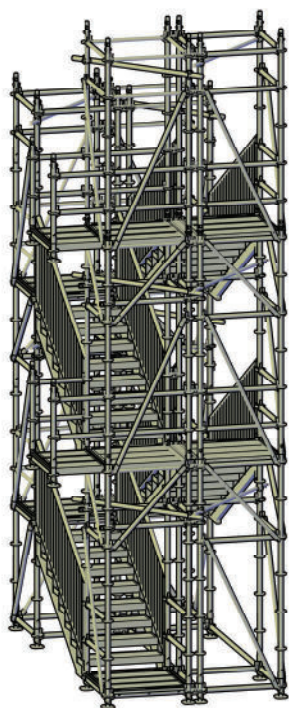
The scaffolding team of 9 were able to assemble the 3-ton structure in under 5 hours. The structure is made of hot-dip galvanized high-tensile steel which is resistant to environmental damage, and is of course - lightweight!

As part of the Allround system, the Stairtower can be designed in multiple ways to benefit the client and public due to the flexible arrangements of all parts. The size of stairs and guardrails are adjustable to suit needs that would include temporary access in construction, event planning, escape towers and for road-crossing bridges making this a truly versatile system.



Stair dimensions: Riser $r = 16.6$ cm; going $g = 31.0$ cm; overlap = 1.0 cm.

STAIR STRINGER 750



Isometric View

Manufacture starting 2012

Rectangular tube 120 x 50 x 3.0 mm

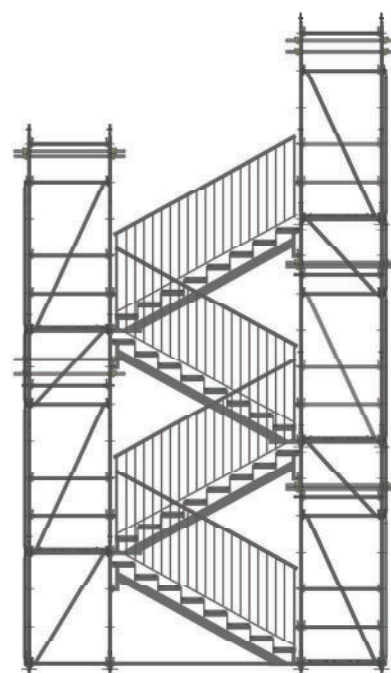
Live load of the stair stringer 750

Length of steps [m]	perm. p on the steel decks [kN/m ²]	
	Steel deck, one-sided	Steel deck, double-sided
1.09	20.5	9.9
1.40	15.7	7.6
1.57	14.0	6.8
2.07	10.5	5.0
2.57	7.5*/8.4**	4.0

* Steel decks of earlier design

** Steel decks LW

Product Information



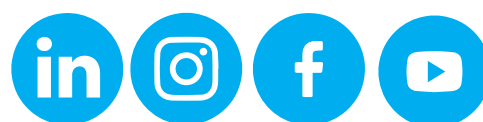
Side View

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