

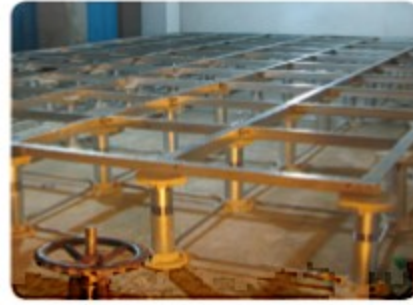
### SERIM HI-FOUNDATION Construction procedure



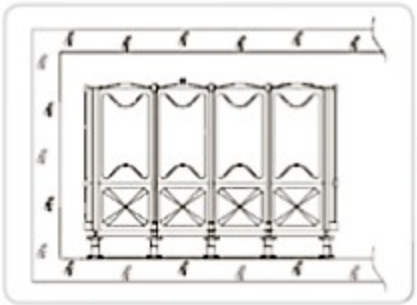
Assembly & Arrangement



Assembling Skid Base & Leveling



Assembled Skid base  
& Hi-Foundation



SERIM HI-Foundation



HiTank on HI-Foundation



Bottom panels on Skid base



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# SERIM HI-FOUNDATION

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## What is SERIM HI-FOUNDATION?

It is a foundation of a systemized water tank which consists of a steel support with adjustable rotary height, a top and a bottom plate and both ends are fixed as a linkage for each foundation.



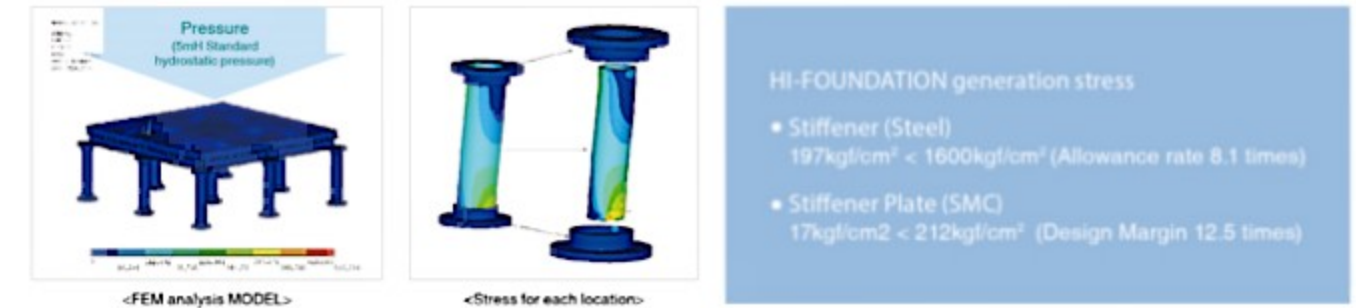
### General comparison between Concrete Foundation and Hi-Foundation

Description	Concrete Foundation	Hi-Foundation
Shape		
Pad material	Plain concrete + Steel liner	STS pipe + SMC
Build	Moulding-Concrete pouring -Curing-Mortar plaster-Curing	Bolt assembling
Leveling	Poor horizontality (Non-precise standing of skid base)	Precise horizontality (Precise standing of skid base)
Durability (Strength)	Good compression strength, but instabilities for curing, plastering & liner	Standardized Uniform Quality with more than 8times safety ratio (Ready made product)
Corrosion resistance	Rust on steel liner Concrete corrosion	No rust (Anti corrosion material)
Pad weight reduction / 300 places	165,600kg (100%)	3,600kg (2%)
Build time / 500 tons	More than 30days	Less than 3days

## Structural design and stability verification

SERIM HI-FOUNDATION is a proven product that has undergone a field test for a scientific design and compressive strength test by FEM and a 7 meter high water tank.

### FEM analysis result



### Field Test

Water height	Skid base deflection	Spec (KS Standard)
7mH	1.25mm	Less than 10.0mm

Maximum deflection 1.25mm  
(strain safety factor 8 times)



### SERIM HI-FOUNDATION Pre-fabricatd Structure

