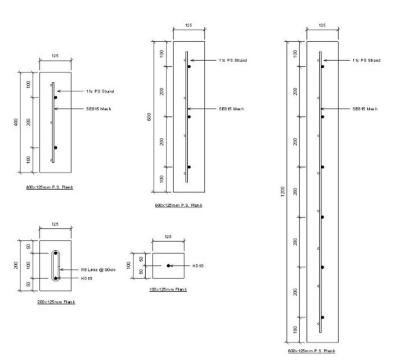
Precast Pre-Stress Concrete Planks For Retaining Walls



Precast pre-stress concrete planks for retaining walls, an alternative to traditional timber planks. These concrete planks have an impressive 100-year lifespan, outperforming timber planks. Instead of using multiple timber planks, these concrete planks provide a single solution that saves costs and construction time. No need to worry about protecting steel columns or treating timber anymore, thanks to these hassle-free concrete planks. Their flexibility in width, suitability for marine environments, and zero-end movement make them a superior choice, backed by proven resistance to weather and time, with zero losses. Elevate your retaining wall projects with the durability and efficiency of precast, pre-stressed concrete planks.



Planking Dimensions		P.S Reinf. (f'c = 50MPa) Jacking stress = 1100MPa (81.5kN/strand)			Transverse Reinf.	Maximum applied load (kPa)		
Depth	Thickness	Long Reinf.	ØMn	ØVn	SE72 Mesh	1.2	1.5	1.8
400	125	2/ 11s	10	15		62.5	50.0	41.7
600	125	3/ 11s	15	22.5				
1200	125	6/ 11s	30	45				

Planking Dimensions		Standard Reinf. (f'c = 50MPa)			Transverse Reinf.	Maximum UDL (⊘w _{uls}) for panel span in meters (kN/m /m)		
Depth	Thickness	Long Reinf.	ØMn	ØVn	SE72 Mesh	1.2	1.5	1.8
100	125	HD10	1.9	3.2	n/a	53.3	42.7	35.6
150	125	2 HD10	3.8	5	R6 @90c/c	55.6	44.4	37.0

Planks							
Туре	Depth	Thickness C/c wall span		Plank length	Weight		
	mm	mm	mm	mm	Kg		
P100	100CAP	125	1800/1750	1540	56		
P200	200	125	1800/1750	1540	115		
P400	400	125	1800/1750	1540	230		
P600	600	125	1800/1750	1540	345		
P1200	1200	125	1800/1750	1540	700		

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Concrete planks versus timber planks

Timber planks for building retaining walls have many limitations and deficiencies:

- 1. Limited life span.
- 2. Double or triple planking due to strength requirements. Cost/construction time.
- 3. Galvanised steel columns require protection due to chemical treatment leaching.
- 4. Centre to Centre limitations.
- 5. H6 timber treatment for marine locations.
- 6. Slow erection rate due to size limitations and double planking.
- 7. Plank movement at ends due to shrinkage.
- 8. Deteriorating with time.
- 9. 5% timber losses.

Precast Pre-stressed Concrete planks, we offer:

- 1. 100 years life span.
- 2. Single plank for full wall height.50MPa concrete with prestressing.
- 3. No need for any protection to concrete contact with steel columns.
- 4. 1600 mm standard C/C for steel columns and 1750-1800 mm C/C for precast column system.
- 5. Flexible plank width to fit any column centre to centre on special orders.
- 6. Normal use for marine environment.
- 7. High erection rate with variable planks heights. (1200mm/600mm/400mm/200mm/100mm)
- 8. Zero ends movement.
- 9. Proved concrete resistance to weather and time.
- 10. Zero losses.

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