

PRE-STRESSING & POST TENSIONING SYSTEMS

Since 2015

POST TENSIONED MONO STRAND SYSTEM

Our Company provides extensive services for the construction of post tensioned slab systems covering the following scopes:

- Project Feasibility study for post tension application
- Preliminary design & cost estimation
- Final design & shop/ working drawings
- Complete supply & installation of post tensioning systems
- Complete services for formwork set up, reinforcement fixing, concreting & post tensioning installation of slab structures



Applications

The use of post tensioned slab systems has been consistently growing in the recent years.

Typical applications have been:

- Private residential housing
- Offices
- Car parks
- Shopping centres
- Hospitals
- Hotels & apartments
- Industrial buildings
- Transverse prestressing of bridge deck slabs

Advantages of PTSS

The main advantages of post tensioned slab over conventional reinforced concrete slab,

May be summarised as follows:

- Increase clear spans
- Thinner slabs
- Lighter structures
- Reduced cracking & deflections
- Reduced storey height
- Rapid construction
- Better water tightness

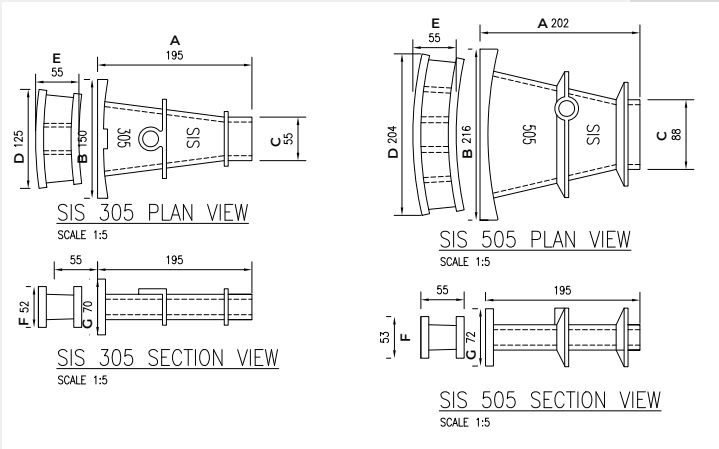
These advantages can result in significant savings in overall costs. There are also some situations where the height of the building is limited, in which the reduced storey height has allowed additional storeys to be constructed within the building envelope.



SIS

PRE-STRESSED ANCHORAGE SYSTEM

SIS Prestressed Anchorage System is normally adopted for bonded system. The strands are individually gripped by wedges inside the anchor block and transmit the tendon forces to the flat anchor plate casting unit. The strands are stressed individually by means of a mono strand jack. The strands are contained in the flat duct which is made of corrugated galvanized metal. To ensure corrosion protection and to give adequate bond strength, the tendons are filled with suitable cement grout mix after complete stressing of the tendon.

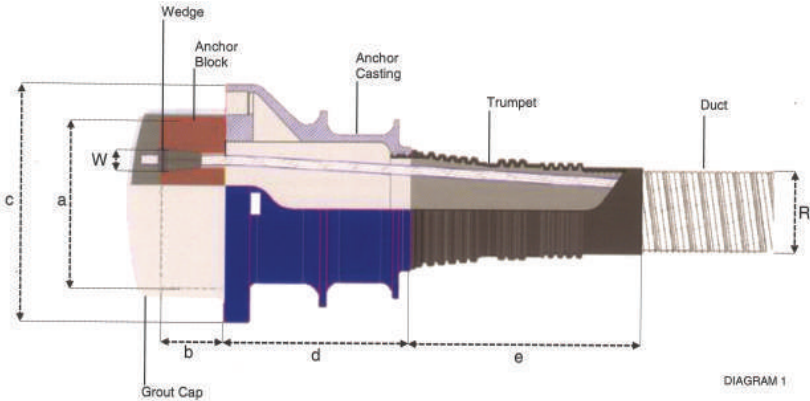


Strand Type	Anchor Head Type	Anchor Plate Type	A mm	B mm	C mm	D mm	E mm	F mm	G mm	Duct Size ID mm
0.5 in (12.7mm/ 12.9mm)	SIS-305	SIS-305/206	195	150	55	125	55	52	70	20x50
	SIS-505	SIS-505/406	202	216	88	204	55	53	72	20x70
0.6 in (15.2mm/ 15.9mm)	SIS-206	SIS-305/206	195	150	55	125	55	52	70	20x60
	SIS-306	SIS-405/306	202	216	88	204	55	53	72	20X70
	SIS-406	SIS-505/406	202	216	88	204	55	53	72	20x70

Post Tensioned Mono Strand System



POST TENSIONED MULTISTRAND SYSTEM



MULTISTRAND SYSTEM		1205 /706	1805 /1206	1506	1906	2206	2706	3106
Anchor Block	a Diameter	125	170	190	200	230	250	260
	b Length	45	55	60	65	70	85	90
Anchor Casting	c Diameter	180	220	250	270	300	330	336
	d Length	160	190	220	220	240	275	310
Trumpet	e Length	65	180	210	225	275	275	275
Duct	R Internalø	55	75	80	90	100	110	115
Wedges	W Diameter	28	28	28	28	28	28	28

Refer to DIAGRAM 1.
Dimension in millimeters unless otherwise stated



WE BUILD A SUSTAINABLE FUTURE



SIS INTEGRATED

Sdn. Bhd.



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