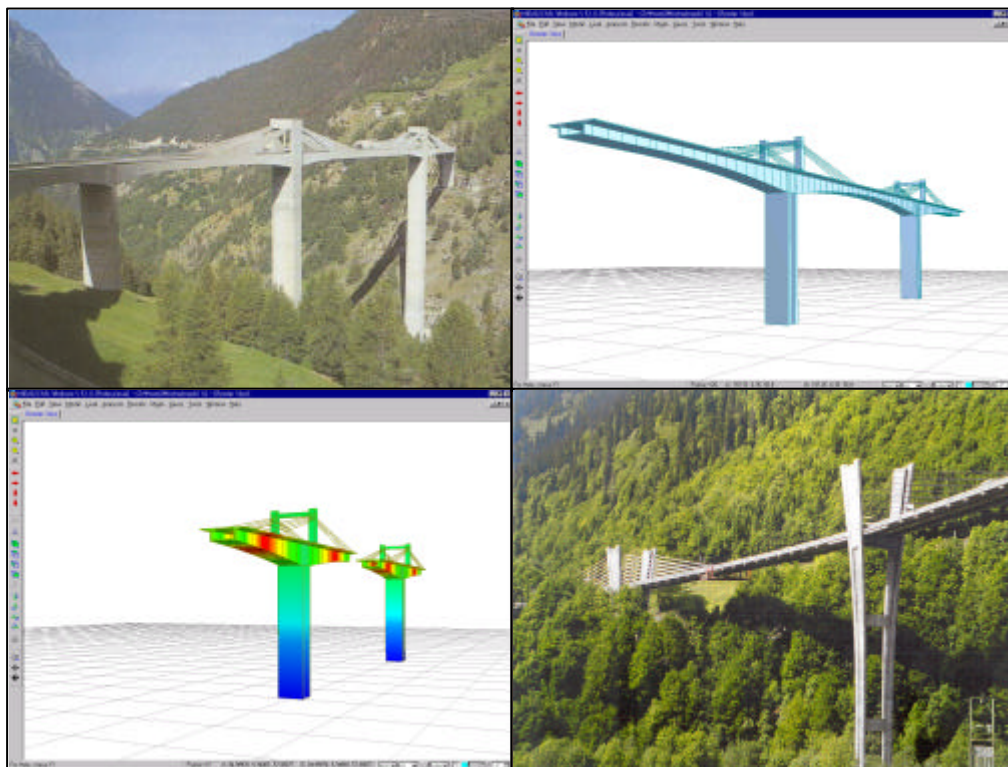


EXTRADOSED PSC



- 1.
2. EXTRADOSED PSC
3. EXTRADOSED PSC
4. EXTRADOSED PSC

EXTRADOSED PSC

1.

PSC

가

100~200m

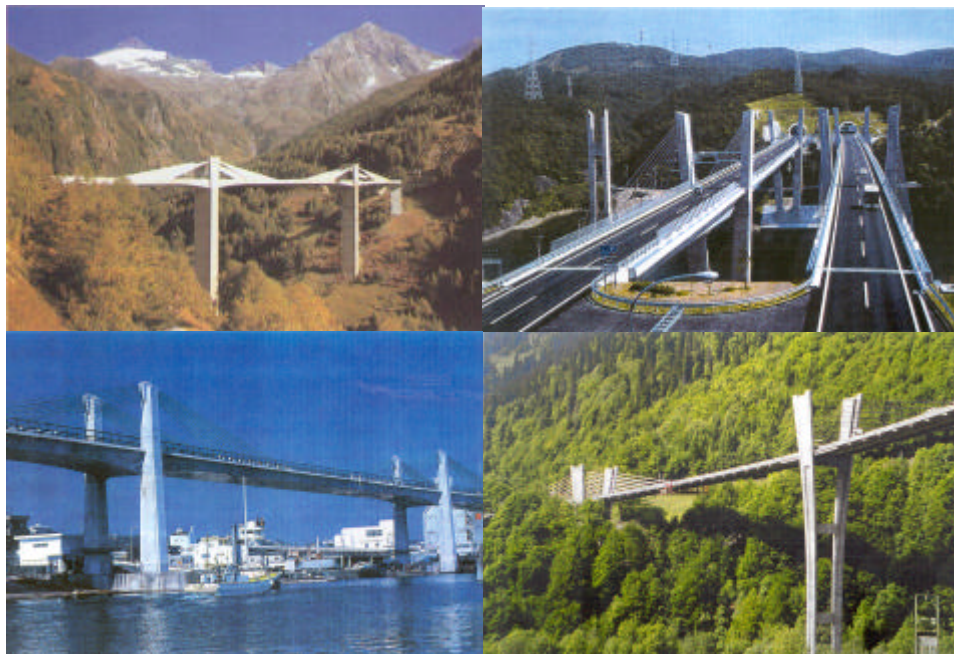
가

가

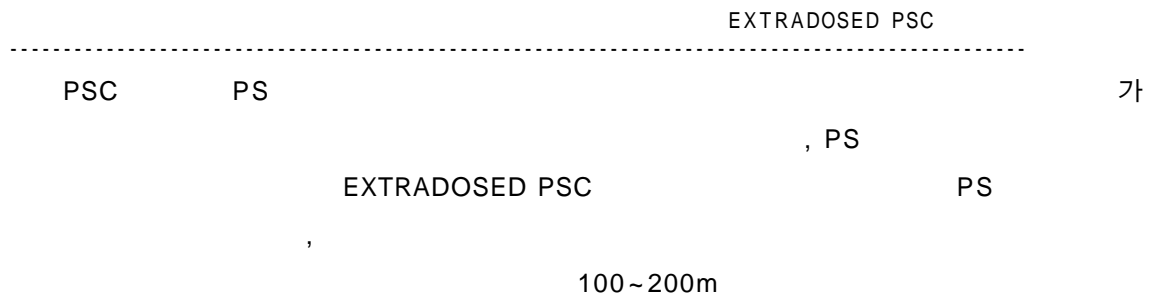
100m

PSC

EXTRADOSED PSC 가



1. EXTRADOSED PSC



2. EXTRADOSED PSC

2.1

EXTRADOSED “ ” 1988 Jacques Mathivat
(External prestressing)

(Internal prestressing) PSC PSC Beam Box

, 가 .

, , , , .
3

1) 가
가 .

2) 가 .

3) .

EXTRADOSED PSC 가 .

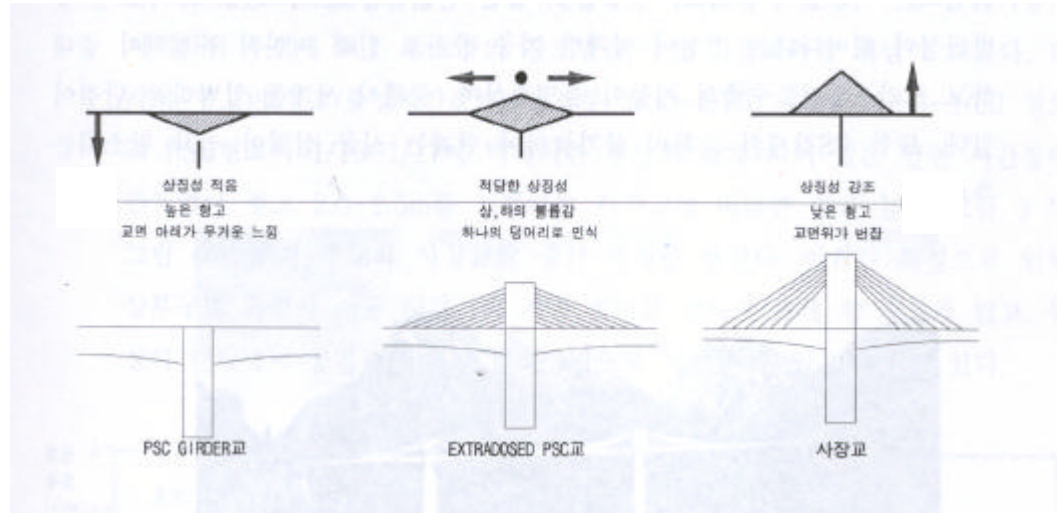
2.2 EXTRADOSED PSC

EXTRADOSED PSC

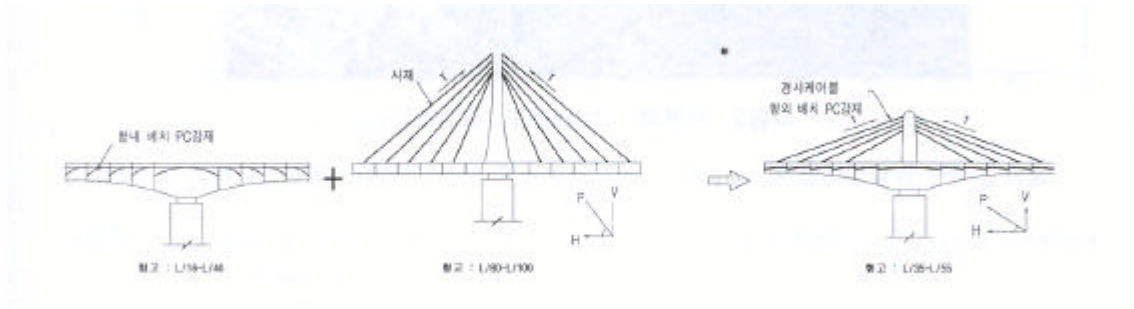
(Deviator)

2

3



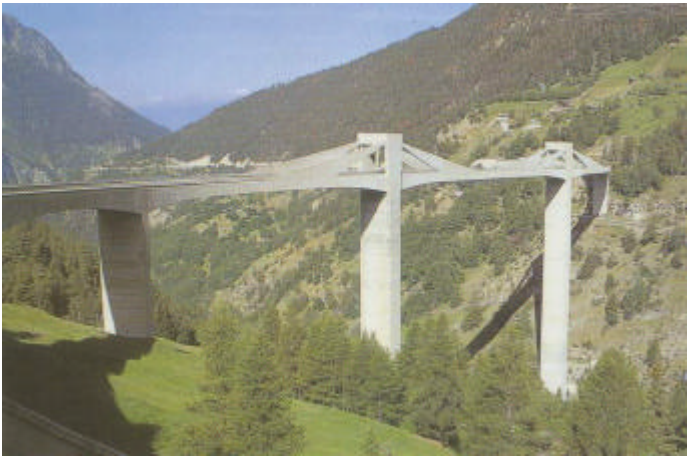
2. EXTRADOSED PSC



3. EXTRADOSED PSC

2.3 EXTRADOSED PSC

EXTRADOSED PSC (, 3)
(, 4) EXTRADOSED PSC
Ganter ,
 ,
 ,
 가
 , PS
 가 .



4. (Ganter ,)



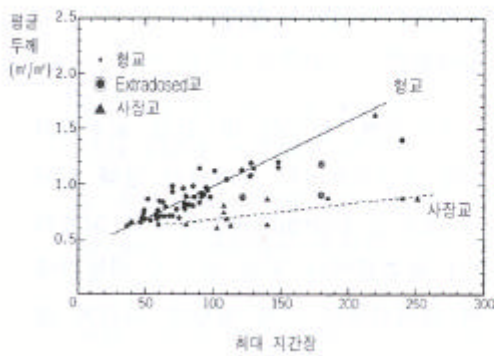
5. (,)

3. EXTRADOSED PSC

3.1

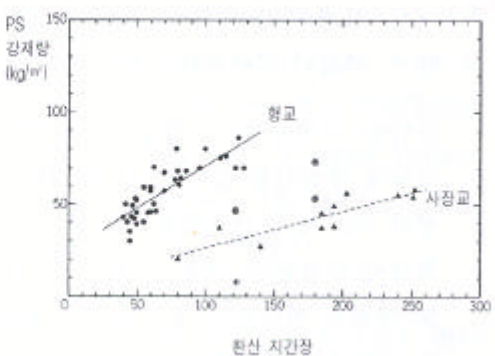
EXTRADOSED PSC

가 1/30~1/35, 1/50~1/60 PSC 1/15~1/17 2.0~2.5m 5 6 가 가 , .



6.

: 3 3



6.

PS

, 2 1.8

(Slender)

EXTRADOSED PSC

3.2

EXTRADOSED PSC (/) 1/8~1/12 1/5

.

EXTRADOSED

PSC .

가 EXTRADOSED PSC .

1)

가 , 가

. 가

2)

.

3)

4)

.

,

가

EXTRADOSED PSC . ,

.

V ,

가 가

.

V .

3.3

EXTRADOSED PSC

$1.67(0.6f_{pu}) \quad 2.5(0.4f_{pu})$

가 . , EXTRADOSED PSC PS , 2 ,

EXTRADOSED PSC

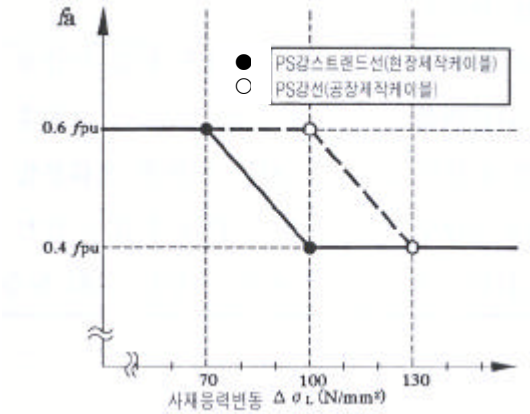
EXTRADOSED PSC

β (/) , Extradosed 30% , 5kg/mm^2
Extradosed CEB - FIP
 8kg/mm^2 , 7kg/mm^2 P.S
 $0.6f_{pu}$, Extradosed
 $0.4f_{pu}$, Extradosed



7

EXTRADOSED

PSC



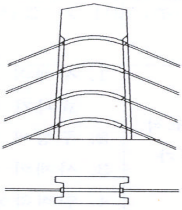
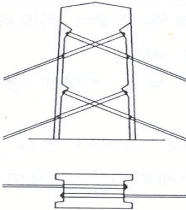
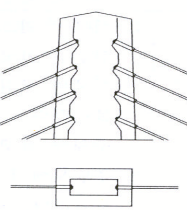
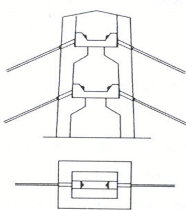
3.4

	<div>1</div> <div>2</div> <div>2가</div> <div>< 1></div>	<div>, ,</div> <div>. EXTRADOSED PSC</div> <div>.</div>
< 1>	(Fan)	(Harp)
		
가	<div>1.</div> <div>2. 가</div> <div>3.</div>	<div>1. 가</div> <div>2.</div> <div>3. 가</div>
가	<div>1. 가</div> <div>2.</div> <div>3.</div> <div>4.</div>	<div>1.</div> <div>2.</div> <div>3.</div>

3.5

가 가 , , 가 가 가 가 (Saddle) RC 가 , 가 가 가

< 2>

				
	strand	Gap	P.S	Beam

3.6

가 . 1 , , PE
FRP .
 ,
 . 2
 , ,
 .
 , PE FRP
가 ,
 1
가

4. EXTRADOSED PSC

EXTRADOSED PSC

< 3> .

< 3> EXTRADOSED PSC

		Extradosed	
		Skarnsundet (,1991) 530m	木曾川橋(,2000) 275m
		가 2.0~2.5m ,	가L/30~L/35(), L/50~L/60 ()
		L/3~L/5	L/8~L/15

			Extradosed
		가 5~13 kg/mm ² f _{fa} = 0.4 f _{pu}	가 1.5~3.8 kg/mm ² f _{fa} = 0.6 f _{pu} Relaxation
		가 가 Form	가 Form
		가	
		가	가 가
		가 (300 ~4000 /) 가 가	가 P.S (2000~3000 /) 가
		가 가	가 가