

# SUSPENDED SYSTEM



1.

: 2 , 13

: - . , -

: 66.15m

: 2005 -

: ( )

: ( )

(Transfer)

( : 13 , 2 )

Suspended System

9



3.

2.

:

:

:

1445

	2 , 13	2 , 4	
	7.8m x 8.7m 7.8m x 17.4m	9.8m x 8.0m	
	( )		

( )	MAT	$f_e = 45 \text{ tf/m}^2$	1,300 mm
	MAT	$f_e = 15 \text{ tf/m}^2$	1,100 mm

4.

	$f_{ck} = 240 \text{ kgf/cm}^2$ KS F 4009	—
	$f_y = 4,000 \text{ kgf/cm}^2$ SD 3504 (SD40)	—
	$F_y = 2,400 \text{ kgf/cm}^2$ SS 3503 (SS400)	
	$F_y = 3,300 \text{ kgf/cm}^2$ SM 3515 (SM490)	(SRC )

	25m/sec	B		
	1.5	0.11	1.0	S/1.2 T

가.

	1.4D+1.7L
	0.75(1.4D+1.7L+1.7W)
가	0.9D+1.3W
	0.75(1.4D+1.7L+1.8E)
가	0.9D+1.4E
	1.4D+1.7L+1.8H, 0.9D+1.8H
	1.4D+1.7L+1.5F, 0.9D+1.5F(F: )
	0.75(1.4D+1.7L+1.5T), 1.4D+1.5T

, T , ,

	( )	D+L
	( )	D+L+S
		D+L+S
		D+L+W
		D+L+E / D+E

5.

가. ( : )

- 5 13 (6.7m, 9.7m) TRUSS(DEPTH=5000mm)

6

3

• , : -400x400x40(SM490)

• , : -400x400x12(SM490)

• ( ) : 5 ~ 13

- :

( =400mm, =250mm, span=10m x 16m ) 100%

1.5

- : 가

- : (T) T=

40

- : Suspending 5

( Erection )

- / :

- :

• ( ) : 2 ~ 4

- : ,

SRC

- / :

- :

- : Slurry-Wall 270kgf/cm

- MASS

MASS 가 (1 :

700) (D=1,700) 2 FRAME

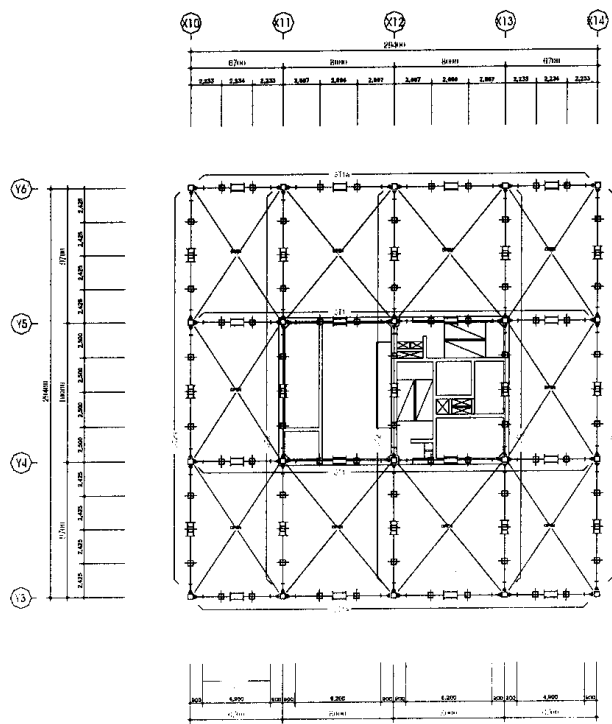
- : 45tf/m 1300mm

15tf/m 1100mm

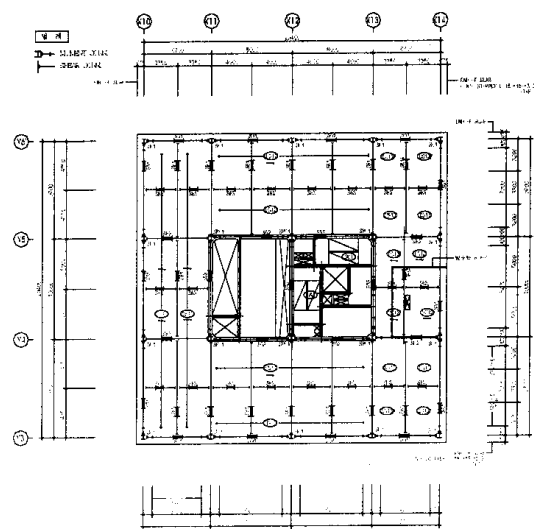
- : 20

- : 1 ( )

:7

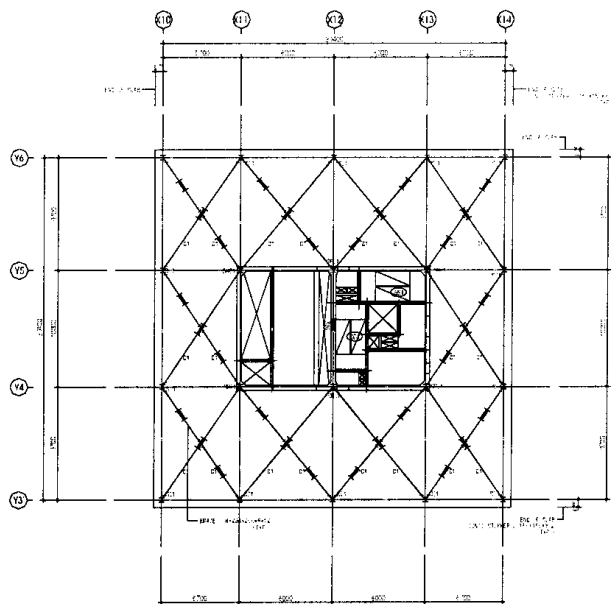


유압강 구조 평면도



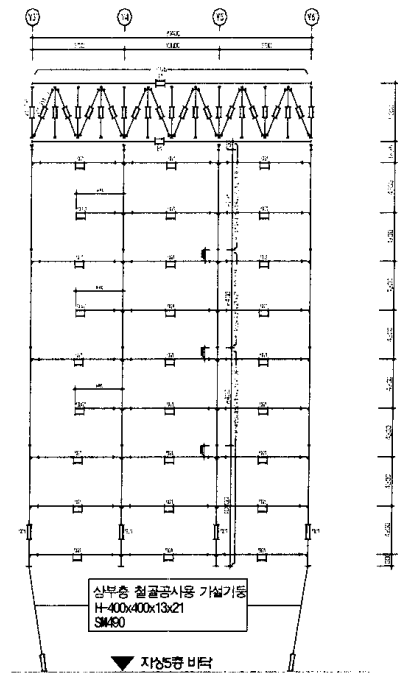
일반층 구조 평면도

구분	구분명	구분번호	구분위치	구분구분	구분구분	구분구분	구분구분	구분구분	구분구분	구분구분



지상 6층 마루 BRACE 구조 평면도

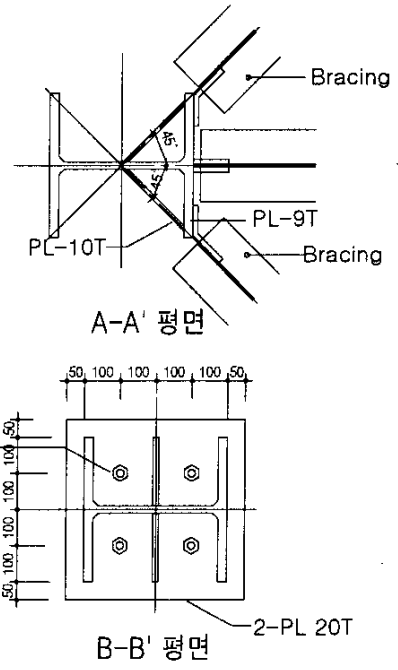
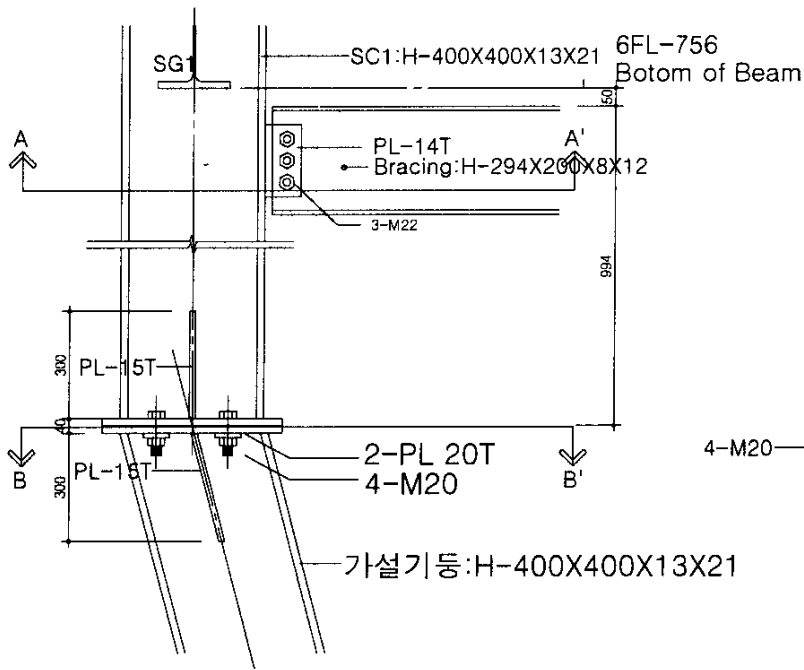
구분	구분명	구분번호	구분위치	구분구분	구분구분	구분구분	구분구분	구분구분	구분구분
01	01	01	01	01	01	01	01	01	01
01	01	01	01	01	01	01	01	01	01
01	01	01	01	01	01	01	01	01	01
01	01	01	01	01	01	01	01	01	01
01	01	01	01	01	01	01	01	01	01



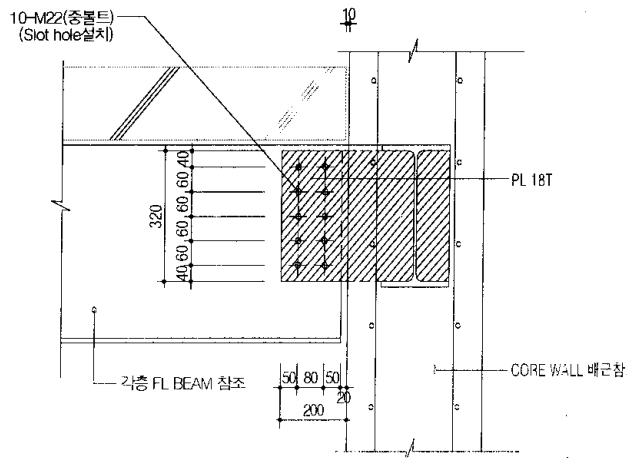
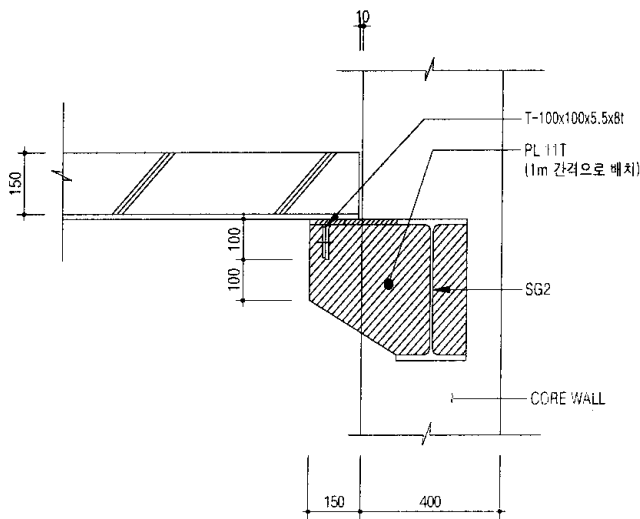
상부층 철골공사용 가설기둥 H-400x400x13x21 SM490

지상5층 바닥

출몰구조 입면도



6 (가 + )

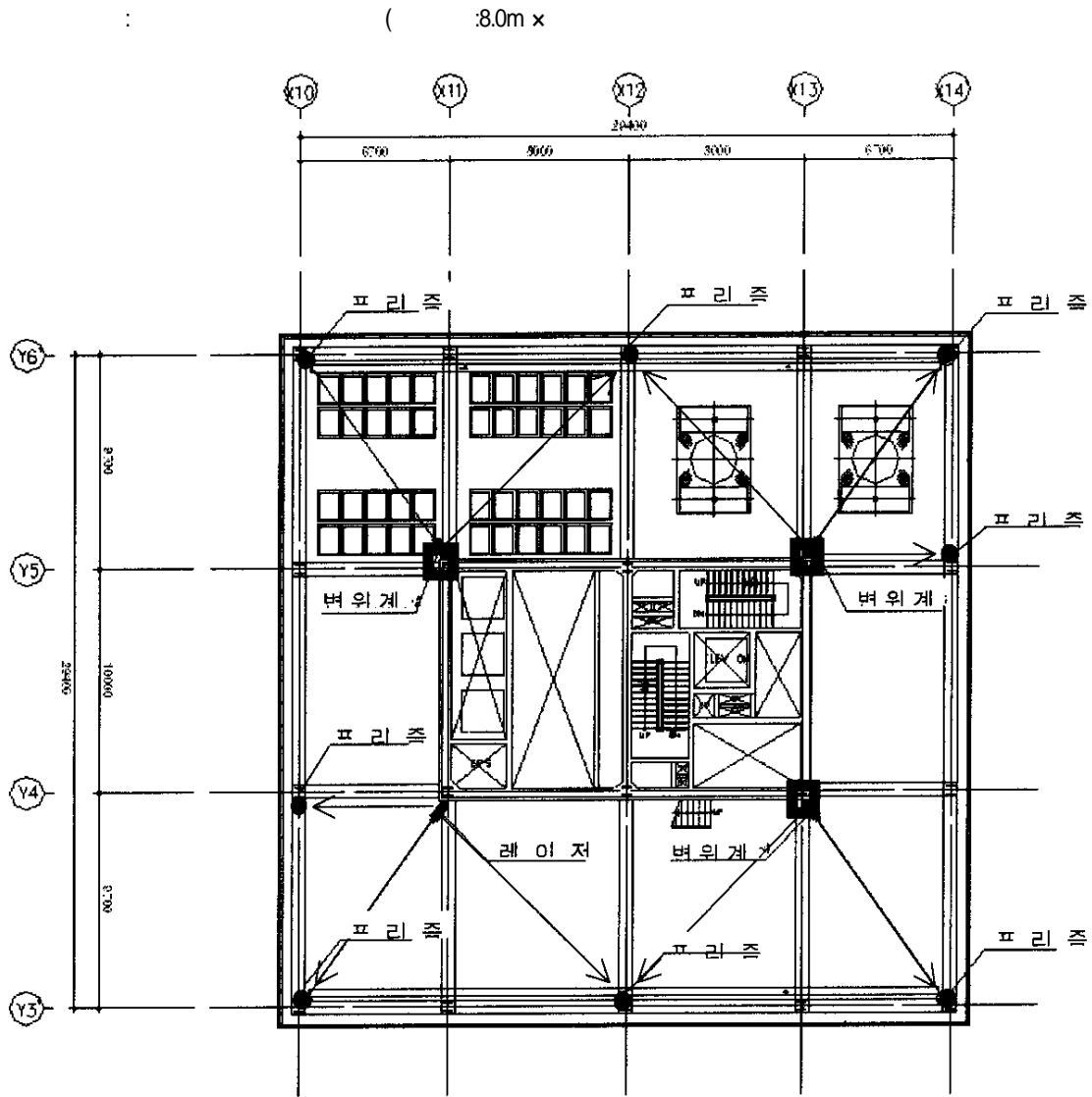


+ -1

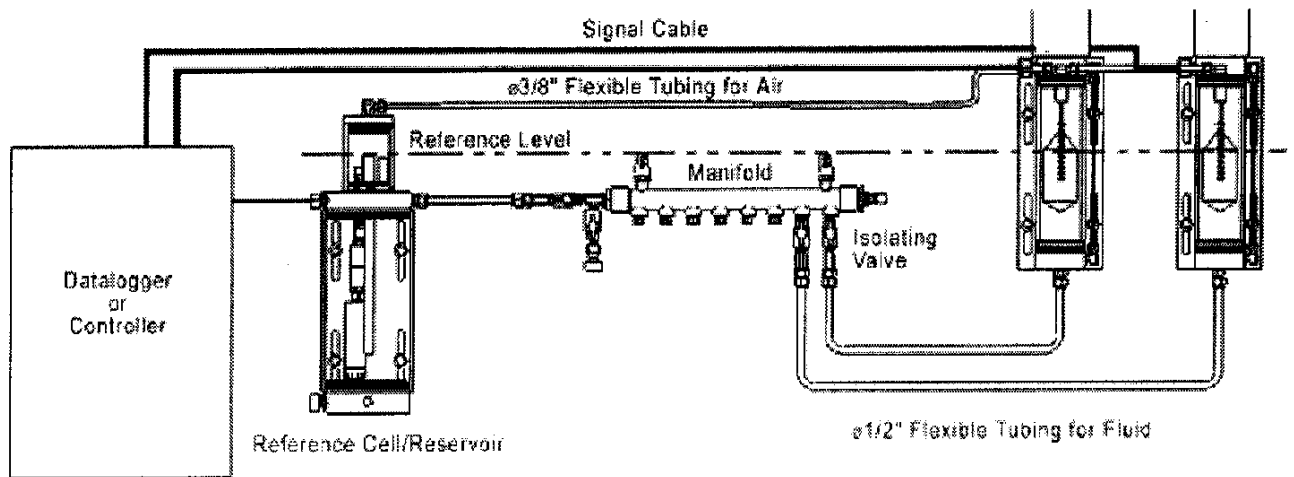
+ -2

(1 / or1 / )

6.  
 가.  
 • :Suspended ( :6.7m, 8.0m x 9.7m, 10.0m)



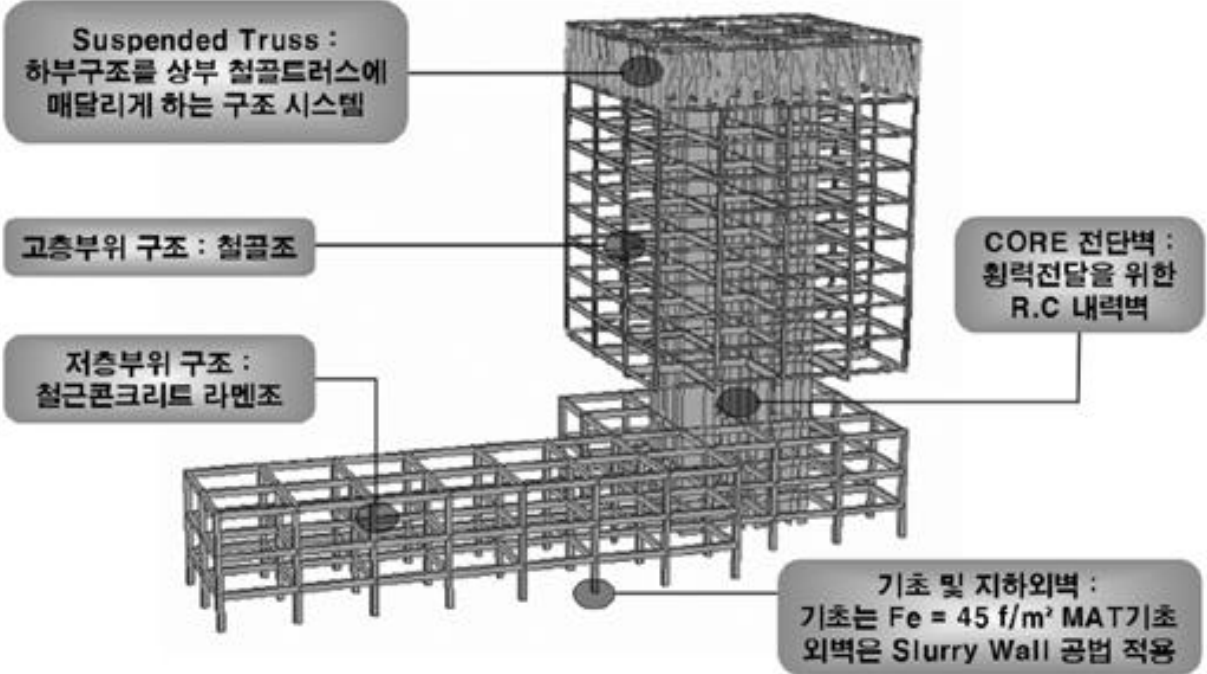
8.0m, 10.0m)



( ) Suspending 5m 가 Rigid ,

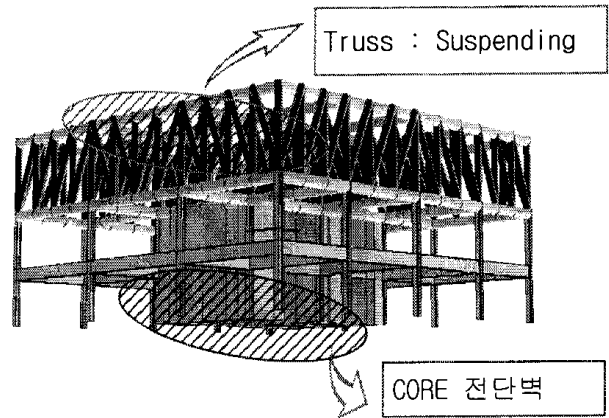
, 8.0m SPAN

SPAN SLAB , 150~180mm SLAB



7.

9



가 가

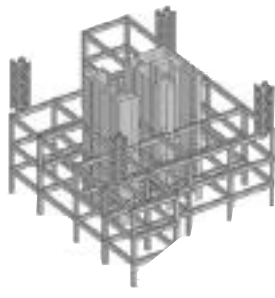
가

가 가 가 ,가 ,가 3가

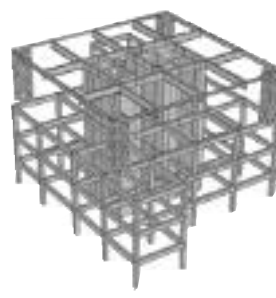
가.가



-1



BENT (5 )-2



5 -3



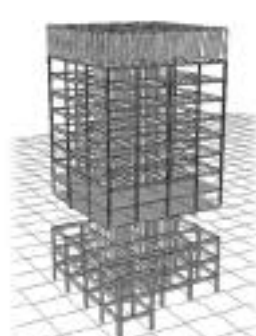
8 -4



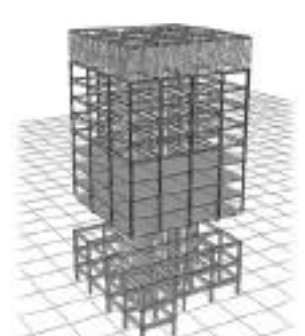
10 -5



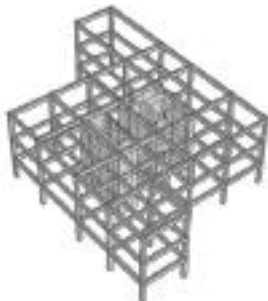
BENT -6



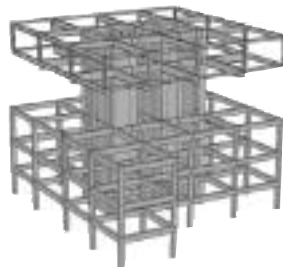
5-6 SLAB -7



7-12 SLAB  
-8



-1



5-6  
(CAMBER )-2



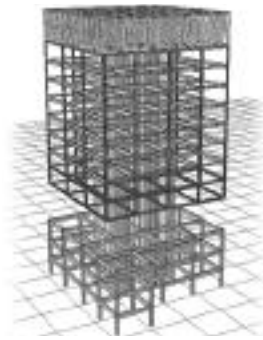
가 (5-6 )  
-3



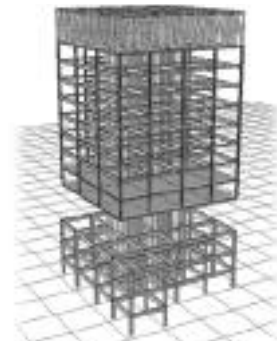
7,8 -4



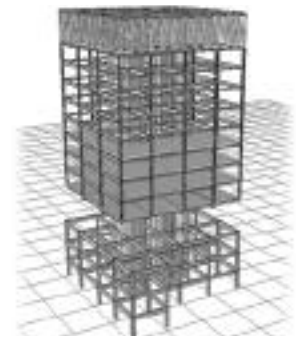
9,10 -5



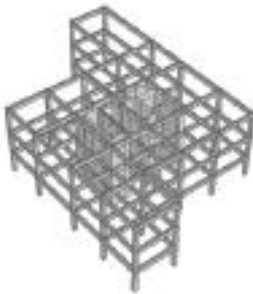
가 -6



5,6 SLAB -7



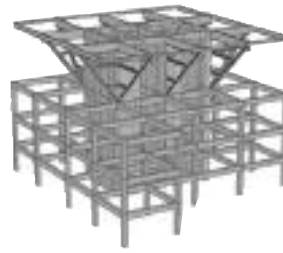
7-12 SLAB -8



-1



가 (5) -2



5 -3



8 -4

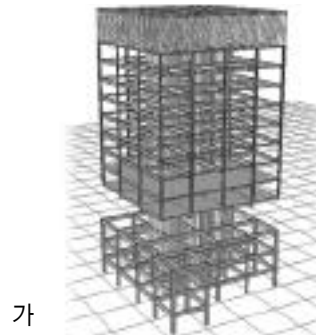


가

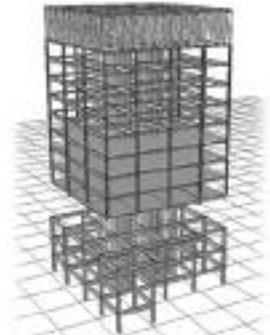
가 10 -5



가 -6



가 5-6 SLAB -7

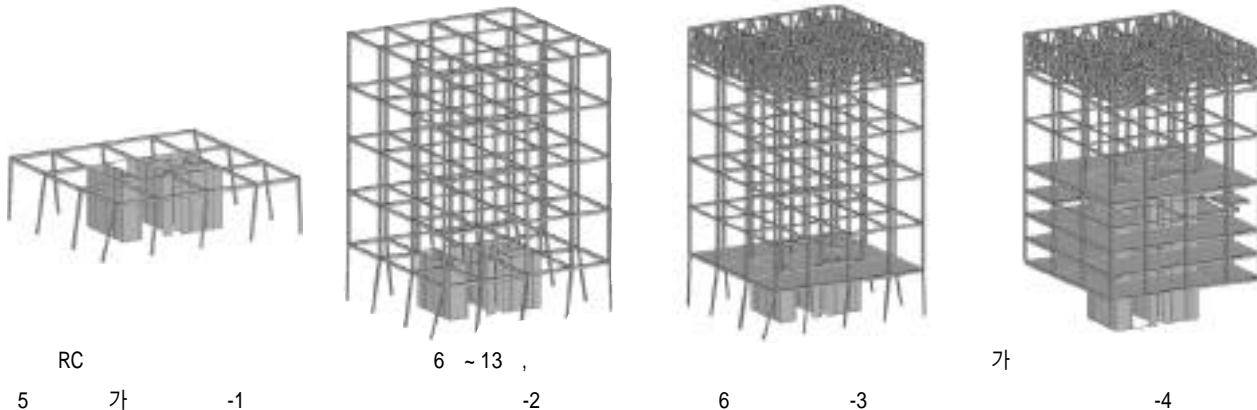


7-12 SLAB -8

- 가
- 

- RC 5 가 6 , 8 , 10 , 12 , 6
- 6 가 Hinge 가 ( 30% ) , 3,4





: \*\*-400 x 400x 22t, \*\*-400 x 400x 12t, H-400 x 400x 13  
x 21, H-428 x 407x 20x 35

( )

• X

. Suspension

KBS ( )

• Y

: \*\*-400 x 400x 40t,





가 -3



-3



가 -4



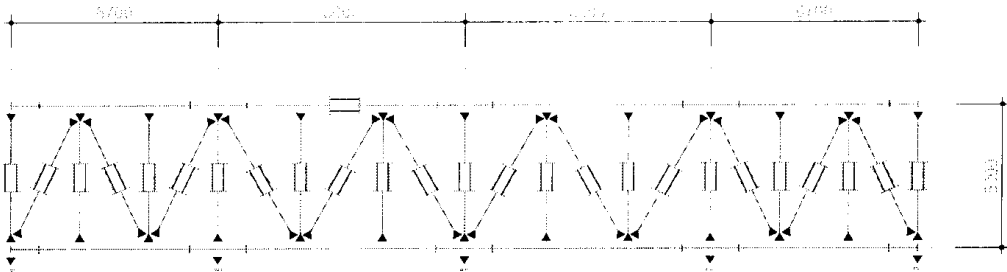
가 -4



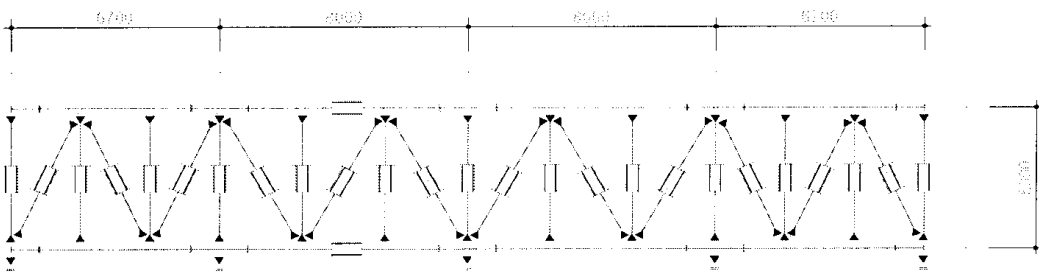
가 -4



-4



8.



가

9

(Suspended System) 2005

가 6.7m 9.7m

SUSPENSION 구조 사례조사



• KBS신관

전경 사진



SYSTEM



TRUSS 부분 사진



전경 사진



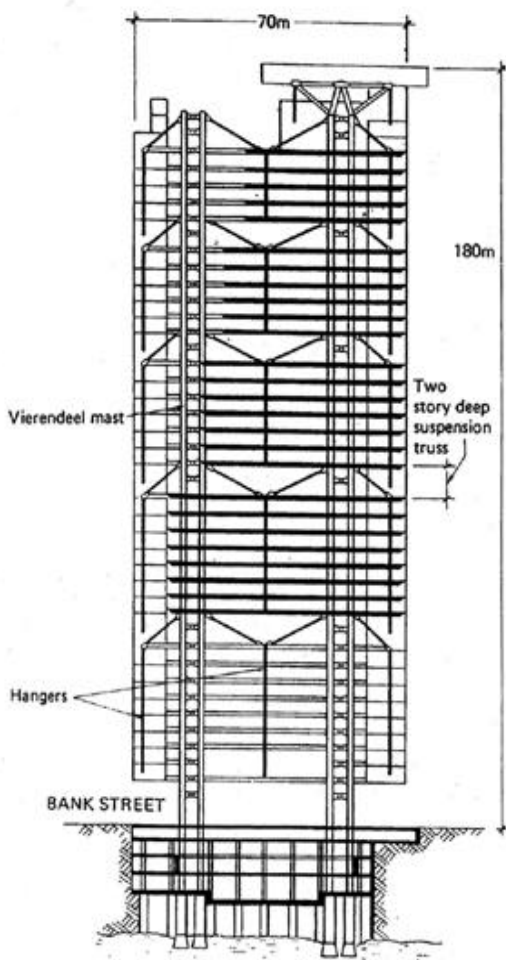
상부 TRUSS



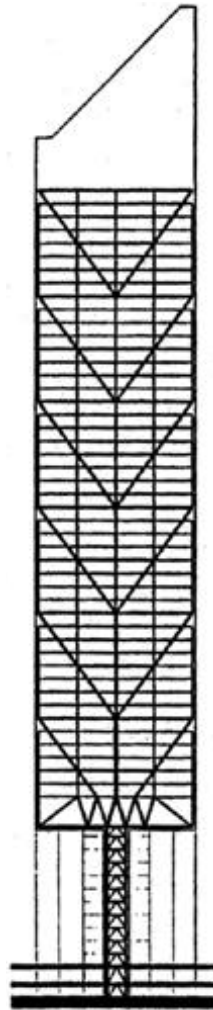
세면 결빙 부분



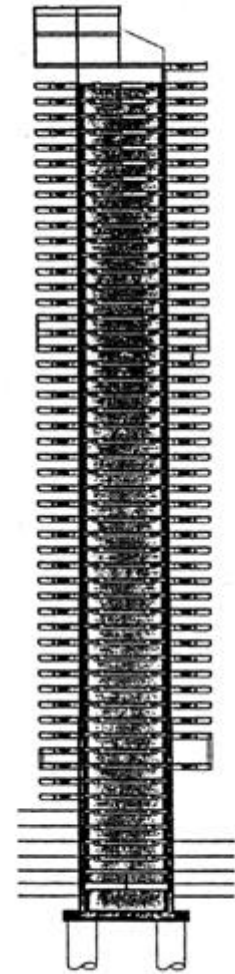
시공상 결빙으로 TRUSS 부분이 손상되었  
을 듯하다  
- 단면에서 볼 때 구조상 결빙으로 인한  
현상(결빙 시 발생한다)을 보여준다



Hong Kong Bank Headquarters



Citicorp Center New York,  
N.Y., USA



Singapore Treasury Building

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