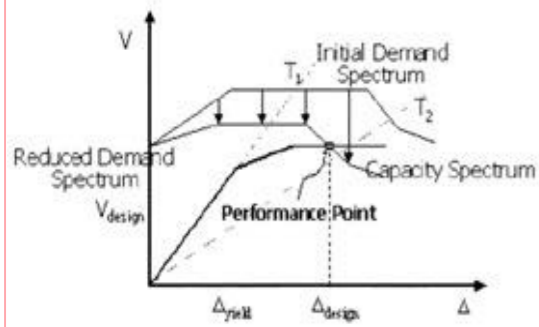


[2.1] (CSM)

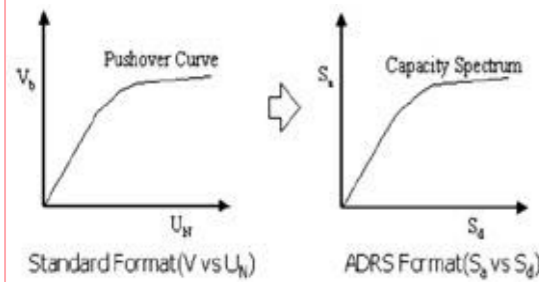


(Demand Spectrum)
(Capacity Spectrum)
(Performance Point)

가

(1) ATC-40
(V) (root)
가 (S_d) (S_d)
[2.2]

[2.2]

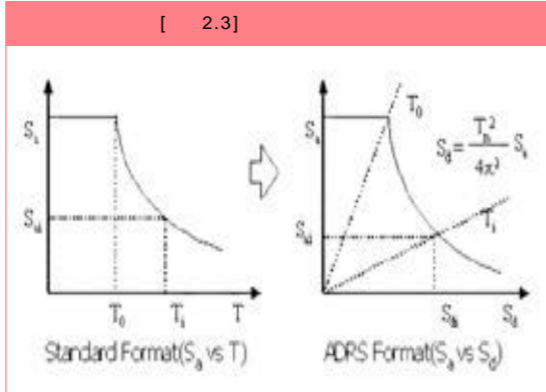


(2)

(T) 가 (S_d)
가

가

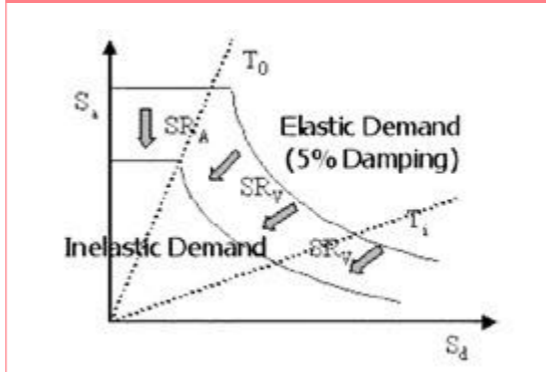
[2.3]



(3)

가 가

[2.4]



[2.4]

(4) 가
가(Global Check)
가(Member Check)
가
ATC-40 [2.1]

[2.1] (ATC-40)

	Immediate Occupancy	Damage Control	Life Safety	Structural Stability
	0.01	0.01 ~ 0.02	0.02	0.33 Vi Pi
	0.005	0.005 ~ 0.015	No limit	No limit

가
ATC-40
가 가

3. 가

가

가 가

[3.1] 3

[3.1]		
1		가
2		
3		

가
(I_s)
(I_{so})

I_s = E_o × S_o × T I_{so}
, E_o
가
(C) (F) . S_d

0.4 ~ 1.2 가 . T
1.0

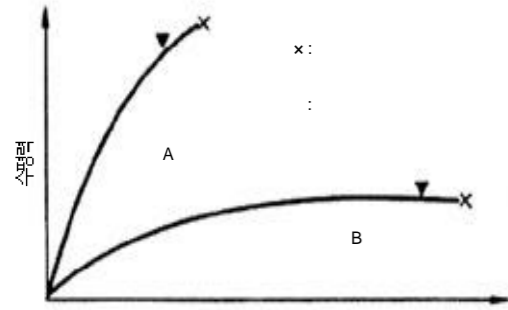
0.5 1.0 가 .
I_{so} (I_s)

(1) (E_o)

[3.1] . A

, B -

[3.1]



가

A B 가 B

A가

(A) (B)

(C) (F)

$$E_o = C \times F$$

, C

, F

가

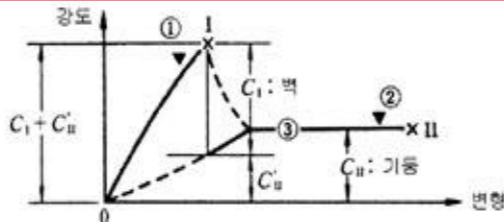
가

[3.2]

가 (C_I) E_o E₁,
가 (C) E

$$E_o = \sqrt{E_1^2 + E_2^2}$$

[3.2]



C :
C :
C : C

I C_I
II C

(2) (I_{so})

$$I_{so} = E_s \times Z \times G \times U$$

, E_s

1 0.8, 2 , 3 0.6

Z

. G

. U

[3.3]

