

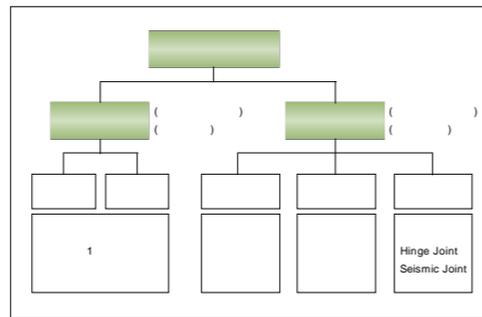
# JOINT

\_02 - 3433 - 7732  
\_E - mail : leebg@ssyenc.com



1.

5) Special Purpose Joint ( )



2. (Construction Joint)

1)

2)

1) Construction Joint ( )

2) Expansion Joint ( )

3) Delay Joint or Shrinkage Strip ( )

4) Control Joint ( )

(Key Joint)

2)

Joint

( , ACI 318-99/318R-99 6.4.4)

:  $1/3 \ 2/3$ ,

/3

: -  $1/3 \ 2/3$ ,

가 Main Girder -

2

, Wall : Wall

가

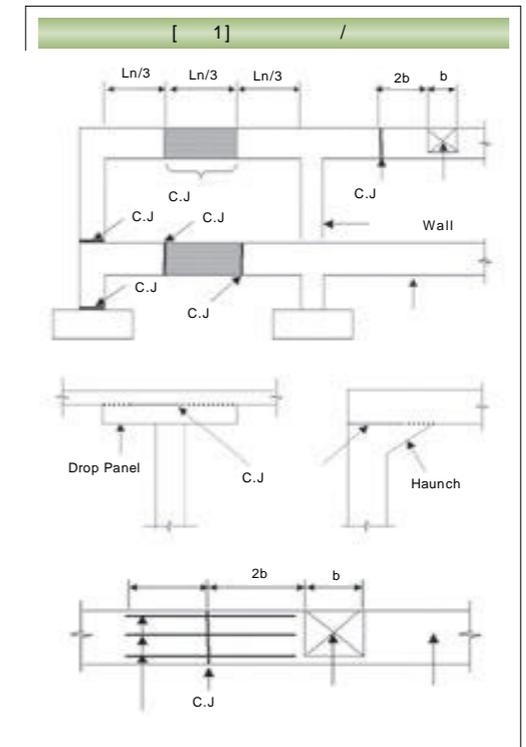
Joint

1

가

3)

가 가  
Drop Panel



3. (Expansion Joint)

1) MASS (Expansion Joint) E.J  
 20 ~ 30cm  
 40 ~ 50cm  
 Joint

2) 가 (L,T,Y,U) E.J  
 가  
 가  
 가 Bridge E.J

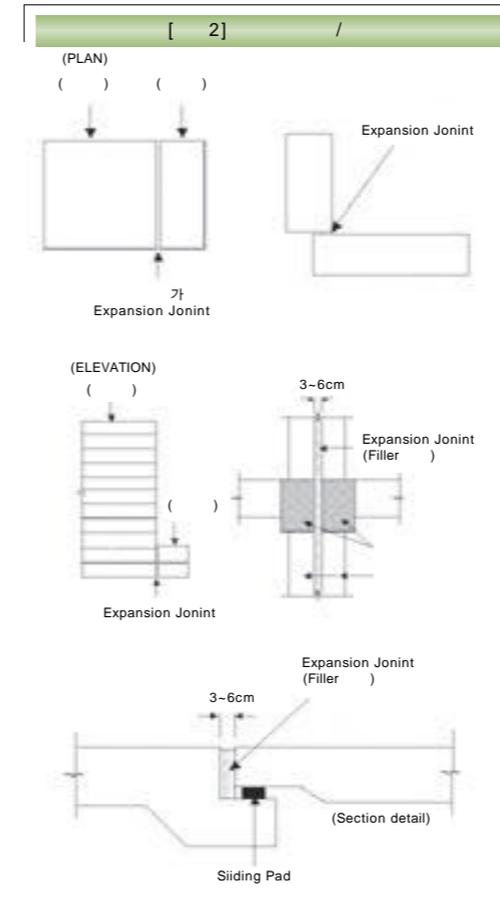
3) : 60M ( )  
 : 3cm ~ 6cm ( )

21 (70 )	180m (600ft)
21 (70 )	120 ~ 150m (400 ~ 500ft)
21 (70 )	90m (300ft)
21 (70 )	60m (200ft)

4) Strip  
 E.J 가  
 가  
 E.J 3 ~ 6cm

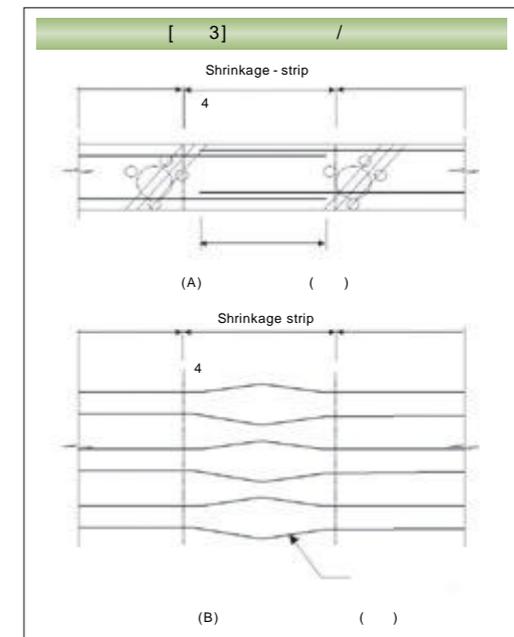
4. (Delay Joint or Shrinkage Strip)

1)



2) 가  
 E.J  
 3)  
 4 40% ( )  
 Strip 60 ~ 90cm

60cm  
 Strip 30 ~ 50m  
 Strip ( )  
 Strip 60cm ~ 90cm



5. (Control Joint)

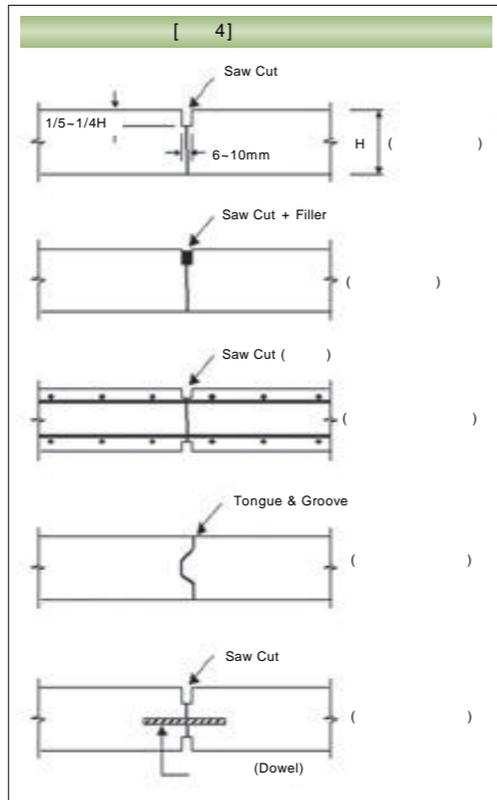
1)

3) ( , )

2) , 7.5m

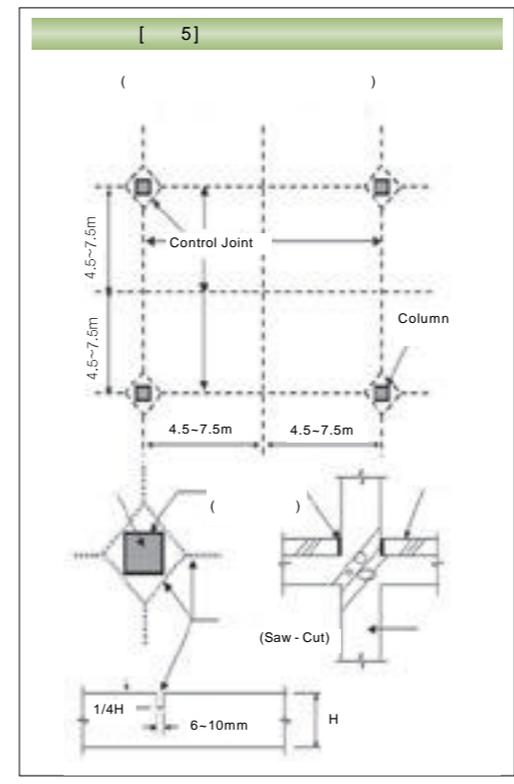
3) Slab on Grade , 4.5m-7.5m, Joint 10m 1:1 ~ 1:1.5 6 ~ 10mm. (Tie Bar) 가 3m 3m 가 3m 6m 가 10m가 30m Slab on Grade

4) SAW CUT : 가 (Premolded) : Saw-Cut. 가 (Tongue and Groove) : 가 (With Dowel) :

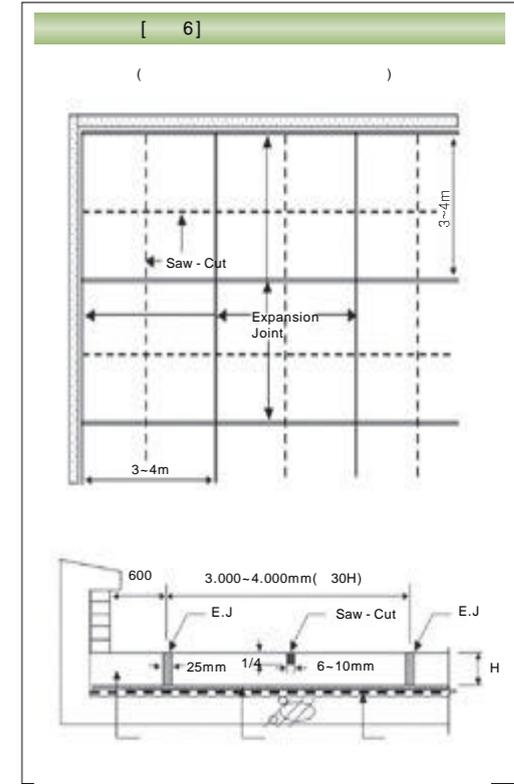


5) : SPAN 4.5 ~ 7.5m Saw-Cutting : 6 ~ 10mm, 1/4 (H>100mm , 40mm ) : 3 ~ 4 ( )

1 ~ 2m Saw-Cut .  
· Saw-Cut : 6 ~ 10mm, 1/4 (H>100mm , 40mm )  
· : 25mm ,  
· Saw-Cut : 3 ~ 4 ( )  
· : Filler  
E.J. Filler : , ,



6) 3 ~ 4m



: , 1996  
: , 1999  
Handbook of CONCRETE ENGINEERING : Mark Fintel,  
Building Code Requirement for Structural Concrete(318-99) and Commentary (318R-99) : ACI Committee 318, 1999