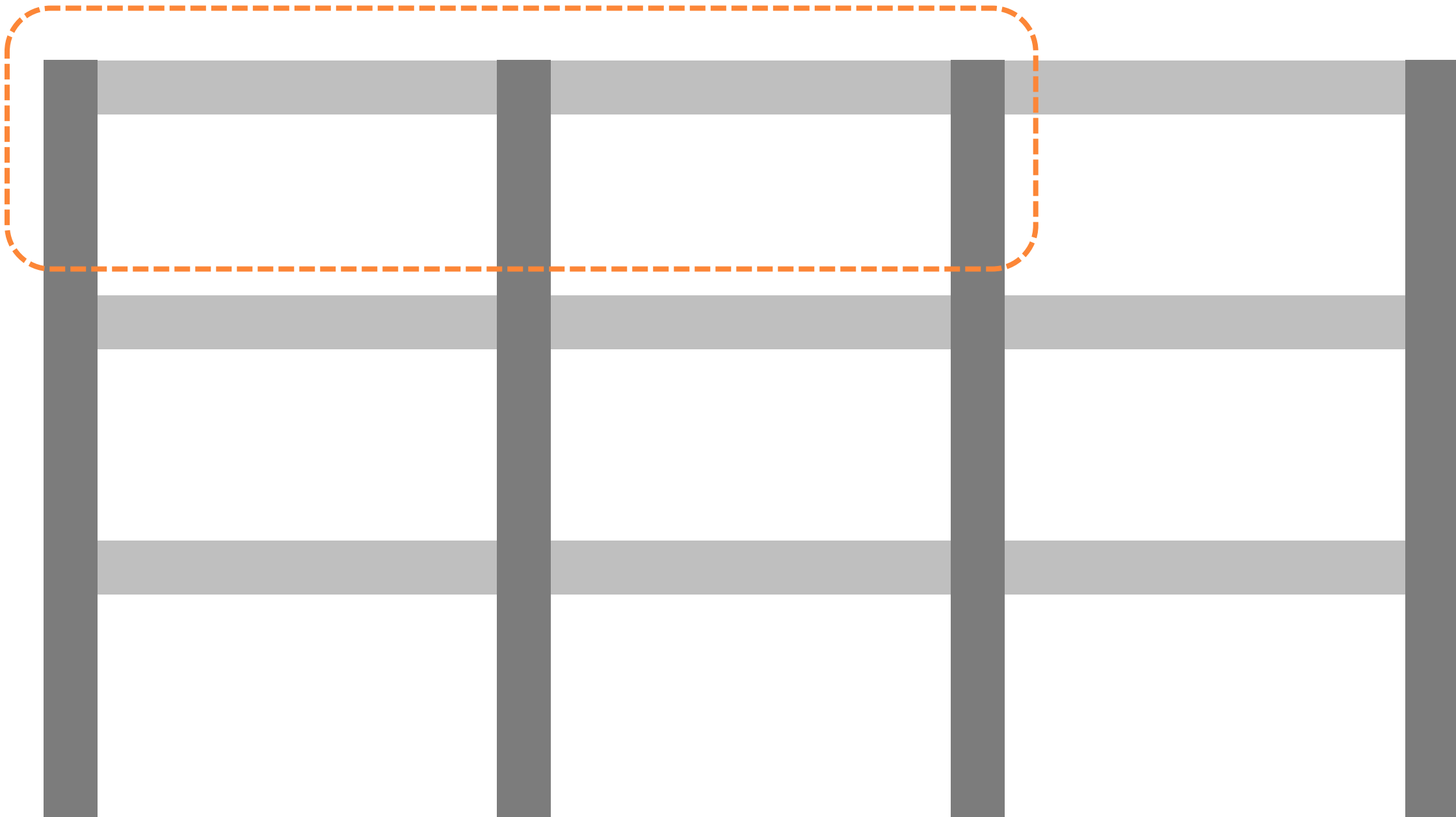


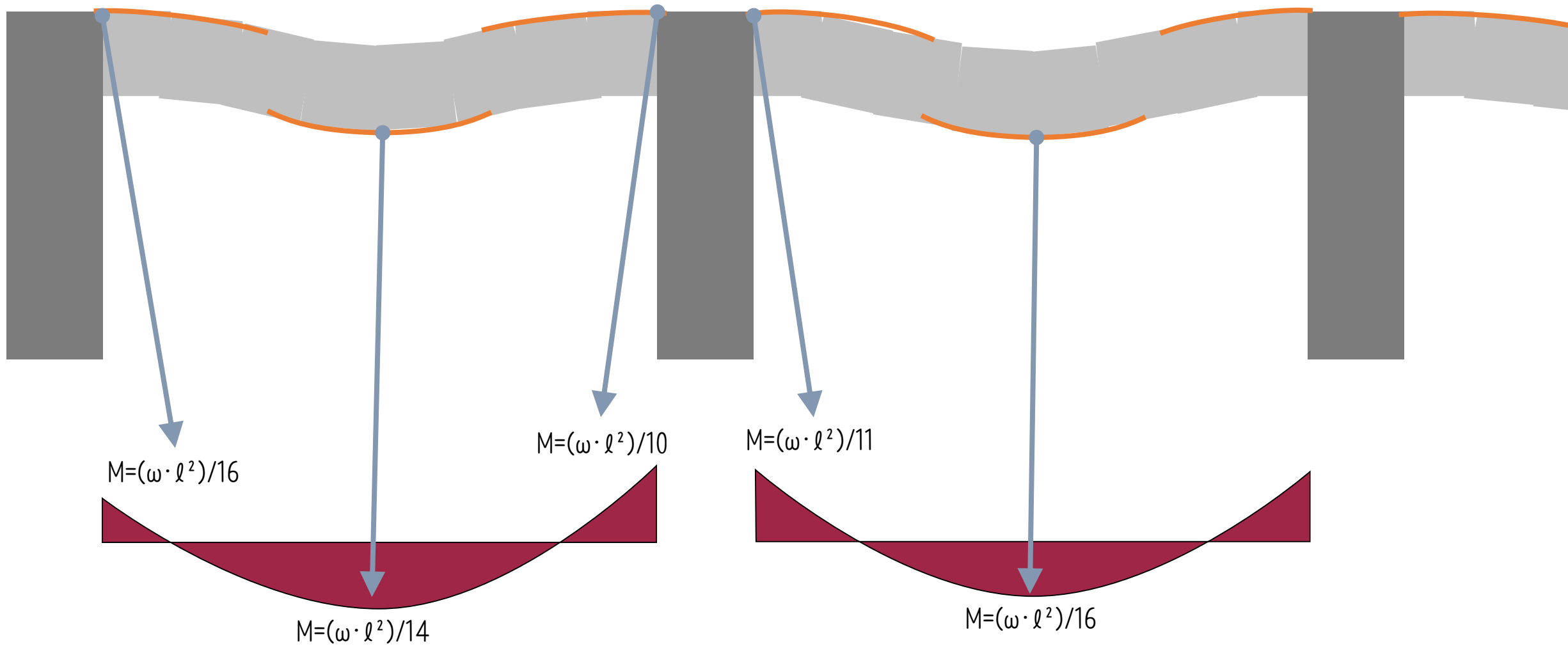
# 보 배근 일반

## 철근지식저장소

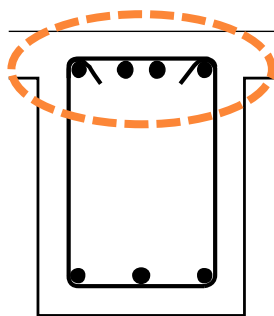
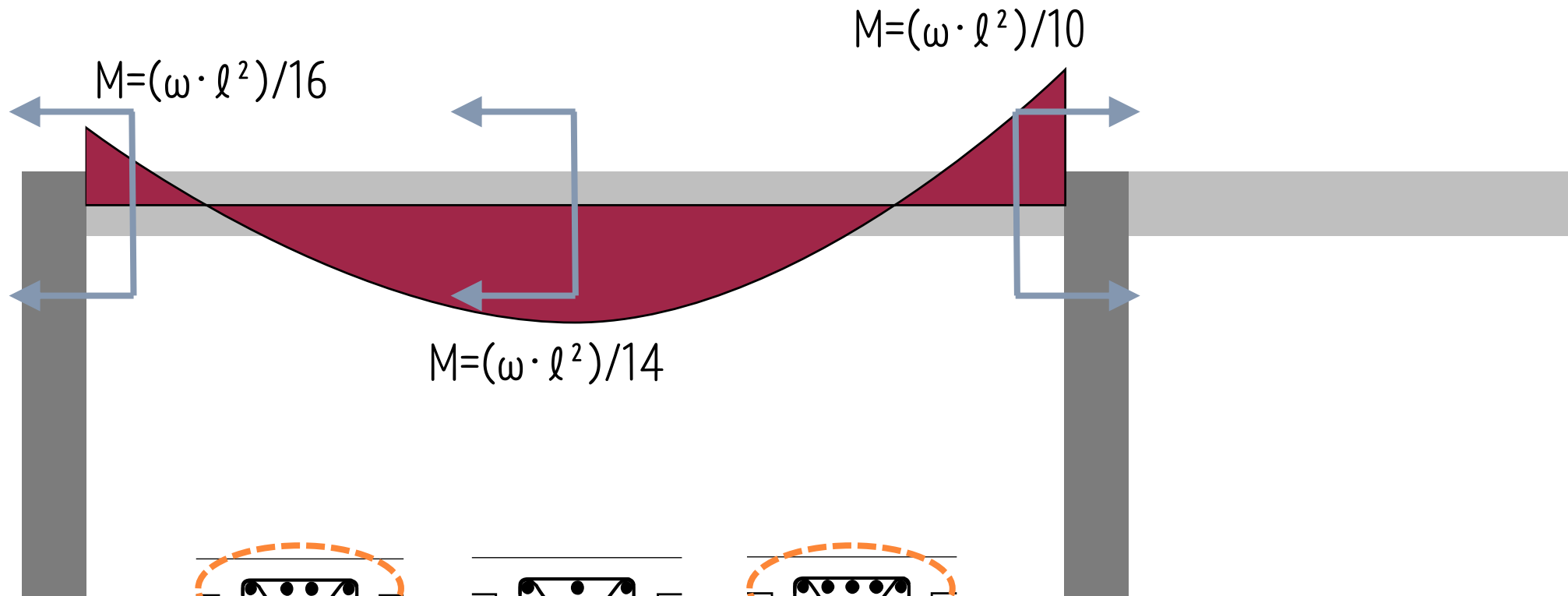




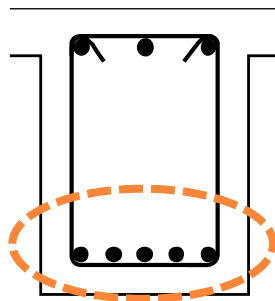
보는 얼마나 구부러질까?(힘모멘트)



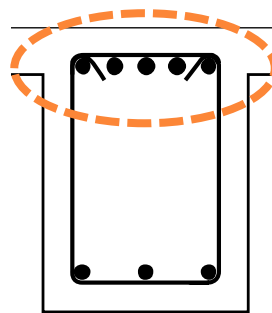
구부러지는 정도(**휨모멘트**)에 따라 **철근량**이 달라진다.



〈외단부〉  
EXT



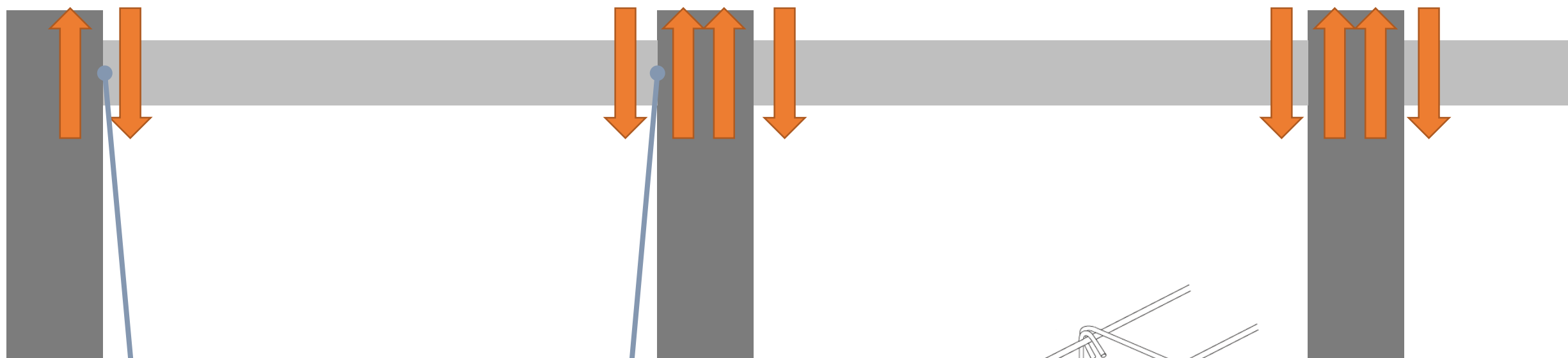
〈중앙부〉  
MID



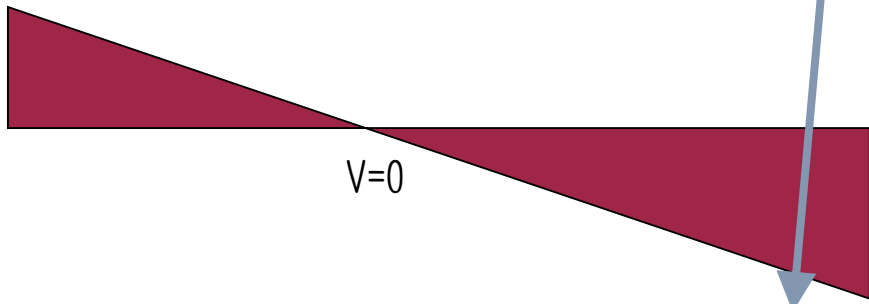
〈내단부〉  
INT



보에 발생하는 **전단력**은?

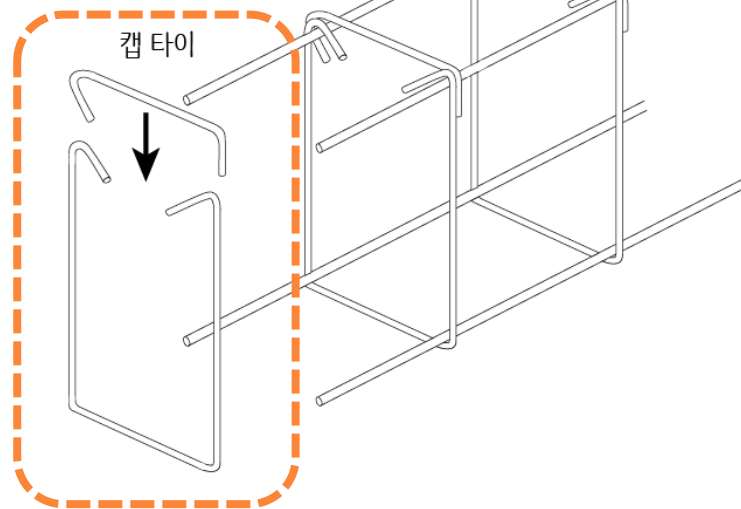


$$V = (\omega \cdot l) / 2$$



$$V = 0$$

$$V = (1.15\omega \cdot l) / 2$$



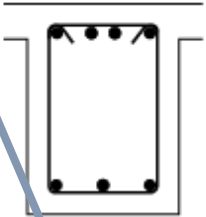
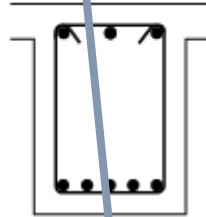
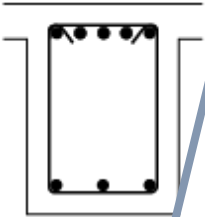
캡 타이

보스터럽

$$V=(\omega \cdot l)/2$$

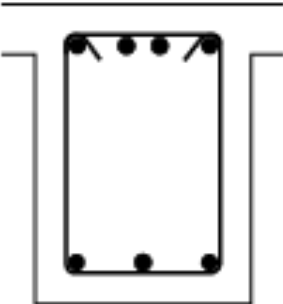
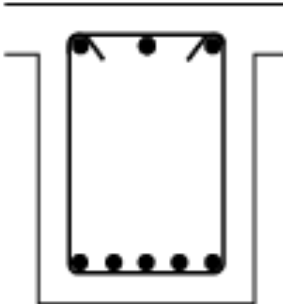
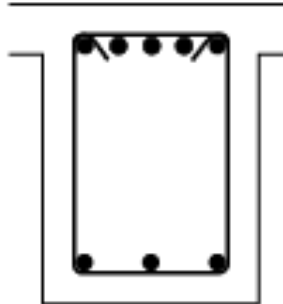
$$V=0$$

$$V=(1.15\omega \cdot l)/2$$

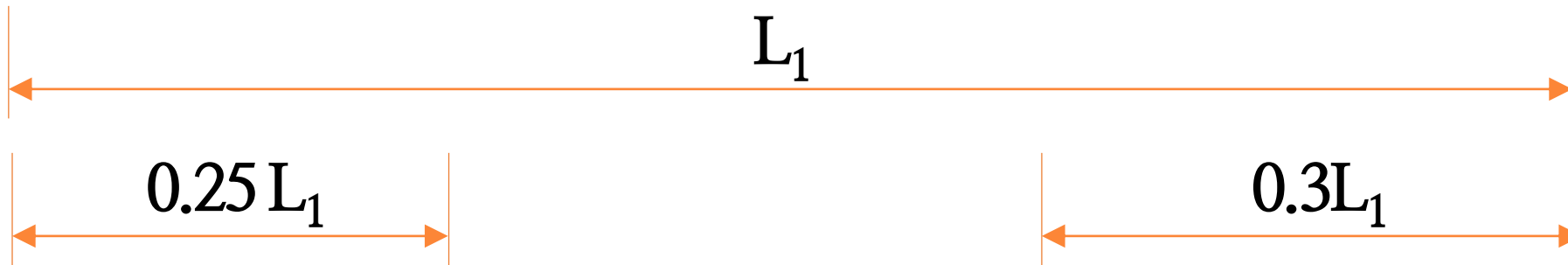
기호	G2		
			
	〈외단부〉	〈중앙부〉	〈내단부〉
크기	400 x 600	400 x 600	400 x 600
상부근	4-HD22	3-HD22	5-HD22
하부근	3-HD22	5-HD22	3-HD22
스터럽	HD10@200	HD10@300	HD10@200



# 보 배근

기호	G2		
			
	〈외단부〉	〈중양부〉	〈내단부〉
크기	400 x 600	400 x 600	400 x 600
상부근	4-HD22	3-HD22	5-HD22
하부근	3-HD22	5-HD22	3-HD22
스터럽	HD10@200	HD10@300	HD10@200

 힘모멘트  
 전단력



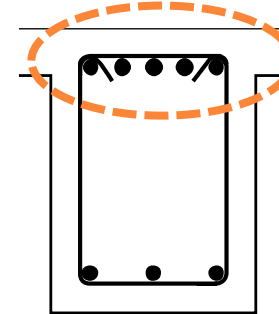
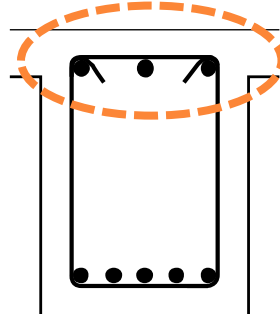
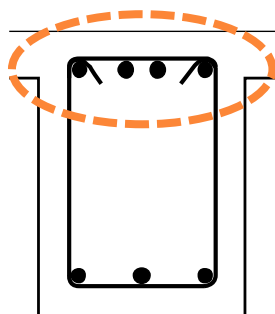
$$4-3=1$$

$$5-3=2$$

4

3

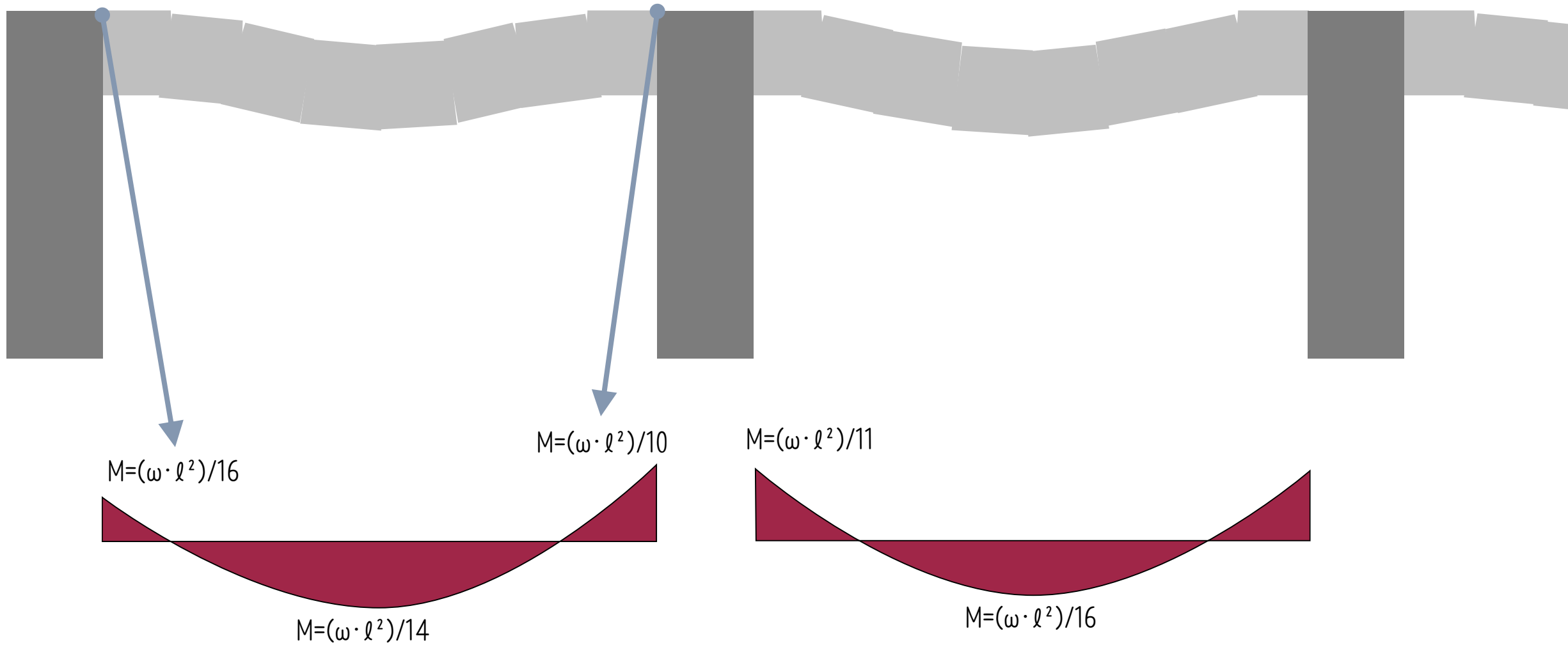
5



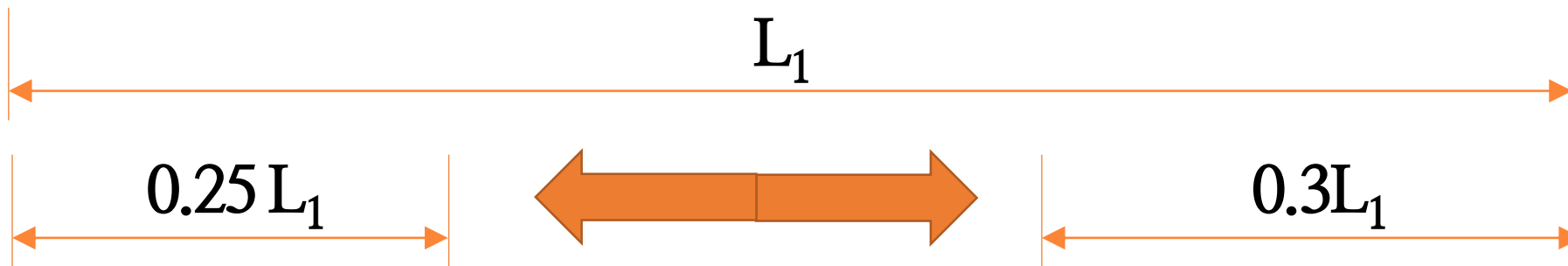
〈외단부〉  
EXT

〈중앙부〉  
MID

〈내단부〉  
INT



외단부보다 내단부가 더 많이 구부러진다 → 더 길게 정착



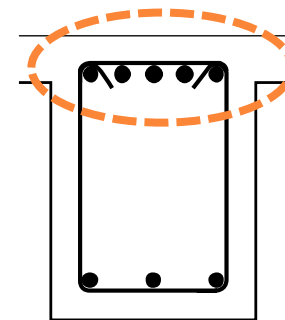
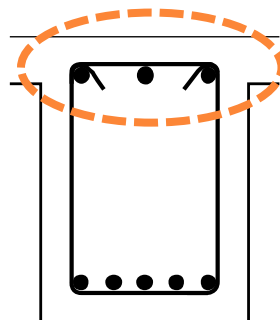
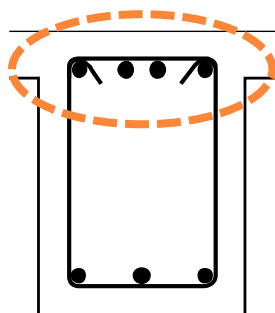
$4-3=1$

$5-3=2$

4

3

5



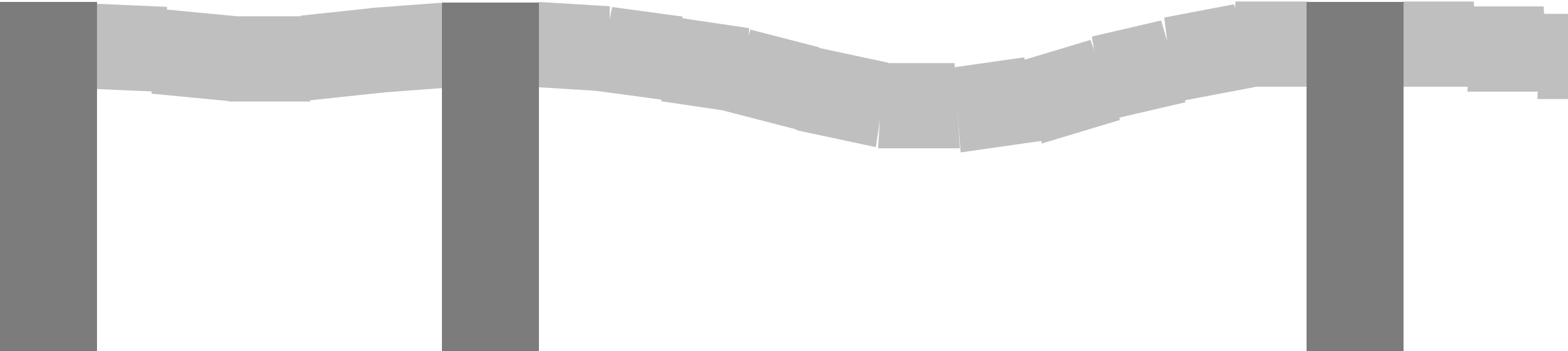
〈외단부〉  
EXT

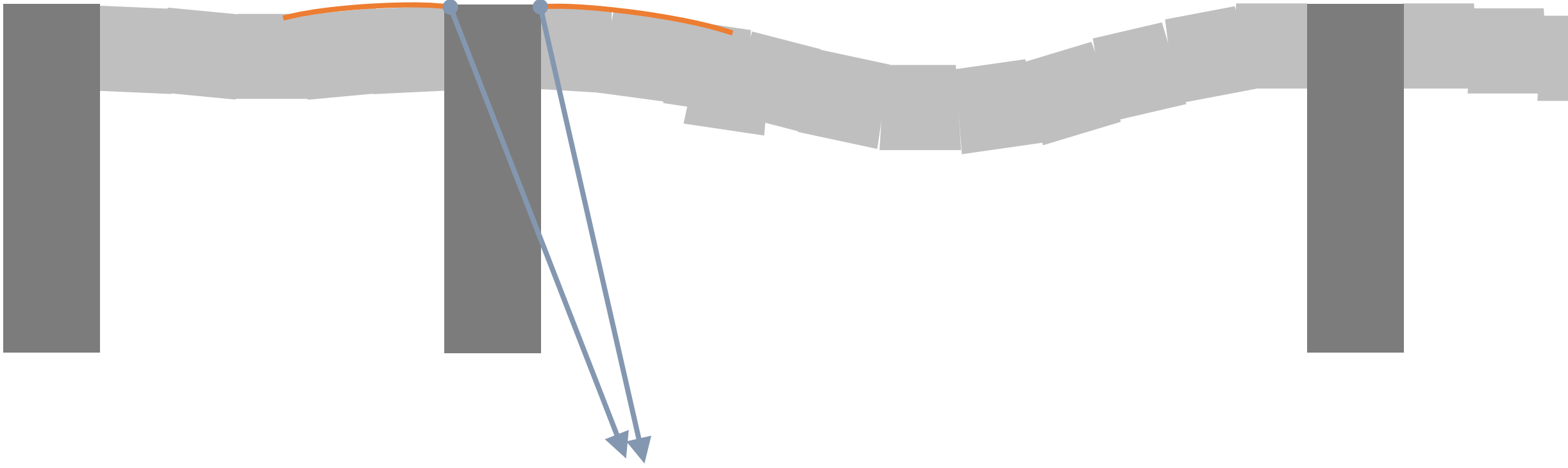
〈중앙부〉  
MID

〈내단부〉  
INT

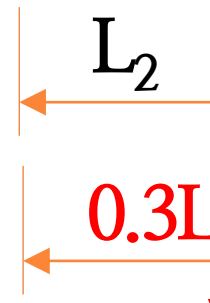
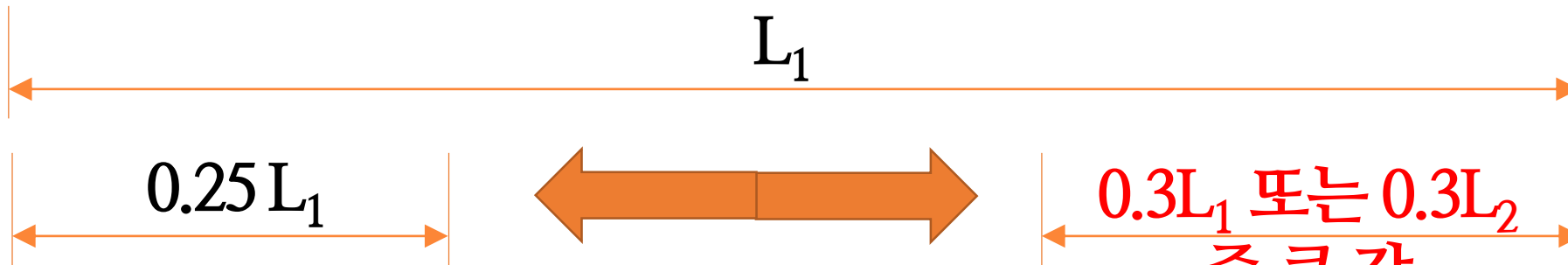


양쪽 경간이 다르다면?





긴 쪽 경간을 따라 짧은 쪽 경간도  
영향을 받는다.



$0.3 L_1$  또는  $0.3 L_2$   
중 큰 값

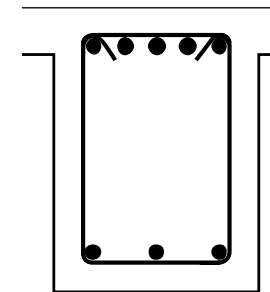
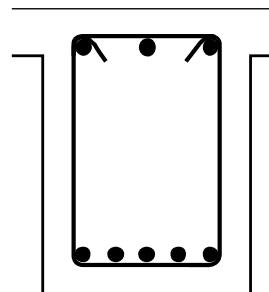
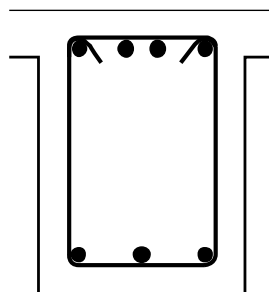
$4 - 3 = 1$

$5 - 3 = 5$

4

3

5

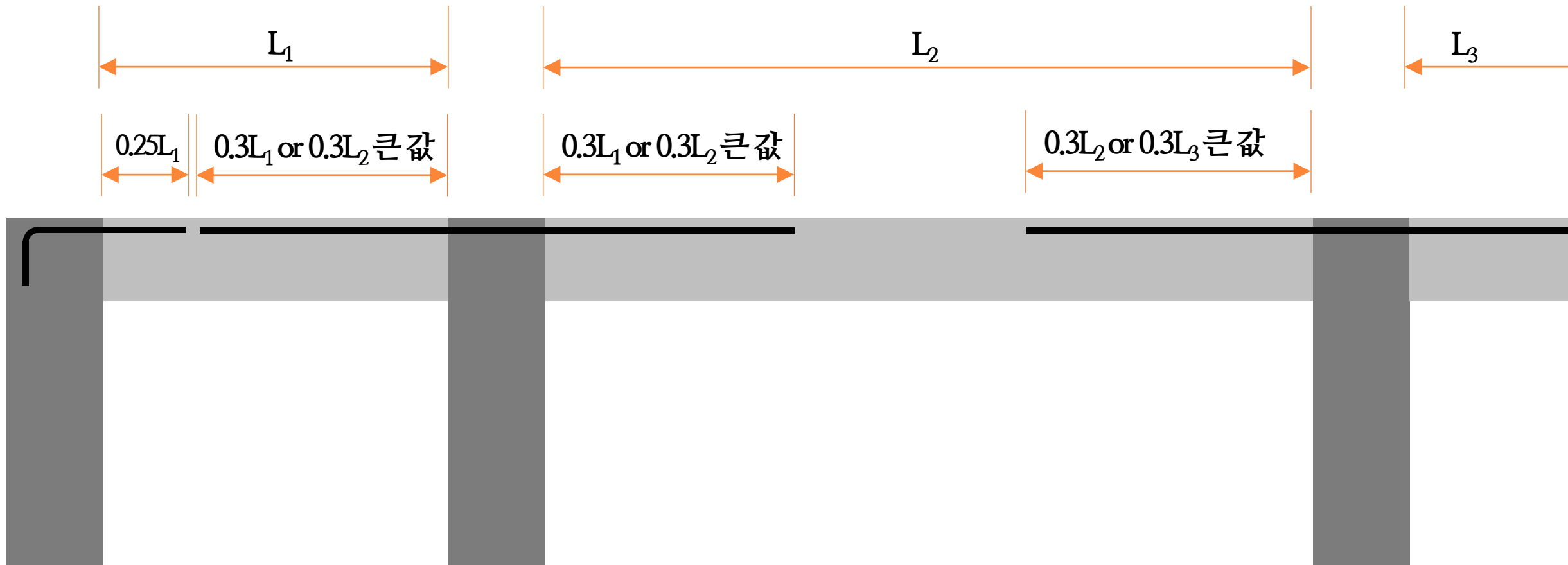


〈외단부〉  
EXT

〈중앙부〉  
MID

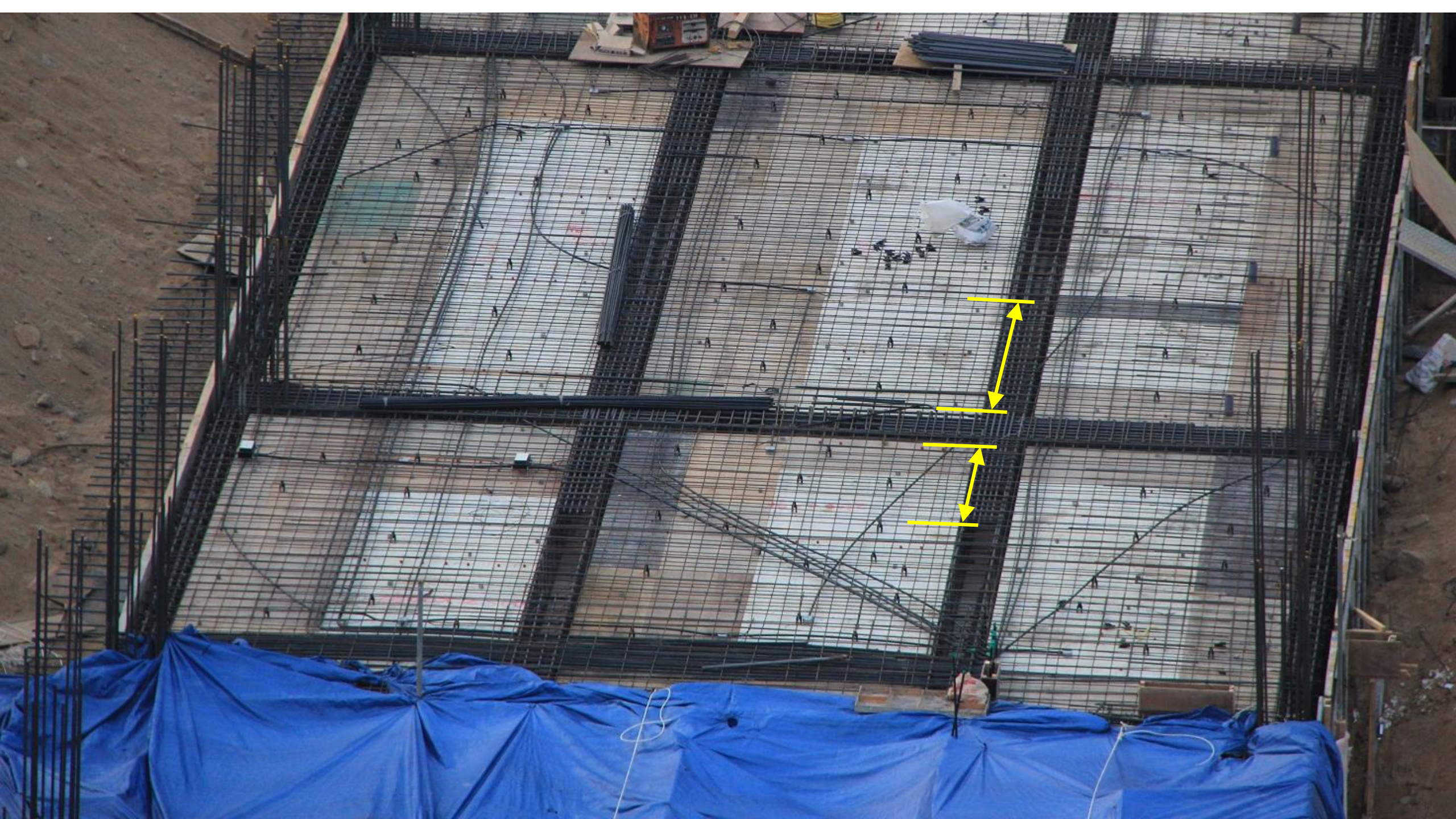
〈내단부〉  
INT



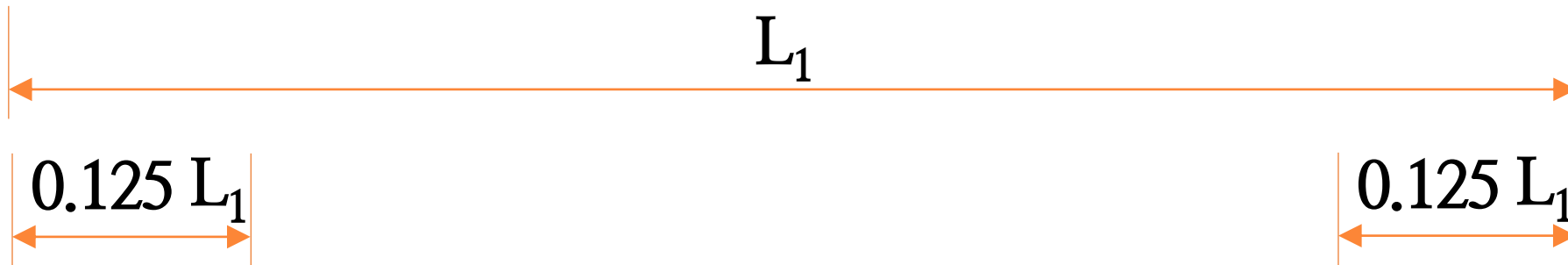


양쪽 경간이 다르다면?







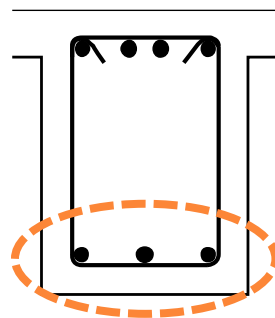


$$5-3=2$$

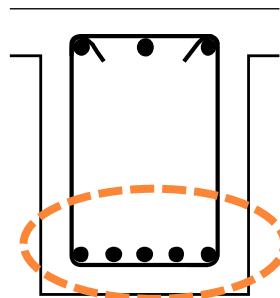
3

5

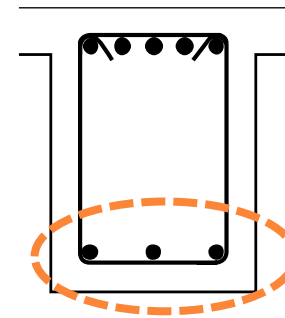
3



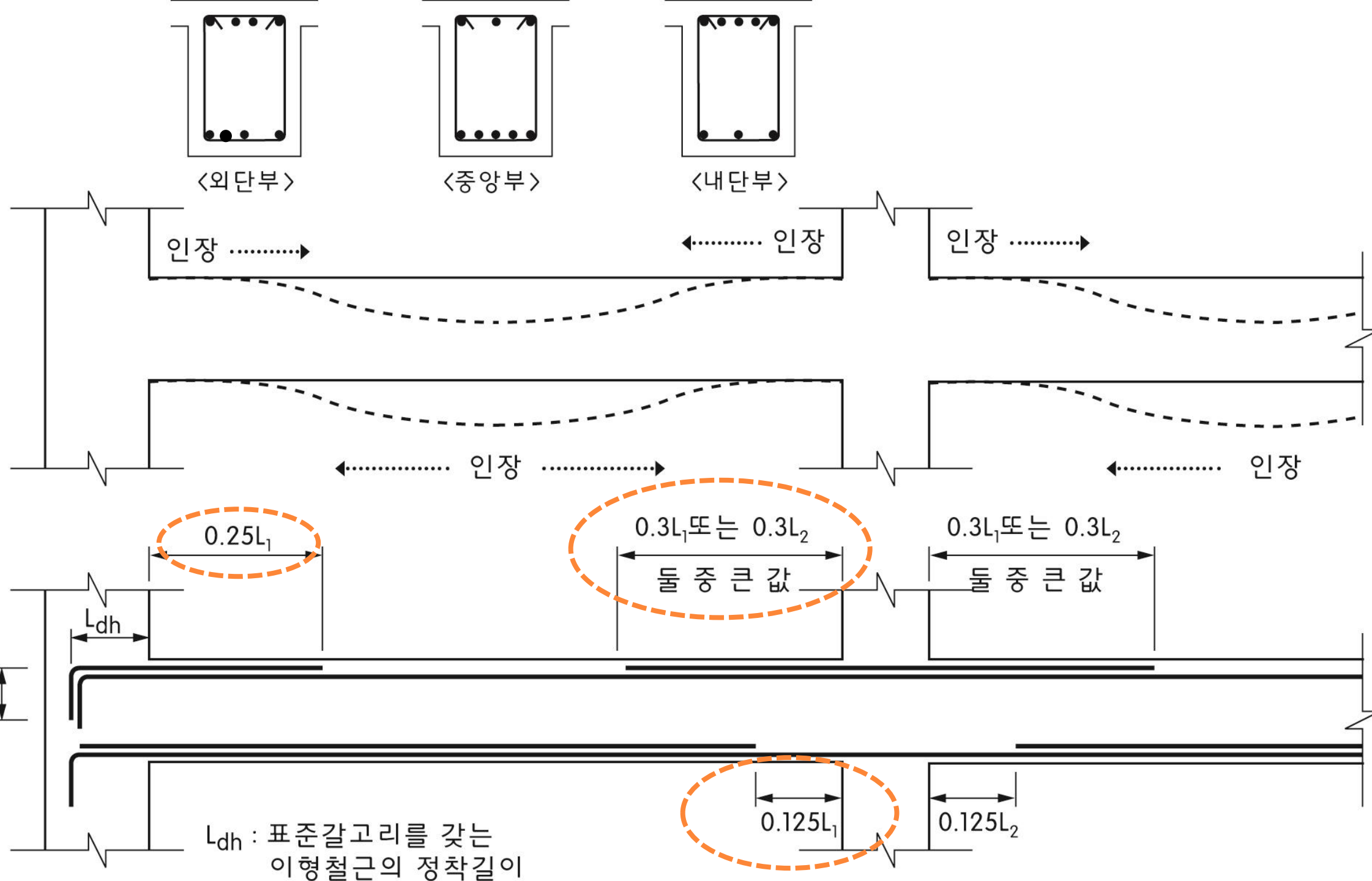
〈외단부〉  
EXT



〈중앙부〉  
MID



〈내단부〉  
INT



기둥의 내진 배근 상세에  
살펴보았습니다.

**철근 지식 저장소**

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