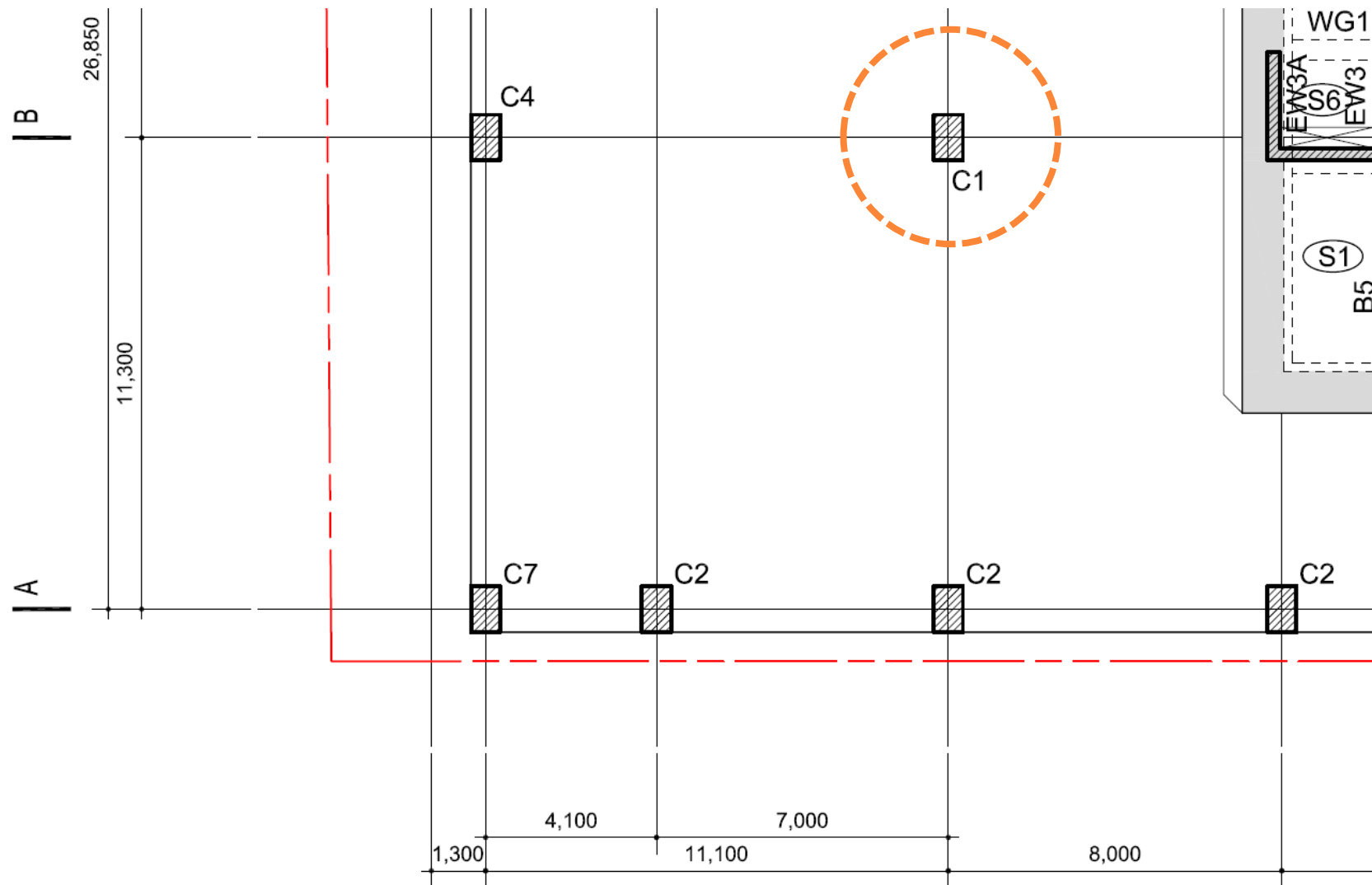


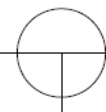
# 기동 배근 기본

철근지식저장소

# 구조평면

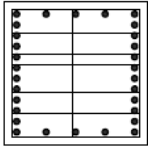
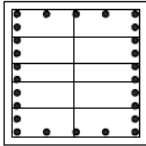


# 부재별 일람표



기둥 일람표 - 1

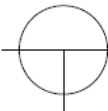
SCALE : NONE

NAME	10C1	1~10C2
TYPE		
SIZE	700X1500	700X1100
MAIN BAR-1	30-D29	26-D29
MAIN BAR-2		
MAIN BAR-3		
HOOP (MID)	D10@300	D10@300
HOOP (END)	D10@150	D10@150
TIE BAR	D10	D10

# 부재별 일람표

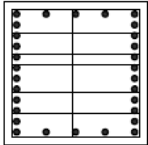
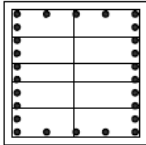
10C1





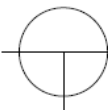
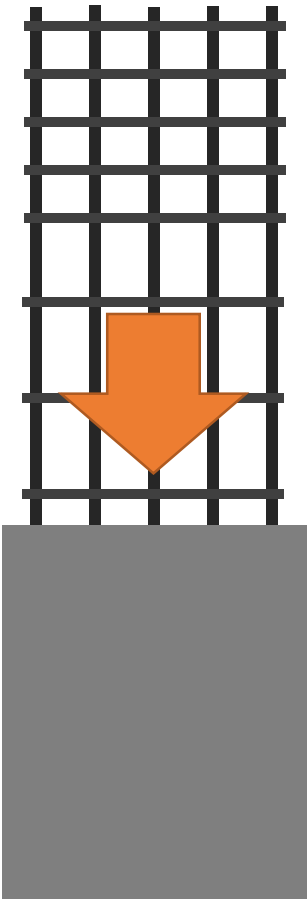
기둥 일람표 - 1

SCALE : NONE

NAME	10C1	1~10C2
TYPE		
SIZE	700X1500	700X1100
MAIN BAR-1	30-D29	26-D29
MAIN BAR-2		
MAIN BAR-3		
HOOP (MID)	D10@300	D10@300
HOOP (END)	D10@150	D10@150
TIE BAR	D10	D10

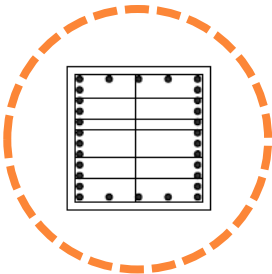
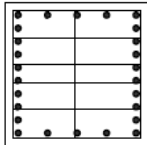
# 부재별 일람표

10C1



기둥 일람표 - 1

SCALE : NONE

NAME	10C1	1~10C2
TYPE		
SIZE	700X1500	700X1100
MAIN BAR-1	30-D29	26-D29
MAIN BAR-2		
MAIN BAR-3		
HOOP (MID)	D10@300	D10@300
HOOP (END)	D10@150	D10@150
TIE BAR	D10	D10

주철근



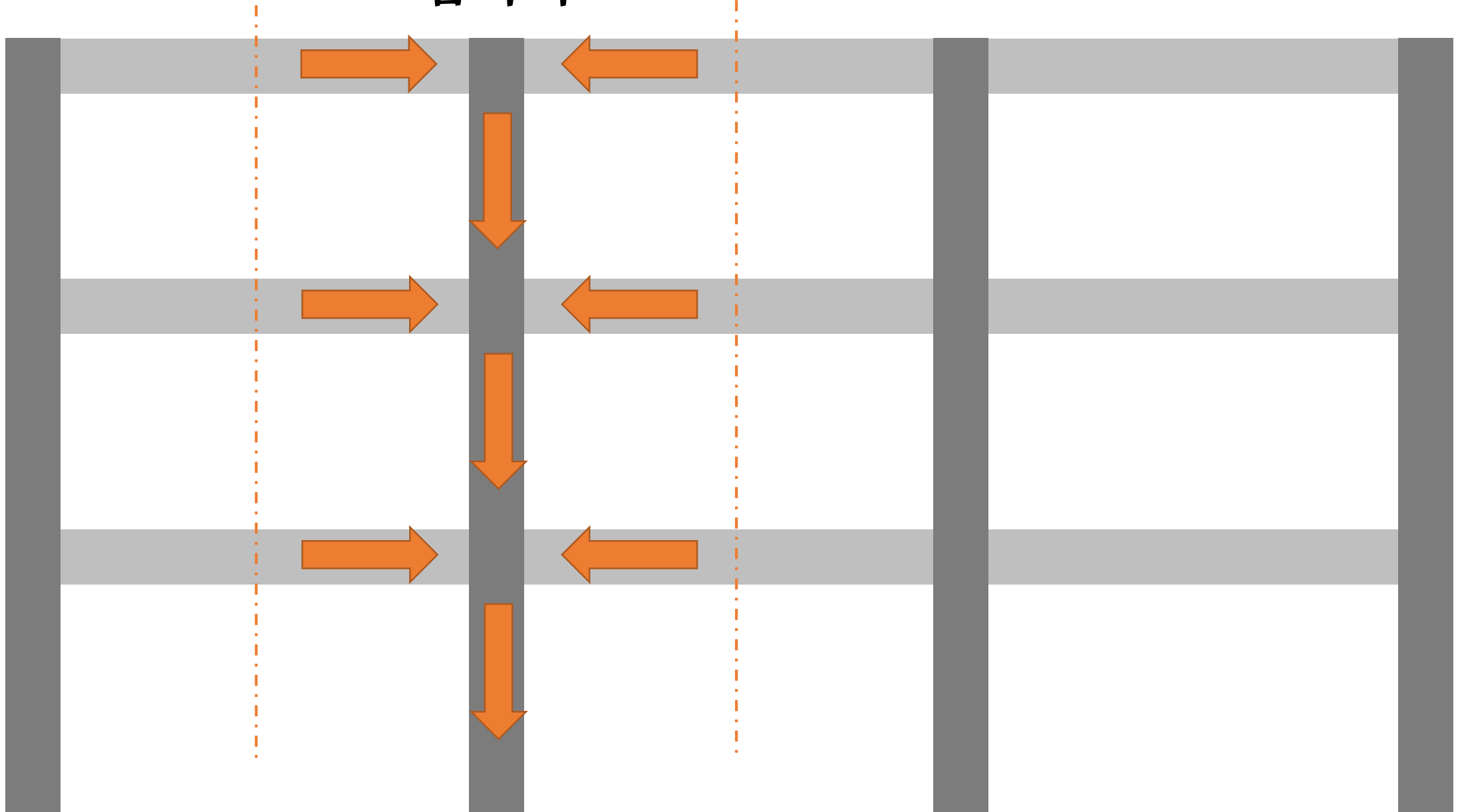
띠철근  
(Tie-bar)

후프  
(Hoop)

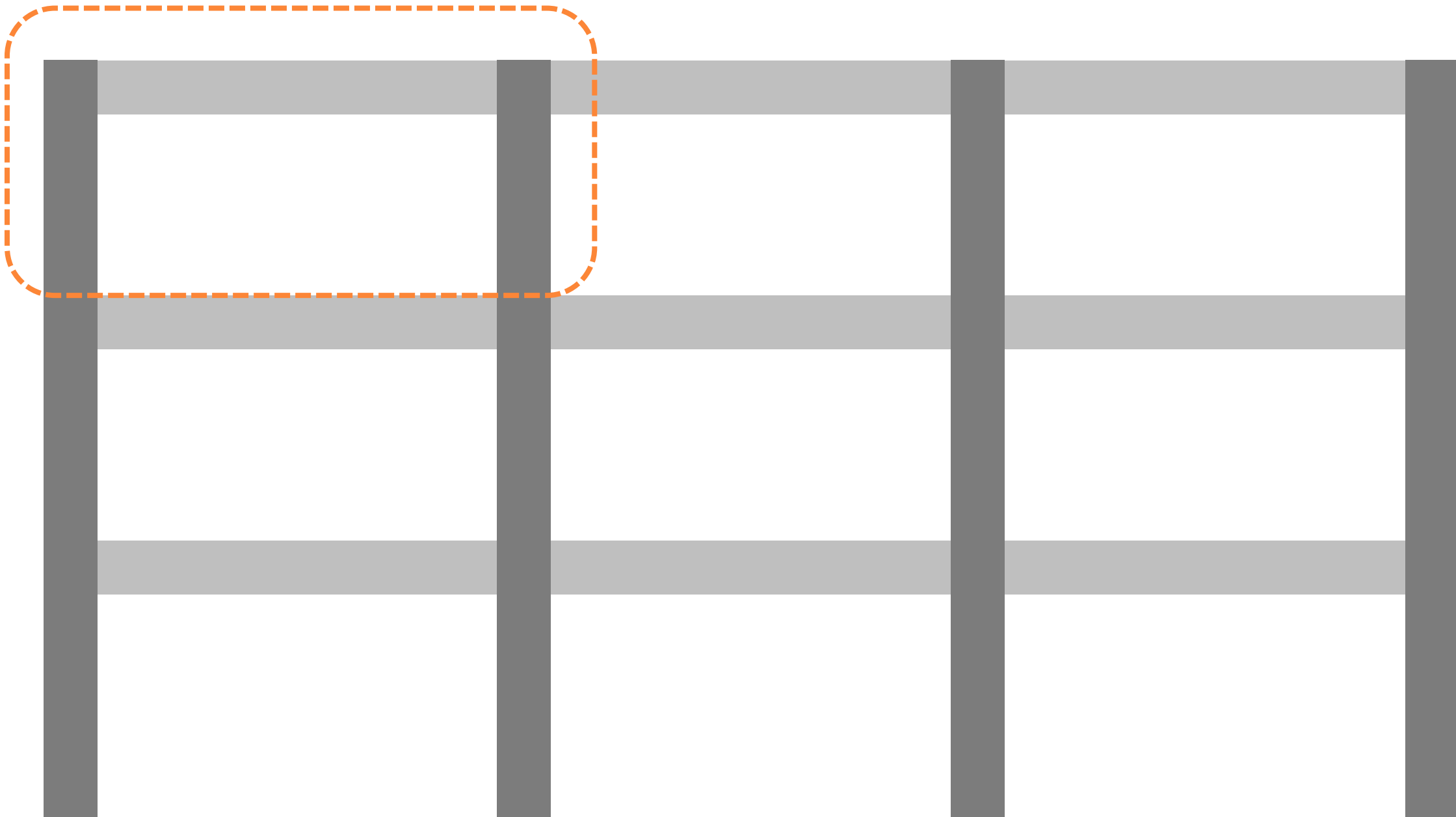
# 주철근의 역할

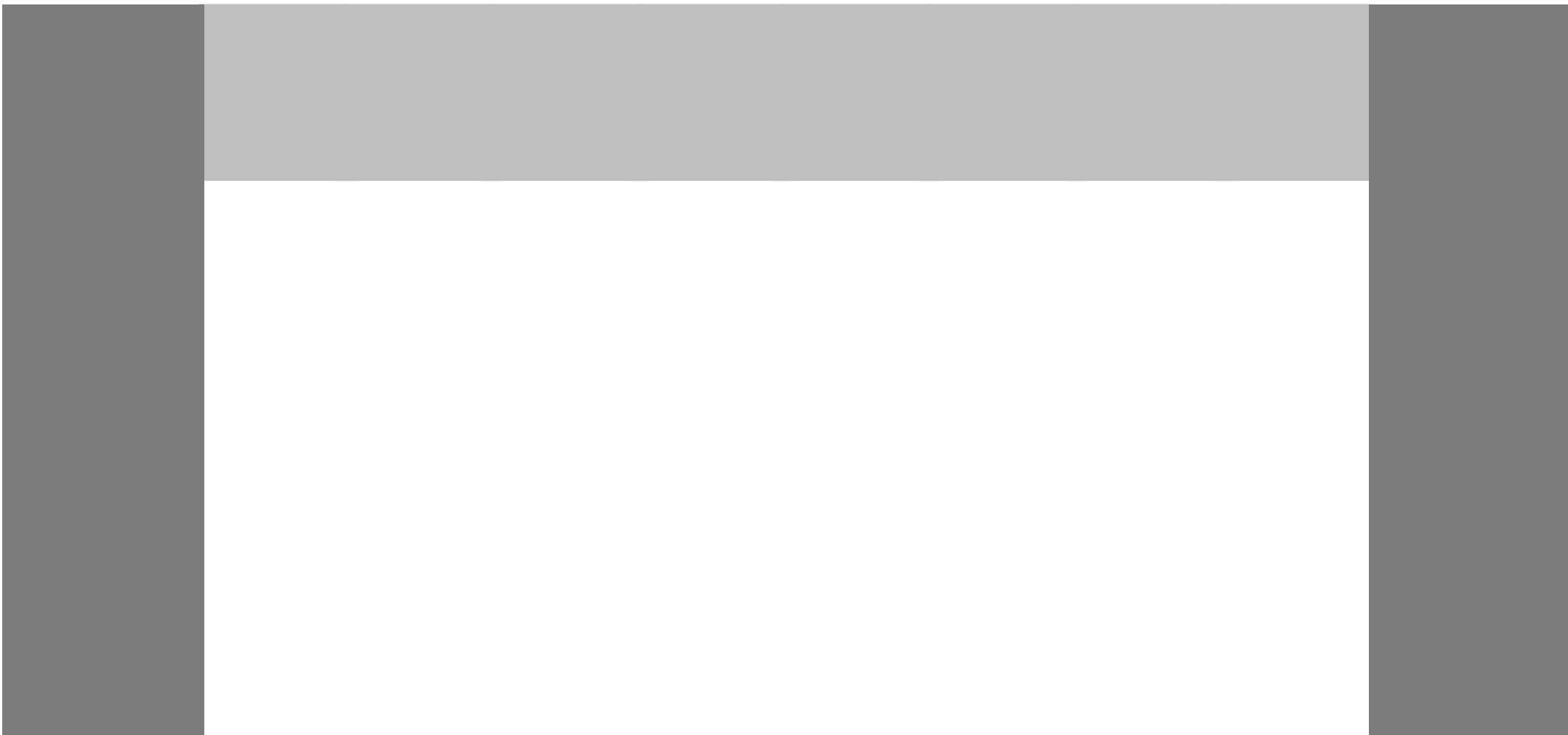
- 압축력 - 축방향력을 콘크리트와 분담
- 인장력 - 휨모멘트때문에 발생하는 인장력에 저항

압축력

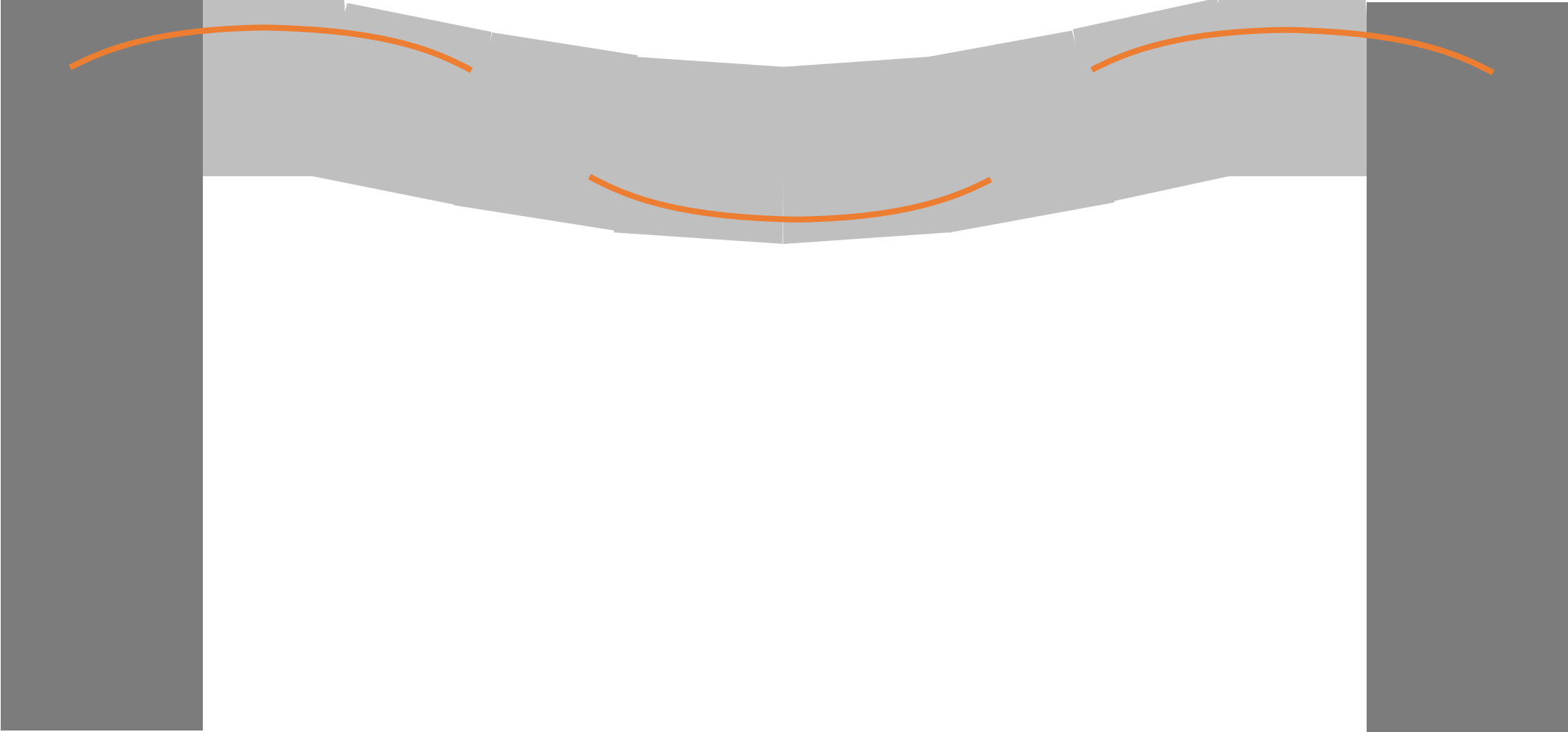




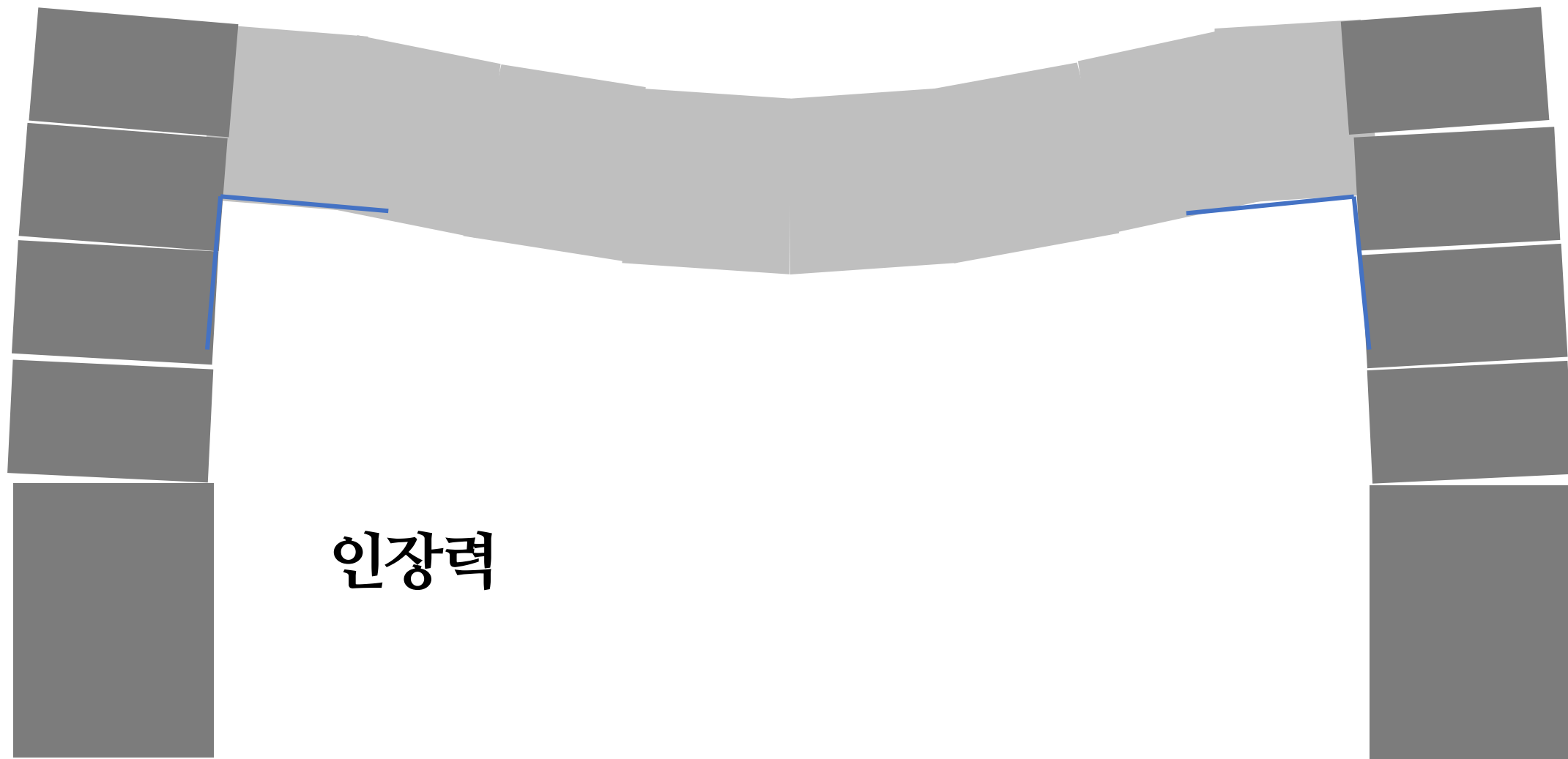












인장력

주철근

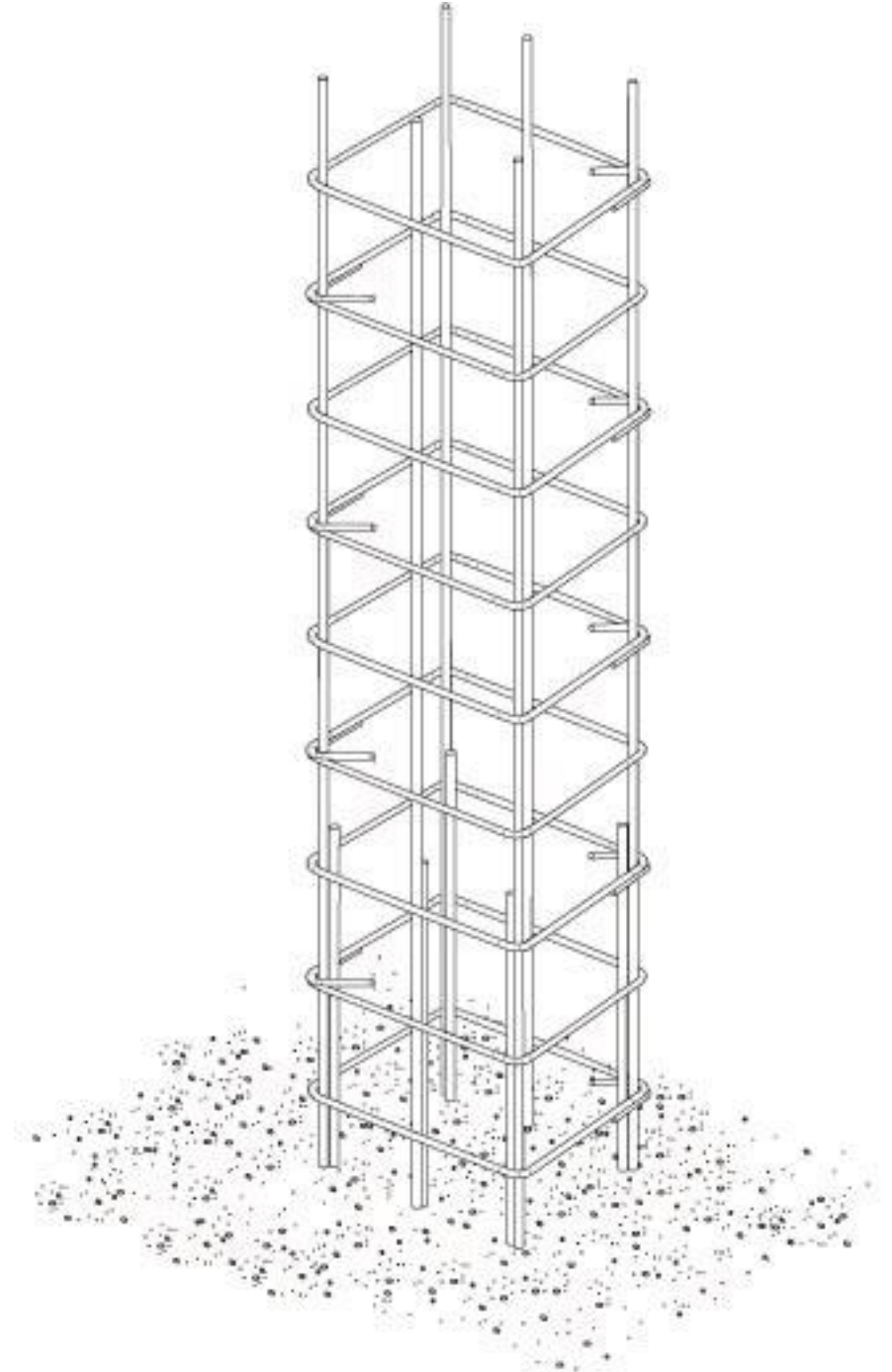


띠철근  
(Tie-bar)

후프  
(Hoop)

# 띠철근의 역할

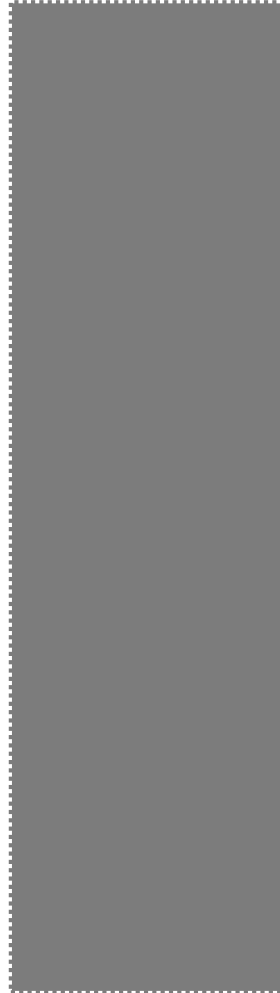
- 축방향 주근의 고정 및 좌굴 억제
- 내부 콘크리트의 구속
- 전단보강근





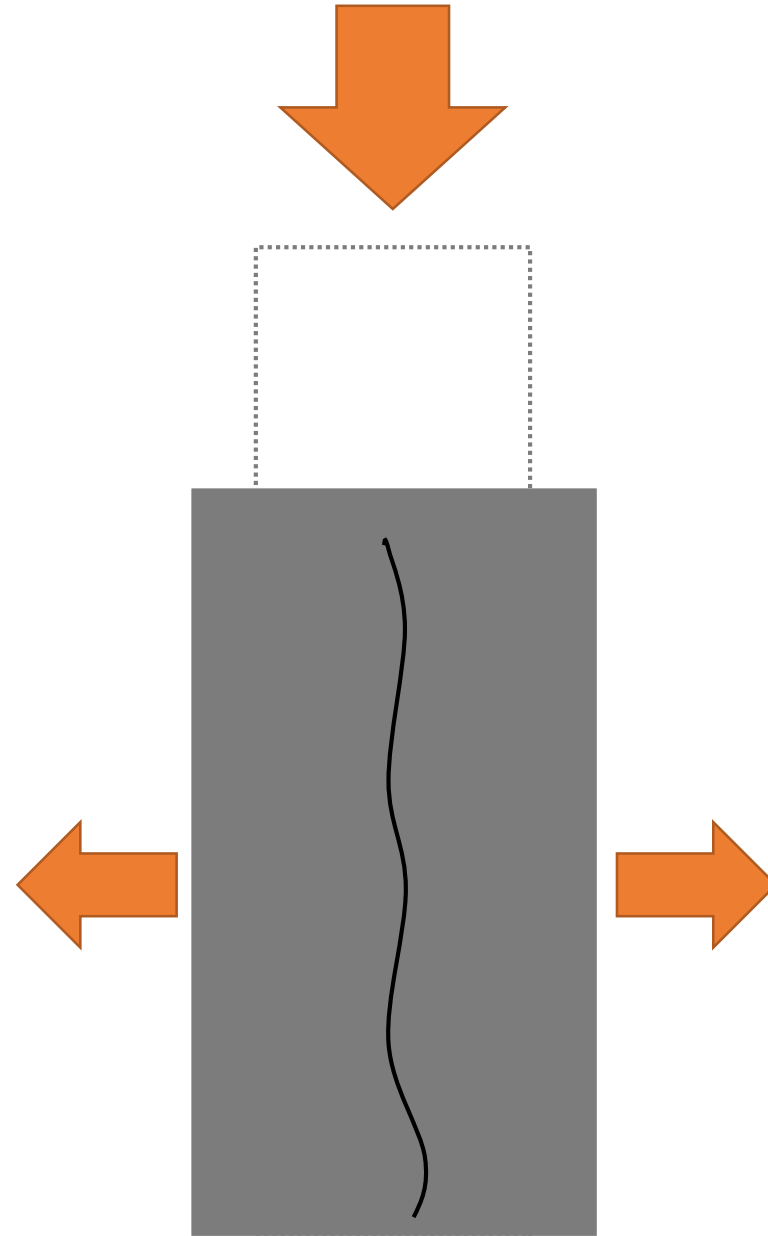
# 띠철근의 역할

- 내부 콘크리트의 구속



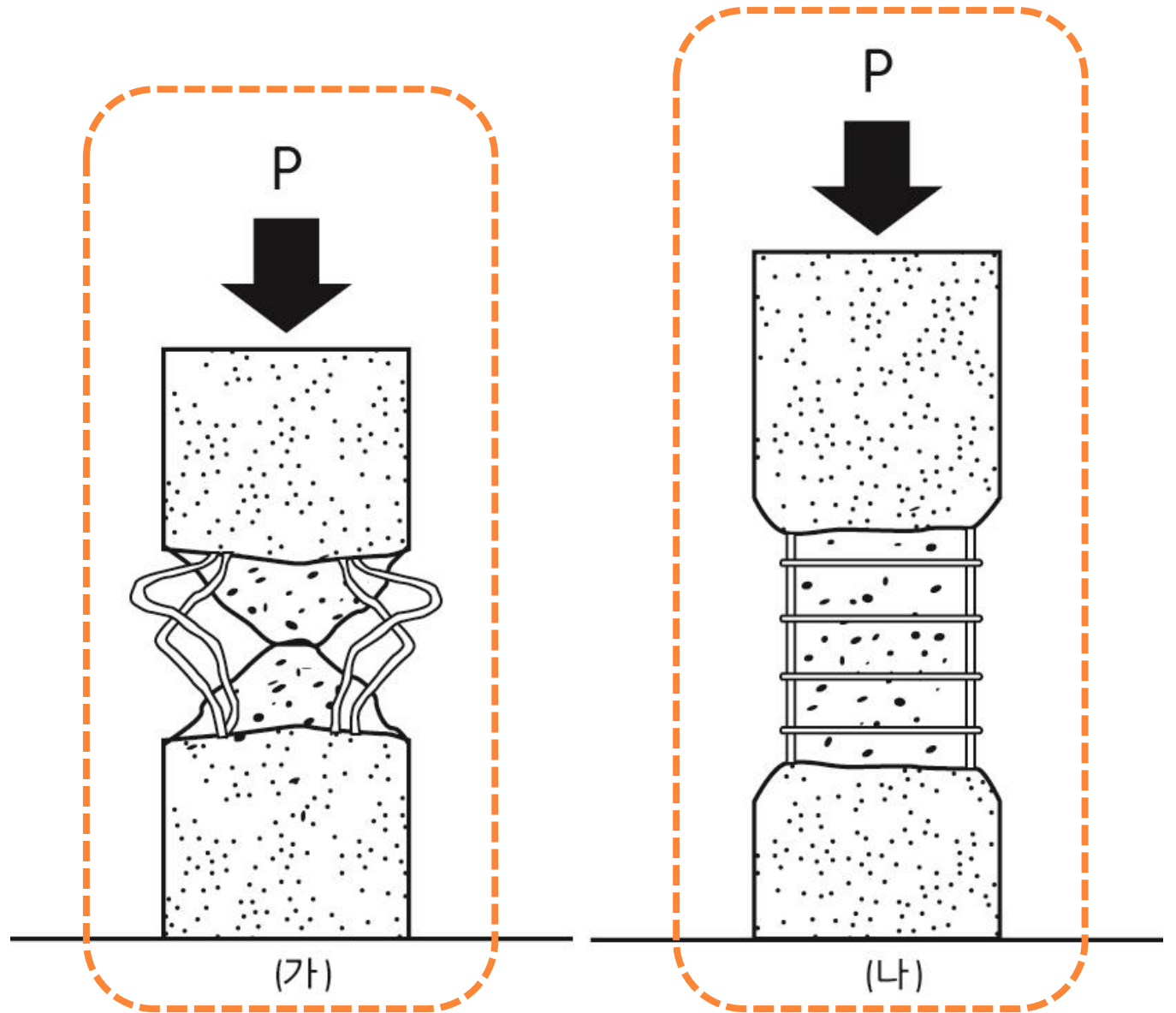
# 띠철근의 역할

- 내부 콘크리트의 구속
- 포아송(Poisson)비  
= 횡방향변형/축방향변형  
= 1/6

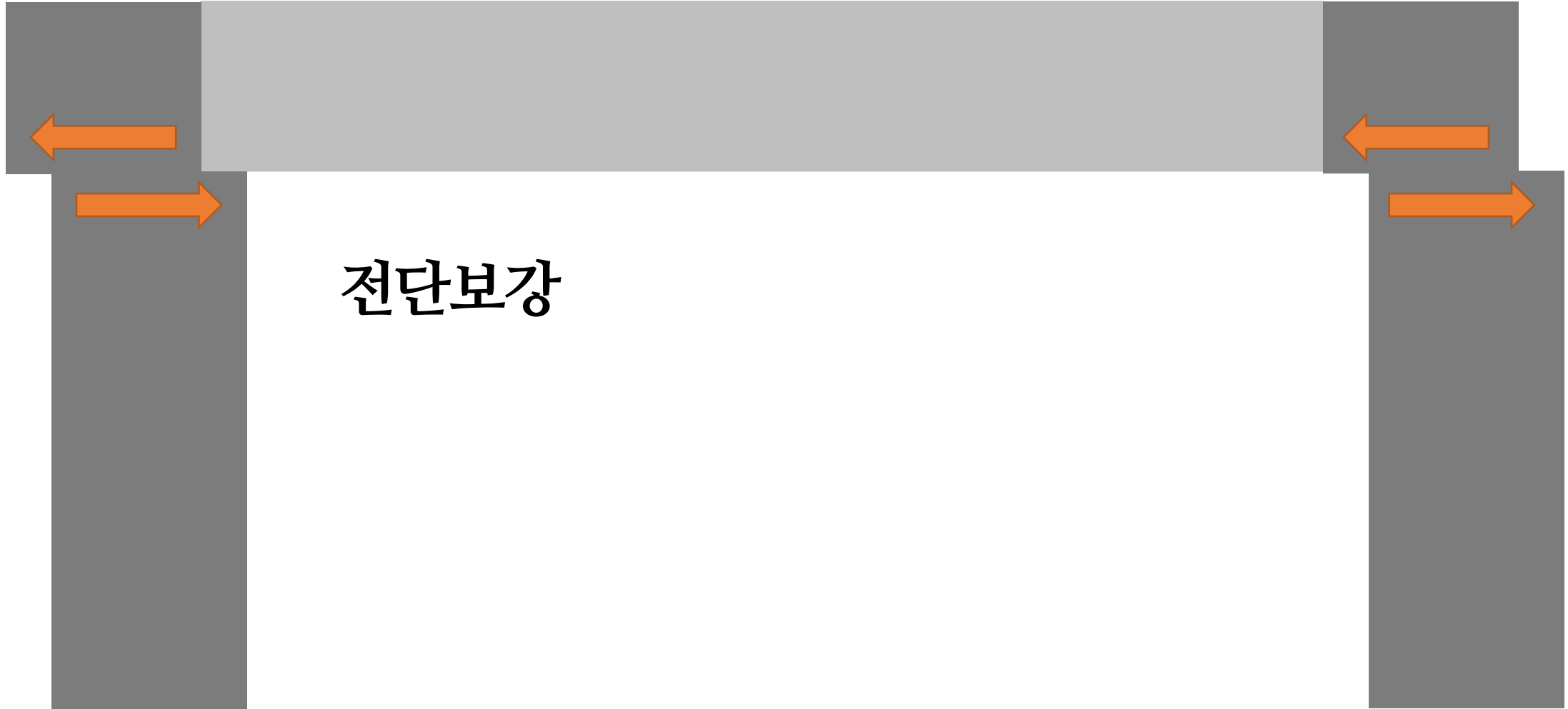


# 띠철근의 역할

- 내부 콘크리트의 구속



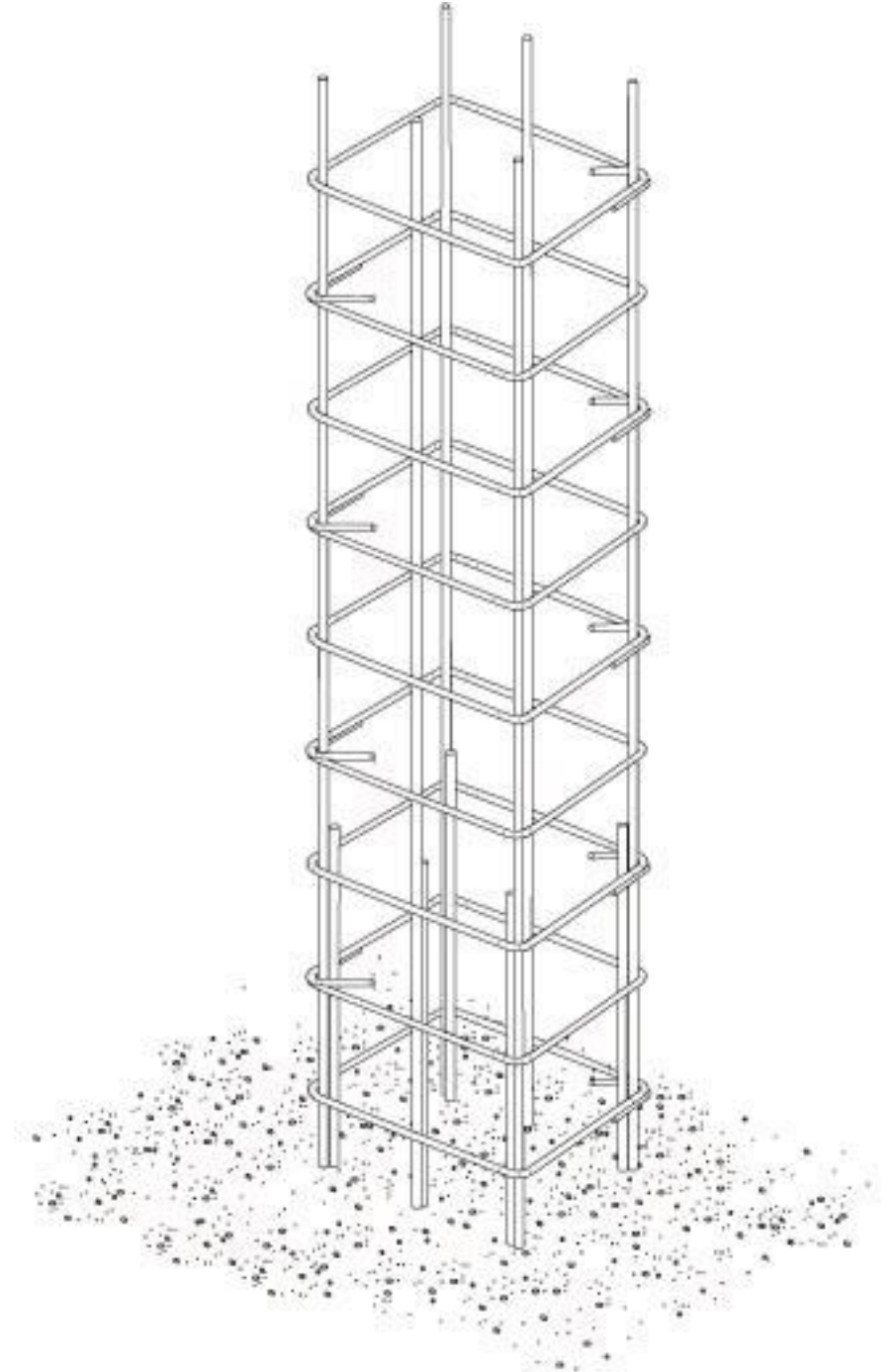




전단보강

# 띠철근의 역할

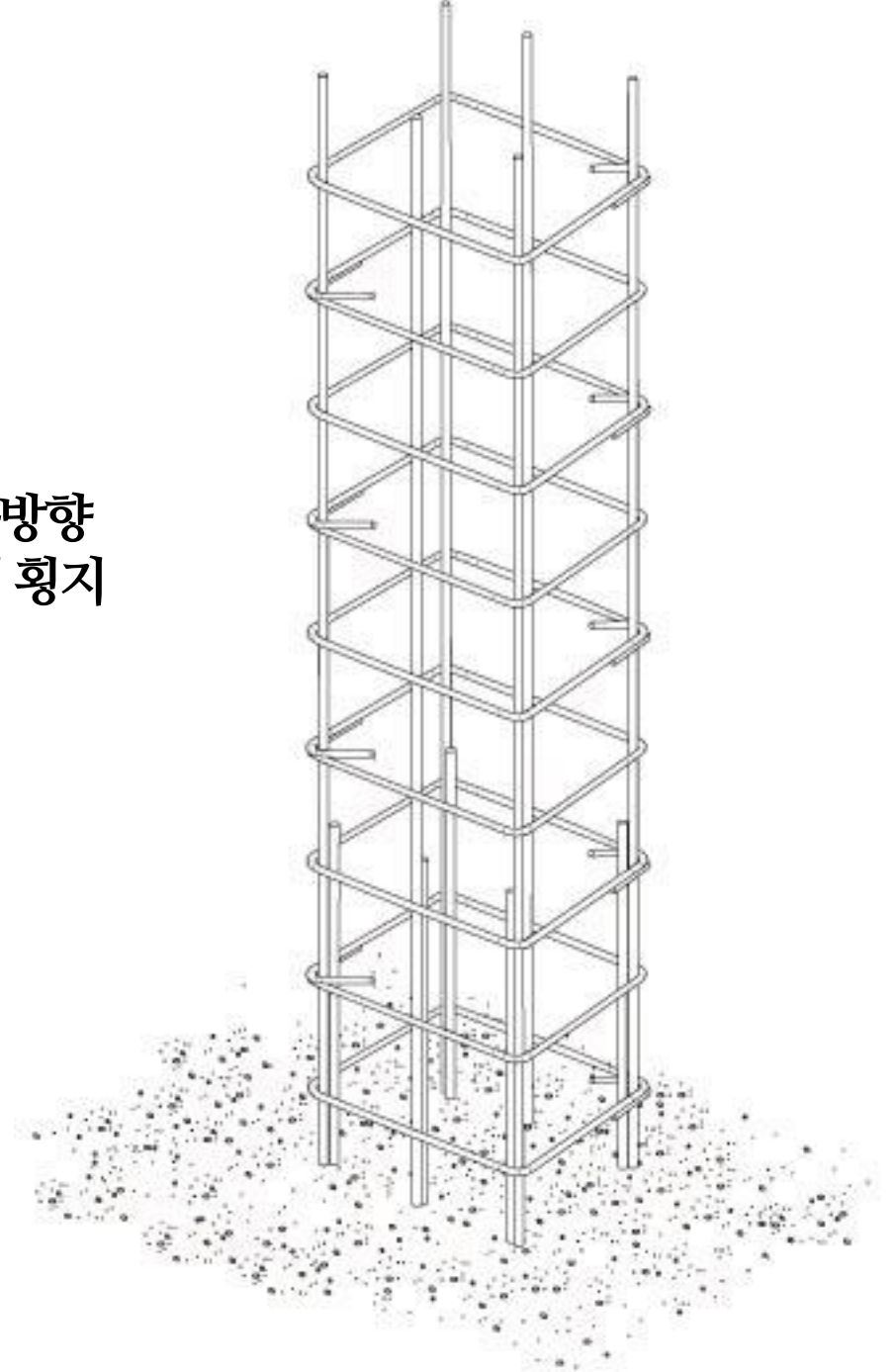
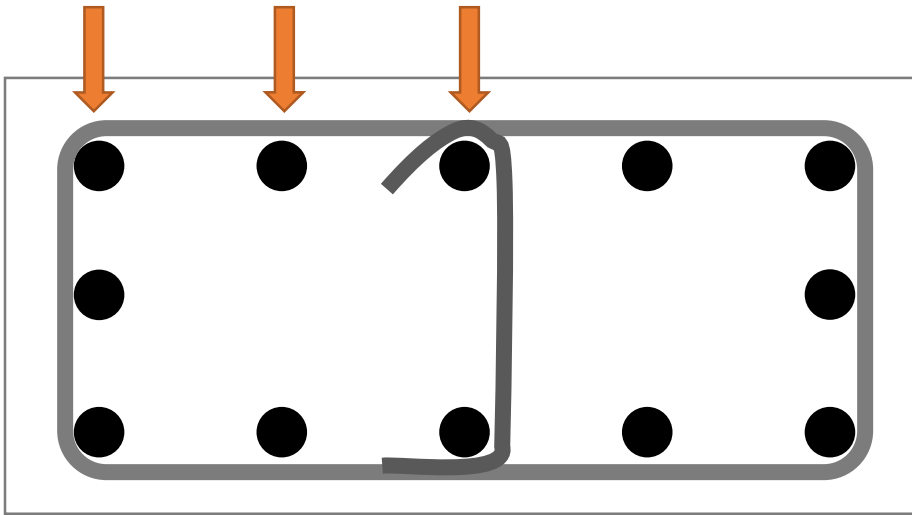
- 축방향 주근의 고정 및 좌굴 억제
- 내부 콘크리트의 구속
- 전단보강근



# 띠철근 설계 기준

- 띠철근 배치 규정

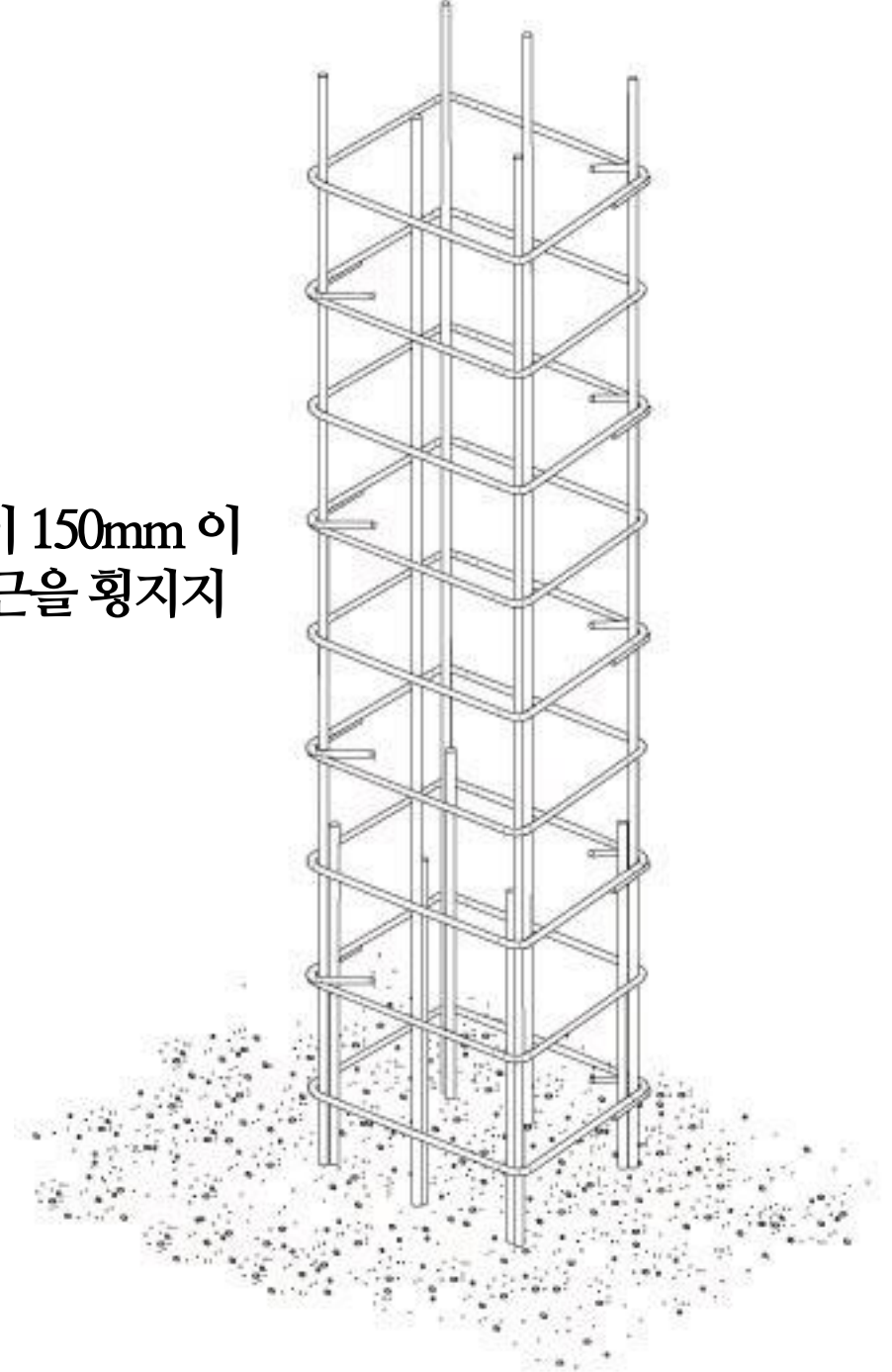
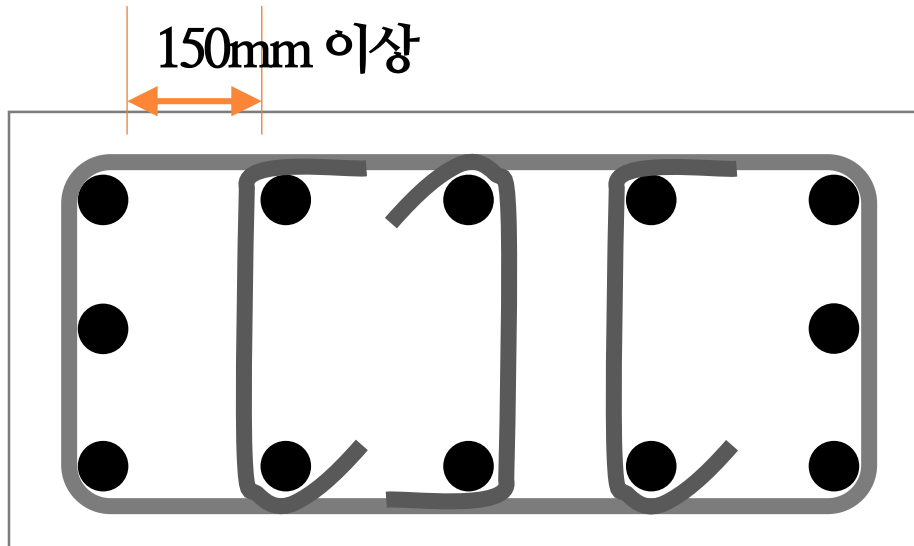
모든 모서리 축방향 철근과 하나 건너 위치하고 있는 축방향 철근들은  $135^\circ$  이하로 구부린 띠철근의 모서리에 의해 횡지  
지되어야 한다



# 띠철근 설계 기준

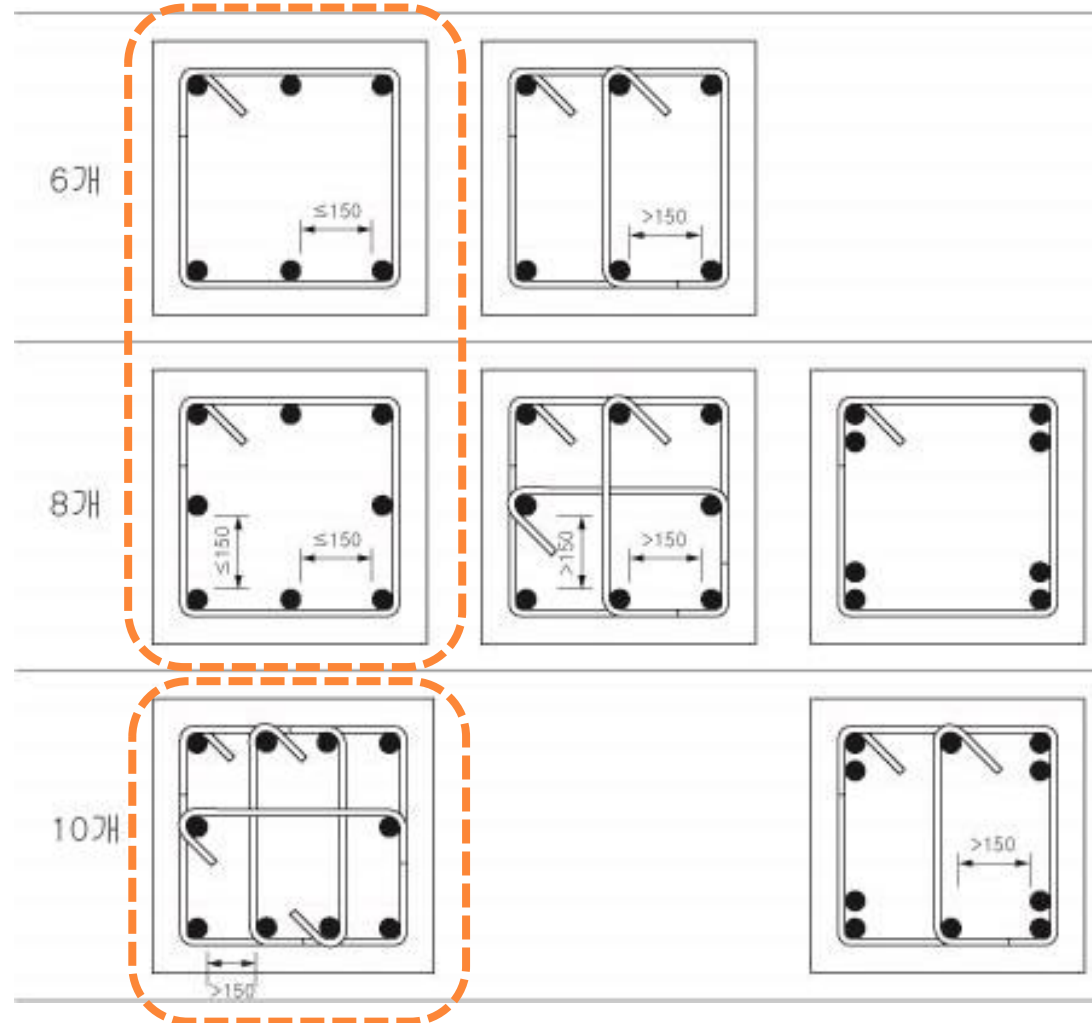
- 띠철근 배치 규정

띠철근을 따라 횡지지된 인접한 축방향 철근의 순간격이 150mm 이상 떨어진 경우에는 추가 띠철근을 배치하여 축방향 철근을 횡지지





# 띠철근 배치 예



기둥 주근과 띠철근의 역할과  
띠철근의 배치에 대해 살펴보았습니다.

**철근 지식 저장소**

<https://next-rebar.tistory.com/>