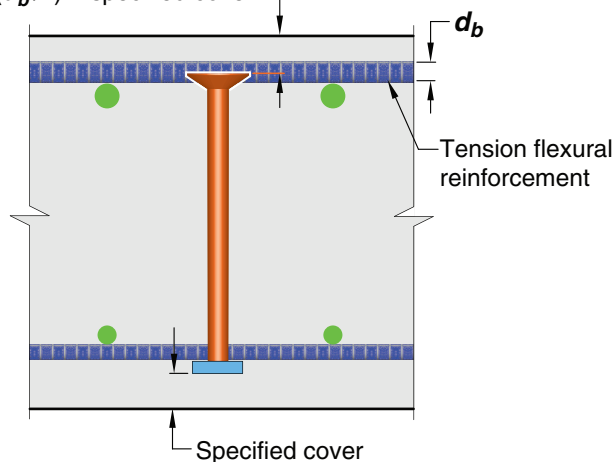


CODE

COMMENTARY

Maximum cover to head (8.7.7)

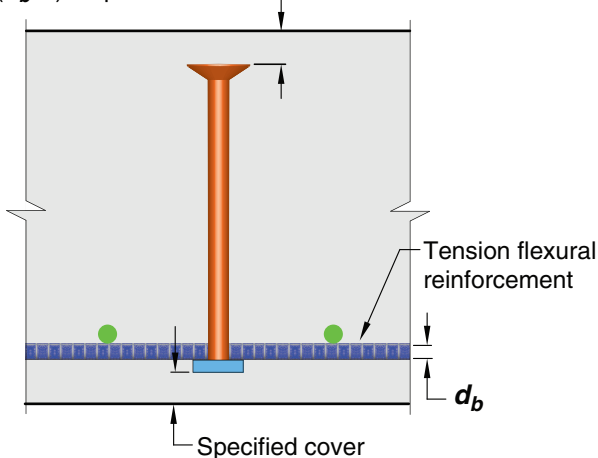
$$= (d_b/2) + \text{specified cover}$$



(a) Slab with top and bottom bars

Maximum cover to head (8.7.7)

$$= (d_b/2) + \text{specified cover}$$



(b) Footing with only bottom bars

Fig. R20.5.1.3.6—Concrete cover requirements for headed shear stud reinforcement.

20.5.1.4 Specified concrete cover requirements for corrosive environments

20.5.1.4.1 In corrosive environments or other severe exposure conditions, the specified concrete cover shall be increased as deemed necessary. The applicable requirements for concrete based on exposure categories in 19.3 shall be satisfied, or other protection shall be provided.

R20.5.1.4 Specified concrete cover requirements for corrosive environments

Corrosive environments are defined in 19.3.1, R19.3.1, and R19.3.2. Additional information on corrosion in parking structures is given in ACI 362.1R.

R20.5.1.4.1 Where concrete will be exposed to external sources of chlorides in service, such as deicing salts, brackish water, seawater, or spray from these sources, concrete should be proportioned to satisfy the requirements for the applicable exposure class in Chapter 19. These include maximum w/cm , minimum strength for normalweight and lightweight concrete, and maximum chloride ion in the concrete. Addi-