

TABLE 722.5.1(9)
MINIMUM COVER (inch) FOR STEEL COLUMNS IN NORMAL-WEIGHT PRECAST COVERS^a [FIGURE 722.5.1(6)(a)]

STRUCTURAL SHAPE	FIRE-RESISTANCE RATING (hours)						
	1	1½	2	3	4		
W14 × 233	1½	1½	1½	2½	3		
× 211			2		3½		
× 176				3			
× 145		2	4				
× 109				3½			
× 99			4½				
× 61		4					
× 43				4½			
W12 × 190		1½	1½		1½	2½	3½
× 152	2				3	4	
× 120				3½			
× 96	2		4				
× 87				4½			
× 58			4½				
× 40	4½						
W10 × 112				1½	1½	2	3
× 88			4				
× 77	2	3½					
× 54					4½		
× 33	4½						
W8 × 67		1½	1½	2	3	4	
× 58			2	2½	3½		
× 48	4						
× 28						4½	
× 21			2½	3	4		
× 18	4½						
W6 × 25			1½	2	2½	3½	4½
× 20		2½		3	4		
× 16	4						
× 12						5	
× 9							

For SI: 1 inch = 25.4 mm.

a. The tabulated thicknesses are based on the assumed properties of normal-weight concrete given in Table 722.5.1(2).

TABLE 722.5.1(10)
MINIMUM COVER (inch) FOR STEEL COLUMNS IN STRUCTURAL LIGHTWEIGHT PRECAST COVERS^a [FIGURE 722.5.1(6)(a)]

STRUCTURAL SHAPE	FIRE-RESISTANCE RATING (hours)				
	1	1½	2	3	4
W14 × 233	1½	1½	1½	2	2½
× 176				2½	3
× 145					
× 132					
× 109					
× 99			2	3½	
× 68					
× 43			3		
W12 × 190	1½	1½	1½	2	2½
× 152				2½	3
× 136					
× 106					
× 96					
× 87			2	3½	
× 65					
× 40			3		
W10 × 112	1½	1½	1½	2	3
× 100			2½	3	
× 88					
× 77					
× 60					
× 39		2	3	3½	
× 33					
W8 × 67	1½	1½	1½	2½	3
× 48			2	3	3½
× 35					
× 28					
× 18		2	2½	4	
W6 × 25	1½	2	2	3	3½
× 15			2½	3½	4
× 9					

For SI: 1 inch = 25.4 mm.

a. The tabulated thicknesses are based on the assumed properties of structural lightweight concrete given in Table 722.5.1(2).