TABLE 722.5.1(7)
MINIMUM COVER (inch) FOR STEEL COLUMNS ENCASED IN NORMAL-WEIGHT CONCRETE® [FIGURE 722.5.1(6)(c)]

STRUCTURAL SHAPE	FIRE-RESISTANCE RATING (hours)					
	1	11/2	2	3	4	
W14 × 233				11/2	2	
× 176			1	1 /2		
× 132		1			$2^{1}/_{2}$	
× 90	1			2		
× 61			11/			
× 48		11/2	11/2	21/2	3	
× 43		1 /2		212		
W12 × 152		1	1	2	21/2	
× 96						
× 65	1					
× 50		$1^{1}/_{2}$	$1^{1}/_{2}$	21/2	3	
× 40				212		
W10 × 88	1			2		
× 49	1	11/2	11/2	21/2	3	
× 45						
× 39					31/2	
× 33			2		372	
W8 × 67		1	11/2	21/2	3	
× 58					3	
× 48	1					
× 31	1	1 ¹ / ₂			$3^{1}/_{2}$	
× 21		1 /2	2	3		
× 18					4	
W6 × 25		11/2	2	3	31/2	
× 20	1			3		
× 16		2	21/		4	
× 15	11/		21/2	$3^{1}/_{2}$	4	
× 9	11/2					
1						

For SI: 1 inch = 25.4 mm.

TABLE 722.5.1(8)

MINIMUM COVER (inch) FOR STEEL COLUMNS

ENCASED IN STRUCTURAL LIGHTWEIGHT CONCRETE^a

[FIGURE 722.5.1(6)(c)]

STRUCTURAL SHARE	FIRE-RESISTANCE RATING (HOURS)						
STRUCTURAL SHAPE	1	11/2	2	3	4		
W14 × 233				1	11/2		
× 193			1		1 /2		
× 74	1	1	1	11/2	2		
× 61					21/2		
× 43			11/2	2	212		
W12 × 65			1	11/2	2		
× 53	1	1	1	2	21/2		
× 40			11/2	2	272		
W10 × 112				11/2	2		
× 88	1	1	1	1 /2	2		
× 60	1	1		2	21/2		
× 33			11/2	2	212		
W8 × 35				2	21/2		
× 28	1	1	1 ¹ / ₂				
× 24	1		1 /2	21/2	3		
× 18		11/2		2 /2			

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).

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