Table 12.6.2.1 Reduction of Appliance Clearance with Specified Forms of Protection

Clearance Reduction Applied to and Covering All Combustible Surfaces within the Distance Specified as Required Clearance with No Protection *(See 12.6.1 through 12.6.1.3)*		Maximum Allowable Reduction in Clearance (%)		Minimum Clearance			
				As Wall Protector		As Ceiling Protector	
		As Wall Protector	As Ceiling Protector	in.	mm	in.	mm
(a)	3½ in. (90 mm) thick masonry wall without ventilated air space	33	—	24	610	—	—
(b)	½ in. (13 mm) thick noncombustible insulation board over 1-in. (25.4-mm) glass fiber or mineral wool batts without ventilated air space	50	33	18	457	24	610
(c)	0.024-in. (0.61-mm), 24-gauge sheet metal over 1-in. (25.4-mm) glass fiber or mineral wool batts reinforced with wire, or equivalent, on rear face with ventilated air space	66	50	12	305	18	457
(d)	3½ in. (90 mm) thick masonry wall with ventilated air space	66	—	12	305	—	—
(e)	0.024-in. (0.61-mm), 24-gauge sheet metal with ventilated air space	66	50	12	305	18	457
(f)	½ in. (13 mm) thick noncombustible insulation board with ventilated air space	66	50	12	305	18	457
(g)	0.024-in. (0.61-mm), 24-gauge sheet metal with ventilated air space over 0.024-in. (0.61-mm), 24-gauge sheet metal with ventilated air space	66	50	12	305	18	457
(h)	1-in. (25.4-mm) glass fiber or mineral wool batts sandwiched between two sheets 0.024-in. (0.61-mm), 24-gauge sheet metal with ventilated air space	66	50	12	305	18	457

Notes:

1. All clearances and thicknesses are minimums; larger clearances and thicknesses may be permitted.
2. To calculate the minimum allowable clearance, the following formula can be used: $C_{pr} = C_{wn}\,(1 - R/100)$. C_{pr} is the minimum allowable clearance, C_{wn} is the required clearance with no protection, and R is the maximum allowable reduction in clearance.
3. Refer to Figures 12.6.2.1 (e) and 12.6.2.1 (f) for other reduced clearances using materials found in (a) through (h) of this table.