

PRINCIPLES OF GUARDING

TABLE 22-C SPECIFICATIONS OF GUARDS FOR HORIZONTAL OVERHEAD BELTS, ROPES, AND CHAINS 7 FT OR MORE ABOVE FLOOR OR PLATFORM

	For Belt Widths			Material
	10 to 14 in.	14 to 24 in.	Over 24 in.	
MEMBERS				
Framework	1½x1½x¼ in	2x2x½ in.	3x3x¾ in.	Angle iron
Filler (belt guards)	1½x½ in	2x½ in	2x½ in.	Flat iron
Filler and vertical side member	No 20 A W G	No 18 A W G	No 18 A W C.	Solid sheet metal
Filler supports	2x½ in flat iron	2x¾ in flat iron	2½x2½x¼ in angle	Flat and angle iron
Guard supports	2x½ in.	2x¾ in	2½x¾ in.	Flat iron
FASTENINGS				
Filler supports to framework	(2) ½ in.	(2) ¾ in	(3) ½ in.	Rivets
Filler flats to supports (belt guards)	(1) ½ in.	(1) ½ in	(2) ¾ in.	Flush rivets
Filler to frame & supports (rope & chain guards)	½ in rivets spaced 8 in centers on sides and 4 in centers on bottom			Rivets or bolts
Guard supports to framework	(2) ¾ in.	(2) ½ in	(2) ¾ in.	Lag screws or bolts
Guard and supports to overhead ceiling	¾x3½ in lag screws or ½ in bolts	¾x4 in. lag screws or ¾ in bolts	¾x6 in lag screws or ¾ in. bolts	
DETAILS—SPACING, ETC.				
Width of guards	One-quarter wider than belt, rope, or chain drive			
Spacing between filler supports	20 in C. to C.	16 in C. to C	16 in. C. to C	
Spacing between filler flats (belt guards)	2 in apart	2½ in apart	3 in apart	
Spacing between guard supports	36 in C to C	36 in C to C	36 in C. to C.	
OTHER BELT GUARD FILLING PERMITTED				
Sheet metal	No 20 A W G.	No 18 A W G.	No 18 A W G	Solid or perforated
Woven wire, 2 in mesh	No 12 A W G	No 10 A W G.	No 8 A W G.	

CLEARANCE FROM OUTSIDE OF BELT TO GUARD

Distance center to center of shafts	Up to 15 ft inclusive	Over 15 to 25 ft inc	Over 25 to 40 ft inc	Over 40 ft
Clearance from belt to guard	6 in	10 in.	15 in.	20 in

From American Standards Association, *Safety Code for Mechanical Power-Transmission Apparatus* B15.1.

should conform to the following standards *

- 1 The guard rail should be not less than 42 in. high with a midrail approximately between the top rail and the floor, platform, runway, or ramp, unless the space

between the top rail and the floor is filled in with wire mesh, expanded metal, plywood, or other material of equal strength.

2. Posts should not be more than 8 ft apart Members of the guard rail should