

Bar Size	Hole Diameter (mm)	Embedment (mm)	Tension Ultimate Bond Strength (kN)		Allowable Shear Strength
			100% $F_y$	125% $F_y$	
#13	16	117	53.4	66.7	11.7
#16	19	144	82.7	103.4	21.3
#19	25	171	117.4	146.8	33.1
#22	29	198	160.1	200.2	46.9
#25	32	225	210.8	263.5	64.0
#29	35	261	266.9	333.6	83.2

1. *Values are based on the use of 420 MPa reinforcement.*
2. *Embedments shown are considered as deep.*
3. *Anchors are considered 100% effective if the edge distance is equivalent to, or greater than, the standard embedment depth. The edge distance may be reduced to half the standard embedment depth if the strength is reduced linearly to 70%.*
4. *Anchors are considered 100% effective if the spacing is equivalent to, or greater than, the standard embedment depth. Spacing may be reduced to half the standard embedment depth if the strength is reduced linearly to 50%.*

## DESIGN DATA FOR ANCHOR SYSTEMS

**Figure 72-5A**