4.3.8 HDI & HDI-L Drop-In Anchor

Anchor Spacing and Edge Distance Guidelines (See Anchoring Technology Section 4.1.3)

Anchor Spacing Adjustment Factors

s = Actual Spacing

s_{min} = 2.0 h_{nom}

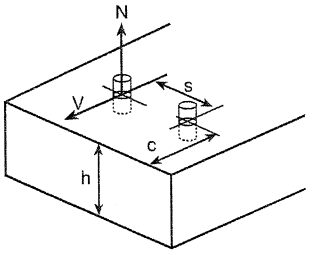
s_{cr} = 3.5 h_{nom}

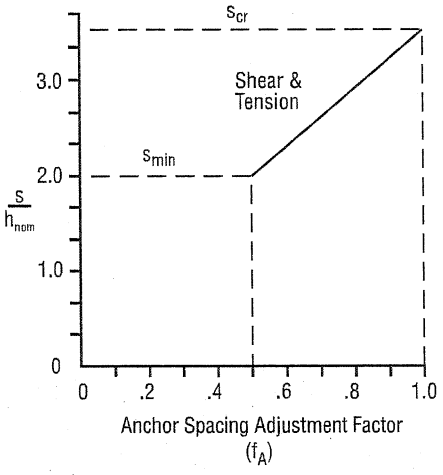
Edge Distance Adjustment Factors

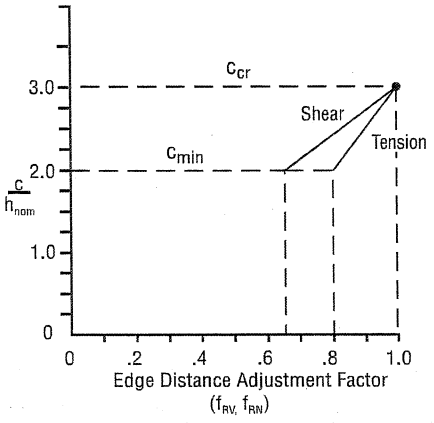
c = Actual edge distance

c_{min} = 2.0 h_{nom}

c_{cr} = 3.0 h_{nom}







Influence of Anchor Spacing & Edge Distance f_A, f_R

Anchor Size in. (mm)	h_{nom} in. (mm)
1/4 (6.4)	**1** (25)
3/8 (9.5)	**1-9/16** (40)
1/2 (12.7)	**2** (51)
5/8 (15.8)	**2-9/16** (65)
3/4 (19.1)	**3-3/16** (81)

h_{nom} = standard embedment depth

Load Adjustment Factors (Anchor Spacing) f_A						Load Adjustment Factors (Edge Distance) f_R										
Tension/Shear Loads						Tension, f_{RN}						Shear, f_{RV}				
Spacing s in. (mm)	Anchor Diameter					Edge Distance c in. (mm)	Anchor Diameter					Anchor Diameter				
	1/4	3/8	1/2	5/8	3/4		1/4	3/8	1/2	5/8	3/4	1/4	3/8	1/2	5/8	3/4
2 (51)	.50					**2** (51)	.80					.65				
2-1/2 (64)	.67					**2-1/2** (64)	.90					.83				
3 (76)	.83	.50				**3** (76)	1.0	.80				1.0	.65			
3-1/2 (89)	1.0	.58				**3-1/2** (89)		.85					.73			
4 (102)		.69	.50			**4** (102)		.91	.80				.85	.65		
4-1/2 (114)		.79	.58			**4-1/2** (114)		.98	.85				.96	.74		
5 (127)		.90	.67	.50		**5** (127)		1.0	.90	.80			1.0	.83	.65	
5-1/2 (140)		1.0	.75	.55		**5-1/2** (140)			.95	.83				.91	.70	
6 (152)			.83	.61	.50	**6** (152)			1.0	.87				1.0	.77	
7 (178)			1.0	.74	.57	**6-1/2** (165)				.91	.80				.84	.65
8 (203)				.87	.67	**7** (178)				.95	.84				.91	.72
9 (229)				1.0	.77	**8** (203)				1.0	.90				1.0	.83
10 (254)					.88	**9** (229)					.96					.94
11 (279)					.98	**10** (254)					1.0					1.0
12 (305)					1.0											
s_{min} = 2.0 h_{nom}, s_{cr} = 3.5 h_{nom} $f_A = 0.33 \frac{s}{h_{nom}} - 0.17$ for $s_{cr} > s > s_{min}$						c_{min} = 2.0 h_{nom}, c_{cr} = 3.0 h_{nom} $f_{RN} = 0.2 \frac{c}{h_{nom}} + 0.4$ for $c_{cr} > c > c_{min}$						c_{min} = 2.0 h_{nom}, c_{cr} = 3.0 h_{nom} $f_{RV} = 0.35 \frac{c}{h_{nom}} - 0.05$ for $c_{cr} > c > c_{min}$				