



Linear Gate Openers CSI724 Wedge Anchor Bolt Installation Guide

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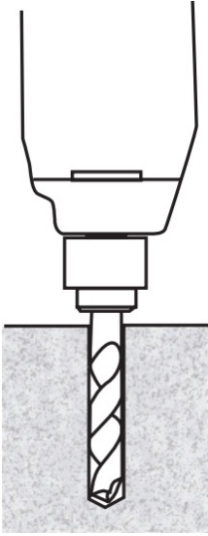


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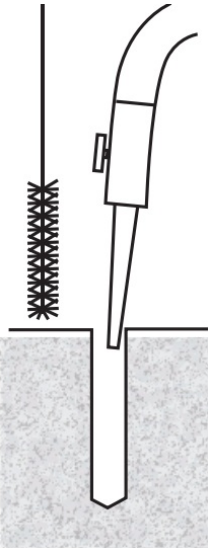
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Wedge Anchor Bolt Installation Instructions

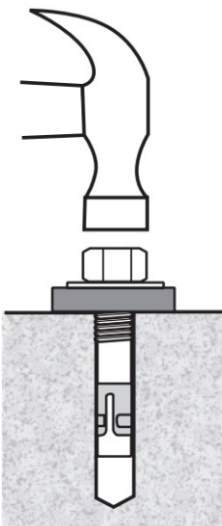
1. Drill the hole, whose diameter equals the anchor diameter, perpendicular to the work surface. To assure full holding power, do not ream the hole or allow the drill to wobble. Drill the hole deeper than the intended embedment, but not closer than two diameters to the opposite surface of the concrete.



2. A clean hole is necessary for proper performance. Clean the hole using a nylon brush and compressed air.

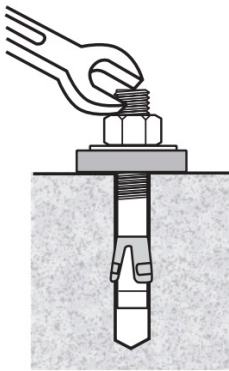


3. Assemble the nut and washer onto the anchor. Drive the anchor through the material to be fastened at the calculated embedment depth.



4. Tighten the nut, or head, 3 to 5 turns past the hand tight position. Installing with a torque wrench is

recommended for optimum performance. Refer to Recommended Setting Torque* in the table below.



NOTE : Always wear safety glasses. Follow drill manufacturer’s instructions. Use only solid carbide-tipped drill bits meeting ANSI B212.15 diameter standards.

Installation Data Tables

*Torque Values

Anchor Dia.(in.) 1/4	Recommended Setting Torque (ft lb.)		W /O Inspection Turns To Set
	for Zinc &Galvanized	Stainless Steel–	
	6-8	4-7	
3/8	20-25	20-25	3-5
1/2	50-55	40-50	3-S
5/8	90-95	80-90	3-5
3/4	165-175	14S-155	3-5
7/8	240-250	N/A	3-S
1	290-300	250-275	3-5

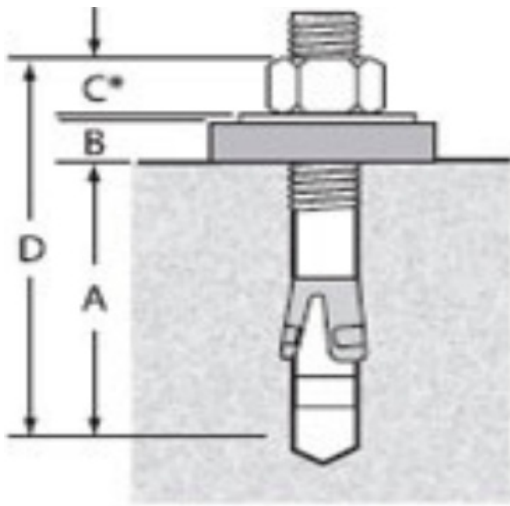
Recommended Edge Distance & Spacing

Anchor Diameter (In.)	Embedment Depth (In.)	Edge Distance Requirements (In.)
1/4	1-1/4	2-1/4
	2-7/8	2-1/8
3/8	1-3/4	3-1/8
	4-5/8	3-1/2
1/2	2-1/8	3-3/4
	2-1/2	4-3/8
	6-1/4	4-1/2
5/8	2-5/8	4-1/2
	3-1/4	5-1/2
	6-1/4	4-1/2
3/4	3-1/4	5-1/2
	3-3/4	6-1/2
	7-7/8	6
7/8	3-7/8	6-3/4
	8-5/8	6-1/2
1	4	7
	10-1/2	7- 7/8

Edge Distance

Embedment (E) in Anchor Diameters	Edge Distance
$E < 6d$ (shallow)	1.75E
$6d \leq E \leq 8d$ (standard)	1.00E
$8d < E$ (deep)	0.75E

Length Selection



Minimum Embedment (A)
+ Attached Material Thickness (B)
+ Nut Height (C)
= Total Anchor Length (D)
"Nut height equals anchor diameter.

Length Identification Codes

Code	Length of Anchor
A	$1-1/2 < 2$
B	$2 < 2-1/2$
C	$2-1/2 < 3$
D	$3 < 3-1/2$
E	$3-1/2 < 4$
F	$4 < 4-1/2$
G	$4-1/2 < 5$
H	$5 < 5-1/2$
I	$5-1/2 < 6$
J	$6 < 6-1/2$
K	$6-1/2 < 7$
L	$7 < 7-1/2$
M	$7-1/2 < 8$
N	$8 < 8-1/2$
O	$8-1/2 < 9$
P	$9 < 9-1/2$
Q	$9-1/2 < 10$
R	$10 < 11$
S	$11 < 12$
T	$12 < 13$
U	$13 < 14$
V	$14 < 15$
W	$15 < 16$
X	$16 < 17$
Y	$17 < 18$
Z	$18 < 19$

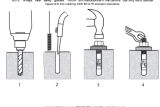
Load Adjustment Factor For Anchor Spacing

Spacing Tension 'AN (all dimensions in inches)

I Anchor Dia. 1/4			Anchor Dia. 3/8			Anchor Dia. 1/2			Anchor Dia. 5/8			Anchor Dia. 3/4		
Embe d. Depth	1-1/ 4	2-1/ 2	Embe d. Depth	1-3/ 4	4-5/ 8	Embe d. Depth	2-1/ 8	6-1/ 4	Embe d. Depth	2-3/ 4	6	Embe d. Depth	3-3/ 4	7-7/8
1-1/8			1	0.50		1			3			2		
1-1/4	0.65	0.70	1-1/4	0.65	0.7	1-1/4	0.60	0.70	2-1/4	0.65	0.7 5	2-1/4		
1-1/2	0.75	0.75	1-1/2	0.70	0.75	1-1/2	0.70	0.75	2-1/2	0.77	0.7 6	2-1/2		
1-3/4	0.78	0.79	1-3/4	0.73	0.79	2-1/4	0.83	0.78	2-3/4	0.95	0.7 8	3	0.60	
2	0.86	0.84	2	0.76	0.80	2-1/2	0.85	0.79	3-1/2	0.93	0.8 0	4	0.75	0.75
2-1/4	0.87	0.85	2-1/2	0.77	0.83	3	0.90	0.80	4	0.95	0.8 3	5	0.80	0.80
2-1/2	0.99	0.86	3	1.00	0.87	3-3/8	0.93	0.87	4-1/2	0.96	0.8 6	5-3/4	0.8 7	0.83
3	1.00	0.87	3	0.80	0.85	3-3/4	0.99	0.90	5-1/2	0.99	0.9 3	6-1/4	0.90	0.85
3-3/8		0.88	3-1/2	0.90	0.90	4-1/4	1.00	0.93	6	1.00	0.9 6	7	1.00	1 0.9 0
3-1/2		0.89	3-3/4	1.00	0.93	4-3/4		0.96	7		1.0 0	8		0.96
3-3/4		1.00	4		0.95	5		0.98				9		0.98
			4-1/2		0.98	6		0.99				10		1.00
			4-5/8		1.00	7		1.00						

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Documents / Resources

 Wedge Anchor Bolt Installation Instructions 1. Drill the hole, where diameter equals the anchor diameter, perpendicular to the work surface. To ensure full depth, use a long anchor bolt for the first hole and a shorter one for the second. To drill the hole, use a hammer drill and a carbide bit. Do not use a standard drill bit. 2. A clean hole is necessary for proper performance. Clean the hole using a nylon brush and compressed air. 3. Insert the anchor into the hole and push it down until it is flush with the surface. Do not use a hammer to force the anchor into the hole. 4. Tighten the nut and washer until the anchor is flush with the surface. Do not over-tighten.	Linear Gate Openers CSI724 Wedge Anchor Bolt [pdf] Installation Guide CSI724 Wedge Anchor Bolt, CSI724, Wedge Anchor Bolt, Anchor Bolt
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References

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