			psi Conc			Max. Worl		Item	Pkg.
Anchor Dia.	Min. Embedment	Ultimate Tension (I		imate ar (lb.)	Length	Thickness chor Dia.,	Length	No.	Qty.
1/4 in	1½ in	1015		472	3 ½ in	1/8 in	1 5% in	4KHU7	25
3/8 in	27/16 in	2367		151	4 ½ in	1 ½ in	2 5% in	4KHU8	25
½ in	29/16 in	5068		828	5 in	1 5% in	3 1/4 in	4KHU9	25
5/8 in	3% in	5556		659	6 in	2 5/8 in	4 1/8 in	4KHV1	25
3/4 in	45% in	11.975		.126	8 ½ in	5 ½ in	4 in	4KHV3	25
7∕8 in	4 in	13,902		.574		chor Dia.,			
1 in	4½ in	15.829		.023	4 1/4 in	1/8 in	2 % in	4KHV4	25
11/4 in	6½ in	23,090		.000	4 3/4 in	5% in	2 1/8 in	4KHV5	25
Ancho			Item	Pkg.	5 ½ in	1 3/8 in	3 5/8 in	4KHV6	20
Length			No.	Qty.	6 1/4 in	2 1/8 in	4 1/4 in	4KHV7	20
	nchor Dia., 1/				7 in	2 % in	4 in	4KHV8	15
1 3/4 in	3/8 in	7∕8 in	4KHT5	100	8 ½ in	4 3/8 in	4 in	4KHV9	15
2 1/4 in	7∕8 in	1 3/8 in	4KHT6	100	10 in	5 % in	4 in	4KHW1	15
3 1/4 in	1 % in	2 1/4 in	4KHT7	100	⅓ in An	chor Dia.,	7/8"-9 Thre	ad	
3/8 in A	nchor Dia., 3/	"-16 Threa	d		6 in	1 1/8 in	2 1/4 in	4KHW2	10
2 1/4 in	1/4 in	1 3/16 in	4KHT8	50	8 in	3 1/8 in	2 1/4 in	4KHW3	10
3 in	1 in	1 % in	4KHT9	50	10 in	5 1/8 in	2 1/4 in	4KHW4	10
3 3/4 in	1 3/4 in	2 % in	4KHU1	50		chor Dia., 1		1	
5 in	3 in		4KHU2	50	6 in	1/2 in	2 1/4 in	4KHW5	10
1/2 in A	nchor Dia., 1/	2"-13 Threa	d		9 in	3 ½ in	2 1/4 in	4KHW6	10
2 ¾ in	1/8 in		4KHU3	50		Anchor Dia.			
4 1/4 in	1 ½ in		4KHU4	50	9 in	1 ¼ in	3 1/4 in	4KHW7	5
5 ½ in	2 ¾ in		4KHU5	50	12 in	4 ¼ in	3 1/4 in	4KHW8	5
7 in	4 1/4 in	4 in	4KHU6	25					



M

Sup-R-Stud Grade 5 Wedge Anchors

- Yellow, dichromate steel
- Non-seismic rated

Can be used for immediate setting and loading. Yellow electroplating permits easy recognition after installation. Commonly used in conveyor systems, pipe hanging, racking, machinery, and anchoring. Include nut and washer. Meet Federal G.S.A. Specifications FF S-325C Group II, Type 4, Class I.

Note: Safe working loads should not exceed 25% of ultimate values.

Wedge and Seismic Anchors

		In 4000 psi Concrete						
Anchor Dia.		Ultimate Tension (lb.)	Ultimate Shear (lb.)					
1/4 in	11/8 in	1015	1472					
3/8 in	1% in	2367	3151					
1/2 in	21/4 in	5068	6828					
5/8 in	2¾ in	5556	9659					
3/4 in	3% in	11975	15126					
7∕8 in	4 in	13902	21574					
1 in	4½ in	15829	28023					
11/4 in	6½ in	23090	33000					





	Galvanized Steel			eel	Zinc Plated			303/304 Stainless Steel			316 Stainless Steel			
Dia.	Length	Max. Work Thickness		Item No.	Pkg. Qty.	Thread Length	Item No.	Pkg. Qty.		Item No.		Thread Length	Item No.	Pkg. Qty.
Wedge	Anchor	E / 1	7/ *	0411070		7/ *	0411077		7/ *	0411040		77.	0411007	00
	1 ¾ in	5% in	7/8 in	210976	20	7/8 in	21U877	20 20	7/8 in	21U943 21U944	20 20	7/8 in 1 3/8 in	21U927 21U912	20 20
1/4 in	2 1/4 in 3 1/4 in	1 ½ in 1 in	1 3% in	21U977	20	1 3/8 in	21U878	20	1 3/8 in 2 1/4 in	210944	20	2 ½ in	210912	20
	3 ½ in	2 ½ in	2 ½ in	21U978	20	-=-	_=_		2 74 111	210940	20	2 74 111	210913	20
	2 1/4 in	5% in	1 3/16 in	210979	20	1 3/16 in	21U879	20	1 3/16 in	21U946	20	1 3/16 in	21U914	20
	2 ¾ in	1 1/8 in	1 5% in	21U980	20	1 5/8 in	21U880	20	1 5% in	21U947	20	1 5/8 in	210915	20
3⁄8 in	3 in	1 % in	1 % in	21U981	20	1 % in	21U881	20	1 1/8 in	21U948	20	1 % in	21U916	20
98 III	3 ¾ in	2 1/8 in	2 % in	21U982	20	2 5/8 in	21U882	20	2 5/8 in	21U949	20	2 5/8 in	21U917	20
	3 ¾ in	2 1/8 in	_		_	_		_	2 5/8 in	21V013	400	2 5/8 in	21V016	400
	5 in	3 % in	4 in	21U983	20	4 in	21U883	20	4 in	21U950	20			
	2 ¾ in	½ in	1 ½ in	21U984	10	1 ½ in	21U884	10	1 ½ in	21U951	10 10	1 ½ in	21U918	10
	3 ¾ in 4 ¼ in	1 ½ in	2 ½ in 3 in	21U985 21U986	10 10	2 ½ in 3 in	21U885 21U886	10	2 ½ in 3 in	21U952 21U953	10	2 ½ in 3 in	21U919 21U920	10
	4 1/4 in	2 in 2 in				3 111	210000	10	4 in	21V012	200	3 111	210920	10
½ in	5 ½ in	1 in	_			4 in	21U887	10	4 in	210954	10	4 in	21U921	10
	5 ½ in	3 1/4 in	4 in	21U987	10	-			-					
	7 in	2 ½ in	_		_	4 in	21U888	10	4 in	21U955	10	1 1/4 in	21U928	10
	7 in	4 ¾ in	4 in	21U988	10	_	_	_	_	_	_	_	_	_
	3 ½ in	3/4 in	1 % in	21U989	5	1 % in	21U889	5	1 % in	21U956	5	1 % in	21U929	5
	4 ½ in	1 ¾ in	2 % in	210990	5	2 % in	21U890	5	2 % in	210957	5	2 % in	210922	5
	5 in	2 1/4 in	3 1/4 in	21U991	5	3 ½ in	21U891	5	3 1/4 in	21U958	5	3 1/4 in	21U923	5
5⁄8 in	6 in 6 in	3/8 in 3 1/4 in	4 ½ in	21U992	5	4 ½ in	21U892	5	4 1/8 in	21U959	5_	4 1/8 in	21U924	5
78 111	7 in	1 % in	4 78 111	210992		4 in	21U893	5	1 ½ in	21U960	5	1 ½ in	21U930	5
	7 in	4 1/4 in	4 in	21U993	5	-						1 /2 111		
	8 ½ in	2 % in	-			=		_	1 ½ in	21U961	5	1 ½ in	21U931	5
	8 ½ in	5 ¾ in	4 in	21U994	5		_	_	_	_	_	-		
	4 1/4 in	7⁄8 in	2 % in	21U995	5	2 % in	21U895	5	2 % in	21U962	5	_	_	_
	4 ¾ in	1 % in	2 % in	21U996	5	2 % in	21U896	5	2 % in	21U963	5	2 % in	21U925	5
	5 ½ in	2 1/8 in	3 % in	21U997	5	3 % in	21U897	5	3 % in	21U964	5	3 % in	21U926	5
	6 ½ in 7 in	2 % in 1/4 in	4 1/4 in	21U998	5	4 ½ in	21U898 21U899	5 5	4 ½ in	21U965 21U966	5 5	4 ½ in 2 in	21U932 21U941	<u>5</u> 5
	7 in	3 5% in	4 in	21U999	5	4 in	210099		4 in	210900		2 111	210941	
3∕4 in	8 ½ in	1 3/4 in	4 111	210333		4 in	21U901	5	4 in	21U967	5	2 in	21U942	5
	8 ½ in	5 1/8 in	4 in	21V001	5	-			-					_
	10 in	3 1/4 in	_	_	_	4 in	21U902	10	4 in	21U968	4	2 in	21U933	4
	10 in	6 % in	4 in	21V002	4	—	_	_	_	_	_	<u> </u>	_	_
	12 in	5 1/4 in	_		_	4 in	21U903	5	2 in	21U969	4	4 in	21U934	4
	12 in	8 % in	4 in	21V003	4	-		4	-			-		
	6 in 8 in	2 in	3 ½ in 4 in	21V004 21V005	4	3 ½ in 4 in	21U904 21U905	4	2 ½ in 2 ¼ in	21U970 21U971	4	2 ½ in 2 ¼ in	21U935 21U936	4
⅓ in	10 in	4 in 2 in	4 111	211000	-4	4 in	210905	4	2 1/4 in	210971	4	2 1/4 in	210930	4
	10 in	6 in	4 in	21V006	4	-						Z /4 III		
1 in	6 in	1 ½ in	3 ½ in	21V007	4	3 ½ in	21U907	4	2 1/4 in	21U973	5	2 1/4 in	21U938	4
1 in	9 in	4 ½ in	4 in	21V008	4	4 in	21U908	4			_	2 1/4 in	21U939	4
1 1/4 in	9 in	2 ½ in	3 1/4 in	21V010	4	3 1/4 in	21U910	4	_	_	_	_		=
1 in	9 in	4 ½ in						_				2 1/4 in	21U974	5
	12 in	3 in	2 1/4 in	21V011		4 in	21U909	4				2 1/4 in	21U940	4
1 ½ in	12 in 12 in	5 ½ in 3 in	3 ½ in	210011	4	3 ½ in	21U911	4	-			2 ½ in	21U975	
1 in	12 in	7 ½ in	4 in	21V009	4	+=-			=			Z 74 III	210973	
Seismic Wedge Anchor														
20.0.111	3 ¾ in	1/4 in	_	_	_	1/4 in	21V018	10	_	_	_	_	_	_
½ in	4 ½ in	1 in	_	_		1 in	21V019	10	_	_	_	_	_	_
72 III	5 ½ in	2 in	_	_	_	2 in	21V020	10	_	_	_	<u> </u>	_	_
	7 in	3 ½ in	_		_	3 ½ in	21V021	10	_		_			
	4 ¾ in	1/4 in				1/4 in	21V022	5						
5⁄8 in −	6 in	1 ½ in				1 ½ in	21V023	5						
	8 ½ in	4 in	=			4 in	21V024	5 5	=			-=-		
	10 in	5 ½ in				5 ½ in	21V025	0						



Expansion Anchor



M

Expansion Shield

Expansion Shields and Anchors

- Anchor length equals Minimum embedment

Expansion Shields—Medium to heavy loads in dead, variable, or vibratory conditions in all types of masonry and natural stone.

Expansion Anchors—Lead anchors provide quick installation of lightweight fixtures in masonry and concrete. Not affected by chemicals or moisture.

Note: Screw length needs to be at least the length of the anchor plus the thickness of the material.

anchor plus the thickness of the material.											
Anchor Anchor Material Dia.		Anchor Screw Length Size		Item No.	Pkg. Qty.						
Machine Screw Expansion Shield											
	1/2 in	1 1/4 in	1/4 in	4KHZ4	100						
	7∕8 in	2 1/4 in	½ in	4KHZ7	50						
Zinc Alloy	%16 in	1 ½ in	5∕16 in	4KHZ5	100						
20703	11/ ₁₆ in	1 ¾ in	3/8 in	4KHZ6	50						
	1 1/4 in	3 1/8 in	3/4 in	4KHZ9	25						
	1 ½ in	2 % in	5% in	4KHZ8	50						
Double Expansion Anchor											
	1/2 in	1 3/8 in	1/4 in	22A672	25						
		1 5/16 in	1/4 in	22A681	25						
	3/4 in	2 ½16 in	3/8 in	22A674	10						
	5/8 in	1 ¾16 in	5∕16 in	22A673	25						
Zinc Alloy	70 111	1 ½ in	3⁄8 in	22A679	10						
	7∕8 in	2 ½ in	½ in	22A675	10						
	78 III	2 3/16 in	1/2 in	22A680	5						
	1 1/4 in	4 in	3/4 in	22A677	5						
	1 in	3 in	5⁄8 in	22A676	5						
Lag Shield	Lag Shield Anchors										
		1 in	1/4 in	22A658	25						
	1/2 in	1 1/4 in	5/16 in	22A659	25						
	72 111	1 ½ in	1/4 in	22A662	25						
Zine Alley		1 3/4 in	5/16 in	22A663	25						
Zinc Alloy	3/4 in	2 in	½ in	22A661	25						
	9/4 III	3 in	½ in	22A665	25						
	F/ .	1 3/4 in	3/8 in	22A660	25						
	5∕8 in	2 ½ in	3/8 in	22A664	25						
Screw Expansion Anchor											
		3/4 in	#6	22A666	100						
	1/4 in	1 in	#6	22A667	50						
11		1 ½ in	#6	22A668	50						
Lead -	3⁄8 in	1 in	#16	22A671	50						
		1 in	#10	22A669	50						
	5∕16 in	1 ½ in	#10	22A670	50						