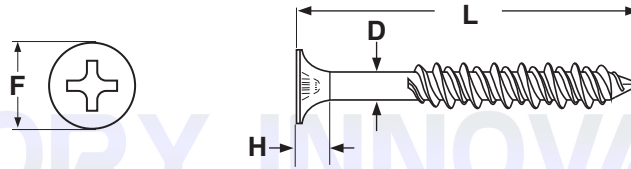
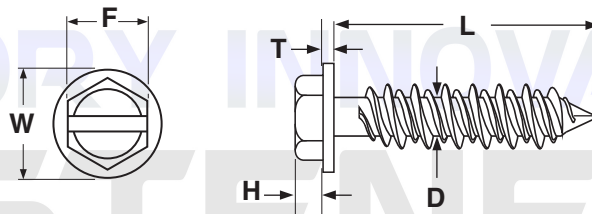


# CONCRETE SCREWS - DIMENSIONS



## FLAT PHILLIPS CONCRETE SCREWS

D	Thread Size	Fixture Clearance Hole	H	F	Phillips Driver Bit Size
Nominal Diameter			Head Height	Head Diameter	
			Ref	Ref	
3/16	11-16	1/4	9/64	3/8	2
1/4	1/4-15	5/16	3/16	1/2	3

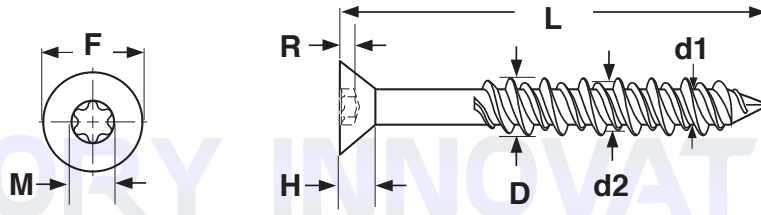


## SLOTTED HEX WASHER CONCRETE SCREWS

D	Thread Size	Fixture Clearance Hole	H	F	W	T
Nominal Diameter			Head Height	Width Across the Flats	Washer Diameter	Washer Thickness
			Ref	Ref	Ref	Ref
3/16	11-16	1/4	7/64	1/4	11/32	1/32
1/4	1/4-15	5/16	9/64	5/16	13/32	1/32

CONCRETE SCREWS

Flat Head Six-Lobe



FLAT SIX-LOBE CONCRETE SCREWS

Nominal Diameter & Threads per Inch	D		d1		d2	H	F		M	R	Driver Bit Size
	Major Diameter		Minor Diameter		Low Thread Diameter	Head Height	Head Diameter		Recess Diameter	Recess Penetration Depth	
	Max	Min	Max	Min	Ref	Ref	Max	Min	Ref	Min	
3/16 - 16	.215	.198	.144	.130	.168	.116	.385	.340	.155	.050	T20
1/4 - 14	.258	.244	.183	.169	.200	.153	.507	.452	.221	.075	T30

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# CONCRETE SCREWS - PERFORMANCE DATA

CONCRETE SCREWS								ITW Buildex*
DxL	Drill Bit	Minimum Embedment	Maximum Embedment	Maximum Fixture Thickness	Ultimate Tensile Strength (lbs.)	Ultimate Shear Strength (lbs.)	Ultimate Tensile Strength (lbs.)	Ultimate Shear Strength (lbs.)
Screw Size (Diameter x Length)					In 4000 psi. Concrete, 1-1/4" embedment		In Concrete Block, 1-1/4" embedment	
3/16 x 1-1/4	5/32 x 3-1/2	1	1-3/4	0 - 1/4"	1060	1250	760	1020
3/16 x 1-3/4	5/32 x 3-1/2			1/4 - 3/4"				
3/16 x 2-1/4	5/32 x 4-1/2			3/4 - 1-1/4"				
3/16 x 2-3/4	5/32 x 4-1/2			1-1/4 - 1-3/4"				
3/16 x 3-1/4	5/32 x 5-1/2			1-3/4 - 2-1/4"				
3/16 x 3-3/4	5/32 x 5-1/2			2-1/4 - 2-3/4"				
3/16 x 4	5/32 x 5-1/2			2-1/2 - 3"				
1/4 x 1-1/4	3/16 x 3-1/2	1	1-3/4	0 - 1/4"	1540	2150	880	1270
1/4 x 1-3/4	3/16 x 3-1/2			1/4 - 3/4"				
1/4 x 2-1/4	3/16 x 4-1/2			3/4 - 1-1/4"				
1/4 x 2-3/4	3/16 x 4-1/2			1-1/4 - 1-3/4"				
1/4 x 3-1/4	3/16 x 5-1/2			1-3/4 - 2-1/4"				
1/4 x 3-3/4	3/16 x 5-1/2			2-1/4 - 2-3/4"				
1/4 x 4	3/16 x 5-1/2			2-1/2 - 3"				
1/4 x 5	3/16 x 6-1/2	3-1/4 - 4"						
1/4 x 6	3/16 x 7-1/2	4-1/4 - 5"						

<b>Description</b>	An externally threaded, hardened screw with a double lead, consisting of alternating raised and lowered threads with notches cut into the raised threads, and a nail-type point.
<b>Applications/ Advantages</b>	Cuts its own threads and when used in concrete, block or brick. Eliminates the need for an anchor when used in light or medium-duty applications. When used in concrete, it can be removed and re-driven into the same hole. Special carbide bits are recommended for driving concrete screws into masonry. Some applications include anchoring the following to masonry: electrical junction boxes, wooden beams, plywood, exterior insulation, metal flashing, thresholds.
<b>Material</b>	Case hardened AISI 1022 steel
<b>Anchor Spacing</b>	Concrete screws should be installed a minimum of ten anchor diameters between each other. They have an advantage over most other types of masonry anchors in that they can be installed close to the edge of the material in which they are installed.
<b>Depth of Hole</b>	Hole should be of a depth equal to the required embedment plus 1/2"
<b>Tensile and Shear Strength</b>	The suggested safe working load is one-fourth the average proof test loads shown in the above table.
<b>Plating</b>	The most popular coating for concrete screws is a blue Ruspert finish.

\*ITW Buildex is the original writer of these concrete screw specifications.