



FASTENING AND ANCHOR GUIDE

PRO  **FAST**

PROFASTINC.COM | 1.800.243.3418

Screws

1. Drive Styles

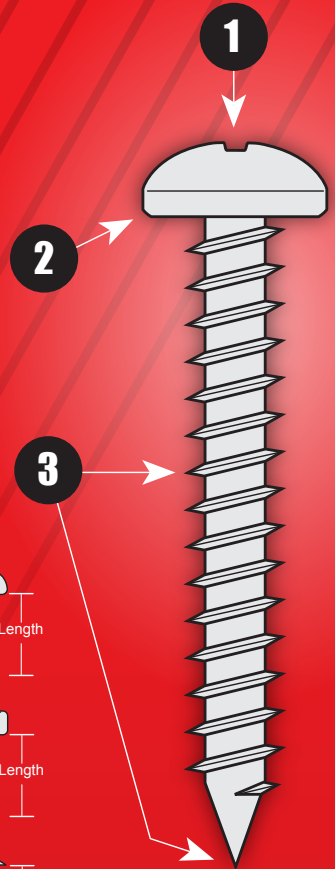
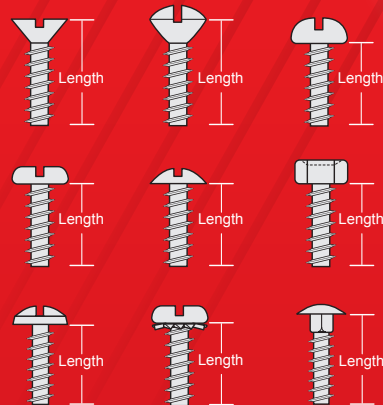
- Phillips
- Slotted
- Combination (Phillips/Slot)
- Six Lobe
- Hexagon
- Hexagon Washer
- Slotted Hexagon Washer
- Square
- Pozi Drive

3. Point/Thread Styles

- Sheared End / Machine Screw
- Wood Screw
- Type A Self Tapping
- Type AB Self Tapping
- Type B Self Tapping
- Hi-Lo Self Tapping
- Type 25 Thread Cutting
- Type 23 Thread Cutting
- Type F Thread Cutting
- Gimlet / Lag Screw
- Thread Rolling for Plastics
- Tri-Lobular Thread Rolling
- Type 2 Self Drilling
- Type 3 Self Drilling
- Deck / Particle Board Screw
- Round Type U Drive Screw
- Dry Wall Screw Sharp Point
- Dry Wall Screw Drill Point
- Sharp Point / Self Piercing

2. Head Styles

- Pan
- Round
- Truss
- K-Lath/Modified Truss
- Oval
- Bugle
- Flat (82 degree)
- Indented Hexagon
- Indented Hexagon Washer
- Fillister
- Binding
- Square Shoulder Screw (Carriage, Elevator & Step Bolts)



Categories

Categories	Type	Use / Application
Machine Screws	Tapping Screws	Used with a nut or tapped hole in a wide variety of general applications.
	Type A-Self Tapping	For use in metal .015 to .050 thick. Used with drilled, punched or nested holes in sheet metal, resin impregnated plywood, asbestos combinations, among others.
	Type AB-Self Tapping	A tapping screw combining point of Type A with fine thread pitch of Type B.
	Type B-Self Tapping	A tapping screw for use in metal .050 to .200 thick. Larger root diameter with finer thread pitch for light and heavy sheet metal non-ferrous castings, plastics, impregnated plywoods, asbestos combinations, and other materials.
	Type 25-Thread Cutting	A thread cutting screw similar to Type 23 point except with Type B thread. For plastics and other soft materials with large chip clearing and cutting edges.
Construction	Type 23-Thread Cutting	A thread cutting screw in the fine thread series offering maximum thread cutting area and excellent chip clearing, with minimum tightening torques.
	Type F-Thread Cutting	A thread cutting screw with machine screw thread with blunt tapered point, have multi-cutting edges and chip cavities. For heavy gauge sheet metal, aluminum, zinc, and lead die castings, cast iron, brass and plastic.
	Thread Rolling Screws	For drilled, punched or cored holes in ductile metals.
	Drywall Screws	Used to attach drywall to wood or metal studs.
	Decking Screws	Coarse threaded screws with an extra sharp point for use in deck building.
	Self-Drilling Screws	Self-drilling screws have "Drill-Bit Points" for applications that are not pre-drilled. Also known as TEK Screws.
	Self-Piercing Screws	Self-Piercing Screws are tapping screws with an extra sharp point that eliminates the need for pre-drilled holes in thin metal.










Hardness Technical Data

Description	(S) Surface / (C) Case Hardness	Core Hardness (After Tempering)	Material
Tapping Type A/AB/B	(S)Rockwell C45 min	Rockwell C28-38	AISI 1016-1024 or Equivalent Steel
Self Tapping Hi-Lo	(C)Rockwell C45 min	Rockwell C28-36	AISI 1019-1022 or Equivalent Steel
Thread Cutting Type 25/23/F	(S)Rockwell C45 min	Rockwell C28-38	AISI 1016-1024 or Equivalent Steel
Type F Torx Floorboard Screws	(S)Rockwell C45 min	Rockwell C28-38	AISI 1016-1024 or Equivalent Steel
Tri-Lobular Thread Rolling	(C)Rockwell C45 min	Rockwell C28-38	AISI 1016-1024 or Equivalent Steel
Self Piercing Screws	(S)Rockwell C45 min	Rockwell C28-38	AISI 1018-1022 or Equivalent Steel
Self Drilling Screws	(C)Rockwell C52-58	Rockwell C32-40	AISI 1016-1024 or Equivalent Steel

Rivets

Blind Rivet: A fastener that is installed from one side, that holds two or more pieces of material together typically in sheet metal applications. The Blind Rivet consists of a mandrel with a head and a rivet body that sits over it. The "Blind" side is where you have no access to the back of the sheet where it expands.

COMMON MATERIAL COMBINATIONS (RIVET/MANDREL)	STEEL / STEEL	ALUMINUM / STEEL	ALUMINUM / ALUMINUM	STAINLESS STEEL / STAINLESS STEEL	STAINLESS STEEL / STEEL
COMMON RIVET HEAD STYLES	REGULAR DOMED HEAD	LARGE DOMED HEAD	COUNTERSUNK HEAD	CLOSED END	COLORLED/PAINTED RIVETS AVAILABLE UPON REQUEST
NOMINAL RIVET SERIES	#3	#4	#5	#6	#8
NOMINAL RIVET SIZE	3/32" (.0938)	1/8" (.1250)	5/32" (.1563)	3/16" (.1875)	1/4" (.2500)
METRIC CONVERSION	2.4MM	3.2MM	4.0MM	4.8MM	6.3MM

DESCRIPTION	ILLUSTRATION	BODY DIAMETERS RANGE FROM	GRIP RANGE VERY FROM	MATERIALS OFFERED	IFI SPECIFICATION	MANUF. PROCESS
REGULAR DOMED HEAD OPEN ENDED 183, 184, 185, 186, VR1 Most commonly rivet used in the industry. Low cost and versatile applications where back side of job can not be accessed.		3/32" UP TO 1/4"	.031 UP TO 1.00	STEEL CR+3 5052 ALUMINUM 304 S.S.	IFI 114	EXTRUDED
LARGE DOMED HEAD OPEN ENDED 034, 035, 036, 037 Similar to the Open Ended rivet only difference being the increased flanged diameter perfect for soft or brittle material.		3/32" UP TO 1/4"	.031 UP TO 1.00	STEEL CR+3 5052 ALUMINUM 304 S.S.	IFI 114	EXTRUDED
COUNTER SUNK HEAD (120°) OPEN ENDED 100, 132, 134, 136, 137 Where a flat surface is needed after installation. Suitable for those applications where zero gap distance between the fastener and the surfaces being fastened.		3/32" UP TO 3/16"	.079 UP TO .625	STEEL CR+3 5052 ALUMINUM 5056 ALUMINUM 304 S.S.	IFI 114	EXTRUDED
CLOSED END DOMED HEAD W30, W31, W32, W33 Excellent choose where moisture resistance or positive containment is required.		1/8" UP TO 1/4"	.020 UP TO 1.00	STEEL CR+3 5052 ALUMINUM 304 S.S. 420 S.S.	IFI 126	EXTRUDED
MULTI-GRIP DOMED HEAD W34, W35, W36, W37 Ideal for clamping multiple layers of materials together. Reduce your inventory as fewer sizes need to be stocked compared to standard open end rivets. Tip of the mandrel locks itself in the rivet eliminating risk of mandrel vibrating loose.		1/8" UP TO 1/4"	.039 UP TO 1.00	STEEL CR+3 5052 ALUMINUM 304 S.S.	IFI 116	EXTRUDED
BACK-UP RIVET WASHER 142, 152 Unlike regular washer these hold a tighter material thickness (.056-.062) on all five inner diameters. Used when installing in softer material and needed to start the rivet expansion, when a wider clamping surface is desired, or for irregular holes.		1/8" UP TO 1/4"	.056 UP TO .062	STEEL CR+3 1060 ALUMINUM		STAMPED
PAINTED TYPE 183, 184 These are available in a wide variety of head styles and materials. Typically are Domed Head in steel or aluminum. Consult with your BBI salesperson for a quote.		3/32" UP TO 1/4"	.031 UP TO 1.0	STEEL CR+3 5052 ALUMINUM 304 S.S.	IFI 114	EXTRUDED
SPECIAL ORDER ITEMS BBI's Special Mill Division offers Stock and release programs, Secondary Processing, PPAP requirements, Coating and plating alternatives, parts per print, kitting and special packaging.		3/32" UP TO 1/4"	.031 UP TO 1.0	STEEL CR+3 ALUMINUM S.S.		EXTRUDED
STRUCTURAL VR2, VR3, VR4 Where high shear and tensile strength is a requirement. Produces a strong and vibration resistant joint. Ideal where oversized or irregular holes exist. Offered in IL, UG, MB, and QL series.		3/32" UP TO 1/4"	.031 UP TO 1.0	STEEL CR+3 ALUMINUM S.S.	IFI 119	EXTRUDED

DEWALT®

DRILIT® Drill Screws

DRILIT® TOUGH

Offered with Stalgard® Coating for additional protection or electroplated zinc

STALGARD®
Outstanding Corrosion Protection

DRILIT® WASHER

Available with Bonded EPDM Sealing Washer

DRILIT® SCREWS

Extended drilling capacity with points capable to drill and tap up to 1/2" thick steel

DRILIT®

Case hardened carbon steel designed for efficient drilling and tapping

DRILIT® WINGS

Offered with winged reamers for going through wood or pilot point tips

DRILIT® HEAD

Countersunk and low profile head styles:
Flat head and Wafer head

DRILIT® TOUGH

Stalgard® Coating for additional protection from corrosion

STALGARD®
Outstanding Corrosion Protection



ICC-ES ESR-3294
Steel-to-Steel Connections

ICC-ES ESR-4367
Wood-to-Steel Connections

DRILIT® SELF-DRILLING SCREWS

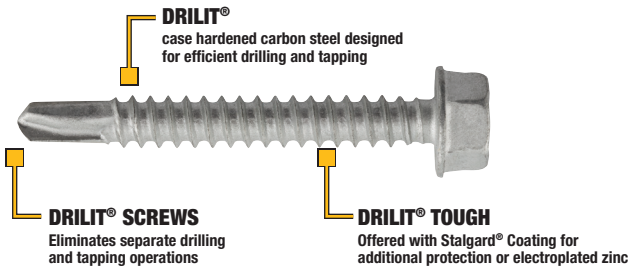
Drilit® self-drilling fasteners eliminate separate drilling and tapping operations for faster, more economical installations. Large range of diameters, lengths, drill points, head styles and coatings available to meet most metal construction applications.

STANDARD SELF DRILLING FASTENERS

DRILIT® SELF-DRILLING SCREW








LARGE RANGE OF SIZES



INSTALL WITH VERSA-CLUTCH™ SCREWGUN

DRILIT® OFFERINGS

DIAMETER	THREADS PER INCH	LENGTH RANGE	HEAD STYLE & SIZE					POINT TYPE RANGE	ICC-ES APPROVALS†
			HEX WASHER HEAD	PHILLIPS PAN HEAD	PHILLIPS UNDERCUT FLAT HEAD	PHILLIPS WAFER HEAD	HEX WASHER HEAD W/ EPDM WASHER		
									
COMPOSITE MATERIAL AND METAL TO METAL APPLICATIONS									
#6	20	3/4" - 1"	1/4"					#2	
#8	18	1/2" - 1-1/2"	1/4"	#2				#2	
#10	16	1/2" - 2"	5/16"					#1, #2, #3	ESR-3294
#12	14	3/4" & 4"	5/16"					#1 & #3	ESR-3294
#12	24	7/8" - 2"	5/16"					#4, #4.5, & #5	ESR-3294
1/4"	14	3/4" - 4"	3/8" & 5/16"					#1 & #3	ESR-3294
1/4"	20	3" - 8"	3/8" & 5/16"					#5	
5/16"	18	1" - 1-1/2"	3/8"					#3	
DRILIT WITH BONDED SEALING WASHER OFFERING									
METAL TO METAL APPLICATIONS									
#8	18	3/4"					1/4"	#2	
#10	16	3/4" - 1-1/2"					5/16"	#3	ESR-3294
#12	14	3/4" - 4"					5/16"	#3	ESR-3294
#12	24	1-1/4" - 2"					5/16"	#4 & #5	ESR-3294
1/4"	14	7/8" - 4"					3/8" & 5/16"	#1 & #3	ESR-3294
DRILIT WOOD TO METAL OFFERING									
WOOD TO METAL APPLICATIONS									
#10	16	1-1/2" - 1-13/16"				#2		#3 & #3 PILOT POINT	
#10	24	3/4" - 1-1/4"				#2		#3	
#10	24	1-7/16"				#2		#3 W/WINGS	ESR-4367
#12	24	1-3/4" - 2-3/4"			#3	#3		#3 W/WINGS	ESR-4367
1/4"	20	3" - 4"			#3			#3 W/WINGS	ESR-4367

RELATED PRODUCTS

VSR VERSA-CLUTCH™ SCREWGUN
DW268
#10 Diameters



VSR VERSA-CLUTCH™ SCREWGUN
DW267
#12 & 1/4" Diameters



VSR VERSA-CLUTCH™ SCREWGUN
DW269
#5/16" Diameters



20V MAX* XR® VERSA-CLUTCH™ ADJUSTABLE TORQUE SCREWGUN
DCF622
#10 - 1/4" Diameters



* Maximum initial battery voltage (measured without a workload) is 20 volts. Nominal voltage is 18.
† Includes Los Angeles Building Code (LABC)/Los Angeles Residential Code (LARC) ICC-ES report supplement and a Florida Building Code (FBC) ICC-ES report supplement.
Copyright ©2024 DeWALT. The following are examples of trademarks for one or more DeWALT power tools and accessories: the yellow and black color scheme; the "D"-shaped air intake grill; the array of pyramids on the handgrip; the kit box configuration; and the array of lozenge-shaped humps on the surface of the tool.

DEWALT®

ANCHORS & FASTENERS

FOR SIMILAR AND DISSIMILAR METAL APPLICATIONS



ICC ESR-3332
ICC ESR-4367

ICC ESR-3294
ICC ESR-4374 **

** Our newest ICC-ES Approval for Aluminum to Aluminum
and Aluminum to Steel connections! ICC-ES AC491

DISSIMILAR METAL ATTACHMENT

METAL CONSTRUCTION SCREWS CHART

BASE MATERIAL	
STEEL	ALUMINUM
 STEEL	 ALUMINUM
 STEEL	 ALUMINUM
 ALUMINUM	 ALUMINUM
 STAINLESS STEEL	 ALUMINUM
 WOOD	 ALUMINUM
 OTHER	 ALUMINUM
 STEEL	 ALUMINUM
 ALUMINUM	 ALUMINUM
 ALUMINUM	 ALUMINUM
 STAINLESS STEEL	 ALUMINUM
 WOOD	 ALUMINUM
 OTHER	 ALUMINUM

- Chart does not consider the material thicknesses or exposure conditions which may affect this guidance.
- The attachment material may require pilot holes or clearance holes depending on the fastener or application

DISSIMILAR METAL ATTACHMENT

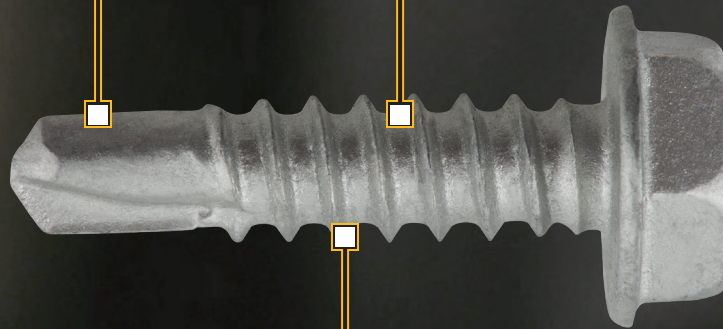


DRIL-FLEX® SCREWS

High hardness point and lead threads for drilling and tapping

DRIL-FLEX® COATING

Stalgard® and Stalgard® SUB coatings are designed to provide corrosion resistance and minimize galvanic corrosion with aluminum



ICC-ESR-3332
ICC-ESR-4367
ICC-ESR-4374**

** Our newest ICC-ES Approval for Aluminum to Aluminum and Aluminum to Steel connections! ICC-ES AC491

DRIL-FLEX® TOUGH

Increased resistance to hydrogen-assisted stress corrosion cracking when compared to case hardened fasteners

DRIL-FLEX® STRUCTURAL DRILL SCREW

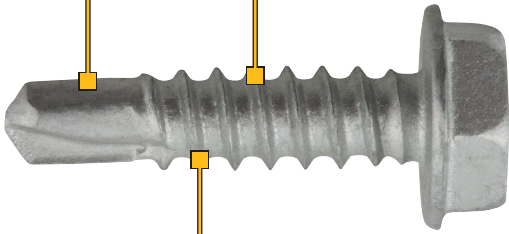
Dril-Flex® structural drill screws are dual heat-treated self drilling tapping screws that are designed to provide strength and resistance to embrittlement required for critical applications.

STRUCTURAL SELF DRILLING FASTENERS

DRIL-FLEX® STRUCTURAL DRILL SCREW

DRIL-FLEX® SCREWS

High hardness point and lead threads for drilling and tapping



DRIL-FLEX® COATING

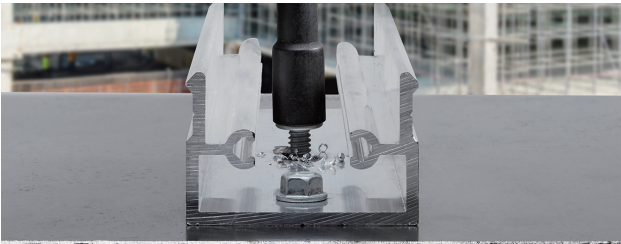
Stalgard® and Stalgard® SUB coatings are designed to provide corrosion resistance and minimize galvanic corrosion with aluminum

DRIL-FLEX® TOUGH

Increased resistance to hydrogen-assisted stress corrosion cracking when compared to case hardened fasteners



Install with Versa-Clutch™ adjustable torque screwgun



Solution for attaching dissimilar metals

DRIL-FLEX® OFFERINGS

DIAMETER	THREADS PER INCH	LENGTH RANGE	HEAD STYLE & SIZE				POINT TYPE RANGE	ICC-ES APPROVALS†	STALGARD COATING
			HEX WASHER HEAD	PHILLIPS PAN HEAD	PHILLIPS UNDERCUT FLAT HEAD	PHILLIPS WAFFER HEAD			
#10	16	3/4" - 2-1/2"	5/16"	#2			#2 - #3	ESR-3332 ESR-4374**	STALGARD® STALGARD® SUB
#10	24	1-1/4"				#2	#3	ESR-3332 ESR-4374**	STALGARD®
#12	14	7/8" - 3"	5/16"		#3		#2 - #3	ESR-3332 ESR-4374**	STALGARD® STALGARD® SUB
#12	24	1-3/4"	5/16"				#5	ESR-3332 ESR-4374**	STALGARD® SUB
1/4"	14	1 - 2"	3/8"				#3	ESR-3332 ESR-4374**	STALGARD® SUB
1/4"	20	1-1/8" - 4"	3/8"		#3		#4 & #5	ESR-3332 ESR-4367 ESR-4374**	STALGARD® STALGARD® SUB
5/16"	18	1-1/2"	3/8"				#3	ESR-3332	STALGARD® SUB
5/16"	24	1-1/2" - 2"	3/8"				#4	ESR-3332	STALGARD® SUB

RELATED PRODUCTS

VSR VERSA-CLUTCH™ SCREWGUN

DW268

#10 Diameters



VSR VERSA-CLUTCH™ SCREWGUN

DW267

#12 & 1/4" Diameters



VSR VERSA-CLUTCH™ SCREWGUN

DW269

#5/16" Diameters



20V MAX* XR® VERSA-CLUTCH™ ADJUSTABLE TORQUE SCREWGUN

DCF622

#10 - 1/4" Diameters



* Maximum initial battery voltage (measured without a workload) is 20 volts. Nominal voltage is 18.

** Our newest ICC-ES Approval for Aluminum to Aluminum connections! ICC-ES AC491

† Includes Los Angeles Building Code (LABC)/Los Angeles Residential Code (LARC) ICC-ES report supplement and a Florida Building Code (FBC) ICC-ES report supplement.

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ICDWDRILFLEXSS

STRUCTURAL SELF DRILLING FASTENERS

DEWALT®

Alumi-Flex®
Stainless Steel Drill Screws

ALUMI-FLEX® COATING

Stalgard® GB coating provides greater galvanic compatibility in aluminum applications

STALGARD® GB
Galvanic Barrier Corrosion Protection

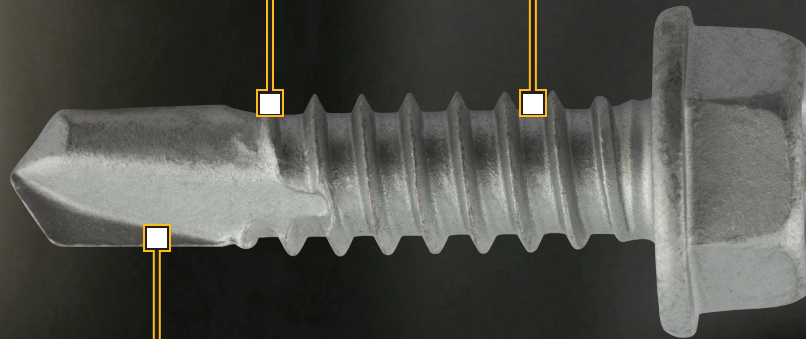
ICC
ES

ICC-ESR-4374**

** Our newest ICC-ES Approval for Aluminum to Aluminum connections! ICC-ES AC491

ALUMI-FLEX® MATERIAL

300 Series (18-8) Stainless Steel are specifically designed to help resist embrittlement failures and provide a high level of corrosion resistance



ALUMI-FLEX® SCREWS

For use in Aluminum to Aluminum applications only. ICC-ES ESR-4374** approval in compliance with the requirements of AC491

ALUMI-FLEX® 300 SERIES (18-8) STAINLESS STEEL DRILL SCREW

Alumi-Flex® structural drill screws are 300 series (18-8) stainless steel self-drilling tapping screws that are used for fastening to aluminum when corrosion resistance and galvanic reaction are a primary concern.

ALUMINUM ATTACHMENT

ALUMI-FLEX® 300 SERIES (18-8) STAINLESS STEEL DRILL SCREW

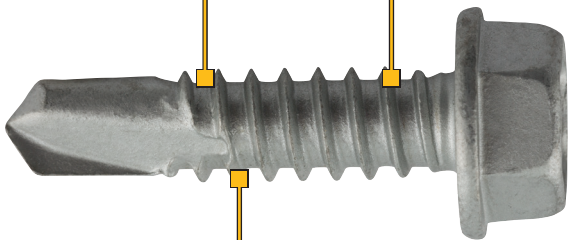
ALUMI-FLEX® COATING

Stalgard® GB coating provides greater galvanic compatibility in aluminum applications



ALUMI-FLEX® MATERIAL

300 Series (18-8) Stainless Steel are specifically designed to help resist embrittlement failures and provide a high level of corrosion resistance

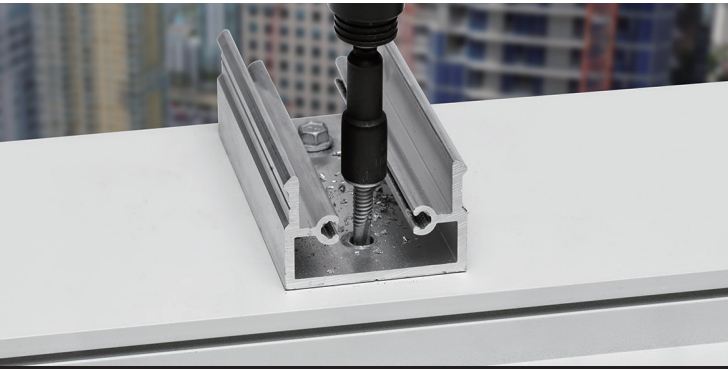


ALUMI-FLEX® SCREWS

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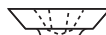


Install with Versa-Clutch™ adjustable torque screwgun



Solution for attaching aluminum-to-aluminum materials

ALUMI-FLEX® OFFERINGS

DIAMETER	THREADS PER INCH	LENGTH RANGE	HEAD STYLE & SIZE		POINT TYPE RANGE	ICC-ES APPROVALS [†]
			HEX WASHER HEAD	PHILLIPS UNDERCUT FLAT HEAD		
						
ALUMINUM TO ALUMINUM APPLICATIONS						
#10	16	1/2" - 1"	5/16"	#2	#3	ESR-4374**
#12	14	3/4" - 1-1/2"	5/16"		#3	ESR-4374**
1/4"	14	3/4" - 1-1/2"	3/8"	#3	#3	ESR-4374**
1/4"	20	1" & 1-1/2"	3/8"		#4	ESR-4374**

RELATED PRODUCTS

VSR VERSA-CLUTCH™ SCREWGUN

DW268

#10 Diameters



VSR VERSA-CLUTCH™ SCREWGUN

DW267

#12 & 1/4" Diameters



20V MAX* XR® VERSA-CLUTCH™ ADJUSTABLE TORQUE SCREWGUN

DCF622

#10 - 1/4" Diameters



* Maximum initial battery voltage (measured without a workload) is 20 volts. Nominal voltage is 18.

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ICDWALUMIFLEXSS

ALUMINUM ATTACHMENT

DEWALT

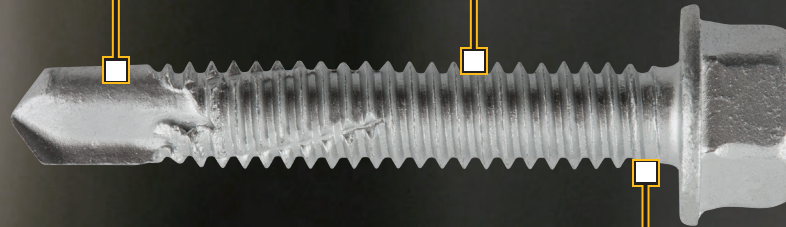
BI-FLEX®
300 Series Stainless Steel
Self-Drilling Fasteners

BI-FLEX® SCREWS

Welded, hardened drill point and lead threads make Bi-Flex® capable of drilling and tapping aluminum and steel base materials

BI-FLEX® COATING

Proprietary Stalgard® GB (Galvanic Barrier) coating minimizes galvanic interactions, making Bi-Flex® an excellent choice for dissimilar metal applications (e.g. Aluminum – Steel)



ICC
ES™

ICC-ESR-4367
ICC-ESR-4374**

** Our newest ICC-ES Approval for Aluminum to Aluminum and Aluminum to Steel connections! ICC-ES AC491

BI-FLEX® HEAD & SHANK

300 Series (18-8) Stainless Steel head and shank are specifically designed to resist embrittlement failures and provide outstanding corrosion resistance

BI-FLEX® 300 SERIES (18-8) STAINLESS STEEL BI-METAL SELF DRILLING SCREWS

BI-FLEX® 300 Series Stainless fasteners utilize bi-metal technology and a proprietary coating formula to create a single, unique fastening system.

BI-FLEX® screws are designed to provide the corrosion resistance of 300 series stainless steel while providing the efficiency of drill screws.

STAINLESS STEEL SELF DRILLING FASTENERS

BI-FLEX® 300 (18-8) SERIES STAINLESS STEEL SELF DRILLING SCREWS

BI-FLEX® SCREWS

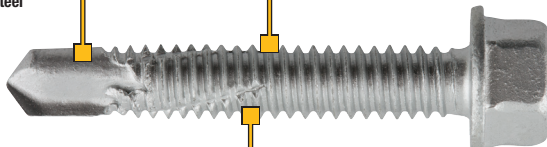
Welded, hardened drill point and lead threads make Bi-Flex® capable of drilling and tapping aluminum and steel base materials

BI-FLEX® COATING

Proprietary Stalgard® GB (Galvanic Barrier) coating minimizes galvanic interactions, making Bi-Flex® an excellent choice for dissimilar metal applications (e.g. Aluminum – Steel)

BI-FLEX® HEAD & SHANK

300 Series (18-8) Stainless Steel head and shank are specifically designed to resist embrittlement failures and provide outstanding corrosion resistance








Install with Versa-Clutch™ adjustable screwgun



Bi-Flex® screws are suitable for use in both steel and aluminum

BI-FLEX® OFFERINGS

DIAMETER	THREADS PER INCH	LENGTH RANGE	HEAD STYLE & SIZE					POINT TYPE RANGE	ICC-ES APPROVALS†
			HEX WASHER HEAD	PHILLIPS PAN HEAD	PHILLIPS FLAT HEAD	PHILLIPS UNDERCUT FLAT HEAD	PHILLIPS PANCAKE HEAD		
									
METAL TO METAL APPLICATIONS									
#8	18	3/4" - 1"	1/4"	#2			#2	#2	ESR-4374**
#10	16	3/4" - 1-1/2"	5/16"	#2			#2	#2	ESR-4374**
#12	14	1" - 2-1/2"	5/16"			#3		#2 & #3	ESR-4374**
#12	24	1-1/2" & 2"	5/16"					#5	ESR-4374**
1/4"	14	1" - 2"	3/8"					#2	ESR-4374**
1/4"	20	1" - 8"	3/8"			#3		#3 & #5	ESR-4374**
WOOD TO METAL APPLICATIONS									
#10	16	1-1/2"			#2			#3 w/Wings	ESR-4367
#12	24	2-13/16"			#3			#5 w/Wings	ESR-4367
1/4"	20	2-13/16"			#3			#5 w/Wings	ESR-4367

RELATED PRODUCTS

VSR VERSA-CLUTCH™ SCREWGUN

DW268

#10 Diameters



VSR VERSA-CLUTCH™ SCREWGUN

DW267

#12 & 1/4" Diameters



20V MAX* XR® VERSA-CLUTCH™ ADJUSTABLE TORQUE SCREWGUN

DCF622

#10 - 1/4" Diameters



* Maximum initial battery voltage (measured without a workload) is 20 volts. Nominal voltage is 18.

** Our newest ICC-ES Approval for Aluminum to Aluminum connections! ICC-ES AC491

† Includes Los Angeles Building Code (LABC)/Los Angeles Residential Code (LARC) ICC-ES Supplement and a Florida Building Code (FBC) ICC-ES Report Supplement.

Copyright ©2023 DEWALT. The following are examples of trademarks for one or more DEWALT power tools and accessories: the yellow and black color scheme; the "D"-shaped air intake grill; the array of pyramids on the handgrip; the kit box configuration; and the array of lozenge-shaped humps on the surface of the tool.

ICDWBIFLEXSS

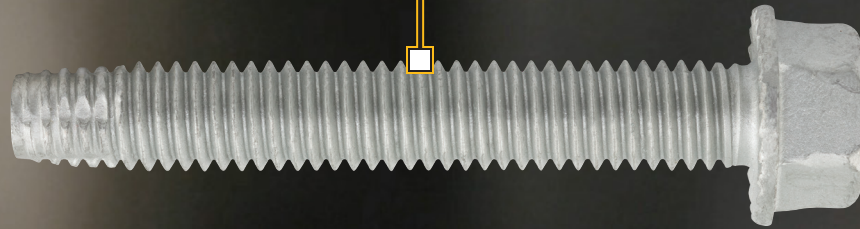
STAINLESS STEEL SELF DRILLING FASTENERS



Tap-Flex®
Structural Fasteners

FLEX TECHNOLOGY®

Provides required strength and ductility and helps prevent delayed embrittlement failures



E-FORM® 5-LOBE TIP

Patented segmented thread profile is designed to decrease thread-forming torque to ease placement and starting



TAP-FLEX® HEX WASHER

With under head serrations helps resist back-out and loosening caused by vibration or thermal changes

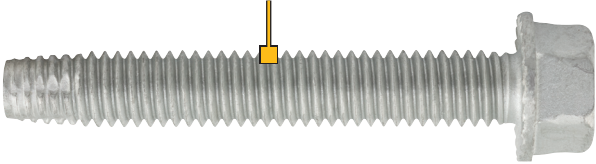
TAP-FLEX® THREAD-FORMING STRUCTURAL SCREWS

TAP-FLEX® self-tapping fasteners provide the strength and ductility required for tough building construction applications. Engineered to replace nut and bolt assemblies, TAP-FLEX® screws feature a dual heat-treated design that helps prevent delayed embrittlement failures. TAP-FLEX® fasteners are engineered to replace nut and bolt assemblies and fasteners commonly used in building construction and blind applications.

SELF TAPPING FASTENERS

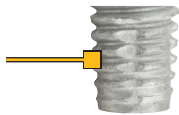
TAP-FLEX® THREAD-FORMING STRUCTURAL SCREWS

FLEX TECHNOLOGY® HEAT TREAT
Provides required strength and ductility and helps prevent delayed embrittlement failures



Install with impact wrench and impact ready socket driver.

TAP-FLEX® SCREWS
Have a patent E-Form® five-lobe thread forming tip. It's segmented thread profile is designed to decrease thread-forming torque to ease placement and starting



TAP-FLEX® HEX WASHER
With under head serrations helps resist back-out and loosening caused by vibration or thermal changes



Material rolls in to fill space, increasing thread engagement.

TAP-FLEX® OFFERINGS & RECOMMENDED INSTALLATION DEWALT CORDLESS IMPACT WRENCHES

DIAMETER	LENGTH	HEX HEAD SIZE	DEWALT IMPACT WRENCHES
3/8 in.	1-1/2 in. – 5 in.	9/16 in.	DCF911 / DCF913
1/2 in.	1-1/2 in. – 5 in.	3/4 in.	DCF911 / DCF913 / DCF921 / DCF922 / DCF923 / DCF891 / DCF892
5/8 in.	1-1/2 in. – 5 in.	15/16 in.	DCF911 / DCF913 / DCF921 / DCF922 / DCF923 / DCF891 / DCF892

RECOMMENDED DEWALT IMPACT WRENCHES

DCF911 20V MAX* 1/2 in. Cordless Impact Wrench with Hog Ring Anvil (Tool Only)		DCF913 20V MAX* 3/8 in. Cordless Impact Wrench with Hog Ring Anvil (Tool Only)		DCF921 ATOMIC™ 20V MAX* 1/2 in. Cordless Impact Wrench With Hog Ring Anvil (Tool Only)		DCF922 ATOMIC™ 20V MAX* 1/2 in. Cordless Impact Wrench With Detent Pin Anvil (Tool Only)	
DCF923 ATOMIC™ 20V MAX* 3/8 in. Cordless Impact Wrench With Hog Ring Anvil (Tool Only)		DCF891 20V MAX* XR® 1/2 in. Mid-Range Impact Wrench Kit with Hog Ring Anvil (Tool Only)		DCF892 20V MAX* XR® 1/2 in. Mid-Range Impact Wrench with Detent Pin Anvil (Tool Only)			

*Maximum initial battery voltage (measured without a workload) is 20 volts. Nominal voltage is 18.
Copyright ©2023 DEWALT. The following are examples of trademarks for one or more DEWALT power tools and accessories: the yellow and black color scheme; the "D"-shaped air intake grill; the array of pyramids on the handgrip; the kit box configuration; and the array of lozenge-shaped humps on the surface of the tool.

DEWALT®

ANCHORS & FASTENERS

CONCRETE SCREWS

**CARBON STEEL &
STAINLESS STEEL
CONCRETE SCREW ANCHORS**

MASONRY ANCHORS



UltraCon®+

Blue, Carbon Steel
3/16 in. & 1/4 in. Diameters

UltraCon®+

Bronze, Carbon Steel
3/16 in. & 1/4 in. Diameters

UltraCon®+

Silver, Carbon Steel
3/16 in. & 1/4 in. Diameters

UltraCon®+

White, Carbon Steel
3/16 in. & 1/4 in. Diameters

UltraCon®

Silver, Carbon Steel
5/16 in. Diameter

UltraCon® SS4

410 Stainless Steel
1/4 in. Diameter

Crete-Flex®

410 Stainless Steel
3/16 in. & #14 Diameters




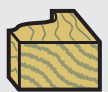

Aggre-Gator®

304 Stainless Steel
1/4 in. Diameter

TYPICAL APPLICATIONS

- Temporary Framing
- Window Frames
- Conduit Clips
- Furring Strips
- Sill Plate
- Storm Shutters

BASE MATERIALS

					
	Concrete	Masonry	Brick	Chemically Treated Lumber	Wood
UltraCon®+	■	■	■	■	■
UltraCon® (5/16 in.)	■	■	□	□	■
UltraCon® SS4	■	■	□	□	□
Crete-Flex®	■	■	□	□	■
Aggre-Gator®	■	■	■	■	■

■ : Suitable base material. □ : May be considered.

MASONRY ANCHORS



ANCHORS & FASTENERS



INTEGRATED WASHER

with serrations under the head secures the attachment

ENGINEERED STEEL

designed to cut through hard concrete and maintain ductility (bends before breaking)

LARGEST RANGE

for top of masonry wall



IDENTIFYING MARK

diameter, length and product marks embossed on head for easy identification

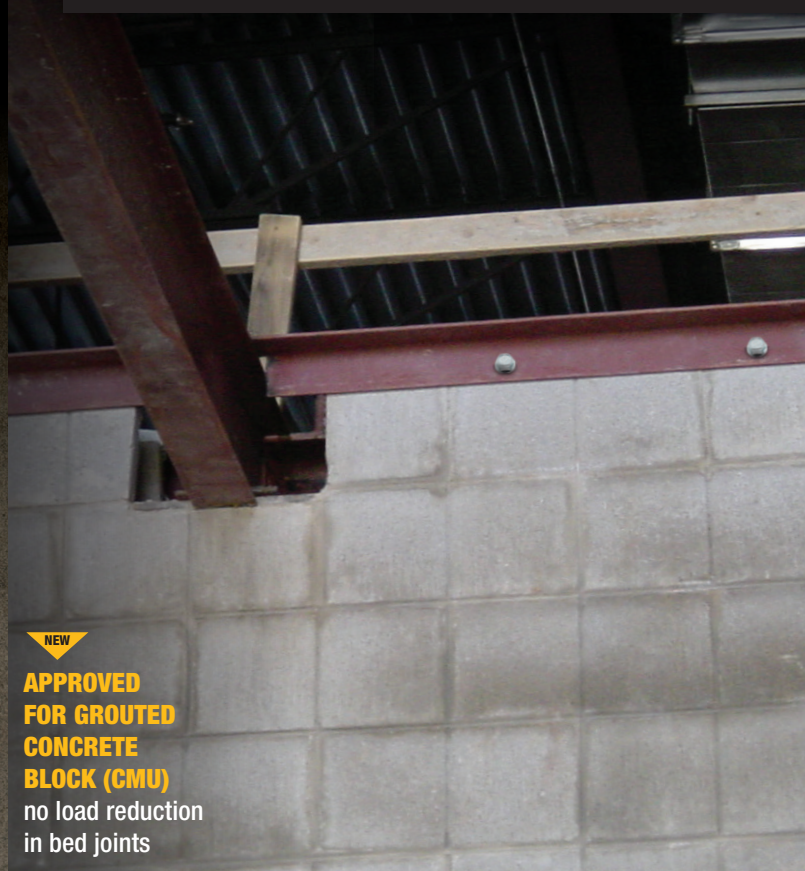
STANDARD BIT
designed for ANSI carbide drill bits

DUST RELIEF THREAD PROFILE
improves speed & reduces effort for fast installation

THE ONLY APPROVED
mechanically galvanized screw anchor for pressure treated lumber



Screw-Bolt+™ Concrete and Masonry Screw Anchor



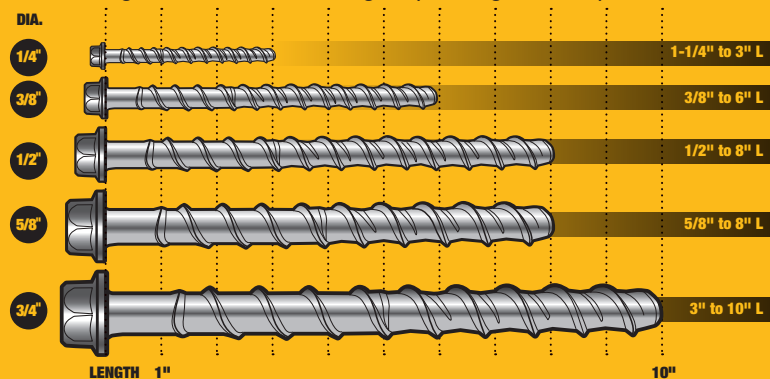
APPROVED FOR GROUTED CONCRETE BLOCK (CMU)
no load reduction in bed joints



AVAILABLE IN MECHANICALLY GALVANIZED ZINC
approved for pressure treated lumber

COMPREHENSIVE SELECTION

A wide range of diameters and lengths (zinc & galvanized)





Screw-Bolt+™

Concrete and Masonry Screw Anchor

ANCHORS & FASTENERS

SCREW-BOLT+ ANCHORS							
ZINC PLATED	GALVANIZED	ANCHOR	LENGTH	HOLE SIZE	SOCKET SIZE	CTN	MSTR
*PFM1411000	-	1/4" x 1-1/4"	1-1/4"	1/4"	7/16"	100	600
PFM1411020	-	1/4" x 1-3/4"	1-3/4"	1/4"	7/16"	100	600
PFM1411060	-	1/4" x 2-1/4"	2-1/4"	1/4"	7/16"	100	600
PFM1411080	-	1/4" x 2-5/8"	2-5/8"	1/4"	7/16"	100	500
PFM1411100	-	1/4" x 3"	3"	1/4"	7/16"	100	500
*PFM1411160	-	3/8" x 1-3/4"	1-3/4"	3/8"	9/16"	50	300
PFM1411220	-	3/8" x 2-1/2"	2-1/2"	3/8"	9/16"	50	300
PFM1411240	PFM1461240	3/8" x 3"	3"	3/8"	9/16"	50	250
PFM1411280	PFM1461280	3/8" x 4"	4"	3/8"	9/16"	50	250
PFM1411300	PFM1461300	3/8" x 5"	5"	3/8"	9/16"	50	250
PFM1411320	PFM1461320	3/8" x 6"	6"	3/8"	9/16"	50	150
*PFM1411340	-	1/2" x 2"	2"	1/2"	3/4"	50	200
PFM1411360	-	1/2" x 2-1/2"	2-1/2"	1/2"	3/4"	50	200
PFM1411380	-	1/2" x 3"	3"	1/2"	3/4"	50	150
PFM1411420	PFM1461420	1/2" x 4"	4"	1/2"	3/4"	50	150
PFM1411460	PFM1461460	1/2" x 5"	5"	1/2"	3/4"	25	100
PFM1411480	PFM1461480	1/2" x 6"	6"	1/2"	3/4"	25	75
PFM1411520	PFM1461520	1/2" x 8"	8"	1/2"	3/4"	25	100
*PFM1411540	-	5/8" x 3"	3"	5/8"	15/16"	25	100
PFM1411580	-	5/8" x 4"	4"	5/8"	15/16"	25	100
PFM1411600	PFM1461600	5/8" x 5"	5"	5/8"	15/16"	25	75
PFM1411640	PFM1461640	5/8" x 6"	6"	5/8"	15/16"	25	75
PFM1411680	PFM1461680	5/8" x 8"	8"	5/8"	15/16"	25	50
*PFM1411700	-	3/4" x 3"	3"	3/4"	1-1/8"	20	60
*PFM1411720	-	3/4" x 4"	4"	3/4"	1-1/8"	20	60
PFM1411760	-	3/4" x 5"	5"	3/4"	1-1/8"	20	60
PFM1411800	PFM1461800	3/4" x 6"	6"	3/4"	1-1/8"	20	60
PFM1411840	PFM1461850	3/4" x 8"	8"	3/4"	1-1/8"	10	40
PFM1411880	-	3/4" x 10"	10"	3/4"	1-1/8"	10	20
* denotes sizes which are less than the minimum standard anchor length for Strength Design. The published size length of the anchor is measured from under the head.							

	DEWALT Screw-Bolt+™	Hilti® Kwik HUS-EZ*	Simpson® Titen HD*	ITW Red Head® LDT*
ICC Approval	ESR-3889 Cracked & Uncracked Concrete ESR-4042 Grout Filled CMU	ESR-3027 Galvanized Not ICC Approved	ESR-2713 Galvanized Not ICC Approved	ESR-3699 5/8" & 3/4" Not ICC Approved
Coating	Zinc & Galvanized	Zinc	Zinc & Galvanized	Zinc & EvireX™
ANSI Bit	Yes	Yes	Yes	Undersized Bit
Diameters	1/4 -3/4"	1/4"-3/4"	1/4"-3/4"	3/8"-3/4"
Matched Tool	DEWALT	Hilti Tools	No	No
*Hilti and Kwik HUS-EZ are registered trademark of Hilti Corporation *Simpson and Titen HD are registered trademarks of Simpson Strong-Tie Company, Inc. *ITW and Redhead are registered trademarks of Illinois Tool Works, Inc.				

INSTALLATION TOOLS



DCH293
1-1/8" 20V MAX** SDS Plus Rotary Hammer



DCF887
1/4" 20V MAX** Impact Wrench



DCF899
1/2" 20V MAX** High Torque Impact Wrench

IMPACT RATED SOCKETS



	ANCHOR DIAMETER	SOCKET SIZE	SOCKET DRIVE
DWMT74479	1/4"	7/16"	3/8"
DWMT75122	3/8"	9/16"	1/2"
DWMT75113	1/2"	3/4"	1/2"
DWMT75104	5/8"	15/16"	1/2"
DWMT75125	3/4"	1-1/8"	1/2"

**Maximum initial battery voltage (measured without a workload) is 20 volts. Nominal voltage is 18.

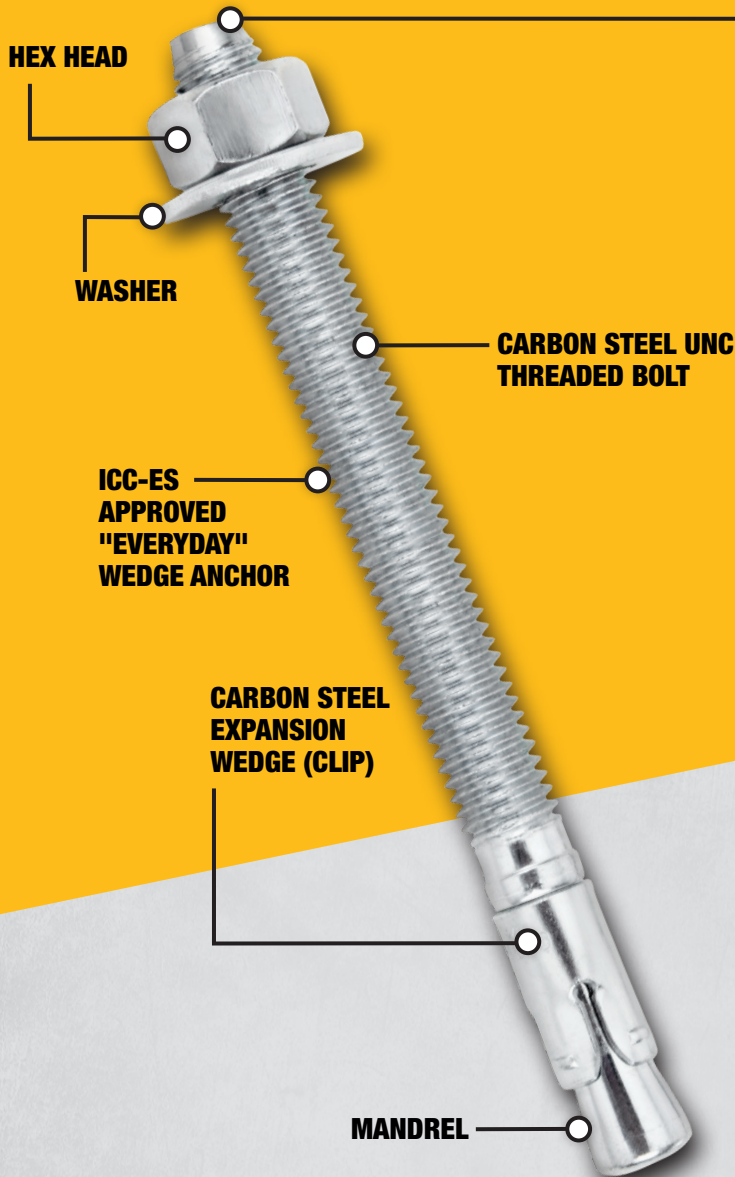
MASONRY ANCHOR ATTACHMENT

DEWALT®

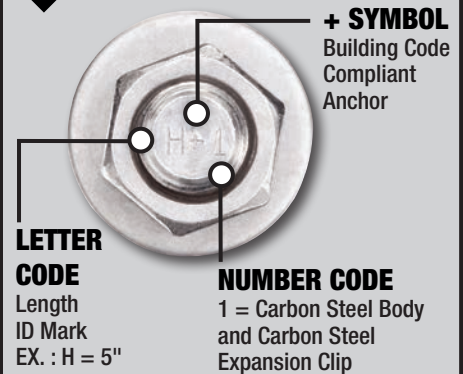
ANCHORS & FASTENERS

DUST X+™

ANCHOR INSTALLATION SYSTEM



TOP VIEW



TYPICAL APPLICATIONS

- Structural connections, like beam and column anchorage
- Safety-related attachments
- Protective barriers and racking
- Tension zone applications, like cable trays and strut, pipe supports, fire sprinkler
- Seismic and wind loading
- Interior applications / low level corrosion environment

APPROVALS



ESR-2818
Concrete
ESR-2966
Masonry



2015
2012
2009



Recognition in cracked and uncracked concrete including seismic and wind loading (Category 1 Anchors)



Full FM & UL listings: www.DEWALT.com



BASE MATERIALS



Normal Weight Concrete



Lightweight Concrete



Concrete Over Steel Deck



Grouted Masonry

SLEEVE ANCHORS

POWER-STUD®+ SD1

CAT #	ANCHOR SIZE	THREAD LEN	CTN	MSTR
7400SD1*	1/4" x 1-3/4"	3/4"	100	600
7402SD1	1/4" x 2-1/4"	1-1/4"	100	600
7404SD1	1/4" x 3-1/4"	2-1/4"	100	600
7410SD1*	3/8" x 2-1/4"	7/8"	50	300
7412SD1*	3/8" x 2-3/4"	1-3/8"	50	300
7413SD1	3/8" x 3"	1-5/8"	50	300
7414SD1	3/8" x 3-1/2"	2-1/8"	50	300
7415SD1	3/8" x 3-3/4"	2-3/8"	50	300
7416SD1	3/8" x 5"	3-5/8"	50	300
7417SD1	3/8" x 7"	5-5/8"	50	200
7420SD1*	1/2" x 2-3/4"	1"	50	200
7422SD1	1/2" x 3-3/4"	2"	50	200
7423SD1	1/2" x 4-1/2"	2-3/4"	50	200
7424SD1	1/2" x 5-1/2"	3-3/4"	50	150
7426SD1	1/2" x 7"	5-1/4"	25	100
7427SD1	1/2" x 8-1/2"	6-3/4"	25	100
7428SD1	1/2" x 10"	8-1/4"	25	100
7430SD1*	5/8" x 3-1/2"	1-1/2"	25	100
7432SD1	5/8" x 4-1/2"	2-1/2"	25	100
7433SD1	5/8" x 5"	3"	25	100
7434SD1	5/8" x 6"	4"	25	75
7436SD1	5/8" x 7"	5"	25	75
7438SD1	5/8" x 8-1/2"	6-1/2"	25	50
7439SD1	5/8" x 10"	8"	25	50
7440SD1*	3/4" x 4-1/4"	1-3/4"	20	60
7441SD1*	3/4" x 4-3/4"	2-1/4"	20	60
7442SD1	3/4" x 5-1/2"	3"	20	60
7444SD1	3/4" x 6-1/4"	3-3/4"	20	60
7446SD1	3/4" x 7"	4-1/2"	20	60
7448SD1	3/4" x 8-1/2"	6"	10	40
7449SD1	3/4" x 10"	7-1/2"	10	40
7451SD1	3/4" x 12"	9-1/2"	10	20
7450SD1*	7/8" x 6"	2-3/4"	10	40
7452SD1	7/8" x 8"	4-3/4"	10	40
7454SD1	7/8" x 10"	6-3/4"	10	20
7461SD1*	1" x 6"	2-3/8"	10	20
7463SD1	1" x 9"	5-3/8"	10	20
7465SD1	1" x 12"	8-3/8"	5	10
7473SD1	1-1/4" x 9"	4-3/4"	5	10
7475SD1	1-1/4" x 12"	7-3/4"	5	10
7473SD1	1-1/4" x 9"	4-3/4"	5	15
7475SD1	1-1/4" x 12"	7-3/4"	5	15

* Less than the minimum standard anchor length for Strength Design. Published length is the overall length of the anchor. Allow for fixture thickness plus one anchor diameter for the nut and washer thickness when selecting a length. Packaged with nuts and washers.



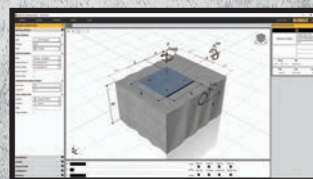
➤ Dust X+™ anchor installation system



UPGRADE FROM TRADITIONAL HOLE CLEANING



STRUCTURAL DESIGN SOFTWARE FOR ANCHORING TO CONCRETE



Download
DDA™ and
experience our
free concrete
anchoring
design software.

DeWALT.COM/DDA

RELATED PRODUCTS



DCH293R2DH
20V MAX* XR® SDS PLUS
ROTARY HAMMER W/DUST
COLLECTION



DCH273P2DHO
20V MAX* XR® SDS PLUS ROTARY
HAMMER W/ON-BOARD DUST
EXTRACTOR



DWH050K
LARGE HAMMER DUST
EXTRACTION - HOLE CLEANING



DWV012
10-GALLON HEPA/RRP
WET/DRY DUST EXTRACTOR



HOLLOW DRILL BIT
SDS PLUS AND
SDS MAX CARBIDE

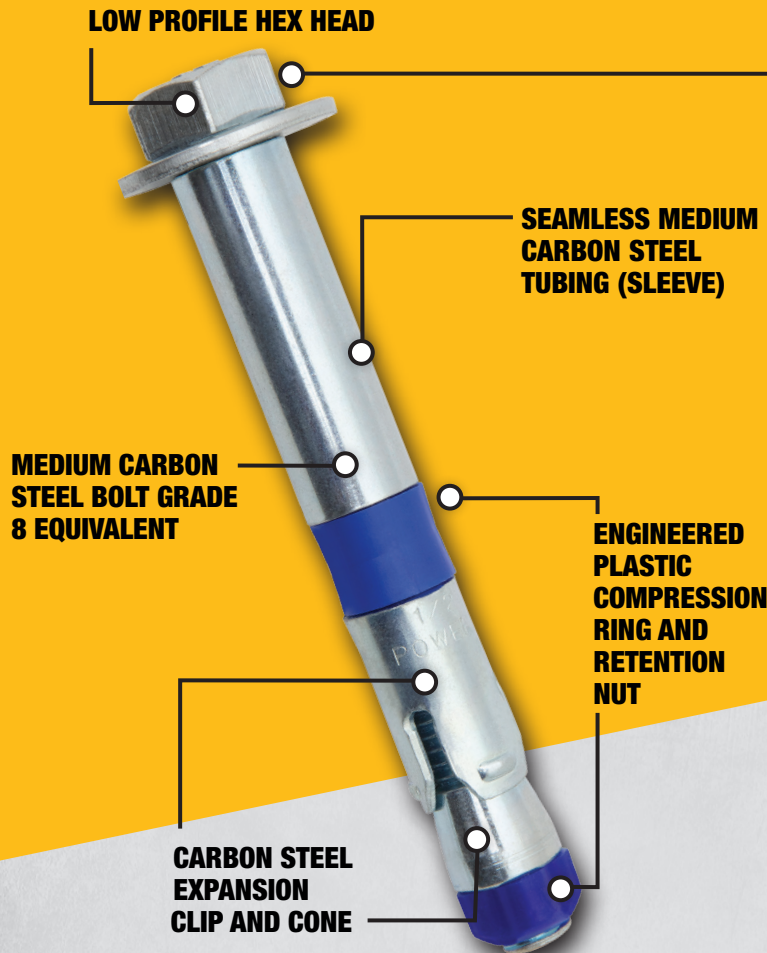
SLEEVE ANCHORS

DEWALT®

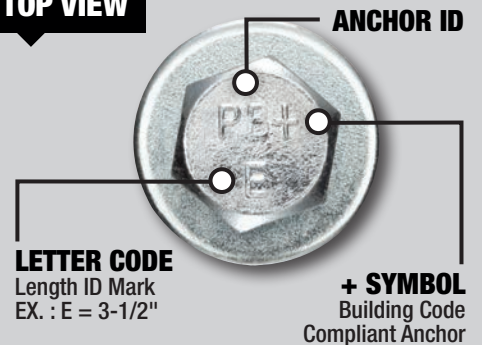
ANCHORS & FASTENERS

DUST X+™

ANCHOR INSTALLATION SYSTEM



TOP VIEW



TYPICAL APPLICATIONS

- Structural connections, like beam and column anchorage
- Safety-related attachments and tension zone applications
- Interior applications / low level corrosion environment
- Heavy duty applications

APPROVALS



ESR-3260
Concrete
(1/2"-3/4"
diameters)



2015
2012
2009



Recognition in cracked
and uncracked concrete including
seismic and wind loading
(Category 1 Anchors)

BASE MATERIALS



Normal
Weight
Concrete



Lightweight
Concrete

HEAVY DUTY SLEEVE ANCHOR

POWER-BOLT®+

CAT #	ANCHOR SIZE	MAX FIXTURE THICK.	CTN	MSTR
6902SD	1/4" x 1-3/4"	1/2"	100	600
6906SD	1/4" x 3"	1-3/4"	100	600
6911SD	3/8" x 1-7/8"	1/4"	50	300
6910SD	3/8" x 2-1/4"	1/4"	50	300
6913SD	3/8" x 3"	1"	50	300
6914SD	3/8" x 3-1/2"	1-1/2"	50	300
6916SD	3/8" x 4"	2"	50	300
6930SD*	1/2" x 2-3/4"	1/4"	50	200
6932SD	1/2" x 3-1/2"	1/4"	50	200
6934SD	1/2" x 4-3/4"	1-1/2"	25	150
6936SD	1/2" x 5-3/4"	2-1/2"	25	150
6940SD*	5/8" x 3"	1/4"	20	120
6942SD	5/8" x 4"	1/4"	15	90
6944SD	5/8" x 5"	1-1/4"	15	90
6945SD	5/8" x 6"	2-1/4"	15	90
6947SD	5/8" x 8-1/2"	4-3/4"	10	40
6950SD	3/4" x 3-1/2"	1/4"	15	90
6952SD	3/4" x 4-1/4"	1-1/4"	10	60
6954SD	3/4" x 5-1/4"	2-1/4"	10	60
6956SD	3/4" x 7-1/4"	4-1/4"	10	40
6957SD	3/4" x 8-1/4"	3-7/8"	10	40

* Less than the minimum standard anchor length for Strength Design or not included in ESR-3260.
Published size includes the diameter and the length which is measured from below the washer to the end of the anchor.



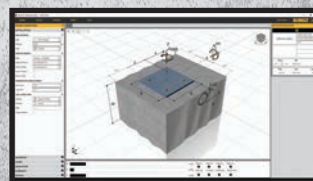
➤ Structural column connection



UPGRADE FROM TRADITIONAL HOLE CLEANING



STRUCTURAL DESIGN SOFTWARE FOR ANCHORING TO CONCRETE



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DeWALT.COM/DDA

RELATED PRODUCTS



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COLLECTION



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HAMMER W/ON-BOARD DUST
EXTRACTOR



DWH050K
LARGE HAMMER DUST
EXTRACTION - HOLE CLEANING



DWV012
10-GALLON HEPA/RRP
WET/DRY DUST EXTRACTOR

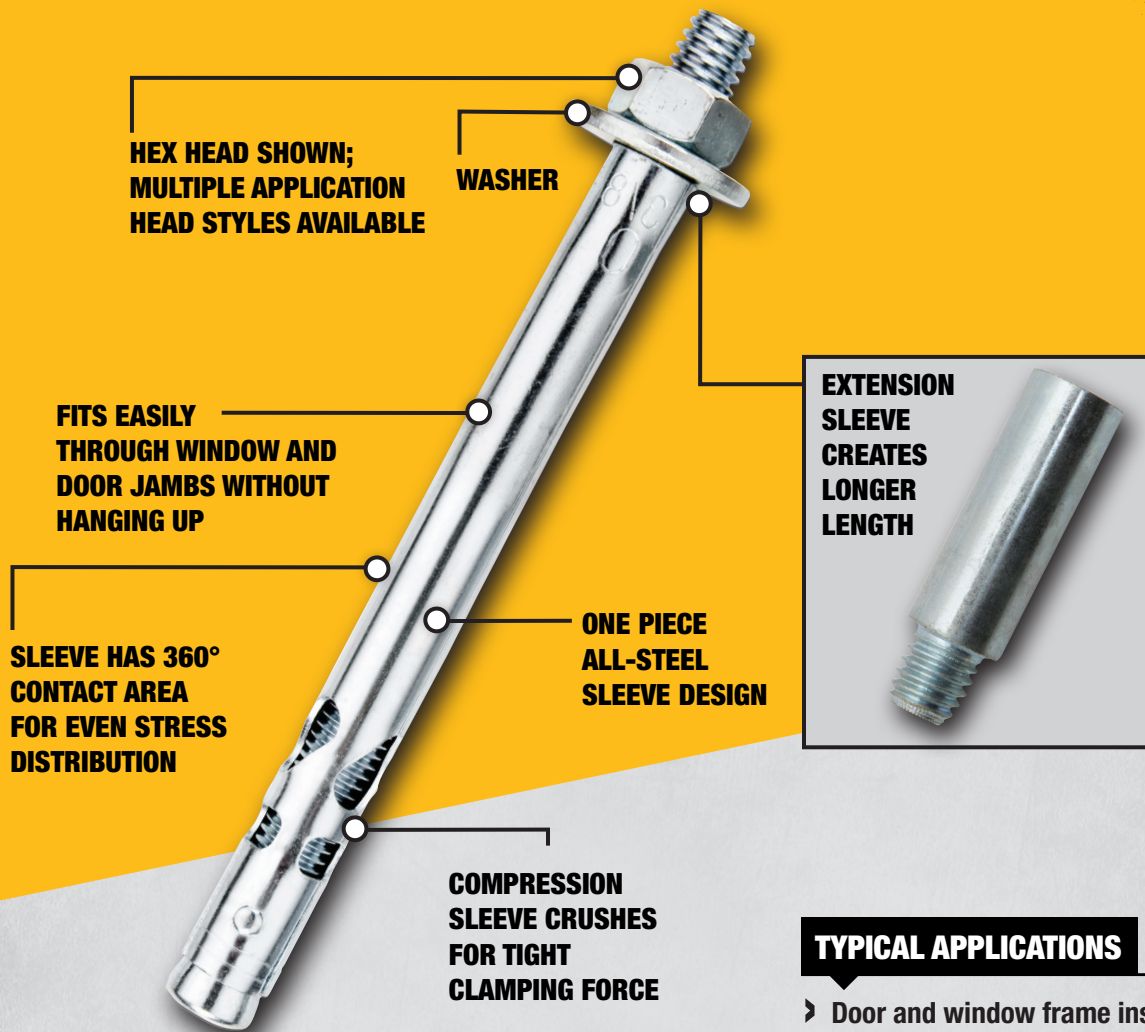


HOLLOW DRILL BIT
SDS PLUS AND
SDS MAX CARBIDE

HEAVY DUTY SLEEVE ANCHOR



ANCHORS & FASTENERS



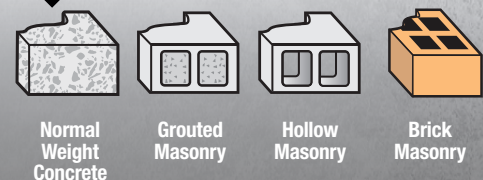
TYPICAL APPLICATIONS

- › Door and window frame installations
- › Masonry applications
- › Electrical / Mechanical applications
- › Mounting fixtures on walls
- › General purpose anchoring

HEAD STYLES



BASE MATERIALS



SLEEVE ANCHOR

HEX NUT LOK-BOLT AS*			CARBON STEEL	
CAT #	SIZE	DRILL DIA	CTN	MSTR
05005S	5/16" x 1-1/2"	5/16"	100	1000
05010S	5/16" x 2-3/8"	5/16"	100	500
05015S	3/8" x 1-7/8"	3/8"	50	500
05020S	3/8" x 3"	3/8"	50	500
05022S	3/8" x 4"	3/8"	50	250
05025S	1/2" x 2-1/2"	1/2"	25	250
05030S	1/2" x 3"	1/2"	25	250
05034S	1/2" x 3-3/4"	1/2"	25	125
05033S	1/2" x 5-1/4"	1/2"	25	125
05032S	1/2" x 6"	1/2"	10	100
05035S	5/8" x 2-1/2"	5/8"	25	125
05038S	5/8" x 3"	5/8"	25	125
05040S	5/8" x 4-1/4"	5/8"	10	100
05045S	5/8" x 5-3/4"	5/8"	10	100
05050S	3/4" x 2-3/4"	3/4"	10	100
05055S	3/4" x 4-1/4"	3/4"	10	40
05060S	3/4" x 6-1/4"	3/4"	10	30
05065S	3/4" x 8-1/4"	3/4"	10	30

HEX NUT LOK-BOLT AS*			304 STAINLESS STEEL	
CAT #	SIZE	DRILL DIA	CTN	MSTR
06152S	3/8" x 1-7/8"	3/8"	50	500
06153S	3/8" x 3"	3/8"	50	500
06156S	1/2" x 2-1/2"	1/2"	25	250
06157S	1/2" x 3"	1/2"	25	250
06160S	1/2" x 3-3/4"	1/2"	25	125
06164S	5/8" x 4-1/4"	5/8"	10	100

ACORN NUT LOK-BOLT AS*			CARBON STEEL	
CAT #	SIZE	DRILL DIA	CTN	MSTR
05125S	1/4" x 5/8"	1/4"	100	1000
05150S	1/4" x 1-3/8"	1/4"	100	1000
05175S	1/4" x 2-1/4"	1/4"	100	1000

ACORN NUT LOK-BOLT AS*			304 STAINLESS STEEL	
06150S	1/4" x 1-3/8"	1/4"	100	1000

*Hex Nut and Acorn Nut Lok-Bolt published length measured from below the anchor to the end of the anchor.

COMBO FLAT HEAD LOK-BOLT AS			CARBON STEEL	
CAT #	SIZE	DRILL DIA	CTN	MSTR
5305S	1/4" x 1-1/2"	1/4"	100	1000
5310S	1/4" x 2-1/4"	1/4"	100	1000
5315S	1/4" x 3"	1/4"	100	1000
5320S	1/4" x 4"	1/4"	100	500
5325S	1/4" x 5-1/4"	1/4"	100	500
5330S	5/16" x 2-1/2"	5/16"	100	1000
5340S	3/8" x 2-3/4"	3/8"	50	500
5345S	3/8" x 4"	3/8"	50	250
5350S	3/8" x 5"	3/8"	50	250
5360S	3/8" x 6"	3/8"	50	250

COMBO FLAT HEAD LOK-BOLT AS			304 STAINLESS STEEL	
6170S	1/4" x 2-14"	1/4"	100	1000
6172S	1/4" x 3"	1/4"	100	1000
6174S	3/8" x 4"	3/8"	50	250
6175S	3/8" x 5"	3/8"	50	250
6176S	3/8" x 6"	3/8"	50	250

ROUND HEAD LOK-BOLT AS			CARBON STEEL	
CAT #	SIZE	DRILL DIA	CTN	MSTR
5205S	1/4" x 1-3/8"	1/4"	100	1000
5210S	1/4" x 2-1/4"	1/4"	100	1000
5215S	1/4" x 3"	1/4"	100	1000
5220S	1/4" x 3-3/4"	1/4"	100	1000
5225S	5/16" x 2-3/8"	5/16"	100	1000
5230S	5/16" x 3-3/8"	5/16"	100	500
5235S	3/8" x 2-3/4"	3/8"	50	500
5240S	3/8" x 3-3/4"	3/8"	50	250

ROUND HEAD LOK-BOLT AS			304 STAINLESS STEEL	
6180S	1/4" x 2-1/4"	1/4"	100	1000

THRESHOLD FLAT HEAD LOK-BOLT AS				
CAT #	SIZE	DRILL DIA	CTN	MSTR
5500S	1/4" x 2"	1/4"	100	1000

ROD HANGER LOK-BOLT AS			CARBON STEEL	
CAT #	SIZE	DRILL DIA	CTN	MSTR
5810S	1/4" x 1-1/2"	5/16"	50	250
5815S	3/8" x 1-7/8"	3/8"	50	250
5825S	1/2" x 2-1/4"	1/2"	25	125

TIE-WIRE LOK-BOLT AS				
CAT #	SIZE	DRILL DIA	CTN	MSTR
5700S	5/16" x 2-3/8"	5/16"	100	1000

LOK-BOLT AS EXTENDERS			CARBON STEEL	
CAT #	SIZE	DRILL DIA	CTN	MSTR
5684S	3/8" x 1-1/4"	3/8"	50	500

RELATED PRODUCTS



DCH293R2DH
20V MAX* XR® SDS PLUS
ROTARY HAMMER
W/DUST COLLECTION



DCH273P2DHO
20V MAX* XR® SDS PLUS
ROTARY HAMMER W/ON-BOARD
DUST EXTRACTOR



DCH481X2
60 V MAX** 1-9/16"
SDS MAX COMBINATION
HAMMER



DWH050K
LARGE HAMMER DUST
EXTRACTION -
HOLE CLEANING



HOLLOW DRILL BIT
SDS-PLUS AND
SDS-MAX CARBIDE



DWV012
10-GALLON HEPA/RRP
WET/DRY DUST EXTRACTOR

SLEEVE ANCHOR

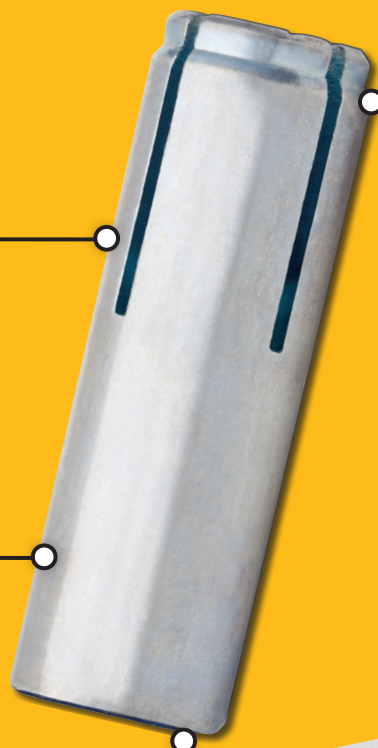


ANCHORS & FASTENERS

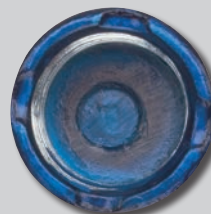
CAN BE INSTALLED USING THE
MANUAL SETTING TOOL OR
SMART DROP-IN SYSTEM WITH
A HAMMERDRILL

INTERNALLY
THREADED ANCHOR

INSTALLS THROUGH STANDARD
FIXTURE HOLES



SETTING INDICATOR



Before Setting



Properly Set

**UNIQUE CROWN DESIGN CONFIRMS
ANCHOR HAS BEEN PROPERLY SET WITH
THE SETTING SYSTEM**

APPROVALS



Full FM & UL listings:
www.DEWALT.com

BASE MATERIALS



Normal
Weight
Concrete

TYPICAL APPLICATIONS

- › Suspending conduit
- › Fire sprinkler
- › Cable trays and strut
- › Concrete formwork
- › Pipe supports
- › Suspended lighting

DROP IN ANCHORS

SMART DROP-IN

CAT #	ANCHOR SIZE	CTN	MSTR
6304SD	1/4"	100	1000
6306SD	3/8"	50	500
6308SD	1/2"	50	300

DROP-IN TOOL

CAT #	SIZE	CTN	MSTR
00425SD	1/4"	1	6
00427SD	3/8"	1	6
00429SD	1/2"	1	6

DRILL

CAT #	SIZE	CTN	MSTR
00391SD	3/8" (for 1/4" Smart DI)	1	12
00397SD	1/2" (for 3/8" Smart DI)	1	12
00410SD	5/8" (for 1/2" Smart DI)	1	12

REPLACEMENT PARTS

CAT #	FITS TOOL	KIT CONTENTS
00426SD	00425SD	Rubber Spring Plug, 2 Guide Screws
00428SD	00427SD	Rubber Spring Plug, 2 Guide Screws
00430SD	00430SD	Rubber Spring Plug, 2 Guide Screws



RELATED PRODUCTS



DCH293R2DH
20V MAX* XR® SDS PLUS
ROTARY HAMMER W/DUST
COLLECTION



DCH273P2DH0
20V MAX* XR® SDS PLUS ROTARY
HAMMER W/ON-BOARD DUST
EXTRACTOR



HOLLOW DRILL BIT
SDS PLUS AND
SDS MAX CARBIDE



DWV012
10-GALLON HEPA/RRP
WET/DRY DUST EXTRACTOR

DROP IN ANCHORS

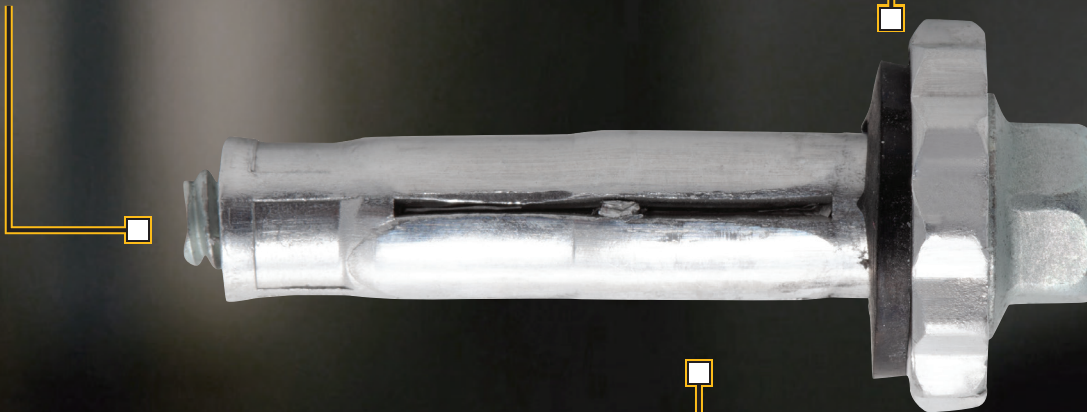


FAB-LOK® SCREWS

Requires a pre-drilled 5/16" pilot hole. Complete installation system with Fab-Lok Setting Tool

FAB-LOK® WASHER

EPDM Washer helps provide a weather tight seal



FAB-LOK® SLEEVE

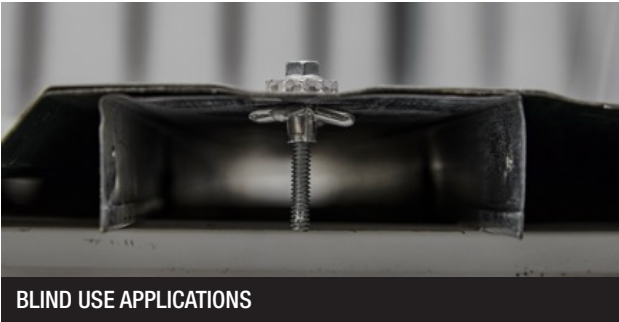
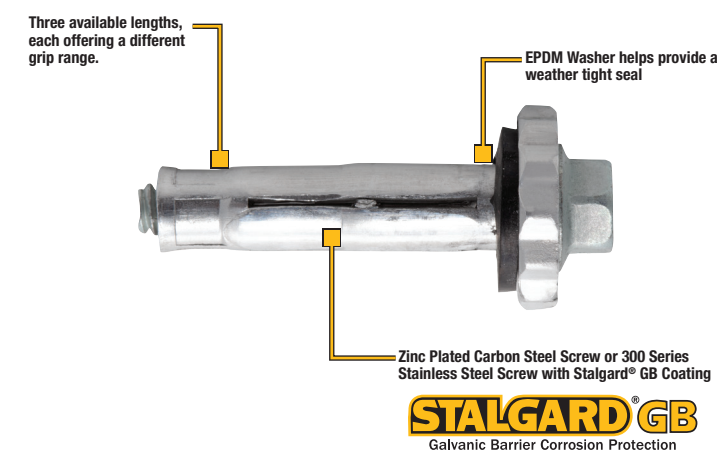
Fab-Lok fasteners combine a screw and a slotted aluminum sleeve designed to provide high resistance to loosening due to vibration.

FAB-LOK® PANEL RIVET FASTENERS

Vibration, either from inside or outside a building, can make ordinary fasteners loosen and back out. Fab-Lok fasteners combine a screw and a slotted aluminum sleeve to provide high resistance to loosening due to vibration.

BLIND FASTENING

FAB-LOK® PANEL RIVET FASTENERS



FAB-LOK® OFFERINGS

CATALOG NUMBER	PRE-DRILLED HOLE SIZE	GRIP RANGE¹	MAX PENETRATING LENGTH² (IN.)	HEAD HEIGHT³ (IN.)	HEAD DIAMETER⁴ (IN.)	MAX. WIDTH AFTER INSTALLATION⁵ (IN.)
CARBON STEEL SCREW						
DFSEZJ100	5/16" - 11/32"	.062 - .250	1.300	.0385	0.710	1.125
DFSEZJ120	5/16" - 11/32"	.250 - .500	1.600	.0385	0.710	1.250
DFSEZJ140	5/16" - 11/32"	.500 - .750	1.800	.0385	0.710	1.250
300 SERIES STAINLESS STEEL SCREWS						
DFSEZJ210	5/16" - 11/32"	.062 - .250	1.300	.0385	0.710	1.125
DFSEZJ230	5/16" - 11/32"	.250 - .500	1.600	.0385	0.710	1.250
DFSEZJ250	5/16" - 11/32"	.500 - .750	1.800	.0385	0.710	1.250

1. Grip Range is the material thickness necessary to achieve an effective fastening. This thickness includes any fixtures and base material.
2. Maximum Penetrating Length is measured from underneath the aluminum collar to the end of the screw. Actual penetrating Length varies on the connection and can be calculated by subtracting the overall thickness of the fastened material(s) from the Maximum penetrating length.
3. Head height is measured from the bottom of the sealing washer to the top of the screw head.
4. Head diameter is the diameter of the collar of the aluminum sleeve.
5. Maximum width after installation is the width of the expansion tines at the minimum grip range thickness. This width decreases as the attachment thickness increases. The width of the clamping tines are approximately 0.950" at the upper end of the grip range for each respective fastener.

SETTING TOOL FOR FAB-LOK FASTENERS⁶		
CATALOG NUMBER	DESCRIPTION	PACK QTY.
DFSEZJ900	HOLDING SLEEVE WITH SOCKET	1

6. The nominal outside diameter of the Fab-Lok setting tool is 1.50" This is the minimum clearance required when installing Fab-Lok fasteners with this setting tool.

RELATED PRODUCTS

VSR VERSA-CLUTCH™ SCREWGUN

DW268

#10 Diameters



VSR VERSA-CLUTCH™ SCREWGUN

DW267

#12 & 1/4" Diameters



VSR VERSA-CLUTCH™ SCREWGUN

DW269

#5/16" Diameters



20V MAX* XR® VERSA-CLUTCH™ ADJUSTABLE TORQUE SCREWGUN

DCF622

#10 - 1/4" Diameters



* Maximum initial battery voltage (measured without a workload) is 20 volts. Nominal voltage is 18.

Copyright ©2023 DeWALT. The following are examples of trademarks for one or more DeWALT power tools and accessories: the yellow and black color scheme; the "D"-shaped air intake grill; the array of pyramids on the handgrip; the kit box configuration; and the array of lozenge-shaped humps on the surface of the tool.

DeWALT®

ANCHORS & FASTENERS



ICC
ESR-2582
ESR-3200
ESR-4105
Concrete/Masonry/
Unreinforced Masonry

ASTM C 881
Type I, II, IV & V
Grade 3
(Class A&B)



Certified to
NSF/ANSI 61

SEISMIC
approved
for seismic
design
categories
A-F

ICC-ES APPROVED
approved for cracked and
uncracked concrete, grouted
or hollow masonry and
unreinforced masonry

**LOW
TEMPERATURE
DISPENSING**
approved for
dispensing down
to 14°F

VERSATILE
low odor
formula with
quick cure time

DOT
wide range
of listings;
27 states

**CERTIFIED TO
NSF/ANSI 61**
drinking
water system
components



Normal Weight
Concrete



Light Weight
Concrete



Grouted Block



Hollow Block



Brick



Unreinforced
Masonry



Competitive Comparison, Concrete

	DeWALT AC100+ Gold®	Hilti HY 100	Simpson AT-XP	ITW Econ S7
Code Approval (Concrete)	ICC-ES ESR-2582 (June 2016)	ICC-ES ESR-3574 (Aug. 2016)	IAMPO ER-263 (Sept. 2016)	ICC-ES ESR-2308 (June 2016)
Cracked Concrete	Yes	Yes	Yes	Yes
Water-Filled Holes	Yes	No	No	Yes
Seismic	Yes	No	Yes	Yes
DOT Rebar Dowel	28 states	Multiple States	Multiple States	Multiple States
Min. Install Temperature	14° F	14° F	14° F	14° F
Min. Cure Time @ 68° F	45 Min	30 Min	60 Min	30 Min
Post-Installed Rebar Approval	Yes	No	No	Yes

Hilti HY 100 is a trademark of Hilti Corporation.
AT-XP is a registered trademark of Simpson Strong-Tie Company Inc.
Econ and S7 are trademarks of ITW Commercial Construction, North America.

Competitive Comparison, Masonry

	DeWALT AC100+ Gold®	Hilti HY 70	Simpson AT-XP	ITW Econ S7
Code Approval (CMU)	ICC-ES ESR-3200 (Dec. 2016)	ICC-ES ESR-2682 (Aug. 2016)	IAMPO ER-281 (Mar. 2016)	-
Grout-filled CMU	Yes	Yes	Yes	No
Top of Walls	Yes	Yes	No	No
Hollow CMU (install w/ screen tube)	Yes	Yes	No	No
Min. Install Temperature	14° F	14° F	14° F	NA
Min. Cure Time @ 68° F	45 Minutes	1.5 Hours	60 Minutes	NA

*CMU = concrete masonry

Hilti HY 70 is a trademark of Hilti Corporation.
AT-XP is a registered trademark of Simpson Strong-Tie Company Inc.
Econ and S7 are trademarks of ITW Commercial Construction, North America.

AC100+ Gold® Acrylic Adhesive Anchoring System



CODE LISTED

ICC-ES ESR-2582
ICC-ES ESR-3200
ICC-ES ESR-4105



AC100+ Gold® DOT Approval

Alabama	Louisiana	Ohio
Arizona	Maine	Pennsylvania
Arkansas	Maryland	Rhode Island
Colorado	Michigan	Tennessee
Connecticut	Minnesota	Texas
Illinois	Mississippi	Vermont
Indiana	Missouri	Virginia
Iowa	Nebraska	Washington
Kansas	New Jersey	Wisconsin
Kentucky	New York	
Approved on a Project-By Project Acceptance*		
Alaska	New Hampshire	South Dakota
Delaware	North Dakota	West Virginia
Hawaii	South Carolina	Wyoming
Montana		

*Some states do not maintain an approval list for anchoring systems. For approval, contact local engineering authority for acceptance project by project.

Visit www.DEWALT.com/approvals for the most up-to-date list of approvals

Permissible Installation Conditions



Dispensing Configurations

Quik-Shot 1:1 Mixing Ratio	Dual Cartridge 10:1 Mixing Ratio

	8478SD	8486SD	8490SD
Dispensing Configuration	9.5oz. Quik-Shot	11.5oz. Dual Cartridge	28oz. Dual Cartridge
Mixing Nozzles			
08293	✓	✓	
08294			✓
20V MAX* Dispensers			
DCE560D1	✓		
DCE595D1			✓
Standard Manual Dispenser			
08437	✓	✓	
08494			✓
High Performance Manual Dispensers			
08479	✓		
08485		✓	
Pneumatic Dispensers			
08496			✓
Standard Brushes			
See page 20	✓	✓	✓
Standard Piston Plugs			
See page 21	✓	✓	✓
Flex Tubing			
See page 21	✓	✓	✓

* Maximum initial battery voltage (measured without a workload) is 20 volts. Nominal voltage is 18.

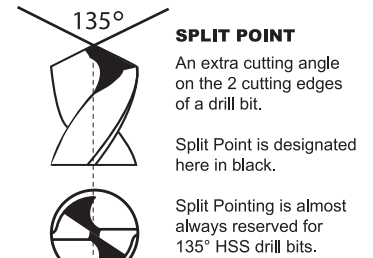
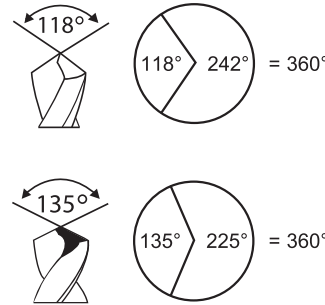
ADHESIVE ATTACHMENT

Drilling and Cutting Tools

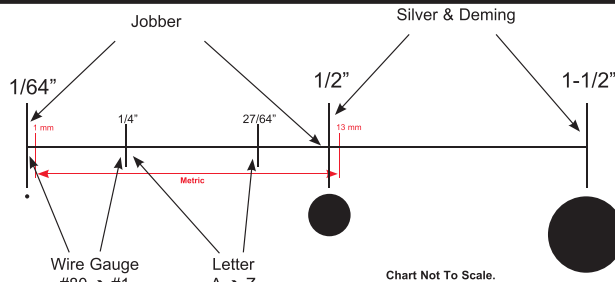
Jobber Drill Characteristics



Differences In Drill Bit Points



Drill Bit Diameter Graph



Drill Bit Types



Drill Bit Diameter Chart

SIZE	CAT.	DEC.	SIZE	CAT.	DEC.	SIZE	CAT.	DEC.	SIZE	CAT.	DEC.	SIZE	CAT.	DEC.	SIZE	CAT.	DEC.	SIZE	CAT.	DEC.	SIZE	CAT.	DEC.
60	N	0.0400	42	N	0.0935	27	N	0.1440	11	N	0.1910	E	L	0.2500	11/32"	J	0.3438	33/64"	S&D	0.5156	13/16"	S&D	0.8125
59	N	0.0410	3/32"	J	0.0938	26	N	0.1470	10	N	0.1935	F	L	0.2570	S	L	0.3480	17/32"	S&D	0.5312	53/64"	S&D	0.8281
58	N	0.0420	41	N	0.0960	25	N	0.1495	9	N	0.1960	G	L	0.2610	T	L	0.3580	35/64"	S&D	0.5469	27/32"	S&D	0.8438
57	N	0.0430	40	N	0.0980	24	N	0.1520	8	N	0.1990	17/64"	J	0.2656	23/64"	J	0.3594	9/16"	S&D	0.5625	55/64"	S&D	0.8594
56	N	0.0465	39	N	0.0995	23	N	0.1540	7	N	0.2010	H	L	0.2660	U	L	0.3680	37/64"	S&D	0.5781	7/8"	S&D	0.8750
55	N	0.0520	38	N	0.1015	5/32"	J	0.1562	13/64"	J	0.2031	I	L	0.2720	3/8"	J	0.3750	19/32"	S&D	0.5938	57/64"	S&D	0.8906
54	N	0.0550	37	N	0.1040	22	N	0.1570	6	N	0.2040	J	L	0.2770	V	L	0.3770	39/64"	S&D	0.6094	29/32"	S&D	0.9062
53	N	0.0595	36	N	0.1065	21	N	0.1590	5	N	0.2055	K	L	0.2810	W	L	0.3860	5/8"	S&D	0.6250	59/64"	S&D	0.9219
1/16"	J	0.0625	7/64"	J	0.1094	20	N	0.1610	4	N	0.2090	9/32"	J	0.2812	25/64"	J	0.3906	41/64"	S&D	0.6406	15/16"	S&D	0.9375
52	N	0.0635	35	N	0.1100	19	N	0.1660	3	N	0.2130	L	L	0.2900	X	L	0.3970	21/32"	S&D	0.6562	61/64"	S&D	0.9531
51	N	0.0670	34	N	0.1110	18	N	0.1695	7/32"	J	0.2188	M	L	0.2950	Y	L	0.4040	43/64"	S&D	0.6719	31/32"	S&D	0.9688
50	N	0.0700	33	N	0.1130	11/64"	J	0.1719	2	N	0.2210	19/64"	J	0.2969	13/32"	J	0.4062	11/16"	S&D	0.6875	63/64"	S&D	0.9844
49	N	0.0730	32	N	0.1160	17	N	0.1730	1	N	0.2280	N	L	0.3020	Z	L	0.4130	45/64"	S&D	0.7031	1"	S&D	1.0000
48	N	0.0760	31	N	0.1200	16	N	0.1770	A	L	0.2340	5/16"	J	0.3125	27/64"	J	0.4219	23/32"	S&D	0.7188	1-1/16"	S&D	1.0625
5/64"	J	0.0781	1/8"	J	0.1250	15	N	0.1800	15/64"	J	0.2344	O	L	0.3160	7/16"	J	0.4375	47/64"	S&D	0.7344	1-1/8"	S&D	1.1250
47	N	0.0785	30	N	0.1285	14	N	0.1820	B	L	0.2380	P	L	0.3230	29/64"	J	0.4531	3/4"	S&D	0.7500	1-3/16"	S&D	1.1875
46	N	0.0810	29	N	0.1362	13	N	0.1850	C	L	0.2420	21/64"	J	0.3281	15/32"	J	0.4688	49/64"	S&D	0.7656	1-1/4"	S&D	1.2500
45	N	0.0820	28	N	0.1405	3/16"	J	0.1875	D	L	0.2460	Q	L	0.3320	31/64"	J	0.4844	25/32"	S&D	0.7812	1-5/16"	S&D	1.3125
44	N	0.0860	9/64"	J	0.1406	12	N	0.1890	1/4"	J	0.2500	R	L	0.3390	1/2"	J	0.5000	51/64"	S&D	0.7969	1-3/8"	S&D	1.3750
43	N	0.0890																			1-1/2"	S&D	1.5000
CATEGORY (CAT.): N = Number, L = Letter, J = Jobber, S&D = Silver & Deming																							

CATEGORY (CAT.): N = Number, L = Letter, J = Jobber, S&D = Silver & Deming

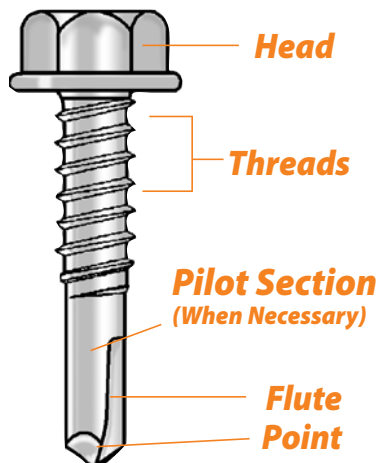
Chemical Analysis of The Three Primary High Speed Steels Used To Manufacture HSS Drill Bits

TYPE	CHEMICAL COMPOSITION						ROCKWELL C HARDNESS	TERM
	CARBON	TUNGSTEN	MOLYBDENUM	CHROMIUM	VANADIUM	COBALT		
M2	0.85	6.00	5.00	4.00	1.90	-	63-65	HSS
M35	1.10	1.50	9.50	1.15	1.15	5.00	65-67	COBALT
M42	1.10	1.50	9.50	1.15	1.15	8.00	65-67	SUPER COBALT

M2 "HSS" is the standard material used for all Proferred® drill bits. M2 has good red-hardness and retains its cutting edge longer than other general purpose high speed steels because of its increased quantity of tungsten (dull red heat up to 1000°F without loss of hardness or rapid dulling of cutting edge). M2 is generally favored for high production machine work.

M35 M35 is the standard cobalt material used for most Proferred® drill bits. M35 has excellent resistance to abrasion and very good red-hardness for working difficult materials.

M42 M42 "Super Cobalt" is American made premium cobalt material used for higher performance Proferred® drill bits. M42 has the best resistance to abrasion and red-hardness.



HEAD

Proper head style choice will ensure stability during driving, proper clamping and desired finished appearance.

THREAD FORM AND DIAMETER

The correct choice of thread form and diameter optimizes low installation torque with high pullout strength.

PILOT SECTION

The unthreaded portion of the point assures the drilling of the steel is completed before the threads begin tapping into the drilled hole.

POINT

The point is designed to efficiently remove material and precisely size the hole for the thread.

FINISH

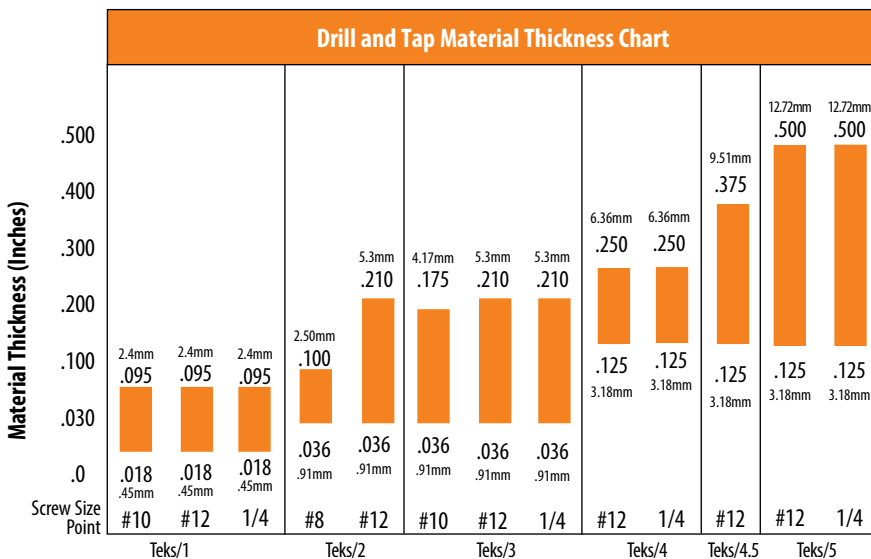
Platings and coatings provide lubricity during drilling and tapping as well as corrosion resistance.

FASTENER DESCRIPTION AND BREAKDOWN — EXAMPLE

10 - **16** x **3/4"** **HWH** **Teks/3**
 Nominal Screw Size Threads Per Inch Screw Length Head Style Drill Point Type

Nominal Screw Sizes	
Thread Diameter	Decimal Equivalent
#6	.140
#7	.150
#8	.160
#9	.180
#10	.190
#11	.200
#12	.210
#13	.230
#14	.240
1/4	.250
#17	.286

Steel Gauge Chart		
Common Sheet Steel Gauges	Decimal Eq.	
	Inches	MM
30	.012	.30
28	.015	.38
26	.018	.45
24	.024	.61
22	.030	.76
20	.036	.91
18	.048	1.21
16	.060	1.52
14	.075	1.90
12	.105	2.65
1/8	.125	3.18
10	.134	3.42
3/16	.187	4.77
1/4	.250	6.36
1/2	.500	12.72



*Drill & tap capacities may vary with special feature designs.
 Refer to product reports for specifics.



PRO+FAST

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