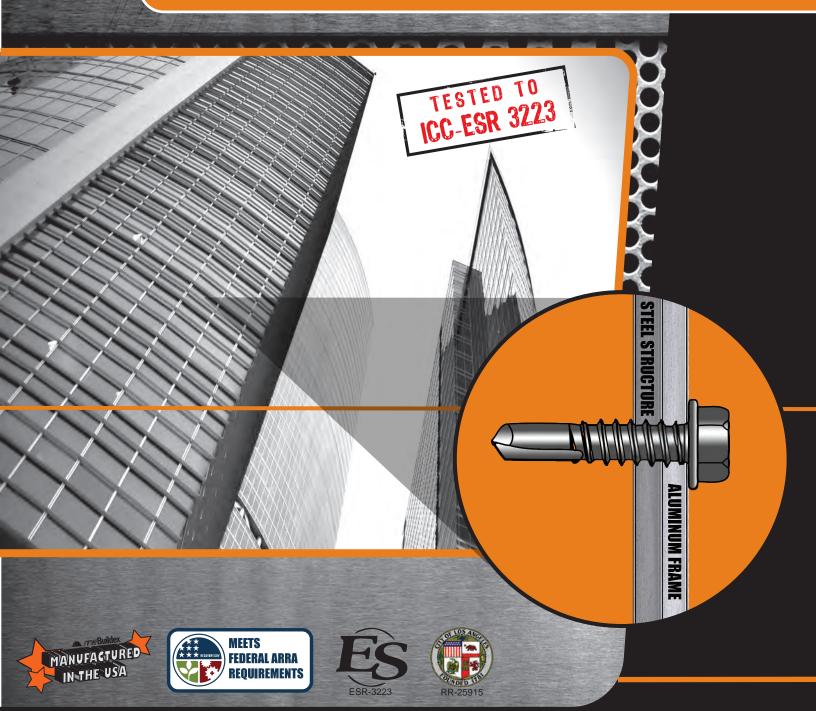
TEKS SELECT

A TW/Buildex[®]

SELECTIVELY HARDENED SELF-DRILLING AND TAPPING FASTENERS THAT ATTACH SIMILAR OR DISSIMILAR METALS AND HAVE A GRADE 5 PERFORMANCE INSTALLING FASTER THAN NUTS AND BOLTS



Teks Select" is designed to meet the challenges of attaching similar or dissimilar types of metal (for example, aluminum & steel,

The Difference Can Last a Lifetime!

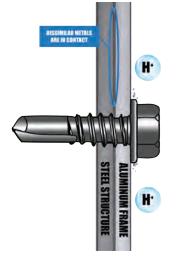
Grade 5 Performance! Designed to attach similar or dissimilar metals, Teks Select fasteners have strength and ductility performance similar to Grade 5 bolts. These characteristics in the fastener's load-bearing area improve resistance to shear failure due to wind and other loads requiring mechanical flex (ductility). This strength and ductility also equips the Teks Select to maintain mechanical integrity when attaching different metals. This attachment can apply shear pressure on the fastener due to the different rates of expansion and contraction (expansion coefficients) present in each type of metal.

An independent 3rd party laboratory tested Teks Selects for strength and ductility performance similar to Grade 5 bolts tested to SAE J429 and ASTM A449. Teks Select hydrogen embrittlement testing was conducted in a 5% neutral salt spray environment per ASTM

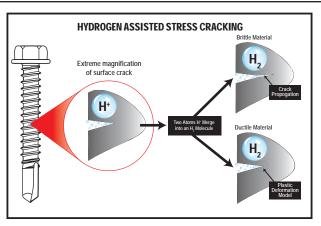
B117. Fasteners were installed in a wedge plate fixture to induce stress and exposed to over 80% fastener torsion strength of torque every 24 hours for 240 hours resulting in no head pops.



Teks Select features selective hardening. When dissimilar metals (for example, aluminum and steel) are mechanically fastened and water (from moisture or other sources) is present, a galvanic corrosion takes place. This releases atomic Hydrogen. The



presence of the Hydrogen creates the specific conditions in which the Hydrogen assisted stress corrosion cracking (HASCC) or Hydrogen embrittlement of the fasteners may occur. If the fastener material is ductile enough, this situation is prevented. Teks Select's selective hardening process produces drill point and lead threads hard enough (HRC 52 mini-



mum) to drill and tap through metals. The load-bearing area remains soft enough (HRC 28-34) to remain ductile accommodating the expansion coefficients of dissimilar metals and resisting Hydrogen embrittlement. And that means the integrity of the connection between the fastened metals is maintained over the life of the building and the building requires less fastener maintenance.

TWICE AS FAST AS NUTS & BOLTS

PERFORMANCE

SELECTIVE HARDENING

GRADE 5

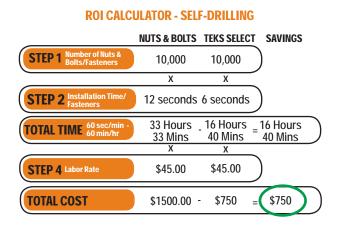
instead of having to:
1) Pre-drill
2) Insert the bolt
3) Thread on the nut
4) Tighten the nut to the required torque
Now these four steps are replaced by one step:

Self-drilling fasteners can install twice as fast as nuts

and bolts. When a job requires a large number of nuts and bolts

1) Install the Teks Select

The Teks Select replaces four steps with one. And that means you save time and money.





Teks Select features Climaseal Advanced Corrosion Resistance (ACR) coating. This coating enables Teks Select fasteners to outperform competitive fasteners in a 5% neutral salt spray test (conducted per ASTM B117 standards) by both ITW Buildex and an independent 3rd party laboratory. And that means, the work you invest in during fastener installation resists galvanic corrosion and delivers a longer lasting building to your customer.





TEKS SELECT™

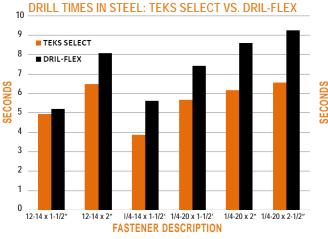
ELCO DRIL-FLEX®



Teks Select[™] features the BX head marking. This head marking differentiates a Teks Select fastener from standard Teks* fasteners that can offer fewer features. And that means, you are installing a fastener backed by customer service from a world class provider of fastening solutions.

A drill point that starts faster along with a more efficient thread design combine to enable the Teks Select[™] to drill and tap up to 40% faster than other drilling and tapping fasteners.

In laboratory tests at ITW Buildex, Teks Select out performed Elco Dril-Flex® in speed tests conducted in a fixture drilling and tapping into steel and aluminum.



A drill point that starts faster along with a more efficient thread design combine to enable the Teks Select to drill and tap with fewer stalls than other drilling and tapping fasteners. In laboratory tests at ITW Buildex, using a test fixture, Teks Select drilled and tapped into a 1/4" steel plate, in 20 out of 20 attempts. The competitive fasteners stalled in as many as 8 out of 20 attempts.

COMPETITIVE **DRILL TESTING ROI CALCULATOR - FEWER STALLS** DRIL-FLEX TEKS SELECT SAVINGS STEP 2 per of Fastener 10,000 10,000 Х Х STEP 2 3,000 0 STEP 3 18 seconds 6 seconds = 15 Hours TOTAL TIME 60 s 15 Hours 0 Hours STEP 5 Labor Rate \$45.00

\$45.00

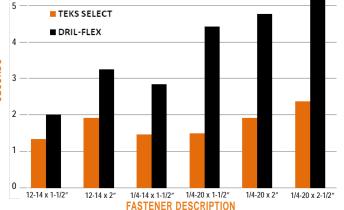
\$675.00

SPECIFICATIONS

TOTAL COST

Application	Metal attachments, including aluminum to steel							
Short Form	Self-drilling and tapping, selectively hardened fastener with							
Specification [∓]	strength and ductility performance similar to a Grade 5							
	(1/4-20 diameter) SAE J 429 and ASTM A 449 fastener							
Diameters#10, #12, 1/4"								
Thread Form	10-16, 12-14, 1/4-14, 1/4-20							
Head Styles	Hex washer head, undercut Phillips flat head							
Drill Point	Teks 3, Teks 4							
Finish	Climaseal ACR [®] corrosion-resistant finish meets a							
	minimum of 1,000 hours salt spray per ASTM B117							
	standards with 0% red rust							

DRILL TIMES IN ALUMINUM: TEKS SELECT VS. DRIL-FLEX



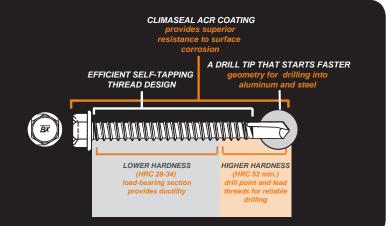
DRIL-FLEX SAMPLES



ITW BUILDEX SAMPLES

Because Teks Select is specifically designed to meet the challenges of attaching similar or dissimilar types of metal, it provides extended fastener life for these applications:

- Glass and Metal Curtain Walls
- Fenestration: Window Systems, Door Systems, and Store Front Systems
- Grade 5 Nut and Bolt Substitution
- Anchoring Metal Clips to Metal Structures for Masonry Facades
- Solar System Attachment



TEKS SELF-DRILLING FASTENERS

Selector Guide / Performance Data

		lue				444-000	4440000	440.000	4405000	4070000	4400000
Part Number Description		1076000	1080000	1114000	1117000	1119000	1124000	1125000	1078000	1126000	
			10-16 x 3/4"	12-14 x 1"	12-14 x 1-1/2"	12-14 x 2"	1/4-14 x 1"	1/4-20 x 1-1/8"	1/4-20 x 1-1/2"	1/4-20 x 2"	1/4-20 x 2-1/2
Head Style		HWH	HWH	HWH	HWH	HWH	HWH	HWH	HWH	HWH	
Drill Point		3	3	3	3	3	4	4	4	4	
Drilling Cap		.150"	.187"	.187"	.187"	.210"	.312"	.312"	.312"	.312"	
Max Load Bearing Area*		.500°	.500	1.000	1.500	.450"	.500"	.8307	1.330"	1.830	
Installation Tool		Tool	Use a 5/16" Drive Socket								
PUL	LOU	T VAL	UES (AVERA	GE LBS. ULT	IMATE)						
		ksi									
	18	45.5	401	400	400	400	475				
Í	16	63	699	561	561	561	631	827	827	827	827
1	14	55.5	1010	964	964	964	1062	1258	1258	1258	1258
GAUGI	12	63	1680	1516	1516	1516	1878	1946	1946	1946	1946
STEEL GAUGE	1/8	56.9	2183	2149	2149	2149	2320	2685	2685	2685	2685
	3/16	65.3	2100	2877	2877	2877	3668	3572	3572	3572	3572
	1/4	48.1		2011	2011	2011					
	5/16	49.1						4719	4719	4719	4719
15	1/8	32.4						4699	4699	4699	4699
ALUMINUM 6063-T5	1/4	32.1	745	1008	1008	1008	1017	970	970	970	970
NIM	3/8			2543	2543	2543	3080	2760	2760	2760	2760
		27.7						3851	3851	3851	3851
SHE			S (AVERAGE	E LBS. ULTIM	ATE)			[
	18-18		996	965	965	965	1100	1026	1026	1026	1026
	18-14		1872	1803	1803	1803	2132	2089	2089	2089	2089
*U	16-16		1331	1360	1360	1360	1414	1359	1359	1359	1359
STEEL GAUGE**	14-14			1815	1815	1815	2439	2357	2357	2357	2357
STE	1/8-3/16						2636	2748	2748	2748	2748
	3/16-1/4							2881	2881	2881	2881
	12-1/4							2843	2843	2843	2843
NUM 2**	1/8	-1/8	1526	1846	1846	1846	2087	2106	2106	2106	2106
ALUMINUM 6063-T5**	1/8	-1/4		2488	2488	2488	3328	3062	3062	3062	3062
	CHAN	ICAL	PROPERTIE								
Yield Stregth, F _y Ksi (MPa) Tensile Strength F _{II} Ksi (MPa)			134 ksi 920 Mpa								
		ength	152 ksi 1054 Mpa								

Installation Guidelines

The screws must be installed perpendicular to the work surface using a screw driving tool. The installation speed for 1/4" screws should not exceed 1,800 RPM. The installation speed for all other screws should not exceed 2,500 RPM.

Overdriving may result in torsional failure of the fastener or stripout of the substrate.

The screw must penetrate through the supporting metal with a minimum of three threads protruding past the back side of the supporting metal, or the length which ensures that only the load-being area of the screw is engaged in the material being fastened, whichever is greater.

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M The fastener must penetrate beyond the metal structure a minimum of 3 threads.