Handan Xiaojun Fastener Manufacturing Co.,Ltd

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Feel the Power of the Screws

Carbon Steel • Stainless Steel • Bi-Metal



Company Introduction

Handan Xiaojun Fastener Manufacturing Co.,Ltd. It's located in China's largest fastener production base in Yongnian, Hebei province. Xiaojun is a large private enterprise with high standards of fastener production and scientific research, whose industrial products are sold all over the world. The company adheres to the business tenet of quality excellence, strict management and put reputation first. We have been selecting superior steel raw materials and employing senior technical staffs. As the industry develops, upgrades and transforms, the high strength threaded bars brought us new opportunities since 2009. Under this background we decide to produce self drilling screws.

The main products are: Carbon Steel and Stainless Steel Self-Drilling Screws and Self-Tapping Screws, Xiaojun has thousand sets of cold-forming machines, tapping, drilling, punching machines and other CNC equipment.



Index

Screw Data		07
Mechanical Data I		08
Mechanical Data II	€************************************	09
Mechanical Data III		10
Medium duty Hex Washer Head	Thumananan -	11
Slotted Hex Washer Head		13
Phillips Pan Head	OMINIO	15
Phillips Truss Head	()	17
Phillips Countersunk Head		19
Phillips Countersunk Head With Ribs(Nibs)	X	21
Phillips Countersunk Head With Ribs(Nibs) And Wings		23
Medium duty Hex Washer Head		25
Phillips Bugle Head		27
Phillips Wafer Head	() mannana -	29
Unslotted Hex Washer Head	STREET, STREET, STREE	31

Phillips Pan Head	A	33
Phillips Truss Head		35
•	1	
Phillips Countersunk Head	() F	37
Bi-Metal Hex Washer Head		39
Knurled Double Thread Hex Washer Head		41
Phillips Pan Head	Junn	43
Phillips Truss Head	e)minim	45
Slotted Hex Washer Head		47
Torx Washer Head Knurled	- STARAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGA	49
Phillips Countersunk Head Hi-Low	************	51
Unslotted Hex Flange Head		53
More Products of Stainless Steel Screws		55
Environment Characteristics		57
XIAOJUN Feel the Power of the Screws		59
410 Stainless Steel		61

What Is Anti-corrosion R3 & R4?		62
304/316 Bi-metal	annimme.	64
Ruspert		69
Ruspert Coating - Super Anti-corrosion		71
Ruspert Coating Processes		71
Salt-spray Test Result		72
DIN50018 Testing In Alternating Condensation Atomosphere Containing Su	ılphur Dioxide	73
Painted System		78
RAL Colors		78
Packaging Box	TO TO THE PARTY OF	82
Control In Screw Quality	4	83
Certifications	The region of the control of the con	84
Production Process		85
Packing & Shipping		86
Products in the World		87







XiAOJUn®

Feel the Power of the Screws

Professional

Provides expertise and technology in fasteners and construction Hardware industry

Positive

Continuously provide customers with high-quality products and services

Trustworthy

With 15 years of experience, with the famous XiAOJUn° brand

Typical

Provide unique solutions to fastener problems

Ambitious

Offer a range of activities to meet client expectations

Screw Data

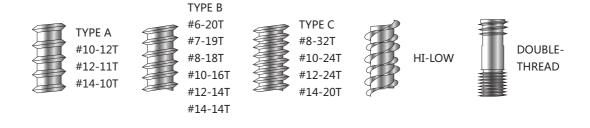
Head Styles



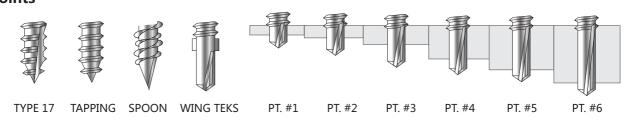
Head Recess







Points



Washer



Plating

PL: PlainKP: Black PhosphatedBO: Black OxideRS: RuspertYZ: Yellow ZincBP: Grey PhosphatedDC: DacrotizedXY: XylanZN: ZincBZ: Black Zinc

Mechanical Data I

Material

• Coating and Finish

• E.P.D.M Seal

• High grip

C-1022 Steel Case Hardened IND Flange Washer

Specia

High Grip

Standard
 AS 3566
 ASTMD 2247
 DIN 50018





Hexagon

Washer Face with E.P.D.M Seal

Nanoplating

Technical description

It is innovative nano scale surface treatment technology that provides inexpensive, high quality and extreme corrosion resistance properties in current competitive markets. Nanoplating is no toxic and no pollution to the environment as reach to world standard.

Characteristics

- Stronger than Bi-metal screws or alloy steel screw without breaking during usage.
- Extreme corrosion resistance for more than 2000 hours salt spray test
- Environment friendly process reduces waste effluent
- Available for ACQ with treated wood
- Excluded lead, cadmium and other heavy metal
- Meets WEEE and ROHS directive from European Union and ELF (End of Life Vehicle) directive for eliminating hazardous chemicals

Resistance Performance

Salt Spray [ASTM B117]	2000 hours
Kesternich [DIN 50018 2.0L (SO2)]	25 cycles
Acid Resistance [ASTM D-1308]	320 hours
Heat Resistance [250°C]	15 hours
Meet Australia Standard	As 3566 CLASS 4

Resistance Performance

	Thickness	Salt Spray Test	Kesternich
Nanoplating	20 mu	2000 hours passed	25 cycles
C4 + Coating	60 - 70 mu	1500 hours passed	20 cycles

Note: the test results shown above are the result of laboratory tests and are guidance purpose only

Mechanical Data II

Shear Strength

Gauge	#6	#8	#10	#12	#14
MM	3.5	4.2	4.8	5.5	6.3
Kn	2.93	4.36	6.28	8.36	12.27



Tensile Strength

Gauge	#6	#8	#10	#12	#14
MM	3.5	4.2	4.8	5.5	6.3
Kn	5.0	7.0	10.0	12.5	17.0



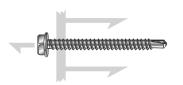
Torsional Strength

Gauge	#6	#8	#10	#12	#14
ММ	3.5	4.2	4.8	5.5	6.3
Kn	2.8	4.5	6.5	10.0	14.0



Pull-out Strength

Gauge	Drill P	Drill Point #2, #3				#5	
MM	1.6	2.0	2.5	3.0	3.2	5.0	6.0
Kn	3.82	4.93	6.32	7.92	9.30	11.21	12.50



Performance And Mechanical Data

	Steel Thickness	4.8mm (#10)	5.5mm (#12)	6.3mm (#14)
Shear Strength (N)		6700	10400	13400
Tensile Strength (N)		9500	13900	15500
Torsional Strength (N-M)		6.5	10.0	14.0
Pull-out Strength (N)	2.3 mm	4690	4700	5000
	3.2 mm	7480	7610	7930
	4.5 mm	9680	12700	13500
	6.0 mm		13900	15000
Drilling Capacity	max. mm	3.5	4.5	6.0

The test results shown above are the result of laboratory tests and are guidance purpose only.

Mechanical Data III

Shear Strength

Self Drilling Screws	Size	Drill Point	Drill Capacity (m/m) max.
	M3.5 (#6), M3.9 (#7)	#2	0.5 - 1.0 mm
	M4.2 (#8)	#2	1.0 - 2.0 mm
	M4.8 (#10)	#2	1.0 - 2.0 mm
	M4.8 (#10)	#3	1.0 - 3.0 mm
	M5.5 (#12), M6.3 (#14)	#3	2.0 - 4.0 mm
		#4	7.0 - 8.0 mm
		#5	10.0 - 12.0 mm
Drywall Screws		Point NO.	Drill Capacity (m/m) max.
			0.7 - 1.0 mm

Plating

Types	Salt Spray Test/hrs	Kesternich/cycles
Zinc	24 - 36	_
Yellow Zinc	24 - 36	_
Black Phosphate	24 - 36	_
Grey Phosphate	24 - 36	-
Dacromet	500 - 1000	_
Ruspert	500 - 1000	-
Mechanical Galvanizing	500 - 1000	_
Mechanical Galvanizing+Coating	1000 - 1500	15 - 20
Nanoplating	1500 - 2000	20 - 25

Washer Material's General Properties

Physical Properties	E.P.D.M	P.V.C	
Age-Heat Resistance	•	×	
Cold Resistance	•	×	
Weather Resistance	•	×	
Ozone Resistance	•	0	
Oil Resistance	•	×	
Bending Strength	0	×	
Wear Resistance	0	×	
Repulsive Elasticity	0	×	
Compressive Distortion	0	0	

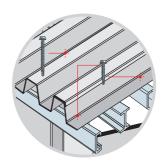
● EXCELLENT ○ POOR × GOOD

The test results shown above are the result of laboratory tests and are guidance purpose only.

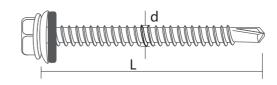
Medium duty

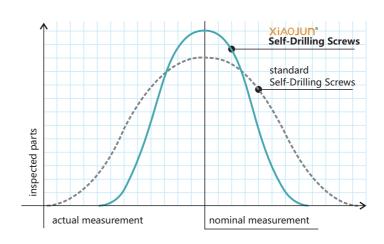
Hex Washer Head

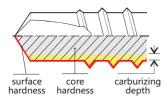




XiAOJUn° Suggested drill point #3 maximum drill capacity of 5mm







Material



Carbon Steel



Steel

Point





Drill Pont

#5

Plated





RS







White Zinc -plated

-plated

-plated

Nickel -plated

Ruspert Magni

Dacromet

- For medium duty purpose
- Roof deck to steel framing
- Accessories to steel framing

- Precise cutting edges to improve drill performance with less effort
- Point to thread design maximize pullout performance and minimizes backout

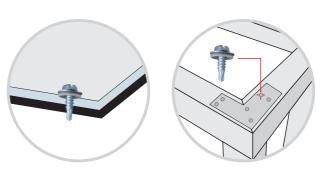
Specifications			
Drive Socket	3/8"	Loading Bearing Length [Inches]	0.380"
Loading Bearing Length [mm]	Hex9.7	Product Type	Self-drilling screw
Diameter	#14	Diameter [mm]	6.3 mm
Drill Capacity Max [Inches]	0.237"	Drill Capacity Range [mm]	6mm
Drill Point	Xiaojun®-#3 drill point	Head Style	Hex Washer head
Material	Grade 5 Carbon steel	Thread Major Dia	0.248"
Thread Major Dia [mm]	6.3 mm	Thread Minor Dia	0.2"
Thread Minor Dia [mm]	5.1mm	Threads Per Inch	14
Washer	EPDM Washer		

Size	Length (inch)	Length (mm)	Drill Point (m/m)	Drill Capacity (m/m)
	3/4"	19	#3	2.0 - 4.0
•	1"	25	#3	2.0 - 4.0
-	1-1/4"	32	#3	2.0 - 4.0
#12-14	1-1/2"	38	#3	2.0 - 4.0
M5.5	2"	50	#3	2.0 - 4.0
-	2-1/2"	63	#3	2.0 - 4.0
	3"	75	#3	2.0 - 4.0
	3/4"	19	#3	2.0 - 4.0
	1"	25	#3	2.0 - 4.0
-	1-1/4"	32	#3	2.0 - 4.0
	1-1/2"	38	#3	2.0 - 4.0
#14-14	2"	50	#3	2.0 - 4.0
M6.3	2-1/2"	63	#3	2.0 - 4.0
•	3"	75	#3	2.0 - 4.0
-	4"	100	#3	2.0 - 4.0
•	5"	125	#3	2.0 - 4.0

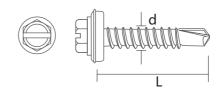
Slotted

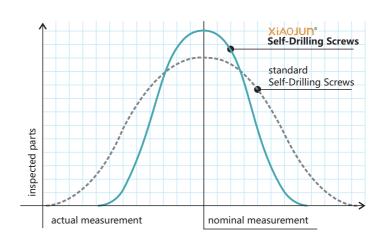
Hex Washer Head

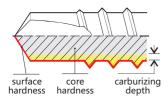




XiAOJUn® Suggested drill point #3 maximum drill capacity of 5mm







Material







Steel





White Zinc

-plated



-plated



-plated





-plated

Point



Drill Pont #5





Ruspert







Climaseal

Dacromet

- Roof and skin sheet to steel
- Residential steel frame construction
- For light duty purpose

- Precise cutting edges to improve drill performance with less effort
- Point to thread design maximize pullout performance and minimizes backout

Specifications			
Drive Socket	3/8"	Loading Bearing Length [Inches]	0.380"
Loading Bearing Length [mm]	Hex9.7	Product Type	Self-drilling screw
Diameter	#14	Diameter [mm]	6.3 mm
Drill Capacity Max [Inches]	0.237"	Drill Capacity Range [mm]	6mm
Drill Point	Xiaojun®-#3 drill point	Head Style	Hex Washer head
Material	Grade 5 Carbon steel	Thread Major Dia	0.248"
Thread Major Dia [mm]	6.3 mm	Thread Minor Dia	0.2"
Thread Minor Dia [mm]	5.1mm	Threads Per Inch	14
Washer	EPDM Washer		

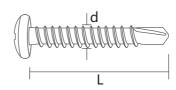
Size	Length (inch)	Length (mm)	Drill Point (m/m)	Drill Capacity (m/m)
	3/4"	19	#3	2.0 - 4.0
•	1"	25	#3	2.0 - 4.0
-	1-1/4"	32	#3	2.0 - 4.0
#12-14	1-1/2"	38	#3	2.0 - 4.0
M5.5	2"	50	#3	2.0 - 4.0
-	2-1/2"	63	#3	2.0 - 4.0
	3"	75	#3	2.0 - 4.0
	3/4"	19	#3	2.0 - 4.0
	1"	25	#3	2.0 - 4.0
-	1-1/4"	32	#3	2.0 - 4.0
	1-1/2"	38	#3	2.0 - 4.0
#14-14	2"	50	#3	2.0 - 4.0
M6.3	2-1/2"	63	#3	2.0 - 4.0
•	3"	75	#3	2.0 - 4.0
-	4"	100	#3	2.0 - 4.0
•	5"	125	#3	2.0 - 4.0

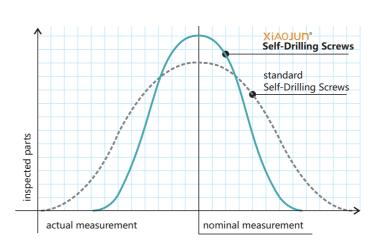
Pan Head

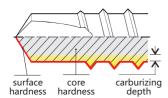




XiAOJUn° Suggested drill point #2 maximum drill capacity of 2mm and drill point #3 maximum drill capacity of 5mm







Material







Steel



White Zinc -plated -plated



Chrome Nickel -plated -plated

Point





Drill Pont #3

Coating









Ruspert

Magni

Climaseal Dacromet

- Skin sheet to steel
- Residential steel frame construction
- For light duty purpose
- \bullet Suitable for stitching 1 thick & 1 thin steel plate

- Pan head design on purost using
- Non-walking point provides fast material engagement

Specifications			
Drive Socket	#2 Phillips	Product Type	Self-drilling screw
Diameter	#10	Diameter [mm]	4.72 mm
Drill Capacity Max [Inches]	0.150"	Drill Point	XiaoJun®-#2 drill point
Head Style	Pan	Material	Carbon steel
Thread Major Dia	0.186"	Thread Major Dia [mm]	4.72 mm
Thread Minor Dia	0.138"	Thread Minor Dia [mm]	3.51mm
Threads Per Inch	16	Washer	No washer

Size	Length (inch)	Length (mm)	Drill Point (m/m)	Drill Capacity (m/m)
	3/8"	10	#2	0.5 - 1.0
#6-20 M3.5	1/2"	13	#2	0.5 - 1.0
IVIS.5	5/8"	16	#2	0.5 - 1.0
	1/2"	13	#2	1.0 - 2.0
	5/8"	16	#2	1.0 - 2.0
#8-18	3/4"	19	#2	1.0 - 2.0
M4.2	1"	25	#2	1.0 - 2.0
·	1-1/4"	32	#2	1.0 - 2.0
·	1-1/2"	38	#2	1.0 - 2.0
	1/2"	13	#2	1.0 - 2.0
·	5/8"	16	#2	1.0 - 2.0
#10.16	3/4"	19	#2	1.0 - 2.0
#10-16 M4.8	1"	25	#3	1.0 - 3.0
·	1-1/4"	32	#3	1.0 - 3.0
•	1-1/2"	38	#3	1.0 - 3.0
•	2"	50	#3	1.0 - 3.0

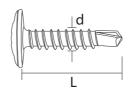
Truss Head

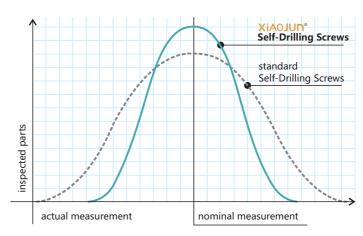


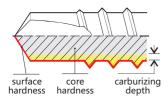




XiAOJUn° Suggested drill point #2 maximum drill capacity of 2mm







Material







Steel

Stainless

Plated



-plated

-plated





Point



Drill Pont #2

Coating









White Zinc Chrome Nickel Ruspert -plated -plated

17

- Residential steel frame construction
- For using in object like polycabonate sheet, shadow cover

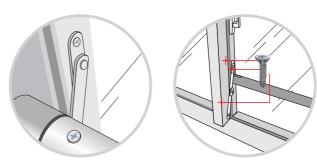
- Truss head design on purpose using
- Non-walking point provides fast material engagement

Specifications			
Drive Socket	#2 Phillips	Product Type	Self-drilling screw
Diameter	#10	Diameter [mm]	4.72 mm
Drill Capacity Max [Inches]	0.150"	Drill Point	XiaoJun®-#2 drill point
Head Style	Truss	Material	Carbon steel
Thread Major Dia	0.186"	Thread Major Dia [mm]	4.72 mm
Thread Minor Dia	0.138"	Thread Minor Dia [mm]	3.51mm
Threads Per Inch	16	Washer	No washer

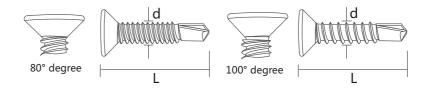
Size	Length (inch)	Length (mm)	Drill Point (m/m)	Drill Capacity (m/m)
	1/2"	13	#2	1.0 - 2.0
	5/8″	16	#2	1.0 - 2.0
#8-18	3/4"	19	#2	1.0 - 2.0
M4.2	1"	25	#2	1.0 - 2.0
	1-1/4"	32	#2	1.0 - 2.0
	1-5/8"	41	#2	1.0 - 2.0

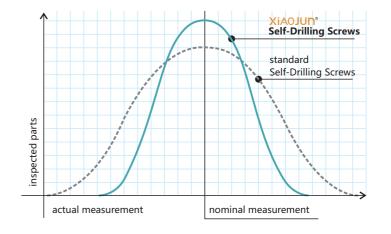
Countersunk Head

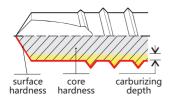




XiAOJUN° Suggested drill point #2 maximum drill capacity of 2mm and drill point #3 maximum drill capacity of 5mm







Material



Carbon Steel



Steel



Plated



White Zinc -plated -plated



Chrome -plated



Nickel -plated

Point





#2

RS









Ruspert Magni

Climaseal

Dacromet

- Best choice for fastening in window or door frames purpose
- Using in flat surface required
- Using in per-drilled hole for fitting

- Precise cutting edges to improve drill performance
- Countersunk head available for working purpose

Specifications			
Drive Socket	#2 Phillips	Product Type	Self-drilling screw
Diameter	#10	Diameter [mm]	4.72 mm
Drill Capacity Max [Inches]	0.150"	Drill Point	XiaoJun®-#2 drill point
Head Style	CSK	Material	Carbon steel
Thread Major Dia	0.186"	Thread Major Dia [mm]	4.72 mm
Thread Minor Dia	0.138"	Thread Minor Dia [mm]	3.51mm
Threads Per Inch	16	Washer	No washer

Size	Length (inch)	Length (mm)	Drill Point (m/m)	Drill Capacity (m/m)
	3/8"	10	#2	0.5 - 1.0
#6-20 M3.5	1/2"	13	#2	0.5 - 1.0
1110.0	5/8"	16	#2	0.5 - 1.0
	1/2"	13	#2	1.0 - 2.0
	5/8"	16	#2	1.0 - 2.0
#8-18	3/4"	19	#2	1.0 - 2.0
M4.2	1"	25	#2	1.0 - 2.0
	1-1/4"	32	#2	1.0 - 2.0
	1-1/2"	38	#2	1.0 - 2.0
	1/2"	13	#2	1.0 - 2.0
	5/8"	16	#2	1.0 - 2.0
	3/4"	19	#2	1.0 - 2.0
#10-16	1"	25	#3	1.0 - 3.0
M4.8	1-1/4"	32	#3	1.0 - 3.0
	1-1/2"	38	#3	1.0 - 3.0
	2"	50	#3	1.0 - 3.0

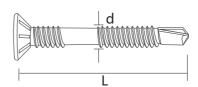
Countersunk Head With Ribs(Nibs)

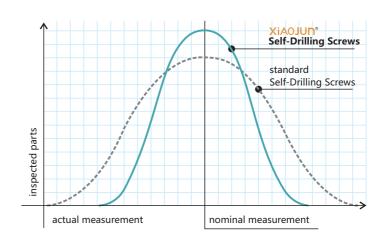


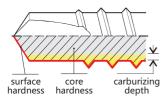




XiAOJUn® Suggested drill point #2 maximum drill capacity of 2mm and drill point #3 maximum drill capacity of 5mm







Material



Carbon Steel



Stainless Steel







Drill Pont

Drill Pont #3

Coating









Plated

White Zinc

-plated

-plated



Nickel -plated -plated

Ruspert

Magni

- Best choice for fastening in window or door frames purpose
- Using in flat surface required
- Using in per-drilled hole for fitting

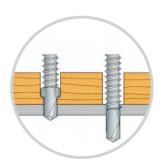
- Precise cutting edges to improve drill performance
- Countersunk head available for working purpose

Specifications			
Drive Socket	#2 Phillips	Product Type	Self-drilling screw
Diameter	#10	Diameter [mm]	4.72 mm
Drill Capacity Max [Inches]	0.150"	Drill Point	XiaoJun®-#2 drill point
Head Style	CSK	Material	Carbon steel
Thread Major Dia	0.186"	Thread Major Dia [mm]	4.72 mm
Thread Minor Dia	0.138"	Thread Minor Dia [mm]	3.51mm
Threads Per Inch	16	Washer	No washer

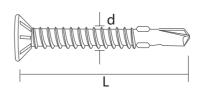
Size	Length (inch)	Length (mm)	Drill Point (m/m)	Drill Capacity (m/m)
	3/8"	10	#2	0.5 - 1.0
#6-20 M3.5	1/2"	13	#2	0.5 - 1.0
	5/8"	16	#2	0.5 - 1.0
	1/2"	13	#2	1.0 - 2.0
	5/8"	16	#2	1.0 - 2.0
#8-18	3/4"	19	#2	1.0 - 2.0
M4.2	1"	25	#2	1.0 - 2.0
	1-1/4"	32	#2	1.0 - 2.0
	1-1/2"	38	#2	1.0 - 2.0
	1/2"	13	#2	1.0 - 2.0
	5/8"	16	#2	1.0 - 2.0
	3/4"	19	#2	1.0 - 2.0
#10-16	1"	25	#3	1.0 - 3.0
M4.8	1-1/4"	32	#3	1.0 - 3.0
	1-1/2"	38	#3	1.0 - 3.0
	2"	50	#3	1.0 - 3.0

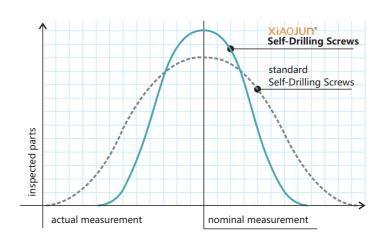
Countersunk Head With Ribs(Nibs) And Wings

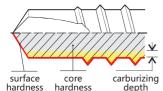




XiAOJUn® Suggested drill point #3 maximum drill capacity of 5mm and drill point #4 maximum drill capacity of 8mm







Material







Stainless Steel

Point





Drill Pont

Drill Pont





Ruspert









-plated

Plated

-plated



-plated

Nickel -plated

Magni

- Best choice for fastening in window or door frames purpose
- Using in flat surface required
- Using in per-drilled hole for fitting

- Precise cutting edges to improve drill performance
- Countersunk head available for working purpose

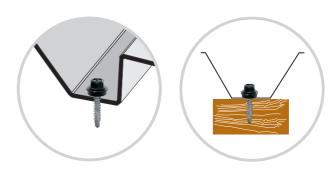
Specifications			
Drive Socket	#2 Phillips	Product Type	Self-drilling screw
Diameter	#10	Diameter [mm]	4.72 mm
Drill Capacity Max [Inches]	0.150"	Drill Point	XiaoJun®-#2 drill point
Head Style	CSK	Material	Carbon steel
Thread Major Dia	0.186"	Thread Major Dia [mm]	4.72 mm
Thread Minor Dia	0.138"	Thread Minor Dia [mm]	3.51mm
Threads Per Inch	16	Washer	No washer

Size	Length (inch)	Length (mm)	Drill Point (m/m)	Drill Capacity (m/m)
	3/8"	10	#2	0.5 - 1.0
#6-20 M3.5	1/2"	13	#2	0.5 - 1.0
	5/8"	16	#2	0.5 - 1.0
	1/2"	13	#2	1.0 - 2.0
	5/8"	16	#2	1.0 - 2.0
#8-18	3/4"	19	#2	1.0 - 2.0
M4.2	1"	25	#2	1.0 - 2.0
·	1-1/4"	32	#2	1.0 - 2.0
	1-1/2"	38	#2	1.0 - 2.0
	1/2"	13	#2	1.0 - 2.0
·	5/8"	16	#2	1.0 - 2.0
	3/4"	19	#2	1.0 - 2.0
#10-16	1"	25	#3	1.0 - 3.0
M4.8	1-1/4"	32	#3	1.0 - 3.0
·	1-1/2"	38	#3	1.0 - 3.0
•	2"	50	#3	1.0 - 3.0

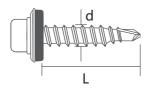
Medium duty

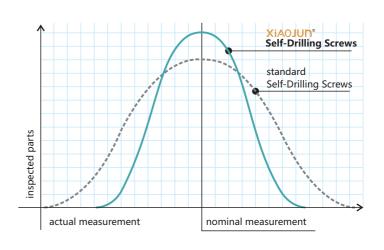
Hex Washer Head

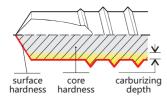




XiAOJUN° Suggested drill point #3 maximum drill capacity of 5mm







Material



Carbon Steel



Stainless Steel



Bi-Metal

Point



Drill Pont #3

Coating

Plated



White Zinc

-plated

YZP

-plated



Chrome

-plated

N

Nickel

-plated









Climaseal

naceal Dacrom

Features

Used for fasten sheet-metal to walls and roofs, the aluminium
washer with EPDM rubber covering ensures an effective seal and resistance
to aging. Moreover, farmer screws are electro galvanised with coating
thickness as available, and various colors as in RAL and RR for selection.

Conditions

- Durable painting
- Ideal for walls and roofs with overlap joints
- Aluminium/Steel washer
- 2.5/3 mm EPDM thickness

Specifications			
Drive Socket	3/8"	Loading Bearing Length [Inches]	0.380"
Loading Bearing Length [mm]	Hex9.7	Product Type	Self-drilling screw
Diameter	#14	Diameter [mm]	6.3 mm
Drill Capacity Max [Inches]	0.237"	Drill Capacity Range [mm]	6mm
Drill Point	Xiaojun®-#3 drill point	Head Style	Hex Washer head
Material	Grade 5 Carbon steel	Thread Major Dia	0.248"
Thread Major Dia [mm]	6.3 mm	Thread Minor Dia	0.2"
Thread Minor Dia [mm]	5.1mm	Threads Per Inch	14
Washer	EPDM Washer		

Size	Length (inch)	Length (mm)	Drill Point (m/m)	Drill Capacity (m/m)
	3/4"	19	#3	2.0 - 4.0
•	1"	25	#3	2.0 - 4.0
-	1-1/4"	32	#3	2.0 - 4.0
#12-14	1-1/2"	38	#3	2.0 - 4.0
M5.5	2"	50	#3	2.0 - 4.0
•	2-1/2"	63	#3	2.0 - 4.0
-	3"	75	#3	2.0 - 4.0
	3/4"	19	#3	2.0 - 4.0
-	1"	25	#3	2.0 - 4.0
•	1-1/4"	32	#3	2.0 - 4.0
-	1-1/2"	38	#3	2.0 - 4.0
#14-14	2"	50	#3	2.0 - 4.0
M6.3	2-1/2"	63	#3	2.0 - 4.0
-	3"	75	#3	2.0 - 4.0
-	4"	100	#3	2.0 - 4.0
-	5"	125	#3	2.0 - 4.0

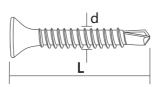
Bugle Head

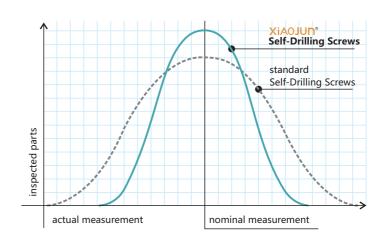


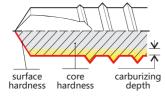




XiAOJUn® Suggested drill point #2 maximum drill capacity of 2mm and drill point #3 maximum drill capacity of 5mm







Material







Plated





-plated

Point





Drill Pont













White Zinc -plated

-plated

Nickel -plated

Magni

- For using in stitch wood to metal
- Using in flat surface required
- Using in pre-drilled hole for fitting

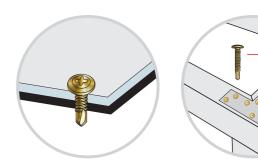
- Precise cutting edges to improve drill performance with less effort
- Bugle head available for working purpose

Specifications			
Drive Socket	#2 Phillips	Product Type	Self-drilling screw
Diameter	#10	Diameter [mm]	4.72 mm
Drill Capacity Max [Inches]	0.150"	Drill Point	XiaoJun®-#2 drill point
Head Style	Bugle	Material	Carbon steel
Thread Major Dia	0.186"	Thread Major Dia [mm]	4.72 mm
Thread Minor Dia	0.138"	Thread Minor Dia [mm]	3.51mm
Threads Per Inch	16	Washer	No washer

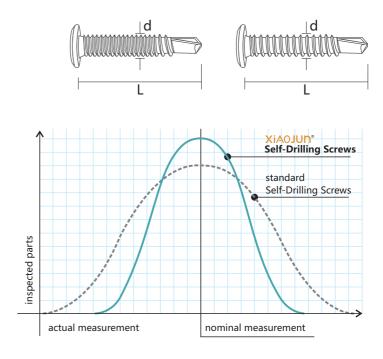
Size	Length (inch)	Length (mm)	Drill Point (m/m)	Drill Capacity (m/m)
	1"	25	#2	0.5 - 1.0
	1-1/8"	28	#2	0.5 - 1.0
#6-20	1-1/4"	32	#2	0.5 - 1.0
M3.5	1-5/8"	41	#2	0.5 - 1.0
	2"	50	#2	0.5 - 1.0
	1"	25	#2	1.0 - 2.0
	1-1/4"	32	#2	1.0 - 2.0
#8-18	2"	50	#2	1.0 - 2.0
M4.2	2-3/8"	60	#2	1.0 - 2.0
	2-5/8"	65	#2	1.0 - 2.0
	3"	75	#2	1.0 - 2.0

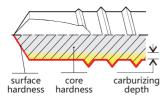
Wafer Head





XiAOJUn[®] Suggested drill point #3 maximum drill capacity of 5mm





Material



Carbon Steel





Plated



White Zinc

-plated

-plated



-plated

Chrome

Nickel

-plated

Point



Drill Pont

Coating









29

- Roof and skin sheet to steel
- Residential steel frame construction
- For light duty purpose

- Wafer head design on purpose using
- Non-walking point provides fast material engagement

Specifications			
Drive Socket	#2 Phillips	Product Type	Self-drilling screw
Diameter	#10	Diameter [mm]	4.72 mm
Drill Capacity Max [Inches]	0.150"	Drill Point	XiaoJun®-#2 drill point
Head Style	Wafer	Material	Carbon steel
Thread Major Dia	0.186"	Thread Major Dia [mm]	4.72 mm
Thread Minor Dia	0.138"	Thread Minor Dia [mm]	3.51mm
Threads Per Inch	16	Washer	No washer

Size	Length (inch)	Length (mm)	Drill Point (m/m)	Drill Capacity (m/m)
	5/8″	16	#2	1.0 - 2.0
#10-16	7/8"	22	#2	1.0 - 2.0
M4.8	1-1/4"	32	#3	1.0 - 3.0
	1-1/2"	38	#3	1.0 - 3.0
	5/8"	16	#2	1.0 - 2.0
#10-24	7/8"	22	#2	1.0 - 2.0
M4.8	1-1/4"	32	#3	1.0 - 3.0
	1-1/2"	38	#3	1.0 - 3.0

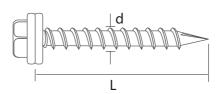
Unslotted

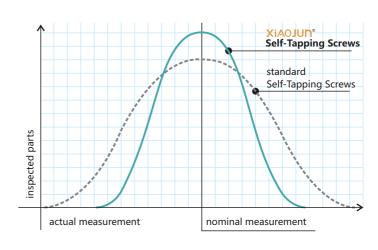
Hex Washer Head

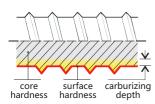




XiAOJUn® Suggested use for self starting in thin (.015-.050 thick) metal orresin-filled plywood.







Material



Carbon Steel



Stainless Steel

Point





Type-A

Type-AB

Plated



YZP













White Zinc -plated

Yellow Zind -plated

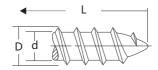
Chrome N -plated -

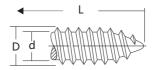
Nickel -plated

Ruspert Magni

Climacaa

Dacromet





THRE	ADS FO	R SELF	-TAPPI	NG SCR	EWS TY	PE A		ANSI	B18.6.4
			D Major Diameter		d Minor Diameter		L		Minimum
Nominal Size or Basic Screw Diameter		Threads Per Inch					These Lengths or Shorter Have AB Threads		Torsional Strength, Ibin. (STEEL SCREWS
			Max	Min	Max	Min	90o Heads	Csk Heads	ONLY)
6	0.1380	18	.141	.136	.102	.096	1/4	5/16	24
7	0.1510	16	.158	.152	.114	.108	5/16	3/8	30
8	0.1640	15	.168	.162	.123	.116	3/8	7/16	39
10	0.1900	12	.194	.188	.133	.126	3/8	1/2	48
12	0.2160	11	.221	.215	.162	.155	7/16	9/16	83
14	0.2420	10	.254	.248	.185	.178	1/2	5/8	125
20	0.3200	9	.333	.327	.234	.226	11/16	13/16	250
24	0.3720	9	.390	.383	.291	.282	3/4	1	492
Tole	erance	on Lei	ngth	Up to	1" Incl.:	±0.03	Over 1": ±0.05		

Description	A thread forming tapping screw with wider spaced threads than a Type-AB and a gimlet point
Applications/ Advantages	For self starting in thin (.015050 thick) metal or resin-filled plywood. 18-8 Stainless steel tapping screws may be used inapplications which require general atmospheric corrosion resistance. Fastening stainless steel parts to aluminum or steel can cause a type of corrosion known as a galvanic couple in some environments.
Material	Steel: AISI 1016 - 1024 or equivalent steel. Stainless: Austenitic 18-8 stainless steel
Heat Treatment (Steel only)	Screws shall be quenched in liquid and then tempered by reheating to 650°F minimum.
Surface Hardness	Steel: Rockwell C45 minimum
Case Depth (Steel only)	No. 6 diameter: .002007 No. 8 thru 12 diameter: .004009 1/4" and larger: .005011
Core Hardness (after tempering)	Steel: Rockwell C28 - 38
Plating	See Appendix-A for information on plating of steel screws.

THRE	THREADS FOR SELF-TAPPING SCREWS TYPE AB								E 5.4-1998
	Nominal Size or Basic Screw Diameter		I	D	c	1	L		Minimum
Siz Basic			Threads Major Diar		iameter Minor Diameter		Minimum Practical Screw Length		Torsional Strength, lbin. (STEEL SCREWS
			Max	Min	Max	Min	90o Heads	Csk Heads	ONLY)
2	.0860	32	.088	.082	.064	.060	3/16	7/32	4
3	.0990	28	.101	.095	.075	.071	3/16	1/4	9
4	.1120	24	.114	.108	.086	.082	7/32	9/32	13
5	.1250	20	.130	.123	.094	.090	1/4	5/16	18
6	.1380	20	.139	.132	.104	.099	9/32	11/32	24
7	.1510	19	.154	.147	.115	.109	5/16	3/8	30
8	.1640	18	.166	.159	.122	.116	5/16	3/8	39
10	.1900	16	.189	.182	.141	.135	3/8	7/16	56
12	.2160	14	.215	.208	.164	.157	7/16	21/32	88
1/4	.2500	14	.246	.237	.192	.185	1/2	19/32	142
5/16	.3125	12	.315	.306	.244	.236	5/8	3/4	290
3/8	.3750	12	.380	.371	.309	.299	3/4	29/32	590
Tole	erance (on Lei	ngth	Up to	1" Incl.:	±0.03	0	ver 1": ±	£0.05

Description	A thread forming tapping screw with spaced threads and a gimlet point					
Applications/ Advantages	For self starting in thin metal or resin-filled plywood. Recommended over a Type-A, particularly in brittle materials.					
Material	Steel: AISI 1016 - 1024 or equivalent steel. Stainless: 18-8 stainless steel.					
Heat Treatment (Steel only)	Screws shall be quenched in liquid and then tempered by reheating to 650°F minimum.					
Surface Hardness	Steel: Rockwell C45 minimum					
Case Depth (Steel only)	No. 4 thru 6 diameter: .002007 No. 8 thru 12 diameter: .004009 1/4" and larger: .005011					
Core Hardness (after tempering)	Steel: Rockwell C28 - 38					
Plating	See Appendix-A for plating information.					

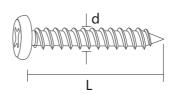
Pan Head

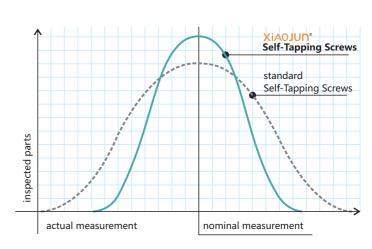






XiAOJUN® Suggested use for self starting in thin (.015-.050 thick) metal or resin-filled plywood.

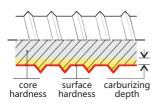




Point

Туре-А

Type-A



Material



Plated

White Zinc

-plated













-plated



-plated

RS



туре-АВ

Type-AB

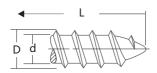


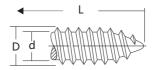




Ruspert Magni

Dacromet





THREADS FOR SELF-TAPPING SCREWS TYPE A ANSI B18.6.4									
Nominal Size or Basic Screw Diameter		Threads Per Inch	D		d		L		Minimum Torsional Strength, Ibin. (STEEL
			Major Diameter		Minor Diameter		These Lengths or Shorter Have AB Threads		
			Max	Min	Max	Min	90o Heads	Csk Heads	ONLY)
6	0.1380	18	.141	.136	.102	.096	1/4	5/16	24
7	0.1510	16	.158	.152	.114	.108	5/16	3/8	30
8	0.1640	15	.168	.162	.123	.116	3/8	7/16	39
10	0.1900	12	.194	.188	.133	.126	3/8	1/2	48
12	0.2160	11	.221	.215	.162	.155	7/16	9/16	83
14	0.2420	10	.254	.248	.185	.178	1/2	5/8	125
20	0.3200	9	.333	.327	.234	.226	11/16	13/16	250
24	0.3720	9	.390	.383	.291	.282	3/4	1	492
Tole	Tolerance on Length			Up to 1" Incl.: ±0.03			Over 1": ±0.05		

Description	A thread forming tapping screw with wider spaced threads than a Type-AB and a gimlet point					
Applications/ Advantages	For self starting in thin (.015050 thick) metal or resin-filled plywood. 18-8 Stainless steel tapping screws may be used inapplications which require general atmospheric corrosion resistance. Fastening stainless steel parts to aluminum or steel can cause a type of corrosion known as a galvanic couple in some environments.					
Material	Steel: AISI 1016 - 1024 or equivalent steel. Stainless: Austenitic 18-8 stainless steel					
Heat Treatment (Steel only)	Screws shall be quenched in liquid and then tempered by reheating to 650°F minimum.					
Surface Hardness	Steel: Rockwell C45 minimum					
Case Depth (Steel only)	No. 6 diameter: .002007 No. 8 thru 12 diameter: .004009 1/4" and larger: .005011					
Core Hardness (after tempering)	Steel: Rockwell C28 - 38					
Plating	See Appendix-A for information on plating of steel screws.					

THRE	ADS FO	R SELF	-TAPPI	NG SCR	EWS TY	PE AB	ASME B18.6.4-1998			
Nominal Size or Basic Screw Diameter		Threads Per Inch	D		d		L		Minimum Torsional Strength, Ibin. (STEEL	
			Major Diameter		Minor Diameter		Minimum Practical Screw Length			
	Diameter		Max	Min	Max	Min	90o Heads	Csk Heads	SCREWS ONLY)	
2	.0860	32	.088	.082	.064	.060	3/16	7/32	4	
3	.0990	28	.101	.095	.075	.071	3/16	1/4	9	
4	.1120	24	.114	.108	.086	.082	7/32	9/32	13	
5	.1250	20	.130	.123	.094	.090	1/4	5/16	18	
6	.1380	20	.139	.132	.104	.099	9/32	11/32	24	
7	.1510	19	.154	.147	.115	.109	5/16	3/8	30	
8	.1640	18	.166	.159	.122	.116	5/16	3/8	39	
10	.1900	16	.189	.182	.141	.135	3/8	7/16	56	
12	.2160	14	.215	.208	.164	.157	7/16	21/32	88	
1/4	.2500	14	.246	.237	.192	.185	1/2	19/32	142	
5/16	.3125	12	.315	.306	.244	.236	5/8	3/4	290	
3/8	.3750	12	.380	.371	.309	.299	3/4	29/32	590	
Tole	Tolerance on Length			Up to 1" Incl.: ±0.03			Over 1": ±0.05			

Description	A thread forming tapping screw with spaced threads and a gimlet point					
Applications/ Advantages	For self starting in thin metal or resin-filled plywood. Recommended over a Type-A, particularly in brittle materials.					
Material	Steel: AISI 1016 - 1024 or equivalent steel. Stainless: 18-8 stainless steel.					
Heat Treatment (Steel only)	Screws shall be quenched in liquid and then tempered by reheating to 650°F minimum.					
Surface Hardness	Steel: Rockwell C45 minimum					
Case Depth (Steel only)	No. 4 thru 6 diameter: .002007 No. 8 thru 12 diameter: .004009 1/4" and larger: .005011					
Core Hardness (after tempering)	Steel: Rockwell C28 - 38					
Plating	See Appendix-A for plating information.					

Phillips

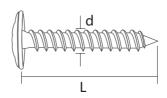
Truss Head

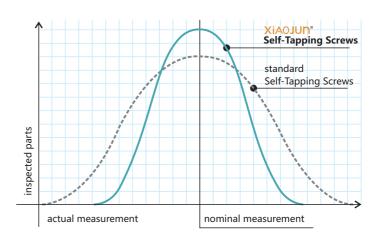


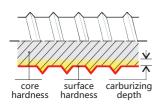




XiAOJUN® Suggested use for self starting in thin (.015-.050 thick) metal or resin-filled plywood.







Material



Carbon Steel





Plated



-plated

-plated



Chrome -plated



Nickel -plated

Point







Type-AB

Coating

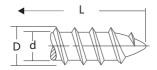


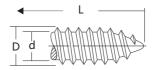






35





THRE	THREADS FOR SELF-TAPPING SCREWS TYPE A ANSI B18.6.4								
					d Minor Diameter		L These Lengths or Shorter Have AB Threads		Minimum Torsional Strength, Ibin. (STEEL SCREWS
Nominal Size or Basic Screw Diameter		Threads Per Inch							
			Max	Min	Max	Min	90o Heads	Csk Heads	ONLY)
6	0.1380	18	.141	.136	.102	.096	1/4	5/16	24
7	0.1510	16	.158	.152	.114	.108	5/16	3/8	30
8	0.1640	15	.168	.162	.123	.116	3/8	7/16	39
10	0.1900	12	.194	.188	.133	.126	3/8	1/2	48
12	0.2160	11	.221	.215	.162	.155	7/16	9/16	83
14	0.2420	10	.254	.248	.185	.178	1/2	5/8	125
20	0.3200	9	.333	.327	.234	.226	11/16	13/16	250
24	0.3720	9	.390	.383	.291	.282	3/4	1	492
Tole	Tolerance on Length			Up to	1" Incl.:	±0.03	0	ver 1": :	±0.05

Description	A thread forming tapping screw with wider spaced threads than a Type-AB and a gimlet point			
Applications/ Advantages	For self starting in thin (.015050 thick) metal or resin-filled plywood. 18-8 Stainless steel tapping screws may be used inapplications which require general atmospheric corrosion resistance. Fastening stainless steel parts to aluminum or steel can cause a type of corrosion known as a galvanic couple in some environments.			
Material	Steel: AISI 1016 - 1024 or equivalent steel. Stainless: Austenitic 18-8 stainless steel			
Heat Treatment (Steel only)	Screws shall be quenched in liquid and then tempered by reheating to 650°F minimum.			
Surface Hardness	Steel: Rockwell C45 minimum			
Case Depth (Steel only)	No. 6 diameter: .002007 No. 8 thru 12 diameter: .004009 1/4" and larger: .005011			
Core Hardness (after tempering)	Steel: Rockwell C28 - 38			
Plating	See Appendix-A for information on plating of steel screws.			

THRE	THREADS FOR SELF-TAPPING SCREWS TYPE AB						ASME B18.6.4-1998		
	Nominal Size or Basic Screw Diameter		D		d		L		Minimum
Siz Basic			Major [Diameter	Minor Diameter		Minimum Practical Screw Length		Torsional Strength, Ibin. (STEEL
			Max	Min	Max	Min	90o Heads	Csk Heads	SCREWS ONLY)
2	.0860	32	.088	.082	.064	.060	3/16	7/32	4
3	.0990	28	.101	.095	.075	.071	3/16	1/4	9
4	.1120	24	.114	.108	.086	.082	7/32	9/32	13
5	.1250	20	.130	.123	.094	.090	1/4	5/16	18
6	.1380	20	.139	.132	.104	.099	9/32	11/32	24
7	.1510	19	.154	.147	.115	.109	5/16	3/8	30
8	.1640	18	.166	.159	.122	.116	5/16	3/8	39
10	.1900	16	.189	.182	.141	.135	3/8	7/16	56
12	.2160	14	.215	.208	.164	.157	7/16	21/32	88
1/4	.2500	14	.246	.237	.192	.185	1/2	19/32	142
5/16	.3125	12	.315	.306	.244	.236	5/8	3/4	290
3/8	.3750	12	.380	.371	.309	.299	3/4	29/32	590
Tole	erance (on Lei	ngth	Up to	1" Incl.:	±0.03	0	ver 1": ±	±0.05

Description A thread forming tapping screw with spaced threads and a gimlet point				
Applications/ Advantages	For self starting in thin metal or resin-filled plywood. Recommended over a Type-A, particularly in brittle materials.			
Material	Steel: AISI 1016 - 1024 or equivalent steel. Stainless: 18-8 stainless steel.			
Heat Treatment (Steel only)	Screws shall be quenched in liquid and then tempered by reheating to 650°F minimum.			
Surface Hardness	Steel: Rockwell C45 minimum			
Case Depth (Steel only) No. 4 thru 6 diameter: .002007 No. 8 thru 12 diameter: .004009 1/4" and larger: .005011				
Core Hardness (after tempering) Steel: Rockwell C28 - 38				
Plating	See Appendix-A for plating information.			

Phillips

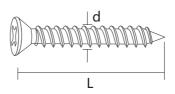
Countersunk Head

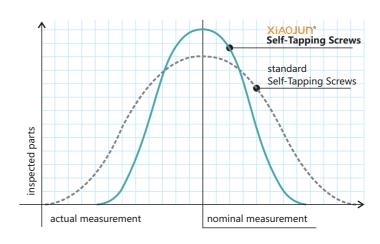


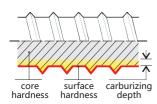




XiAOJUN[®] Suggested use for self starting in thin (.015-.050 thick) metal or resin-filled plywood.







Material



Carbon Steel



Stainless Steel







Type-A

Type-AB

Plated



YZP





RS







White Zinc -plated

Yellow Zind -plated

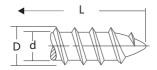
Chrome -plated

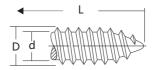
Nickel -plated

Ruspert

Magni

naseal Dacromet





THRE	THREADS FOR SELF-TAPPING SCREWS TYPE A ANSI B18.6.4								
						ŀ	L These Lengths or Shorter Have AB Threads		Minimum Torsional Strength, Ibin. (STEEL SCREWS
Nominal Size or Basic Screw Diameter		Threads Per Inch	Major I	Diameter	Minor Diameter				
			Max	Min	Max	Min	90o Heads	Csk Heads	ONLY)
6	0.1380	18	.141	.136	.102	.096	1/4	5/16	24
7	0.1510	16	.158	.152	.114	.108	5/16	3/8	30
8	0.1640	15	.168	.162	.123	.116	3/8	7/16	39
10	0.1900	12	.194	.188	.133	.126	3/8	1/2	48
12	0.2160	11	.221	.215	.162	.155	7/16	9/16	83
14	0.2420	10	.254	.248	.185	.178	1/2	5/8	125
20	0.3200	9	.333	.327	.234	.226	11/16	13/16	250
24	0.3720	9	.390	.383	.291	.282	3/4	1	492
Tole	erance (on Lei	ngth	Up to	1" Incl.:	±0.03	0	ver 1": :	±0.05

Description	A thread forming tapping screw with wider spaced threads than a Type-AB and a gimlet point			
Applications/ Advantages	For self starting in thin (.015050 thick) metal or resin-filled plywood. 18-8 Stainless steel tapping screws may be used inapplications which require general atmospheric corrosion resistance. Fastening stainless steel parts to aluminum or steel can cause a type of corrosion known as a galvanic couple in some environments.			
Material	Steel: AISI 1016 - 1024 or equivalent steel. Stainless: Austenitic 18-8 stainless steel			
Heat Treatment (Steel only)	Screws shall be quenched in liquid and then tempered by reheating to 650°F minimum.			
Surface Hardness	Steel: Rockwell C45 minimum			
Case Depth (Steel only)	No. 6 diameter: .002007 No. 8 thru 12 diameter: .004009 1/4* and larger: .005011			
Core Hardness (after tempering)	Steel: Rockwell C28 - 38			
Plating	See Appendix-A for information on plating of steel screws.			

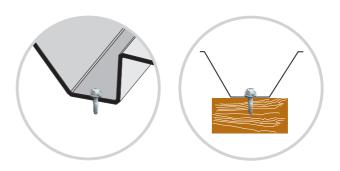
THRE	THREADS FOR SELF-TAPPING SCREWS TYPE AB							ASME B18.6.4-1998		
	Nominal Size or Basic Screw Diameter		I	D	d		L		Minimum	
Siz Basic			Major [Diameter Minor Diameter		Minimum Practical Screw Length		Torsional Strength, Ibin. (STEEL		
			Max	Min	Max	Min	90o Heads	Csk Heads	SCREWS ONLY)	
2	.0860	32	.088	.082	.064	.060	3/16	7/32	4	
3	.0990	28	.101	.095	.075	.071	3/16	1/4	9	
4	.1120	24	.114	.108	.086	.082	7/32	9/32	13	
5	.1250	20	.130	.123	.094	.090	1/4	5/16	18	
6	.1380	20	.139	.132	.104	.099	9/32	11/32	24	
7	.1510	19	.154	.147	.115	.109	5/16	3/8	30	
8	.1640	18	.166	.159	.122	.116	5/16	3/8	39	
10	.1900	16	.189	.182	.141	.135	3/8	7/16	56	
12	.2160	14	.215	.208	.164	.157	7/16	21/32	88	
1/4	.2500	14	.246	.237	.192	.185	1/2	19/32	142	
5/16	.3125	12	.315	.306	.244	.236	5/8	3/4	290	
3/8	.3750	12	.380	.371	.309	.299	3/4	29/32	590	
Tole	erance (on Lei	ngth	Up to	1" Incl.:	±0.03	0	ver 1": ±	±0.05	

Description	A thread forming tapping screw with spaced threads and a gimlet point			
Applications/ Advantages For self starting in thin metal or resin-filled plywood Recommended over a Type-A, particularly in brittle materials.				
Material	Steel: AISI 1016 - 1024 or equivalent steel. Stainless: 18-8 stainless steel.			
Heat Treatment (Steel only)	Screws shall be quenched in liquid and then tempered by reheating to 650°F minimum.			
Surface Hardness	Steel: Rockwell C45 minimum			
Case Depth (Steel only)	No. 4 thru 6 diameter: .002007 No. 8 thru 12 diameter: .004009 1/4" and larger: .005011			
Core Hardness (after tempering) Steel: Rockwell C28 - 38				
Plating	See Appendix-A for plating information.			

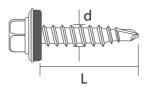
Bi-Metal

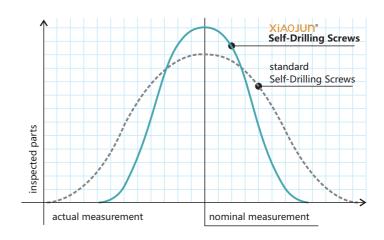
Hex Washer Head

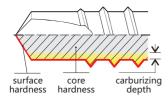




XiAOJUn° Suggested drill point #3 maximum drill capacity of 5mm and drill point #5 maximum drill capacity of 12mm







Material



Bi-Metal

Plated



-plated



-plated

Point





Drill Pont

Drill Pont

Coating









Ruspert Magni

Climaseal

Dacromet

- For medium duty purpose
- Roof deck to steel framing
- Accessories to steel framing

- Precise cutting edges to improve drill performance with less effort
- Point to thread design maximize pullout performance and minimizes backout

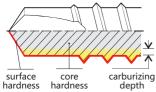
Specifications			
Drive Socket	3/8"	Loading Bearing Length [Inches]	0.380"
Loading Bearing Length [mm]	Hex9.7	Product Type	Self-drilling screw
Diameter	#14	Diameter [mm]	6.3 mm
Drill Capacity Max [Inches]	0.237"	Drill Capacity Range [mm]	6mm
Drill Point	Xiaojun®-#3 drill point	Head Style	Hex Washer head
Material	Grade 5 Carbon steel	Thread Major Dia	0.248"
Thread Major Dia [mm]	6.3 mm	Thread Minor Dia	0.2"
Thread Minor Dia [mm]	5.1mm	Threads Per Inch	14
Washer	EPDM Washer		

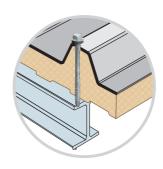
Size	Length (inch)	Length (mm)	Drill Point (m/m)	Drill Capacity (m/m)
	3/4"	19	#3	2.0 - 4.0
•	1"	25	#3	2.0 - 4.0
-	1-1/4"	32	#3	2.0 - 4.0
#12-14	1-1/2"	38	#3	2.0 - 4.0
M5.5	2"	50	#3	2.0 - 4.0
-	2-1/2"	63	#3	2.0 - 4.0
	3"	75	#3	2.0 - 4.0
	3/4"	19	#3	2.0 - 4.0
	1"	25	#3	2.0 - 4.0
-	1-1/4"	32	#3	2.0 - 4.0
	1-1/2"	38	#3	2.0 - 4.0
#14-14	2"	50	#3	2.0 - 4.0
M6.3	2-1/2"	63	#3	2.0 - 4.0
•	3"	75	#3	2.0 - 4.0
-	4"	100	#3	2.0 - 4.0
•	5"	125	#3	2.0 - 4.0

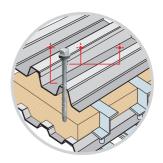
Knurled Double Thread

Hex Washer Head

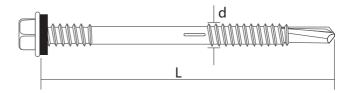


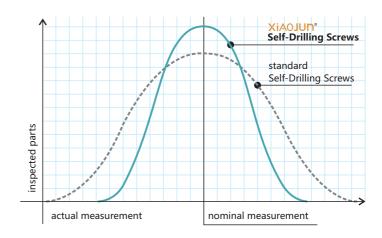






XiAOJUn° Suggested drill point #3 maximum drill capacity of 5mm and drill point #5 maximum drill capacity of 12mm





Material



SS Carbon Stainless Steel Steel



Bi-Metal







Coating



Drill Pont #5



White Zinc

-plated



-plated



-plated



-plated









41

- Roof and wall panel over rigid insulation to steel framing
- Roof panel over spacer block and insulation to eaves purlin

- Double thread for the purpose using exterior roofing environment
- High thread under the head prevents panel stripout
- Point to thread design maximizes pullout performance and minimizes backout

Specifications			
Drive Socket	3/8"	Loading Bearing Length [Inches]	0.380"
Loading Bearing Length [mm]	Hex9.7	Product Type	Self-drilling screw
Diameter	#14	Diameter [mm]	6.3 mm
Drill Capacity Max [Inches]	0.237"	Drill Capacity Range [mm]	6mm
Drill Point	Xiaojun®-#3 drill point	Head Style	Hex Washer head
Material	Grade 5 Carbon steel	Thread Major Dia	0.248"
Thread Major Dia [mm]	6.3 mm	Thread Minor Dia	0.2"
Thread Minor Dia [mm]	5.1mm	Threads Per Inch	14
Washer	EPDM rubber		

Size	Length (inch)	Length (mm)	Drill Point (m/m)	Drill Capacity (m/m)
	2-3/8"	60	#5	12.0
	3-5/32"	80	#5	12.0
	4"	100	#5	12.0
	5″	125	#5	12.0
	6"	150	#5	12.0
	2-3/8"	60	#5	12.0
#14-14 / #12-24 M6.3 / M5.5	3-5/32"	80	#5	12.0
1010.5 / 1015.5	4"	100	#5	12.0
	5"	125	#5	12.0
	6"	150	#5	12.0
	7"	175	#5	12.0
-	8"	200	#5	12.0
	10"	250	#5	12.0
	11"	275	#5	12.0

Phillips

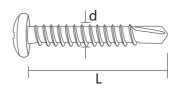
Pan Head

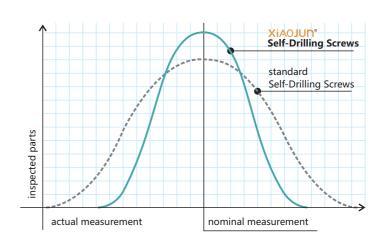


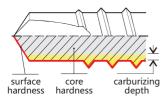




XiAOJUn° Suggested drill point #2 maximum drill capacity of 2mm and drill point #3 maximum drill capacity of 5mm







Material





Steel





Steel



White Zinc

-plated

Yellow Zinc -plated



-plated

-plated

Nickel

Point







Coating



Ruspert







43

- Skin sheet to steel
- Residential steel frame construction
- For light duty purpose
- \bullet Suitable for stitching 1 thick & 1 thin steel plate

- Pan head design on purost using
- Non-walking point provides fast material engagement

Specifications			
Drive Socket	#2 Phillips	Product Type	Self-drilling screw
Diameter	#10	Diameter [mm]	4.72 mm
Drill Capacity Max [Inches]	0.150"	Drill Point	XiaoJun®-#2 drill point
Head Style	Pan	Material	Stainless steel
Thread Major Dia	0.186"	Thread Major Dia [mm]	4.72 mm
Thread Minor Dia	0.138"	Thread Minor Dia [mm]	3.51mm
Threads Per Inch	16	Washer	No washer

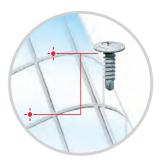
Size	Length (inch)	Length (mm)	Drill Point (m/m)	Drill Capacity (m/m)
	3/8"	10	#2	0.5 - 1.0
#6-20 M3.5	1/2"	13	#2	0.5 - 1.0
IVI 5.5	5/8″	16	#2	0.5 - 1.0
	1/2"	13	#2	1.0 - 2.0
	5/8″	16	#2	1.0 - 2.0
#8-18	3/4"	19	#2	1.0 - 2.0
M4.2 — — —	1"	25	#2	1.0 - 2.0
	1-1/4"	32	#2	1.0 - 2.0
	1-1/2"	38	#2	1.0 - 2.0
	1/2"	13	#2	1.0 - 2.0
	5/8″	16	#2	1.0 - 2.0
	3/4"	19	#2	1.0 - 2.0
#10-16 — M4.8	1"	25	#3	1.0 - 3.0
	1-1/4"	32	#3	1.0 - 3.0
•	1-1/2"	38	#3	1.0 - 3.0
	2"	50	#3	1.0 - 3.0

Phillips

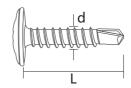
Truss Head

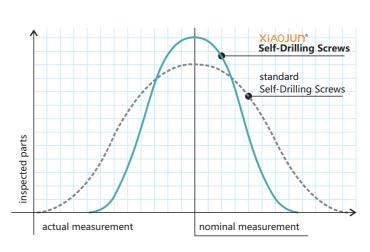






XiAOJUn® Suggested drill point #3 maximum drill capacity of 5mm



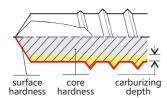


Point

dp3

Drill Pont

Ruspert



Material



Carbon Steel





Stainless Steel

Plated



-plated













White Zinc

-plated

Chrome -plated

Nickel -plated

Magni

Climaseal

- Residential steel frame construction
- For using in object like polycabonate sheet, shadow cover

- Truss head design on purpose using
- Non-walking point provides fast material engagement

Specifications			
Drive Socket	#2 Phillips	Product Type	Self-drilling screw
Diameter	#10	Diameter [mm]	4.72 mm
Drill Capacity Max [Inches]	0.150"	Drill Point	XiaoJun®-#2 drill point
Head Style	Truss	Material	Stainless steel
Thread Major Dia	0.186"	Thread Major Dia [mm]	4.72 mm
Thread Minor Dia	0.138"	Thread Minor Dia [mm]	3.51mm
Threads Per Inch	16	Washer	No washer

Size	Length (inch)	Length (mm)	Drill Point (m/m)	Drill Capacity (m/m)
	1/2"	13	#2	1.0 - 2.0
	5/8"	16	#2	1.0 - 2.0
#8-18	3/4"	19	#2	1.0 - 2.0
M4.2	1"	25	#2	1.0 - 2.0
	1-1/4"	32	#2	1.0 - 2.0
	1-5/8"	41	#2	1.0 - 2.0

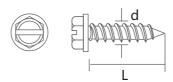
Slotted

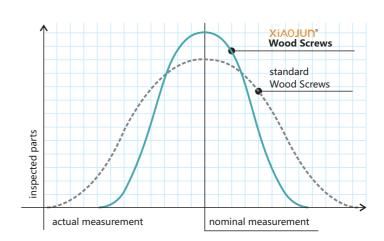
Hex Washer Head

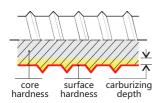




XiAOJUn° Suggested use for self starting in thin (.015-.050 thick) metal or resin-filled plywood.







Material



Carbon Steel



Stainless Steel

Point





Type-A

Type-AB

Plated



White Zinc

-plated

-plated



-plated



-plated

Coating RS

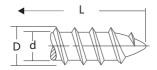
Ruspert

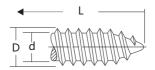






47





THRE	THREADS FOR SELF-TAPPING SCREWS TYPE A ANSI B18.6.4								
			ı	D	d L		L	Minimum	
Siz Basic	minal e or Screw neter	Threads Major Diameter Mir		Minor D	Minor Diameter		These Lengths or Shorter Have AB Threads		
			Max	Min	Max	Min	90o Heads	Csk Heads	SCREWS ONLY)
6	0.1380	18	.141	.136	.102	.096	1/4	5/16	24
7	0.1510	16	.158	.152	.114	.108	5/16	3/8	30
8	0.1640	15	.168	.162	.123	.116	3/8	7/16	39
10	0.1900	12	.194	.188	.133	.126	3/8	1/2	48
12	0.2160	11	.221	.215	.162	.155	7/16	9/16	83
14	0.2420	10	.254	.248	.185	.178	1/2	5/8	125
20	0.3200	9	.333	.327	.234	.226	11/16	13/16	250
24	0.3720	9	.390	.383	.291	.282	3/4	1	492
Tole	erance (on Lei	ngth	Up to	1" Incl.:	±0.03	0	ver 1": :	±0.05

Description	A thread forming tapping screw with wider spaced threads than a Type-AB and a gimlet point
Applications/ Advantages	For self starting in thin (.015050 thick) metal or resin-filled plywood. 18-8 Stainless steel tapping screws may be used inapplications which require general atmospheric corrosion resistance. Fastening stainless steel parts to aluminum or steel can cause a type of corrosion known as a galvanic couple in some environments.
Material	Steel: AISI 1016 - 1024 or equivalent steel. Stainless: Austenitic 18-8 stainless steel
Heat Treatment (Steel only)	Screws shall be quenched in liquid and then tempered by reheating to 650°F minimum.
Surface Hardness	Steel: Rockwell C45 minimum
Case Depth (Steel only)	No. 6 diameter: .002007 No. 8 thru 12 diameter: .004009 1/4" and larger: .005011
Core Hardness (after tempering)	Steel: Rockwell C28 - 38
Plating	See Appendix-A for information on plating of steel screws.

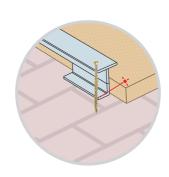
THRE	THREADS FOR SELF-TAPPING SCREWS TYPE AB							ASMI B18.6	E 5.4-1998
			ı	D	d L		L	Minimum	
Siz	Nominal Size or Basic Screw		Major [Diameter	Minor D	iameter	Prac	mum tical Length	Torsional Strength, Ibin. (STEEL SCREWS
			Max	Min	Max	Min	90o Heads	Csk Heads	ONLY)
2	.0860	32	.088	.082	.064	.060	3/16	7/32	4
3	.0990	28	.101	.095	.075	.071	3/16	1/4	9
4	.1120	24	.114	.108	.086	.082	7/32	9/32	13
5	.1250	20	.130	.123	.094	.090	1/4	5/16	18
6	.1380	20	.139	.132	.104	.099	9/32	11/32	24
7	.1510	19	.154	.147	.115	.109	5/16	3/8	30
8	.1640	18	.166	.159	.122	.116	5/16	3/8	39
10	.1900	16	.189	.182	.141	.135	3/8	7/16	56
12	.2160	14	.215	.208	.164	.157	7/16	21/32	88
1/4	.2500	14	.246	.237	.192	.185	1/2	19/32	142
5/16	.3125	12	.315	.306	.244	.236	5/8	3/4	290
3/8	.3750	12	.380	.371	.309	.299	3/4	29/32	590
Tole	erance (on Lei	ngth	Up to	1" Incl.:	±0.03	0	ver 1": ±	±0.05

Description	A thread forming tapping screw with spaced threads and a gimlet point
Applications/ Advantages	For self starting in thin metal or resin-filled plywood. Recommended over a Type-A, particularly in brittle materials.
Material	Steel: AISI 1016 - 1024 or equivalent steel. Stainless: 18-8 stainless steel.
Heat Treatment (Steel only)	Screws shall be quenched in liquid and then tempered by reheating to 650°F minimum.
Surface Hardness	Steel: Rockwell C45 minimum
Case Depth (Steel only)	No. 4 thru 6 diameter: .002007 No. 8 thru 12 diameter: .004009 1/4" and larger: .005011
Core Hardness (after tempering)	Steel: Rockwell C28 - 38
Plating	See Appendix-A for plating information.

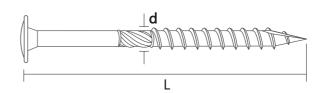
Torx

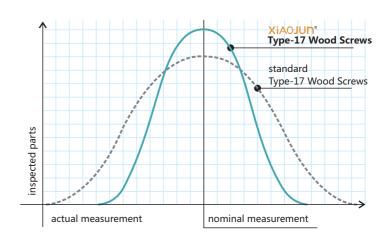
Washer Head Knurled





XiAOJUn[®] Suggested use Type-17 suitable any timber to timber applications





Material



Carbon Stainless Steel

Point



Type-17



















surface hardness carburizing depth

White Zinc -plated

-plated

-plated

Nickel -plated

Ruspert

Coating

Dacromet

core

• Type 17 timber screws are suitable for fixing metal roofing into timber battens (both hardwood and softwood)

- Fast and Easy application into both Hardwood and Softwood battens
- Inder-roof Corrosion Protection with Shankouard feature which orevents the scraiching and scouring of the fastener shank thatcan happen during installation.

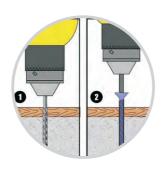
Specifications			
Drive Socket	Torx	Product Type	Wood screw
Diameter	#10	Diameter [mm]	4.72 mm
Drill Capacity Max [Inches]	0.150"	Drill Point	Xiaojun®-Type 17
Head Style	Wafer	Material	Carbon steel
Thread Major Dia	0.186"	Thread Major Dia [mm]	4.72 mm
Thread Minor Dia	0.138"	Thread Minor Dia [mm]	3.51mm
Threads Per Inch	16	Washer	No washer

PRODUCT	GAUGE	THREAD	LENGTH	HEAD TYPE	SEAL
Type 17	12	11	50mm	Washer Head	With seal
Type 17	12	11	50mm	Washer Head	With Seal
Type 17	12	11	65mm	Washer Head	With seal
Type 17	14	10	50mm	Washer Head	With seal
Type 17	14	10	50mm	Washer Head	With Seal
Type 17	14	10	50mm	Washer Head	With seal
Type 17	14	10	65mm	Washer Head	With seal
Type 17	14	10	65mm	Washer Head	With Seal
Type 17	14	10	75mm	Washer Head	With seal
Type 17	14	10	90mm	Washer Head	With seal

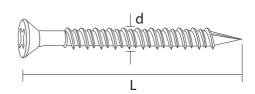
Phillips

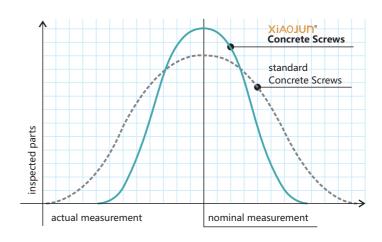
Countersunk Head Hi-Low

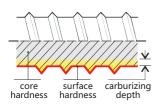




XiAOJUN° Suggested application maximum thickness of material is 0.6 mm







Material



Carbon Steel

Plated



White Zinc

-plated

Yellow Zind -plated



Chrome -plated



Nickel -plated

Thread



Hi-Low Thread

Coating



Ruspert







Climaseal

Dacromet

- Concrete material fixtures
- Flexible flashing
- Suitable for soft brick & masonry work

- Can be using in exterior environment
- Interal washer design provides more bearing surface
- Hi-lo thread provides smooth power for drilling
- Pre-drilled hole are requested

Specifications			
Drive Socket	#2 Phillips	Product Type	Concret screw
Diameter	#10	Diameter [mm]	4.72 mm
Drill Capacity Max [Inches]	0.150"	Drill Point	Xiaojun®-#2 drill point
Head Style	CSK	Material	Carbon steel
Thread Major Dia	0.186"	Thread Major Dia [mm]	4.72 mm
Thread Minor Dia	0.138"	Thread Minor Dia [mm]	3.51mm
Threads Per Inch	16	Washer	No washer

Size	Length (inch)	Dia. x Length (m/m)	Drill Point (m/m)
	2-3/8"	60	Diamond
	3"	75	Diamond
	3-5/32"	80	Diamond
	3-1/2"	90	Diamond
#14	4"	100	Diamond
M6.3	5"	125	Diamond
	5-1/2"	140	Diamond
	6-5/16"	160	Diamond
	7-1/8"	180	Diamond
	7-7/8"	200	Diamond

Unslotted

Hex Flange Head



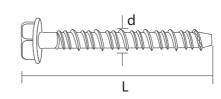


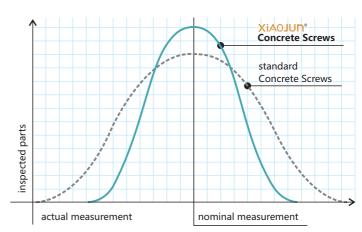
XiAOJUn° Suggested Installing with concrete screws are one of the easiest andquickest ways to install on concrete and can be achieved in 3 easy steps:

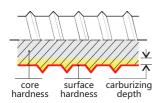
Step 1: Drill hole.

Step 2: Clean out hole.

Step 3: Drive in the screw!







Material



Carbon Steel

Plated

















White Zinc -plated

-plated

-plated

Nickel -plated

- Concrete material fixtures
- Flexible flashing
- Suitable for soft brick & masonry work

- Can be using in exterior environment
- Interal washer design provides more bearing surface
- Hi-lo thread provides smooth power for drilling
- Pre-drilled hole are requested

Specifications			
Drive Socket	3/8"	Loading Bearing Length [Inches]	0.380"
Loading Bearing Length [mm]	Hex9.7	Product Type	Concrete Strew
Diameter	#14	Diameter [mm]	6.3 mm
Drill Capacity Max [Inches]	0.237"	Drill Capacity Range [mm]	6mm
Drill Point	Xiaojun®-#3 drill point	Head Style	Hex Flange head
Material	Grade 5 Carbon steel	Thread Major Dia	0.248"
Thread Major Dia [mm]	6.3 mm	Thread Minor Dia	0.2"
Thread Minor Dia [mm]	5.1mm	Threads Per Inch	14
Washer	No washer		

Size	Length (inch)	Dia. x Length (m/m)	Drill Point (m/m)
	2-3/8"	60	Diamond
	3"	75	Diamond
	3-5/32"	80	Diamond
	3-1/2"	90	Diamond
#14	4"	100	Diamond
M6.3	5"	125	Diamond
	5-1/2"	140	Diamond
	6-5/16"	160	Diamond
	7-1/8"	180	Diamond
	7-7/8"	200	Diamond

More Products of Stainless Steel Screws

XiAOJUn®

Feel the Power of the Screws

Introduction:

Choose from XiAOJUn° selection of stainless steel screws in a wide range of styles and sizes.

We offer 304, 304L, 316, 316L, 410, 420, 435, 201grade stainless steel in stock and ready to ship.

Application:

XiAOJUN° Stainless steel screws can be used in a wide variety of applications. From various building projects to construction, renovation, home improvement and DIY applications. They are particularly useful for building, decking and outdoor projects.





Environment Characteristics

To determine the type of environment, an inspection of building in the area is usually necessary

Very Severe Marine (ISO Category 5)



ncludes off-shore are and up to 100m from the high waterline of area with breaking surf.

Warranty Periods	not recommended	no warranty	available
Zinc or yellow zinc			
Painted head			
410 Stainless steel		A	
Anti-corrosion R3			•
Anti-corrosion R4			•
304 Stainless steel			•

Moderate Marine (ISO Category 3)

Generally between 300m and 1000m from marine surf, although strong prevailing wind may extend this distance. Characterized by occasionally noticeable slight salt. Airborne salt present but not visible as haze.

Warranty Periods	not recommended	no warranty	available
Zinc or yellow zinc			
Painted head		A	
410 Stainless steel		A	
Anti-corrosion R3			•
Anti-corrosion R4			•
304 Stainless steel			•
		·	

Note: Warranty period is based on 20-years duration of contructions.

Severe Marine (ISO Category 4)

Generally between 100m from
the beach front to approximately
300m inland. In high wind area may
extend further inland depending on prevailing winds and
geography of the area. Characterized by Strong salt
structures generally a very noticeable deterioration
of most building material is evident.

Warranty Periods	not recommended	no warranty	available
Zinc or yellow zinc			
Painted head			
410 Stainless steel		A	
Anti-corrosion R3			•
Anti-corrosion R4			•
304 Stainless steel			•

Very Severe Industrial (ISO Category 5)

Characterized by heavy fall-out and emission from sacks and strong sulphur and smells. Generally very high rates of corrosion in most building structures in evident.

Warranty Periods	not recommended	no warranty	available
Zinc or yellow zinc			
Painted head		A	
410 Stainless steel		A	
Anti-corrosion R3			•
Anti-corrosion R4			•
304 Stainless steel			•
☑ not recommended	no warranty	available	!

Severe Industrial (ISO Category 4)

Characterized by fall-out and emission from stack sulphur and acid smell. Include only plant buildings themselves and any building immediately under stacks. Also includes buildings with high internal humidity and/or corrosion from operation within.

Warranty Periods	not recommended	no warranty	available
Zinc or yellow zinc			
Painted head		A	
410 Stainless steel		A	
Anti-corrosion R3			•
Anti-corrosion R4			•
304 Stainless steel			•

Light Industrial/Urban (ISO Category 2-3)

This environment is widespread in industrial urban area, away from all environments listed above and typically more than 500m from heavy industrial fall-out or where small industrial lead to a moderate level of fall-out from small stacks etc.

Warranty Periods	not recommended	no warranty	available
Zinc or yellow zinc			
Painted head		^	
410 Stainless steel		A	
Anti-corrosion R3			•
Anti-corrosion R4			•
304 Stainless steel			•

Note: Warranty period is based on 20-years duration of contructions.

Industrial (ISO Category 3)

Characterized by fall-out from adjoining severe industrial environments of were small industries lead to significant industrial fall-out. Generally includes other service buildings located near heavy industrial plants, including out-buildings of the plant itself.

Warranty Periods	not recommended	no warranty	available
Zinc or yellow zinc			
Painted head		A	
410 Stainless steel		A	
Anti-corrosion R3			•
Anti-corrosion R4			•
304 Stainless steel			•

Mild Urban/Rural (ISO Category 1-2)

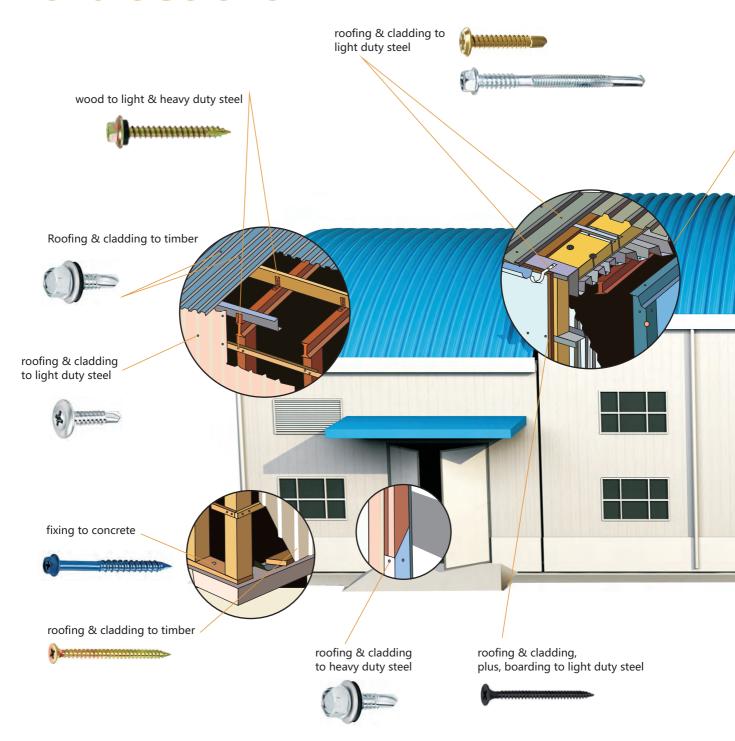


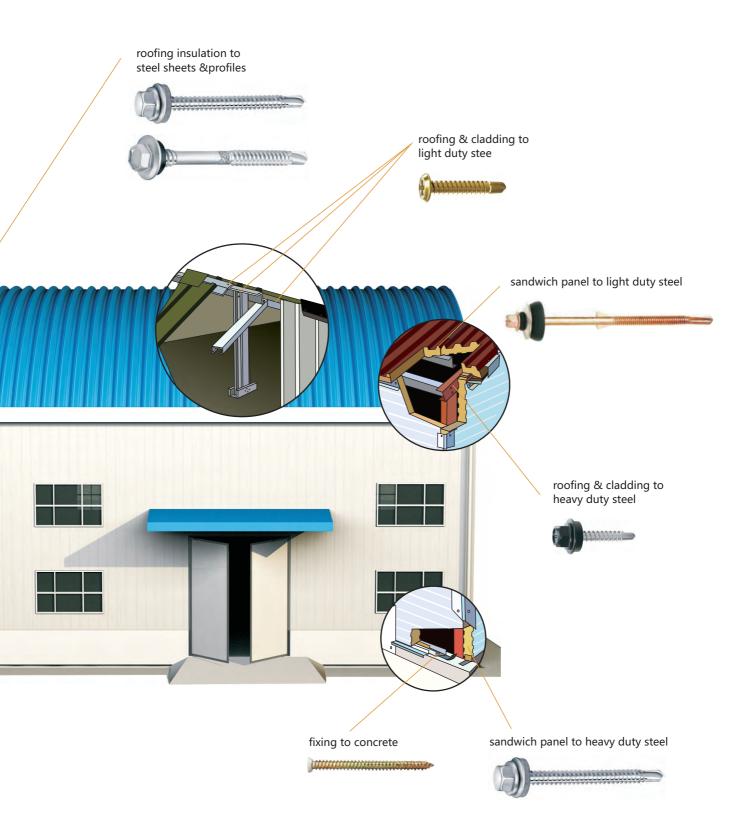
Always from all above environments and corrosive fall out with 2kms.

Warranty Periods	not recommended	no warranty	available
Zinc or yellow zinc		A	
Painted head		^	
410 Stainless steel		A	
Anti-corrosion R3			•
Anti-corrosion R4			•
304 Stainless steel			•
	l ▲ no warranty	available	

XiAOJUN®

Feel the Power of the Screws





410 Stainless Steel

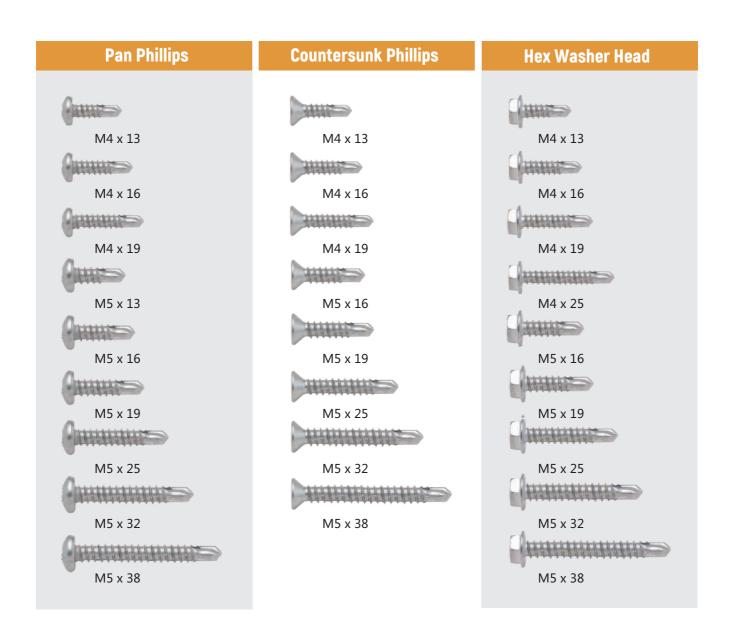
SUS410 Stainless Steel screws

Stainless steel fasteners are a natural choice with stainless steel building components.

Where possible, a fastener of similar or superior corrosion resistance to the component should be used.

Type 410 is a general-purpose martensitic stainless steel that is frequently used for fasteners.

Its resistance to corrosion is not as good as Type 304, but it is satisfactory for many architectural applications.



Custom Options

All our products come in various sizes, styles and can be customized to fit your needs.

What Is Anti-corrosion R3 & R4?

Abstraction

Not solely the omnigenous usage of metal material or as the conductor medium be performed, that particularly issues which come into notice for the metal material are their exposure to every potential destruction and deteriorate environment hence enormous pecuniary loss resulted in.

Lately, satistics shows thereabouts 1million tons above narrated or relative. Therefore, the research of their protection has been the momentous task and the pressing need for engineers and scientists.

Surface Anti-corrosion Treatment

Means apply kinds of protection on the surface of metal to quarantine itself from the corrosives environment and restrain the progress of or reduce the adjoining between corrosive media and metal surface to avoid or mitigate the corrosion situation.

The Reason of Metal Corrosion

Produced by industrial pollution and plenty exhausted fume emission of vehicles, the gaseous, minute particle corrosiveness sulfides as well as chloride teemed within the air and made the major reason of metal eroding.

Anti-corrosion R3, Anti-corrosion R4

This advance technology now are all available to apply to screw & nuts, helps to defense the corrosion once exposure to the sever marine, industrial, critical and air pollution as well. To determine the type of usage and cost, we have contained total solution for your essential.

Typical appearance of heads of fasteners using the salt-spray test

Anti-corrosion R3 & R4 is a superior corrosion resistant fastener finish. When a fastener is treated with Anti-corrosion R3 & R4, its entire surface is covered with polymer coating not susceptible to oxidation. Anti-corrosion R3 & R4 outperfrm all other existing electro-plating and prevent corrosion caused by chemical reaction between dissimilar metals. Anti-corrosion R3 & R4 create an attractive, metallic-grey finish that provide an excellent base surface for color matching paint. It is compatible with all painted and metal-coated surface.

Anti-corrosion Fasteners Deemed ti Comply

Self drilling screws shall exhibit the minimum properties appropriate to the intended usage as given in below.

Anti-corrosion	Maximum Coating Porosity	Coating Type	Minimum Average Coating Thickness	Salt-spray Test
R3	30%	Mechanically plated Tin-Zinc	25μ	1000 hrs
R4	30%	Mechanically plated Tin-Zinc	45μ	1500 hrs

304/316 Bi-metal

SUS304 Bi-metal screws

combined together two parts by welding, the one consisting of a stainless head which shall be exposed air and a stainless shank which undergoes the full-stress after fastened into materials, and the another is a carbon steel hardened for self-drilling and self-tapping.

Configuration

- stainless head & body
- stainless steel, SUS 304/316
- with corrosion resistance (no case-hardening)
- welded
- · self-drilling point
- stainless steel, SUS 410/420/435
- case-hardened carbon steel



- A Head, part of torque transfer and bearing surface
- B Thread part for fastening
- C Welding part
- Drilling point

Strength

- A No case-hardening for keeping anti-corrosion high. Surface hardness 350HV
- B Tensile stress value over A2 (700N/mm)
- \bullet C Welding strength over the breaking values for torsion and tensile of part B
- D Case-hardening for over 600HV

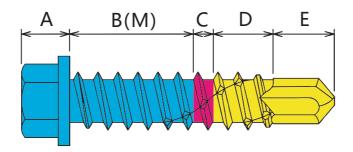


#12-24x2-1/2" (5.5x65mm)

#12-24x3" (5.5x75mm)

Basic Concept

XIAOJUN° screw combined together two parts by welding, the one consisting of a stainlesshead which shall be exposed air and a stainless shank which undergoes the pull-stressafter fastened into materials, and the another is a carbon steel hardened for self-drilling andself-tapping.



Basic Configuration

A: Head part for torque transferand bearing surface

B: Thread part for fastening

C: Welding part

D: Thread part for tapping

E: Drilling point

Stainless steel with corrosion resistance

(No case-hardening)

Case-hardened carbon steel

Basic strength

A: No case-hardening for keeping anti-corrosion high, Surface hardness 350HV

B: Tensile stress value over A2 (700N/mm)

C: Welding strength over the breaking values for torsion and tensile of part B

D: Case-hardening for over 600HVE: Case-hardening for over 600HV

Basic surface treatment

Ruspert silver about $8\sim12\mu$, Non-Chrome

Head marking

Basically, the marking is XJ. On Hex Head, each J placed reversely back to back and on Pan Head, XJ placed in symmetry diagonally. These head marks are registered.





Strength of XiAOJUN°

The stainless part of XiAOJUn° screws are manufactured with more than A2-70 strengthDescription of "A2-70"

It consists of 2 sections divided with a hyphen. First section represents stainless steelclasses, of which the alphabet indicates stainless steel materials, table 1, and the numberchemical compound types, table 2, Second section represents strenath classes and thetwo-digit number is tenth part of tensile strength of a completed product.

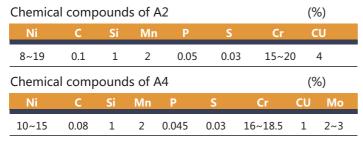
POINT

In other words, A2-70 is austenitic stainless, which is non-magnetic and highcorrosion resistance, 18-8 stainless SUS-300 series, whose tensile strength isat over 700N/mmi(700MPa)

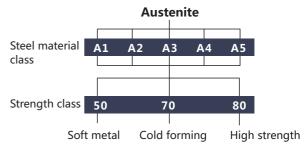
Table 1

Steel materia	Magnetism	Hardenability
A : Austenite	×	×
C : Martensite	0	0
F : Ferrite	0	×

Table 2







Reference: JIS Handbook Fasteners&Screw Threads 2003

The material of XiAOJUN° screws is mostly XM7 which is equivalent to A2, 18-8 stainless.but if the cold-forming is not enough, the tensile strength gets no more than around600N/mm(600MPa) and hence twisting and bending occurs during use. However, weproduce XiAOJUN° screws at over 700N/mm(700MPa) with our special manufacturaknow-how.

Therefore A2 stainless steel is of high corrosion resistance and used for kitchenwareand equipments in an ordinary factory, but not suitable for use under such environmentsas contacting non-oxidized acid and chloride, such as swimming pool and sea. For suchenvitonments, A4 stainless steel, which is often used for food industry and shipbuildingindustry, is recommended. A4 XiAOJUD° is available on all items on order.

Technical data of XiAOJUN°

Technical data of stainless parts "A" and "B

Chemical Composition

Austenite SUS-305J1

(%)

Ni	С	Si	Mn	Р	S	Cr
11.00~13.50	max 0.08	max 1.00	max 2.00	max 0.045	max 0.03	16.5~19.00

Austenite SUS-XM7

(%)

Ni	С	Si	Mn	Р	S	Cr	Cu
8.50~13.50	max 0.08	max 1.00	max 2.00	max 0.045	max 0.03	17.0~19.00	3.0~4.0

Pull Out Value

(N)

Thread Dia	Thickness 1.2mm	Thickness 1.6mm	Thickness 2.3mm	Thickness 3.2mm	Thickness 4.0mm	Thickness 6.0mm
4	3260	3618	5952	6702		
5		5490	6060	8624	7716	
5.5			6030	8022	10204	11532
6			6112	9662	10704	13732

Tensile and Shear Strength

Test Sheet :2.3mm	(N)
-------------------	-----

-	10	SIC	on	Str	en	gt	h

6

(N.m)

Thread Dia	Tensile Strength	Shear Strength
4	6606	5194
5	8502	6256
5.6	11634	8042
6	15440	10732

Thread Dia	Torsion Strength
4	4.8
5	6.9
5.6	9.6

Pull-Out Value

Shear Strength

Torsion Strength

14.7









Clearance Hole For Pull-Out Test (mm)

Thread Dia	Clearace Hole Dia
4	4.4
5	5.4
5.6	5.9
6	6.4

Clearance Hole For Shearing Test (mm)

Thread Dia	Clearace Hole Dia
4	4.7
5	5.7
5.6	6.2
6	6.7

These are measured values, not guaranteed one.

Thread and drill point in carbon steel aren't concerned with the values.

Stainless strength for all screws over A2-70.

For anti-corrosion, hexavalent chromate treatment over zinc plating had been generally applied.

Hexavalent chromium has high corrosion resistance, however, on the other hand, there arehazardous natures that it causes dermatitis and tumor if contacting with your skin for a longtime, and causes cancer if it is stored in a certain amount in your body.

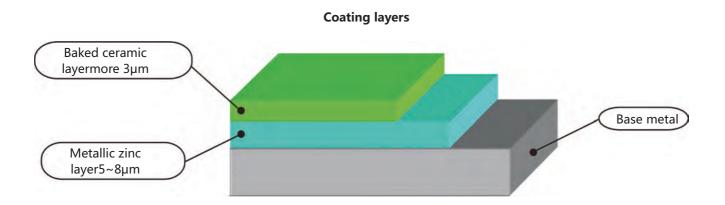
In fact, health hazardwas reported because hexavalent chromium was absorbed into land through acid rain and contaminated groundwater, This became a social problem to be solved urgently.

In 2003, European Union nations issued RoHS directive and WEEE directive, which bothrestrict specified toxic substances, As a result, hexavalent chromium was gradually replaced with trivalent chromium in car and light electric appliance industries in Europe and movement towards the elimination of hexavalent chromium has been accelerating globally.

XiAOJUN° screw has as explained in this catalogue by now, the austenitic stainless shank andit contributes to economical use with resources and cost saving due to the fasteninglongevity, which should be a drill screw, what we call, quite gentle against environment.

Concept of XiAOJUN° Super Ruspert Plus

Sacrificial protection by zinc in zinc electroplating layer, non-chromium, and a barrier effectby upper baking layer forms the coating with high corrosion resistance.



Ruspert

Ruspert is a combination of the Zinc Nickel alloy plating and non-chrome coating system which realize its superior anti-corrosion performance. With the Ruspert specialty of tough and elaborated film structure, the coating has been reborn as an environmental friendly waterborne system.

Features

01 Waterborne system

Using water as a solvent.
Substantially reduce VOC emissions.

02 Chromium-free

Free from the hazardous chromium compound completely.

03 Electrolytic corrosion resistance

Reducing dissimilar metal contact corrosion apparently between the products and aluminum board or plated steel board.

04 Color variation

The basic color is silver and please contact us for color variety request.

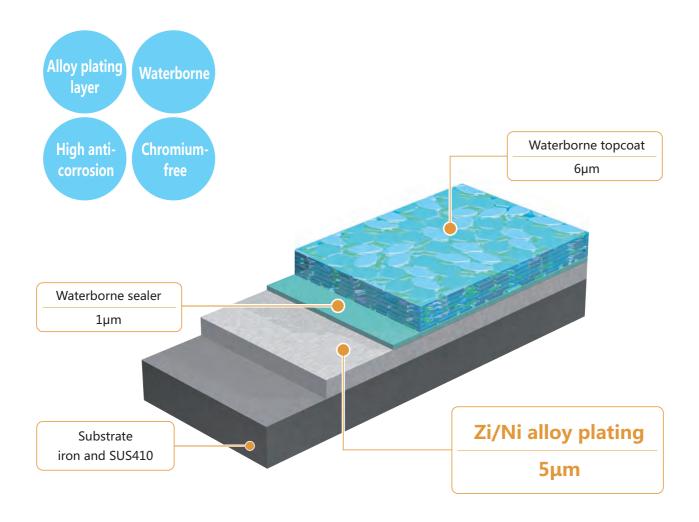
05 Stability of anti-corrosion performance

Zn/Ni alloy plating and waterborne top coat combined by the waterborne sealer which can improve and ensure the stability of the whole anti-corrosion performance.

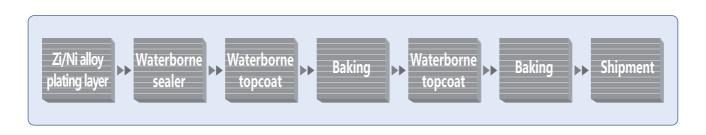
06 Superior corrosion resistance performance

Salt spray test (JIS Z 2371) 2000 Hours No red rust occurred Combined cycle test (JASO M 609-91) 200cycles No red rust occurred

Coating strucure and the corrosion prevention mechanism



Standard treatment process (Dip-spin method)



^{*} Spray coating (1coating) is available depending on the profile of products.

Ruspert Coating - Super Anti-corrosion

What is Ruspert Coating?

Ruspert metal finish is a high-grade, non-organic, tri-layered ceramic surface coating developed to attain optimum performance in the various pollutive and atmospheric conditions that cause corrosion. It consists of three layers:

·The 1st layer: a metallic zinc layer.

films.

- ·The 2nd layer: a high-grade anti-corrosion chemical conversion film.
- ·The 3rd top layer: a baked ceramic top coating.

The unique feature of Ruspert Coating is the tight joining of the baked ceramic top coating and the chemical conversion film thanks to the cross-linking effect. These layers are bonded together with the metallic zinc layer through chemical reactions, and this unique method of combining layers results in a rigid and dense combination of the coating

Ruspert Coating treatment does not attribute its anti-corrosion properties to merely a single material, but the synergy of these three layers, which combined have superb rustproof qualities. Compatible with metal coated and painted surfaces, fasteners coated with Ruspert are resistant to acid and alkaline attack, galvanic corrosion and hydrogen embrittlement

Ruspert Coating Processes

Material: metallic zinc & resin

Coating Type : metallic zinc (3 layers) dip-coating

baked ceramic top coating

Minimun Average Coating Thickness:

 20μ , 30μ , 40μ

Salt-spray Test: 500、 1000、 1500 hrs



Extra-heavy plating provides long corrosion-free service.

EPDM Sealing

Made of macromolecule material, the EPDM seal contains excellent characters of aging, unitraviolet rays resistance and endure to ozone, high temperature and low temperature (-50°C -150°C)

Hi-grip

Hi-grip is a dual-threaded system that provides positive support to roofing profiles and secures a watertight seal between fastener and roofing sheet during crest fixing.

Drillshield

To enlarge the hole in the profile, and to avoid damage to the protective coating on the shank beneath the roof.

Thread

XIAOJUN fasteners are designed to give the best possible holding power with a low installation torque. As thinner high tensile sections are introduced, our engineers ensure that screws have optimum holding power and pullout strength.

Hi Teks

C-1022 steel case hardened drill point that will drill and thread in structural steel and mild steel. This technology is designed in a manner much the same as a high speed steel drill bits.

Salt-spray Test Result

after 1500 hrs (40μ)



after 1000 hrs (30μ)



after 500 hrs (20μ)



DIN50018 Testing In Alternating Condensation Atomosphere Containing Sulphur Dioxide

1. Purpose and range of application

This standard describes the general condition which must be observed for testing samples in condensation atmosphere containing sulphur dioxide, so that comparable results are obtained when the test is carried out in different laboratories.

The test allows defects in corrosion protection systems to be detected quickly. Exposure to these test atmospheres does not allow any direct conclusions to be drawn regarding the life of the tested components under practical duty conditions. This, however, does not exclude the possibility, once ample experience has been gained regarding the long-term behaviours of specific systems in an industrial atmosphere, of being able to establish a relationship between the behaviour in practical service and the behaviour under test conditions, particularly in atmosphere DIN 50 018 – SFW0.25.

It is advisable to test only identical corrosion protection system simultaneously in one and same test facility, since the possibility of interaction between samples representing different system cannot be excluded.

When different corrosion protection systems are tested simultaneously and different materials are present, it should be borne in mind that different effects are often brought about by sulphur dioxide. Direct comparison of the results of tests on different combinations of corrosion protection systems and materials is therefore not readily permissible.

Sample form, sample preparation, test duration, evaluation of the test and assessment of the results are not the subject of this Standard. Details on these points will be found in the relevant Standards or special specifications, or are to be agreed case by case. In particular, the remarks in DIN 50 905 part 1 to part 3 are to be observed when carrying out this test.

2. Other relevant Standards

- DIN 50 900 Part 1 Corrosion of metals; definitions, general definition.
- DIN 50 900 Part 2 Corrosion of metals; definitions, electrochemical definition.
- DIN 50 900 Part 1 Corrosion of metals; chemical corrosion tests, general.
- DIN 50 900 Part 2 Corrosion of metals; chemical corrosion tests, corrosion values with uniform surface corrosion.
- DIN 50 900 Part 3 Corrosion of metals; chemical corrosion tests, corrosion values with non-uniform corrosion absence of additional mechanical stress.

3. Definitiontress.

According to DIN 50 900 Patr1 and Part2.

4. Test condition

At the star of the first test phase in each cycle the test chamber temperature is raised to $\pm 31^{\circ}$ C over a period of about 1 ½ hours. At the same time condensation forms on the samples. This wetting must persist throughout the further progress of the first test phase. It is during this stage that the test reaches maximum everity through the the simultaneous action of sulphur dioxide.

Note: the sulphur dioxide admitted at the start of the first test phase quickly dissolves to a great extent in the water in the bottom of the test chamber. At the start of the test, therefore, the effective sulphur dioxide concentration in the gas space is only about 1/7 of theoretical concentration. This initial concentration does not remain constant during the first phase, but instead drops sharply at first and thereafter more slowly.

The second test phase starts with the disconnection of the heat supply and the opening or ventilating of the test chamber, which must lead to the establishing after about $1\frac{1}{2}$ hours of the test conditions according to the Table.

	Type of test co	ndition	Theoretical SO2 concentration start of a cycle % by vol.					
			0.067*	067* 0.33*				
C	Condensation atr	nosphere	DIN50 018-SFW0.2S	DIN50 018-SFW1.0S	DIN50 018-SFW2.0S			
Cycle	Test phase 1	h	8 including heating					
	Test phase 2	h	16 including cooling (test chamber opened ventilate)					
	Total h		24					
	Tost phase 1	Temperature °C	40±3					
Conditions in test space	Test phase 1	Relative humidity%	Approx. 100(wetting of test specimens)					
	Took whose 2	Temperature °C	18 to 28					
	Test phase 2	Relative humidity%	Max.75					
Water qu	uantity in the test	space % by vol.	0.67	0.67				

¹⁾ For a test facility with a test chamber volume of 300l, the theoretical so2 concentration corresponds to an so2 admission per cycle of 0.2l, 1.0l, 2.0l.

5. Test facility

5.1 Test chamber

Testing in a warm humid atmosphere containing sulphur dioxide requires a test chamber with a volume of at least 300L closed all round and sealed and having walls consisting of a corrosion-resistant material which, moreover, must not influence the corrosion. The test chamber must have a bottom trough capable of being heated and of holding the quantity of water prescribed in the Table. The heating of the test chamber takes place only via this water bath.

A suitable temperature measuring and control device must be available in the test chamber. The temperature is measured in the immediate vicinity of the samples. The valves necessary for pressure equalization and the gas inlet must be located above the

²⁾ For a test facility with a volume of 300l, this concentration corresponds to a quality of2l

^{*} Usually known abroad under the old designation RRSt 1405.

water surface. The roof of the test chamber must be so constituted as to prevent condensate from dripping down on to the samples. The shape and size of the test chamber are optional, provided that the requirements of Section 5 and 7 are fulfilled. The illustration shows a test facility with a chamber volume of 300L.

The test chamber is to be set up in a room without corrosive atmosphere, at room temperature and a relative humidity not exceeding 75%, and so installed that it is protected from draughts and sola irradiation.

5.2 Sample holder

the sample holder must consist of a corrosion-resistant material which also must not influence the corrosion of the sample. it must be so constituted that the samples can be arranged to suit the requirements of Section 6.2.

6 Procedures

6.1 Samples

Only samples which do not affect each other should be tested jointly.

6.2 Arrangement of samples

The samples are to be so arranged in the test chamber that the following spacing is maintained:

- Distance from walls at least 100mm
- Distance of underside of samples from surface of water at least 200mm
- Distance between samples at least 20mm

In the absence of any agreements to the contrary, the total surface area of the suspended samples should amount to $0.5m2 \pm 0.1 \text{ m}$ 2 per 300L of test chamber volume. Special agreements are to be made in respect of samples the surface area of which cannot be determined.

It is importance to ensure that during exposure no condensate can drip on to the samples. Since the same amount of sulphur dioxide is affective in each cycle, the result depends on the size and nature of the total sample surface area loaded. For comparative tests it is therefore indispensable to work each time with the same total sample surface area and samples of like a kind.

It is also important that the material used to mask surface which are not to be exposed should be of a kind which does not reach with sulphur dioxide and also does not influence the test result in any other way.

6.3 Filling the bottom trough

The bottom trough should be filled with the quality of distilled or deionized water stated in the Table. Prior to each cycle the water must be renewed and the test chamber cleaned if necessary.

6.4 Gas supply

Before the sulphur dioxide is admitted the test chamber must be closed.

- **6.4.1** Supplying sulphur dioxide from steel cylinders. For the exact measurement of the amount sulphur dioxide admitted, commercial-type gas meters or containers with fluid displacement(paraffin oil) may be used.
- 6.4.2 Generation of sulphur dioxide inside the test facility.

It is also permissible to generate sulpur dioxide inside the test facility by suitable means(e.g. NaHSO3+dilute sulphuric acid)

6.5 Heating

the heating should be switched on immediately after the admission of sulphur dioxide and the test chamber raised to temperature of 40° C over a period of about 1 1/2 hours. This temperature must be held to within $\pm 3^{\circ}$ C at the measuring point.

6.6 Test duration

If the specific test Standards do not lay down any test duration,1,2,5,10 or 20 cycles should be run for preference. The test may be broken off any unacceptable impairment of the appearance or function of the samples occurs or if a given degree of corrosion is reached.

6.7 Test sequence

Each cycle comprises two-test phase corresponding to the Table, i.e. totaling 24 hours. At the end of the first test phase(8 hours)the heating is switched off and the test chamber opened or ventilated.

At the end of the second test phase (18 hours) the bottom trough is emptied, cleaned if necessary, and filled with fresh distilled or deionized water. The test chamber is then closed and solphur dioxide admitted. With the switching on of the heating a new cycle starts.

6.8 Interrupting the test

Test interruptions are to be made up by prolonging the second test phase and are to be indicated in the report. When specimens are to be exposed to only 1 or 2 cycles, the test facility should have been in operation beforehand for at least 1 cycle.

7. Functional check of the test facility

For monitoring the reproducibility the test results given by a test facility, or those of identical test facilities at different locations, it is necessary to carry out a functional check at appropriate intervals. Test facilities with a test chamber volume of 300L are covered by the provision in Sections 7.1 to 7.8.

7.1Test material

7.1.1 Five samples each measuring 50mm wide, 100mm long and 0.6 to



1.5mm thick, of the steel grades St 37(bright as rolled) to DIN 17 100 or St 1405° (bright as rolled) to DIN 1623 part 1 ground with a ceramic wheel of hardness J and 46 grit.

7.1.2 Two blank samples each measuring 250mm wide,400mm long and 1mm thick, of the steel grades St 37(bright as rolled) to DIN 17 100 or St 1405° (bright as rolled) to DIN1623 Part1.

7.2 Sample preparation

Before the functional check is started, the test material according to Section 7.1 should be degreased by using white spirit or another suitable solvent applied with a soft lint-free cloth or a brush, and the sample according to Section 7.1.1 then weighed to the nearest 1 mg. If the weighing cannot be performed immediately after degreasing, the sample should be kept in a desiccator until weighed.

7.3 Performance of the functional check

The five samples according to Section 7.1.1 are arranged vertically in the chamber. The blank samples according to Section 7.1.2 are also arranged vertically on either side of five samples according to Section 7.1.1. The exposure of the samples extends over five cycles corresponding to the test conditions SFW 0.25 according to Section 6.

7.4 Removing the corrosion products

On completion of the functional check the corrosion products are removed from the samples by using an approximately 10% solution of hydrochloric acid(230ml of chemically pure HCLp=1.18g/ml and 730ml of distilled or deionized water), to which 0.1% properly alcohol has been added, at room temperature. After the corrosion products have been removed, the samples are thoroughly rinsed in distilled or deionized water, dried and then kept in the desiccator at room temperature from 18 to 28°C until weighed.

7.5 Weighing the samples

The samples are weighed to the nearest 1mg.

7.6 Evaluation of results

The losses of mass determined are converted to g/m^2 If the mean value found is between 100 and $150m/g^2$ and if the deviation of the individual values from the mean value does not exceed $\pm 20\%$, the test is in conformity with the Standard.

Further Standards

DIN 1623 Part Flat products of steel; cold rolled strip and sheet of mild unalloyed steels;

Quality specifications.

DIN 17 100 Steels for general structural purposes; quality specification(subsequent edition at present in after form.

Explanations

Painted System

Advantages

- Customized combination w/screw & washer
- RAL, RR or customized colors option
- Complete automatic production system
- Automatic Spray Painting Machine
- High Production Capacity
- Evenly Painted
- Obvious Head Marking
- Large Automatic Oven with Stabilized Temperature
- Customized Paint Colors (RAL and RR)
- High Quality Paint Powder
- SGS Certified
- Well-managed QC Tests

RAL Colors

RAL 1000		RAL 1001		RAL 1002		RAL 1003		RAL 1004		RAL 1005		
RGB CMYK	205 186 136 26 26 52 0	RGB CMYK	208 176 132 24 33 51 0	RGB CMYK	210 170 109 24 36 62 0	RGB CMYK	249 168 0 4 42 93 0	RGB CMYK	228 158 0 15 43 96 1	RGB CMYK	203 142 0 24 47 100 4	
RAL 1006		RAL 1007		RAL 1011		RAL 1012		RAL 1013		RAL 1014		
RGB CMYK	226 144 0 14 51 97 1	RGB CMYK	232 140 0 11 54 97 1	RGB CMYK	175 128 79 33 50 71 10	RGB CMYK	221 175 39 20 33 89 0	RGB CMYK	227 217 198 14 15 24 0	RGB CMYK	221 196 154 18 24 43 0	
RAL 10	RAL 1015		RAL 1016		RAL 1017		RAL 1018		RAL 1019		RAL 1020	
	230 210 181 13 19 31 0	RGB CMYK	241 221 56 15 9 82 0	RGB CMYK	246 169 80 5 42 73 0	RGB CMYK	250 202 48 8 24 84 0	RGB CMYK	164 143 122 41 43 50 4	RGB CMYK	160 143 101 42 40 62 7	
DA1 404	0.4	DA1 46	200									
RAL 102		RAL 10		RAL 10)24	RAL 10	026	RAL 1		RAL 10)28	
RGB CMYK	246 182 0 8 34 93 0	RGB CMYK	247 181 0 7 34 93 0	RGB CMYK	186 143 76 31 44 75 6	RGB CMYK	255 255 0 13 0 84 0	RGB CMYK	167 127 14 36 47 100 13	RGB CMYK	255 155 0 0 49 93 0	
RAL 103	32	RAL 10		RAL 10	034	RAL 10	035	RAL 1		RAL 10)37	
RGB CMYK	226 163 0 17 40 96 0	RGB CMYK	249 154 28 3 49 90 0	RGB CMYK	235 156 82 10 47 71 0	RGB CMYK	144 131 112 48 44 53 9	RGB CMYK	128 100 63 46 53 75 26	RGB CMYK	240 146 0 7 52 96 0	

34 95 120

86 55 36 16

RGB

CMYK

0 79 124

93 69 27 12

RGB

CMYK

43 58 68

81 65 51 48

RGB

CMYK

RGB

CMYK

25 30 40

84 76 54 71

RGB

CMYK

0 83 135

55 107 140

81 53 29 8

RGB

CMYK

RAL 7003

122 118 105

55 47 53 14

RGB

CMYK

RAL 7004

155 155 155

46 37 34 0

RGB

CMYK

RAL 7005

108 110 107

60 49 49 16

RGB

CMYK

RAL 7006

118 106 94

54 51 55 20

RGB

CMYK

116 94 61

50 53 75 31

RAL 7008

RGB

CMYK

93 96 88

63 51 56 26

RAL 7009

RGB

CMYK

RAL 7010

RGB 88 92 86 CMYK 65 53 56 28 **RAL 7011**

RGB 82 89 93 CMYK 69 55 49 27 **RAL 7012**

RGB 87 93 94 CMYK 67 54 50 25 **RAL 7013**

RGB 87 80 68 CMYK 61 56 63 38 **RAL 7015**

RGB 79 83 88 CMYK 69 58 50 31 **RAL 7016**

RGB 56 62 66 CMYK 74 62 55 47

RAL 7021

RGB 47 50 52 CMYK 74 65 59 59 **RAL 7022**

RGB

CMYK

76 74 68 65 58 60 41 **RAL 7023**

RGB 128 128 118 CMYK 54 44 48 9 **RAL 7024**

RGB 69 73 78 CMYK 71 60 52 38 **RAL 7026**

RGB 55 67 69 CMYK 76 59 56 45 **RAL 7030**

RGB 146 142 133 CMYK 49 41 44 4

RAL 7031

RGB 91 104 109 CMYK 67 51 45 18 **RAL 7032**

RGB

CMYK

181 176 161 35 29 36 0 **RAL 7033**

RGB 127 130 116 CMYK 55 42 51 9 **RAL 7034**

RGB 146 136 111 CMYK 47 42 55 8 **RAL 7035**

RGB 197 199 196 CMYK 27 19 21 0 **RAL 7036**

RGB 151 147 146 CMYK 47 40 37 2

RAL 7037

RGB 122 123 122 CMYK 56 46 44 9 **RAL 7038**

RGB 176 176 169 CMYK 37 28 31 0 **RAL 7039**

RGB 107 102 94 CMYK 58 51 54 22 **RAL 7040**

RGB 152 158 161 CMYK 47 35 31 0 **RAL 7042**

RGB 142 146 145 CMYK 51 39 38 2 **RAL 7043**

RGB 79 82 80 CMYK 67 56 55 34

RAL 7044

RGB 183 179 168 CMYK 34 27 33 0 **RAL 7045**

RGB 141 146 149 CMYK 51 39 35 2 **RAL 7046**

RGB 127 134 138 CMYK 56 43 38 5 **RAL 7047**

RGB 200 200 199 CMYK 26 19 19 0 **RAL 7048**

RGB 129 123 115 CMYK 53 47 48 11 **RAL 8000**

RGB 137 105 62 CMYK 43 53 77 23

RAL 8001

RGB 157 98 43 CMYK 33 61 89 21 **RAL 8002**

RGB 121 77 62 CMYK 44 66 67 35 **RAL 8003**

RGB 126 75 38 CMYK 39 66 88 37 **RAL 8004**

RGB 141 73 49 CMYK 34 72 79 30 **RAL 8007**

RGB 112 69 42 CMYK 43 67 82 43 **RAL 8008**

RGB 114 74 37 CMYK 43 64 89 41

RAL 8011

RGB 90 56 38 CMYK 48 69 80 54 **RAL 8012**

RGB 102 51 43 CMYK 42 77 73 50 **RAL 8014**

RGB 74 53 38 CMYK 55 66 76 59 **RAL 8015**

RGB 94 47 38 CMYK 43 77 76 55 **RAL 8016**

RGB 76 43 32 CMYK 49 74 78 63 **RAL 8017**

RGB 68 47 41 CMYK 58 69 68 62

RAL 8019

RGB 61 54 53 CMYK 67 65 60 56 **RAL 8022**

RGB 26 23 24 CMYK 75 73 66 83 **RAL 8023**

RGB 164 87 41 CMYK 30 69 89 20 **RAL 8024**

RGB 121 80 56 CMYK 43 63 73 35 **RAL 8025**

RGB 117 88 71 CMYK 49 59 64 31 **RAL 8028**

RGB 81 58 42 CMYK 54 65 75 55

RAL 8029

RGB 127 64 49 CMYK 37 74 75 37 **RAL 9001**

RGB 233 224 210 CMYK 11 12 19 0 RAL 9002

RGB 215 213 203 CMYK 20 15 20 0 **RAL 9003**

RGB 236 236 231 CMYK 9 6 10 0 **RAL 9004**

RGB 43 43 44 CMYK 74 67 61 65

RGB 14 14 16 CMYK 80 76 68 90

RAL 9006

RGB 161 161 160 CMYK 43 34 33 0 **RAL** 9007

RGB 135 133 129 CMYK 52 44 43 6 RAL 9010

RGB 241 236 225 CMYK 7 7 13 0 **RAL 9011**

RGB 39 41 43 CMYK 76 67 60 67 **RAL 9016**

RGB 241 240 234 CMYK 7 5 9 0 **RAL 9017**

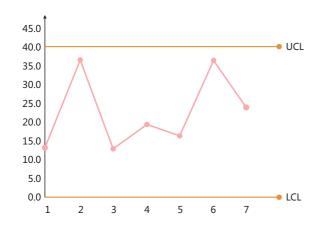
RGB 42 41 42 CMYK 73 67 62 67

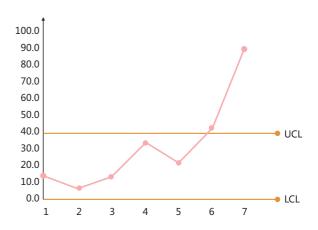
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