



AyA SCREWS

FASTENERS, AS YOU ASKED

AYA Fasteners (Hebei) Co., Ltd.

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COMPANY PROFILE

AYA Fasteners (Hebei) Co., Ltd.

As a Global Fasteners Customization Solutions Supplier, AYA has been deeply involved in the fastener industry with a single-minded and dedicated attitude, devoting to providing our customers with more industry-specific, professional, standardized, and precise fasteners solutions.

Besides more targeted and specific fastening solutions, AYA also provides you with exclusive value-added services.

Anywhere, anytime, when you have any related problems and demand with fasteners, please feel free to contact our AYA customer service.

We will customize proper solutions based on your actual situation and requirements.



30+

Countries Market



13000+

Fastener Product Categories



16+

Years History



376+

Brands, Distributors, And Builders





Slogan:

Fasteners, As You Asked

Value:

AYA's service process better satisfy customers' needs than the fastener itself

Positioning:

Global Fasteners Customization Solutions Supplier

Mission:

Devoting to satisfying multi-scenario fastening demand of our global customers

Brand Statement:

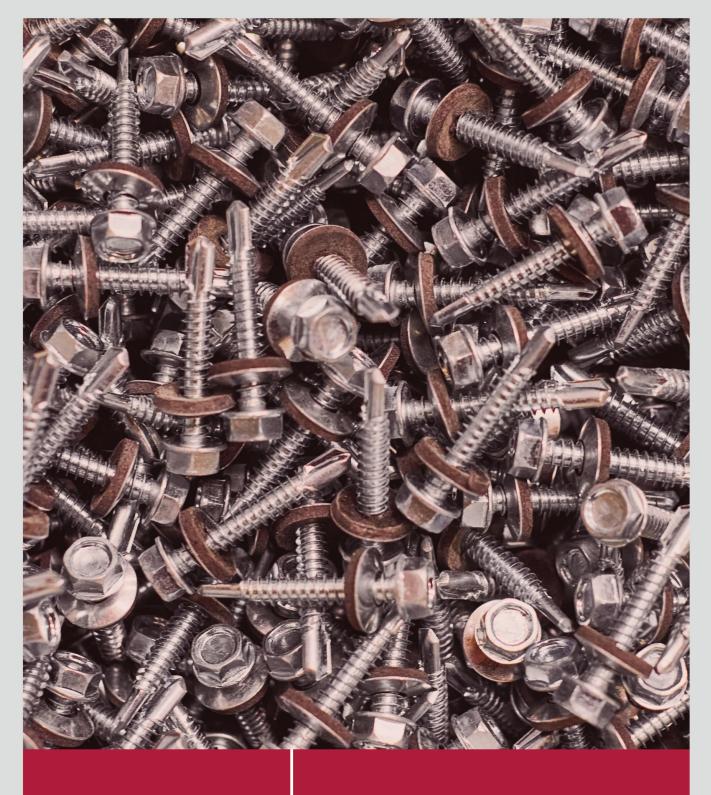
Providing professional solutions with dedicated attitude

Advantages:

Production advantage: High standard ensures high quality

Management advantage: Standardization ensures high efficiency

Service advantage: Constant provision of excellent service



SELF-DRILLING SCREWS



Light duty

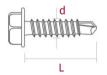
Hex Washer Head

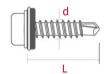
Applications

- For light duty purpose
- Stitch roof deck and wall panel side laps
- Residential steel frame construction
- Brick ties to steel framing

Features

- Unique point to thread design extrudes the metal preventing strip out
- Non-walking point provides fast material engagement
- Point to thread design maximizes pullout performance and minimizes backout







Plated





2

3





Suggested application thickness point #2 < 2mm

Size	Length [inch]	Length [mm]	Drill Point [m/m]	Drill Capacity [m/m]
#6 20	3/8″	10	#2	0.5 - 1.0
#6-20 M3.5	1/2″	13	#2	0.5 - 1.0
M3.5	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
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













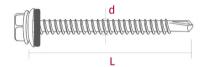
Medium duty

Hex Washer Head

Applications

- 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





Plated











Suggested application thickness point #3 < 5mm

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



Heavy duty

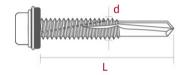
Hex Washer Head

Applications

- For heavy duty purpose
- Metal deck to structural steel or bar joist
- Clip to structural or bar joist
- Longer length fasteners for sheet application

Features

• Engineered for fast drilling and smooth tapping with less effort





Plated











Suggested application thickness point #5 < 12mm

Size	Length [inch]	Length [mm]	Drill Point [m/m]	Drill Capacity [m/m]
	1-1/4″	32	#5	12.0
#12	1-1/2"	38	#5	12.0
M5.5	2"	50	#5	12.0
	2-1/2"	63	#5	12.0
	3″	75	#5	12.0













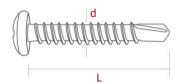
Phillips

Pan Head

Applications

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

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





Plated













Suggested application thickness point #2 < 2mm point #3 < 5mm

Size	Length [inch]	Length [mm]	Drill Point [m/m]	Drill Capacity [m/m]
#C 20	3/8″	10	#2	0.5 - 1.0
#6-20 M3.5	1/2″	13	#2	0.5 - 1.0
1413.5	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
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











Yellow Zinc

Ruspert phosphate



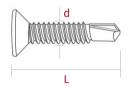
Phillips

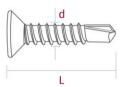
Countersunk Head

Applications

- 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







Plated











Suggested application thickness point #2 < 2mm point #3 < 5mm





80° degree

100° degree

Size	Length [inch]	Length [mm]	Drill Point [m/m]	Drill Capacity [m/m]
	3/8"	10	#2	0.5 - 1.0
#6-20	1/2″	13	#2	0.5 - 1.0
#6-20 M3.5	5/8″	16	#2	0.5 - 1.0
1413.5	3/4"	19	#2	0.5 - 1.0
	1"	25	#2	0.5 - 1.0
	1/2″	13	#2	1.0 - 2.0
#8-18	5/8″	16	#2	1.0 - 2.0
M4.2	3/4"	19	#2	1.0 - 2.0
	1"	25	#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
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



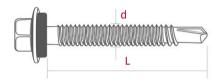
EPDM

Hex Washer Flange

Applications

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

- Precise cutting edges to improve drill performance with less effort
- Provide bigger cover surface in using exterior enviorment





Plated











Suggested application thickness point #3 < 5mm

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
	1-3/8"	35	#3	2.0 - 4.0
	1-1/2"	38	#3	2.0 - 4.0
	1-3/4"	45	#3	2.0 - 4.0
#12-24	2"	50	#3	2.0 - 4.0
M5.5	2-3/16"	55	#3	2.0 - 4.0
	2-1/2"	63	#3	2.0 - 4.0
	3″	75	#3	2.0 - 4.0
	3-1/2"	88	#3	2.0 - 4.0
	4"	100	#3	2.0 - 4.0
	5″	125	#3	2.0 - 4.0



Phillips

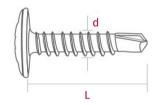
Truss Head

Applications

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

Features

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





Plated

Point













Suggested application thickness point #2 < 2mm

Size	Length [inch]	Length [mm]	Drill Point [m/m]	Drill Capacity [m/m]
	1/2″	13	#2	1.0 - 2.0
#8-18	5/8″	16	#2	1.0 - 2.0
M4.2	3/4"	19	#2	1.0 - 2.0
	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















Phillips

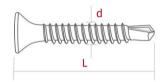
Bugle Head

Applications

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

Features

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





Plated

Point





Suggested application thickness point #2 < 2mm

Size	Length [inch]	Length [mm]	Drill Point [m/m]	Drill Capacity [m/m]
	1″	25	#2	0.5 - 1.0
#6-20	1-1/8"	28	#2	0.5 - 1.0
#6-20 M3.5	1-1/4"	32	#2	0.5 - 1.0
1413.3	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



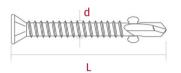
Countersunk Wings

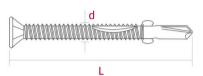
Applications

- Wood mansard to steel frames
- Plywood fascia to steel frames
- Plywood roof and floor sheet to steel frames

Features

- Large bearing surface ideal for plywood
- Flat head design countersunk and seats flush in wood
- Aluminum/Steel washer
- Special winged fasteners ream a hole in wood preventing thread engagement during drilling







Plated





Suggested application thickness point #3 < 2 - 5mm point #4 < 5 - 8mm point #5 < 9 - 12mm

Size	Length [inch]	Length [mm]	Drill Point [m/m]	Drill Capacity [m/m]
	1"	25	#3	1.0 - 3.0
#10	1-1/4"	32	#3	1.0 - 3.0
M4.8	1-1/2"	38	#3	1.0 - 3.0
	1-3/4"	45	#3	1.0 - 3.0
	1-1/2"	38	#3	2.0 - 4.0
#12	2″	50	#3 · #5	2.0 - 4.0 ·12.0
M5.5	2-3/16"	55	#3 · #5	2.0 - 4.0 ·12.0
. 1010	3″	75	#3 · #5	2.0 - 4.0 ·12.0
	3-5/32"	80	#3 · #5	2.0 - 4.0 ·12.0
	3-1/2"	45	#3 · #5	2.0 - 4.0 ·12.0
	4-3/4"	120	#3 · #5	2.0 - 4.0 ·12.0
#14	2″	50	#4·#5	7.0 - 8.0 ·12.0
M6.3	3-5/32"	80	#4·#5	7.0 - 8.0 -12.0
	3-1/2"	88	#4·#5	7.0 - 8.0 -12.0
	4-3/4"	120	#4·#5	7.0 - 8.0 ·12.0
	6″	150	#4·#5	7.0 - 8.0 -12.0











Zinc



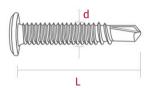
Phillips

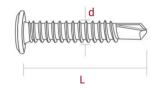
Wafer Head

Applications

- 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





















Suggested application thickness point #3 < 5mm

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	













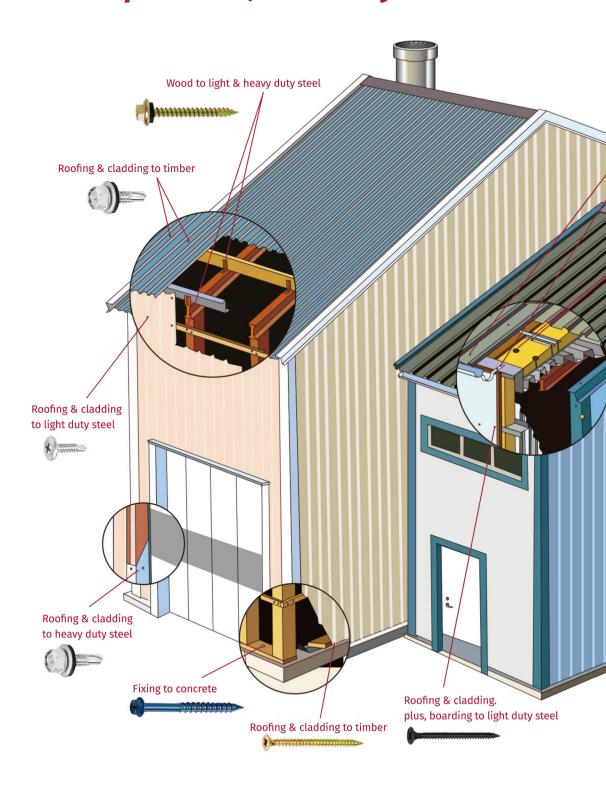
Self-drilling Screws Product Range

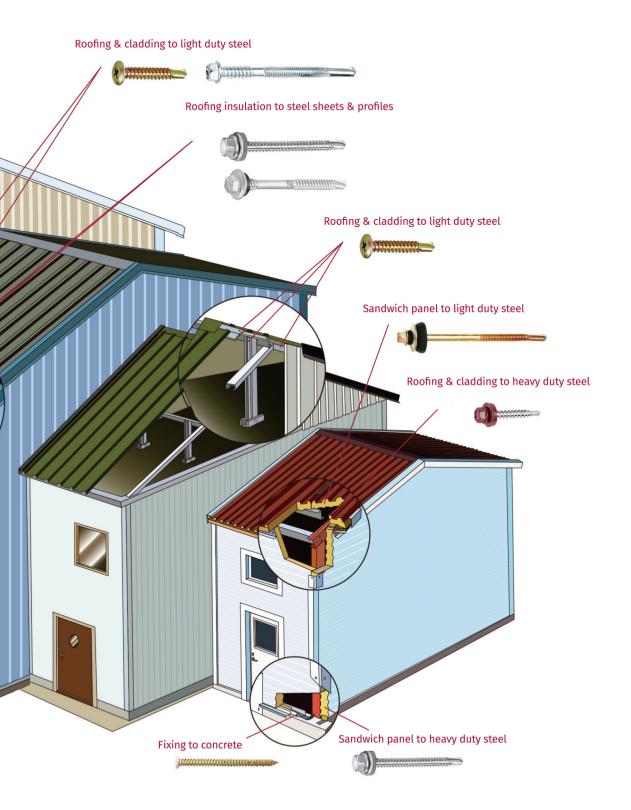


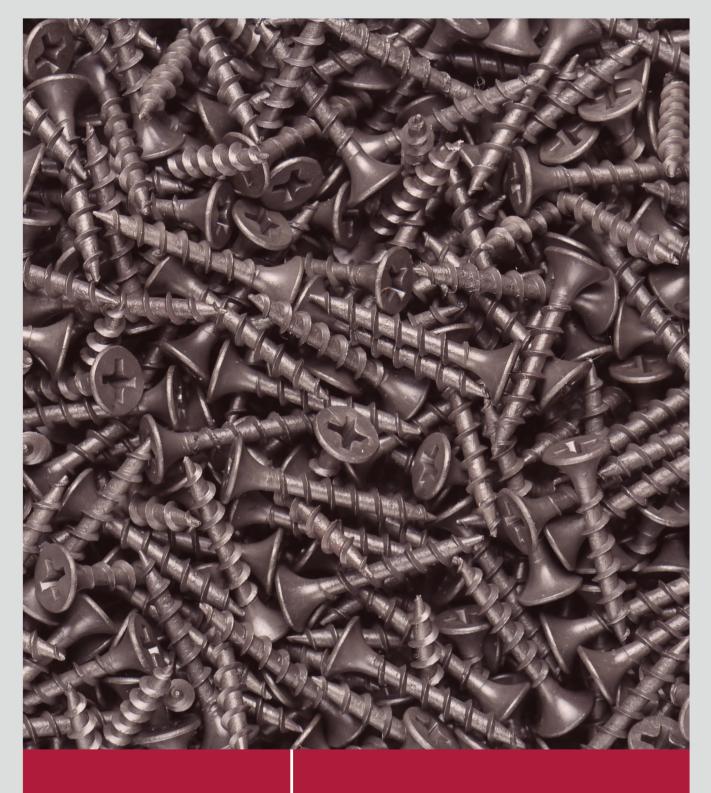


Double thread 12/14, also available in TPl20

Our Components, Your Key





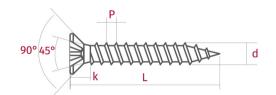


CHIPBOARD SCREWS & DRYWALL SCREWS



Chipboard Screws

Flat head Pozi Recess







d	dk [max]	k	х	р
M4	7.9	4.25	2	1.80
M4.5	8.9	4.60	2	2.00
M5	9.9	5.20	2	2.20
M6	11.9	6.00	3	2.60



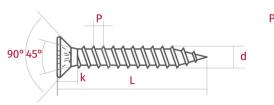
Size	Length [inch]	Length [mm]		
#0	25	#1"	50pcs/Belt	20Belt(1000pcs)/Box
#9 M4 . 5	30	1-3/16"	50pcs/Belt	20Belt(1000pcs)/Box
14.5	35	1-3/8"	50pcs/Belt	20Belt(1000pcs)/Box
	45	1-3/4"	50pcs/Belt	20Belt(1000pcs)/Box
#13	40	1-5/8"	50pcs/Belt	20Belt(1000pcs)/Box
M6.0	50	2"	50pcs/Belt	20Belt(1000pcs)/Box





Pozi Recess

Double Countersunk Head



POZI DRIVE[Z]

d	dk [max]	k	х	р
M3	5.9	3.20	1	1.35
M3.5	6.9	3.60	2	1.60
M4	7.9	4.25	2	1.80
M4.5	8.9	4.60	2	2.10
M5	9.9	5.20	2	2.20
M6	11.9	6.00	3	2.60

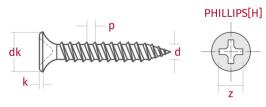


Size [mm]						Drill Point [m/m]	t	Drill Capacity [m/m]	
	12		12		16		25		25
	16		16		20		30		30
	18	_	20	_	25	-	35	-	35
	20	_	25	_	30	-	40	6.0 x	40
	25	_	30	_	35	5.0 x	45		45
3.0 x	30	3.5 x	35	4.0 x	40		50		50
3.0 x	35	- 3.3 x	40	- 1.0 x	50	- 3.0 x	60	- 0.0 x	60
	40	_	45	-	60	-	70	-	70
		_	50	_	70	-	80	-	80
				_	80	-		-	90
			_			-			100
			_						110

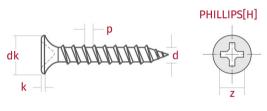


Drywall Screws

Bugle head philips Twinfast thread



d	dk [max]	k	Z	р
M3.5	8-8.4	0.8	No.2	1.49
M3.9	8-8.4	0.8	No.2	1.59
M4.8	8.8-9.2	0.8	No.2	2.12



d	dk [max]	k	z	р
M3.5	8-8.4	0.8	No.2	2.82
M3.9	8-8.4	0.8	No.2	2.82
M4.8	8.8-9.2	0.8	No.2	3.18









Phillips

Bugle head

d	dk [max]	k	z	р
M3.5	8-8.4	0.8	No.2	1.49
M3.9	8-8.4	8.0	No.2	1.59
M4.2	8-8.4	0.8	No.2	1.69
M4.8	8.8-9.2	8.0	No.2	2.12



d	dk [max]	k	z	р
M3.5	8-8.4	0.8	No.2	2.82
M3.9	8-8.4	0.8	No.2	2.82
M4.2	8-8.4	8.0	No.2	3.18
M4.8	8.8-9.2	8.0	No.2	3.18

41

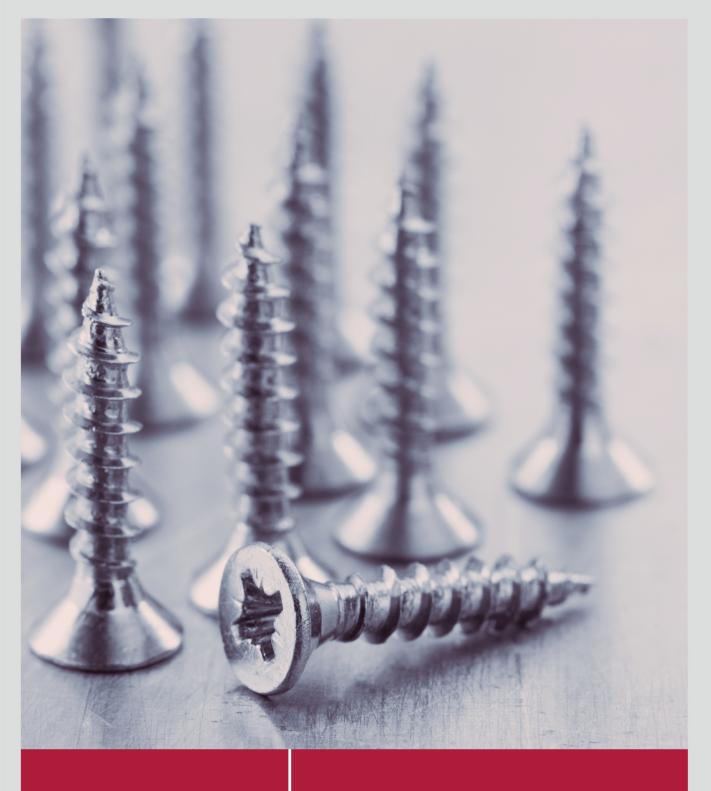


Size [mm]								
	19		25		32		38	
	25		32		38		50	
	28		35	_	50		75	
3.5 x	32	3.9 x	38	4.2 x	63	4.8 x	90	
	35		41		75		100	
	38		45		80		110	

50

	3/4"		1"	#8×	1-1/4"		1-1/2"
	1"		1-1/4"		1-1/2"	#10×	2"
#6 ×	1-1/8"		1-3/8"		2"		3"
	1-1/4"	#7×	1-1/2"		2-1/2"		3-1/2"
• x	1/3/8"		1-5/8"	• ×	3"	10x	4"
	1-1/2"		1-3/4"		3-5/32"		4-5/16"
	1-5/8"		2"		3-1/2"		

90



STAINLESS STEEL SCREWS



Hex Washer Head



Size [mm]				Size [inch]			
	16		16		5/8"		5/8"
	19		19		3/4"	#14 x	3/4"
	25		25	_	1"		1"
	32		32		1-1/4"		1-1/4"
5.5 x	38	6.3 x	38	#12 x	1-1/2"		1-1/2"
	50	-	45	-	2"		1-3/4"
	63	-	50	-	2-1/2"		2"
	75	-	63	-	3"	-	2-1/2"
	90	-	75	-	3-1/2"		3"





Square

Tapping Screw

Phillips or Pozi Recess **DIN 7982 Flat Head**

Phillips or Pozi Recess

DIN 7981 Pan Head



Slot

DIN 7972 Flat Head



Phillips or Pozi Recess

DIN 7983 Oval Head



Phillips or Pozi Recess

DIN 7971 Oval Head

Size [mm]

	6.5		9.5	9.5			9.5		9.5		16		19
	9.5		13		13		13		13		19		25
			16		16	16	16		16	5.5 x	25	6.3 x _	32
2.9 x	16	3.5 x	19	3.9 x	19 4.	4.2 x	19	4.8 x	19		32		38
	19		25			_	25		25		38		45
							32		32		45		50
						_			38		50		

Size [inch]

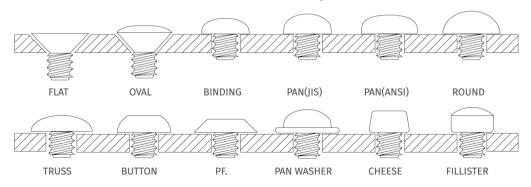
	1/4"		3/8"		3/8"		3/8"	#10×	3/8"		5/8"		3/4"
	3/8"		1/2"		1/2"		1/2"		1/2"		3/4"		1"
#4×	1/2"		5/8"		5/8"		5/8"		5/8"	#12 x	1"		1-1/4"
	5/8"		3/4"	#7 ×	#7 x 3/4"	#8 x	3/4"		3/4"		1-1/4"	#14×	1-1/2"
	3/4"		1"		1"		1"		1"		1-1/2"	- - -	1-3/4"
					_		1-1/4"		1-1/4"		1-3/4"		2"
	_		_						1-1/2"	-	2"		3"



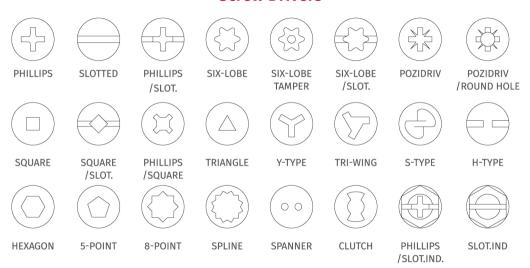




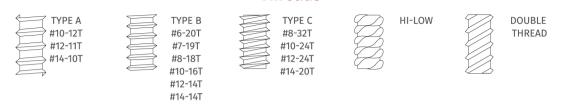
Screws Head Styles



Screw Drivers



Threads



Points



Plating



Mechanical Data I

Material	Steel Grade		Chemical Composition [PCT]				Mechanical Properties		
		С	Si	Mn	Р	S	ΑI	Tensile Strength	Percentage Peduction
Carbon Steel	C1022A	10-2	10-2	10-2	10 ⁻³	10 ⁻³	10 ⁻³	(MPa)	Of Area(%)
		20	3	82	15	7	44	492	65

Suggested Material Thickness For Steel Application

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

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



Mechanical Data II

Ruspert Coating - Super Anti-corrosion

What is Ruspert Coating?

Ruspert treatment is a high-grade anti-corrosion metal surface treatment technology that forms a combined film by chemical reaction among each layer. It does not attribute its good anti-corrosion performance to merely a single film as ordinary metal surface treatment. It provides superior corrosion resistance by combined film.

It consists of three layers:

A metallic zine layer

A high grade anti-corrosion chemical conversion film

A baked ceramic surface 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 films. Greatly improves the anti-corrosion performance of traditional hot-dip galvanizing and electroplating. Moreover, various colors can be provided to match the surrounding landscape.

Ruspert is a combination of electroplating and coating, which can be widely used in different conditions.





Quality Assurance

Quality Inspection Process

AYA has a professional QC team with over 30 experienced technicians and 10 senior fasteners experts. Meanwhile, an advanced fasteners laboratory with multiple testing instruments has also been established to ensure the high quality of the raw materials and final products.



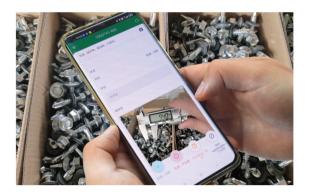


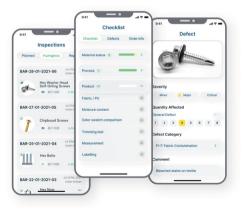
Quality Assurance

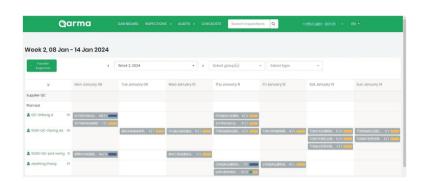
Digital Quality Inspection System: QARMA

At AYA Fasteners, we prioritize quality and safety performance in every product we deliver. To uphold our commitments to quality, we have integrated the advanced digital quality inspection tool, **QARMA**, into our manufacturing process.

By incorporating **QARMA** into our quality inspection process system, AYA Fasteners ensures our product's ability to maintain and uphold the highest standards across all stages of production, delivering visible quality and performance to our customers.











Certifications

AYA Fasteners is committed to delivering high-quality and secure products to our customers. We have achieved certifications of ISO9001: 2015, ISO14001: 2015, ISO45001: 2018, etc.

Quality guarantee and product testing are vital parts of fastener production. In AYA Fasteners, we have strict internal quality control system, professional QC team, and advanced equipment to ensure that all products can fully meet our customers' requirements and international standards.











Packaging

Packaging is important for product preservation as well as safety. AYA Fasteners has constantly developing diverse packaging solutions, such as polybag packing, plastic box, bucket packaging, box packaging, and cardboard packing, to keep products intact during the shipment process. We offer a wide range of packaging solutions to meet different customer needs and preferences. OEM services are also supported by AYA on labels.

Meanwhile, the mature warehousing system, the logistics system, and the digital quality inspection system ensure that goods delivery is highly efficient, secure, and on-time.



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