

QINGDAO MAGIC ANDY HARDWARE CO.,LTD



INNOVATION QUALITY INTEGRITY



QINGDAO MAGIC ANDY HARDWARE CO.,LTD

Fasteners Product Catalogue

Products in the World



Company Introduction

Qingdao magicandy hardware co.,ltd. is a leader group of hardwares , our goods supplied to more than 70 countries in the world and famous for high quality and low price in American market, South American market, Asia market,Africa market, Middle East market...

we have our own HAI YAN GOLD DRAGON FASTENERS factories of all the fasteners with DIN standard, ANSI standard, BS standard and ISO standard, we produce all kinds of:

- 1. Drywall screws: tapping/drilling point, bugle head/pan framing head, coarse thread/fine thread, phosphate/galvanized;
- 2. Chipboard screws: tapping/type17 point, CSK head with/without nibs, galvanized;
- 3. Deck screws: tapping/type17 point, bugle head/CSK head/hex head, Ruspert Coated over than 1000hours salt spray test
- 4. Hex head screws: self drilling/self tapping, hex head with EPDM and metal washer/flange head with plastic washer, galvanized;
- 5. Other self tapping and self drilling screws: countersunk head/ pan head/ flat head/ Truss head/ oval head/ wafer head/ pan framing head...;
- 6. Concrete screws or bolt: tapping/diamond point, Ruspert Coated over than 1000hours salt spray test
- 7. Blind rivet and nut: blind rivets, big flange blind rivets, open end blind rivets, colored blind rivets...
- 8. Nails: common nails, concrete nails, roofing nails, fence staples, Landscape Garden Staples, drive pins, coil nails...
- 9. Bolts, nuts and washer: hex head bolts with full/half thread, carriage bolts, hex nut, thread rod... self color/black/galvanized;
- 10. Anchors: heavy duty anchor, drop in anchor, sleeve anchor, hollow wall anchor, wedge anchor, Nylon/PVC/metal frame anchor, Lag screw shields...

We have good experience to co-operate with chain stores, distributors, whole sales and factories. We also have our own company and warehouse in Dallas, TX. It will be quite nice if you can give us a chance to cooperate with you and I am sure our products and service can make your satisfaction!

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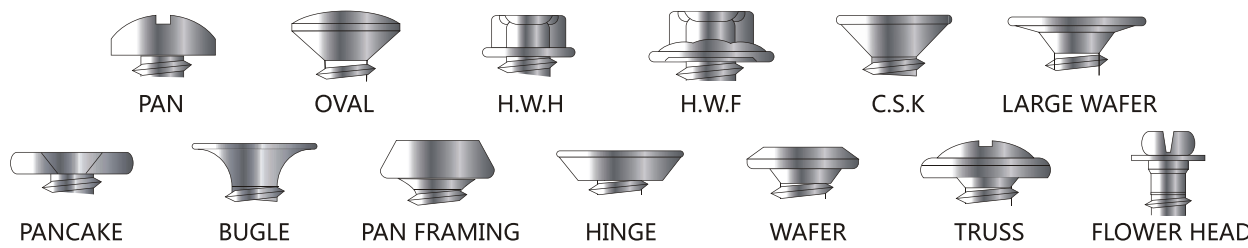
Glass Clamps



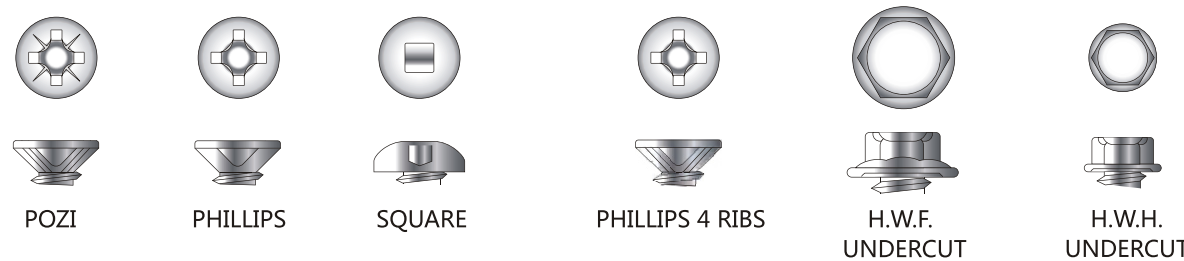
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Screw Data

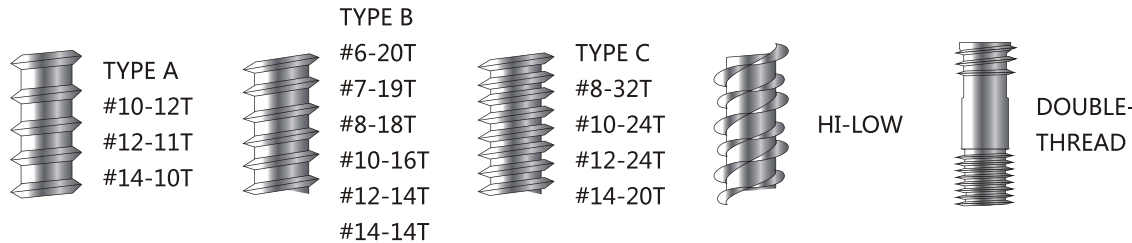
Head Styles



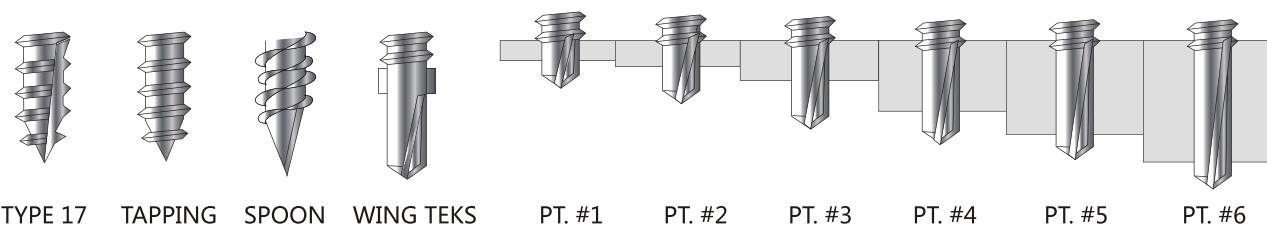
Head Recess



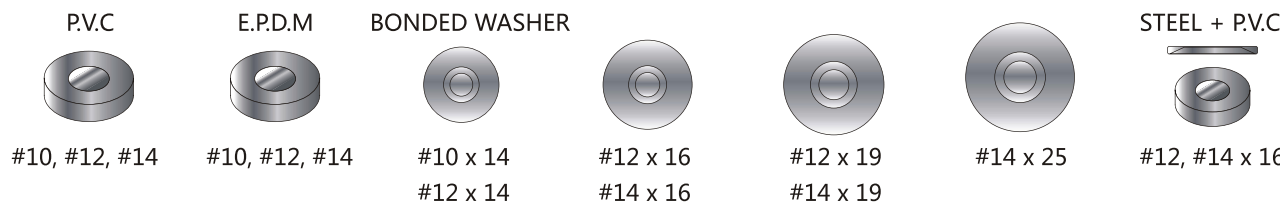
Threads



Points



Washer



Plating

PL : Plain	KP : Black Phosphated	BO : Black Oxide	RS : Ruspert
YZ : Yellow Zinc	BP : Grey Phosphated	DC : Dacrotized	XY : Xylan
ZN : Zinc	BZ : Black Zinc		

Fine Thread



Material

CS

Carbon Steel

SS

Stainless Steel

Plated

KP

Black Phosphated

ZN

White Zinc-plated

Point

Tapping

Coating

RS

Ruspert

MG

Magni

DC

Dacromet

Applications

- Plywood fascial to steel frames
- Fixed and assemble furniture
- Assemble with thin steel plate and gypsum board

Features

- Bugle head can be seated flush in wood
- Phosphate coated and long time preserve
- Sharp point and fast drilling

Recess

Phillips / Square / Torx

d	L (inch)	L (mm)
#6 M3.5	1/2"	13
	3/4"	19
	1"	25
	1-1/4"	32
	1-1/2"	38
	2"	50
#7 M3.9	3/4"	19
	1"	25
	1-1/4"	32
	1-1/2"	38
	2"	50
	2-1/2"	63

d	L (inch)	L (mm)
#8 M4.2	3/4"	19
	1"	25
	1-1/4"	32
	1-1/2"	38
	2"	50
	2-1/2"	63
#10 M4.8	3"	75
	1"	25
	1-1/4"	32
	1-1/2"	38
	2"	50
	2-1/2"	63
	3"	75
	3-1/2"	89
4"	101	

Drilling Point



Material

CS

Carbon Steel

SS

Stainless Steel

Plated

KP

Black Phosphated

ZN

White Zinc-plated

Point

DP3

Drill point #3

Coating

RS

Ruspert

MG

Magni

DC

Dacromet

Applications

- Using for stitching wood to metal
- Using in flat surface required
- Using in pre-drilled hole for fitting

Features

- Precise cutting edges to improve drill preformance
- Bugle head can be seated flush in wood
- Phosphate coated and long time preserve

Recess

Phillips / Square / Torx

d	L (inch)	L (mm)
#6 M3.5	1/2"	13
	3/4"	19
	1"	25
	1-1/4"	32
	1-1/2"	38
	2"	50
#7 M3.9	3/4"	19
	1"	25
	1-1/4"	32
	1-1/2"	38
	2"	50
	2-1/2"	63

d	L (inch)	L (mm)
#8 M4.2	3/4"	19
	1"	25
	1-1/4"	32
	1-1/2"	38
	2"	50
	2-1/2"	63
#10 M4.8	3"	75
	1"	25
	1-1/4"	32
	1-1/2"	38
	2"	50
	2-1/2"	63
	3"	75
	3-1/2"	89
4"	101	

Coarse Thread



Material

CS

Carbon Steel

SS

Stainless Steel

Plated

KP

Black Phosphated

ZN

White Zinc-plated

Point

Tapping

Coating

RS

Ruspert

MG

Magni

DC

Dacromet

Applications

- Plywood fascial to steel frames
- Fixed and assemble furniture
- Assemble with keel and wood

Features

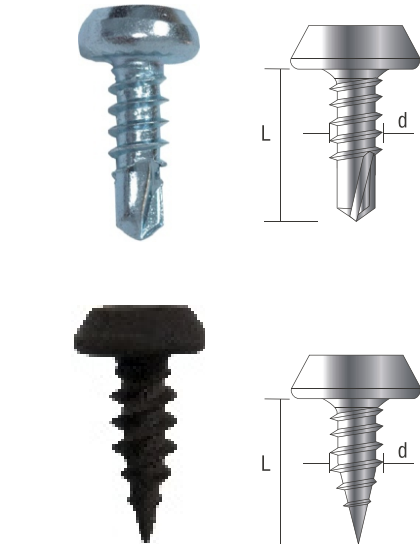
- Bugle head can be seated flush in wood
- Phosphate coated and long time preserve
- Sharp point and fast drilling

Recess

Phillips / Square / Torx

d	L (inch)	L (mm)	d	L (inch)	L (mm)
#6 M3.5	1/2"	13	#10 M4.2	1"	25
	3/4"	19		1-1/4"	32
	1"	25		1-1/2"	38
	1-1/4"	32		2"	50
	1-1/2"	38		2-1/2"	63
	2"	50		3"	75
#7 M3.9	3/4"	19	#12 M4.8	3-1/2"	89
	1"	25		4"	101
	1-1/4"	32		1-1/2"	38
	1-1/2"	38		2"	50
	2"	50		2-1/2"	63
	2-1/2"	63		3"	75
#8 M4.2	3/4"	19	#14 M6.3	3-1/2"	89
	1"	25		4"	101
	1-1/4"	32		1-1/2"	38
	1-1/2"	38		2"	50
	2"	50		2-1/2"	63
	2-1/2"	63		3"	75
3"		75	3-1/2"		89
			4"		101

Pan Framing Head



Material

CS

Carbon Steel

Plated

KP

Black Phosphated

ZN

White Zinc-plated

Point

DP3

Drill point #3

Tapping

Coating

RS

Ruspert

MG

Magni

DC

Dacromet

Applications

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

Features

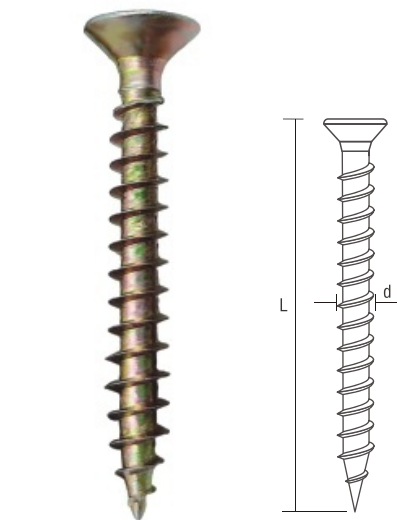
- Pan head design on purpose using
- Non-walking point provides fast material engagement

Recess

Phillips

d	L (inch)	L (mm)
#6 M3.5	7/16"	11
#7 M3.9	7/16"	11
#8 M4.2	7/16"	11
	1/2"	13

Double CSK Head



Material

CS

SS

Carbon Steel

Stainless Steel

Plated

YZ

ZN

CR

NI

Yellow Zinc-plated

White Zinc-plated

Chrome Zinc-plated

Nickel-plated

Point

RS

Tapping

Coating

MG

DC

Ruspert

Magni

Dacromet

Applications

- Wood mansard to steel frames
- Fixed and assemble furniture
- Assemble with keel and wood

Features

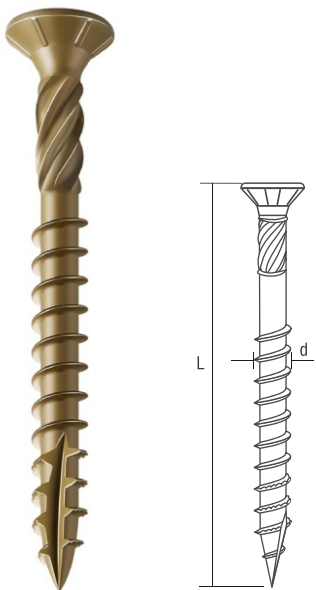
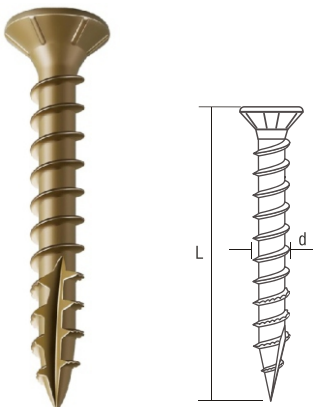
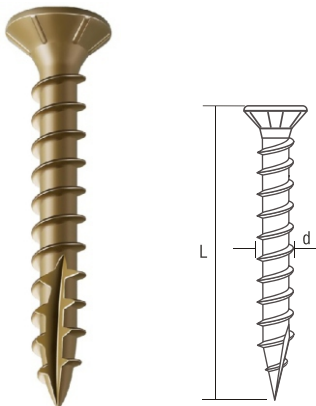
- Double countersunk head is suitable for wood
- Zinc plated coating
- Sharp point and fast drilling

Recess

Pozi / Phillips / Square / Torx

d (mm)	L (mm)	d (mm)	L (mm)	d (mm)	L (mm)
M3	12	M4	16	M5	25
	16		20		30
	18		25		35
	20		30		40
	25		35		45
	30		40		50
	35		45		60
M3.5	40	M4.5	50	M6	70
	12		60		80
	16		70		25
	20		80		30
	25		20		35
	30		25		40
	35		30		45
	40		35		50
	45		40		60
	50		45		70
			50		80
			60		90
			70		100
			80		110

Double CSK Head
With 6 Nibs



Material

CS

SS

Carbon Steel

Stainless Steel

Plated

ZN

YZ

CR

NI

White Zinc-plated

Yellow Zinc-plated

Chrome Zinc-plated

Nickel-plated

Point

RS

Type-17

Coating

MG

DC

Ruspert

Magni

Dacromet

Applications

- Wood mansard to steel frames
- Fixed and assemble furniture or windows
- Use for attaching particle board to wood

Features

- Type 17 point drilling out sawdust
- Nibs under the head, extra stronger
- Can add saw thread, easy for drilling

Recess

Pozi / Phillips / Square / Torx

d	L (inch)	L (mm)
#8 M4.2	3/4"	19
	1"	25
	1-1/4"	32
	1-1/2"	38

d	L (inch)	L (mm)
#9 M4.5	1"	25
	1-1/4"	32
	1-1/2"	38
#10 M4.8	1-1/2"	38
	1-3/4"	45
	2"	50

Applications

- Use for attaching hardwood to wood
- Fixed and assemble furniture or windows
- Wood mansard to steel frames

- Type 17 point, "U" thread, reduce stress
- Nibs under the head, extra stronger
- Can add saw thread, easy for drilling

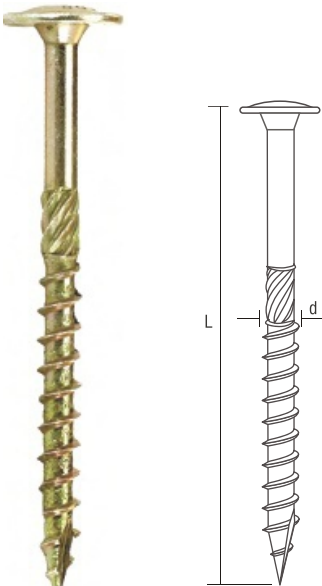
Recess

Pozi / Phillips / Square / Torx

d	L (inch)	L (mm)
#8 M4.2	1-5/8"	41
	2"	50
	2-1/2"	63
	3"	75
	3-1/2"	90
	4"	100
	4"	100
#9 M4.5	1-3/4"	45
	2"	50
	2-1/2"	63
	3"	75
	3-1/2"	90

d	L (inch)	L (mm)
#10 M4.8	2-1/2"	63
	3"	75
	3-1/2"	90
	4"	100
	5"	125
	6"	150
#12 M5.5	2-1/2"	63
	3"	75
	3-1/2"	90
	4"	100

Large Wafer Head With Torx
Heavy Duty CHipboard Screw



Material

CS

Carbon Steel

Plated

ZN

YZ

CR

NI

White Zinc-plated

Yellow Zinc-plated

Chrome Zinc-plated

Nickel-plated

Point

RS

Type-17

Coating

MG

DC

Ruspert

Magni

Dacromet

Applications

- Use for attaching hardwood to hardwood
- Fixed and assemble furniture
- Wood mansard to steel frames

Features

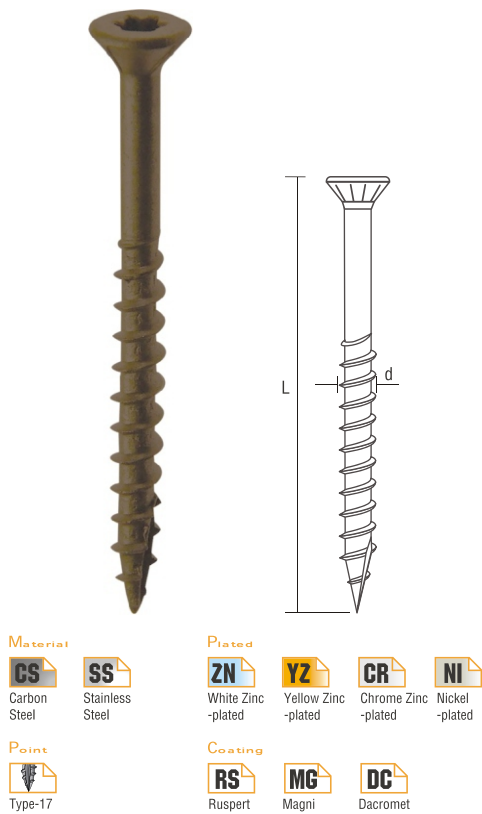
- Larher wafer, special for construction
- Type 17 point, "U" thread, reduce stress

Recess

Pozi / Phillips / Square / Torx

d	L (inch)	L (mm)	d	L (inch)	L (mm)
#10 M4.8	2"	50	#14 M6.3	2"	50
	2-1/2"	63		2-1/2"	63
	3"	75		3"	75
	3-1/2"	90		3-1/2"	90
	4"	100		4"	100
#12 M5.5	2"	50		4-1/2"	112
	2-1/2"	63		5"	125
	3"	75		6"	150
	3-1/2"	90		8"	200
	4"	100		10"	250

Double CSK Head



Applications

- Use for attaching hardwood to hardwood
- Exterior wood screw used on fencing, decks, patios
- High rust prevention ability

Features

- Nibs under the head, extra stronger
- Type 17 point drilling out sawdust
- At least 1000hrs salt spray test

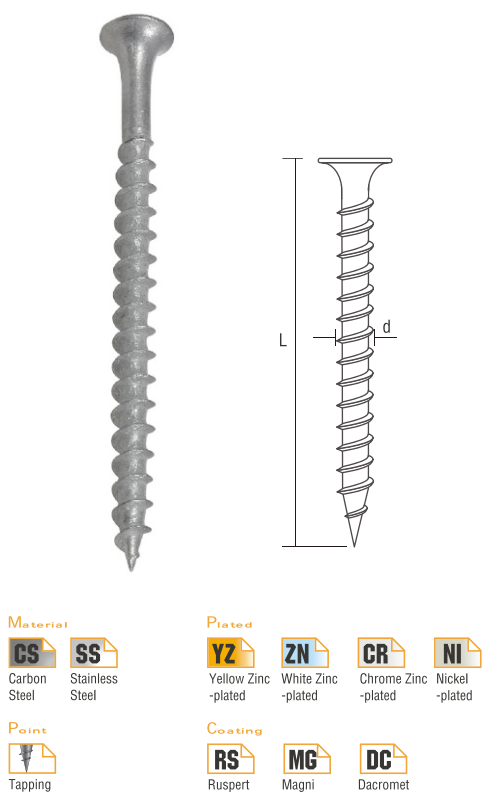
Recess

Torx / Phillips / Square

d	L (inch)	L (mm)
#8 M4.2	1-1/4"	31
	1-1/2"	38
	2"	50
	2-1/2"	63
	3"	75

d	L (inch)	L (mm)
#9 M4.8	2-1/2"	63
	3"	75
	3-1/2"	89
#10 M5.5	4"	100
	4-1/2"	112
	5"	125
	6"	150

Bugle Head



Applications

- Exterior wood screw used on fencing, decks, patios
- High rust prevention ability

Features

- Coarse thread, easy attached wood to wood
- Bugle head can be seated flush in wood
- At least 1000hrs salt spray test

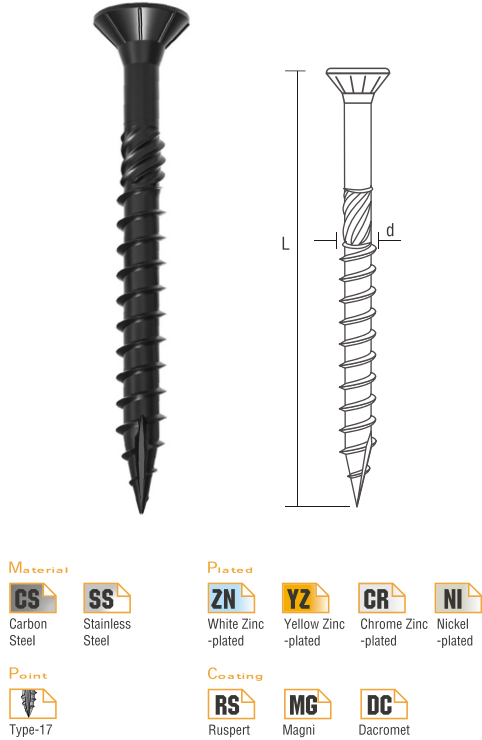
Recess

Torx / Phillips / Square

d	L (inch)	L (mm)
#6 M3.5	1"	25
	1-1/4"	31
	1-1/2"	38
	2"	50
	2-1/2"	63
#8 M4.2	3"	75
	3-1/2"	89
	4"	100
	4-1/2"	112

d	L (inch)	L (mm)
#9 M4.8	2-1/2"	63
	3"	75
	3-1/2"	89
#10 M5.5	4"	100
	4-1/2"	112
	5"	125
	6"	150

Double CSK Head
With Twist Shank



Applications

- Use for attaching hardwood to hardwood
- Exterior wood screw used on fencing, decks, patios
- High rust prevention ability

Features

- Nibs under the head, extra stronger
- Type 17 point, "U" thread, reduce stress
- At least 1000hrs salt spray test

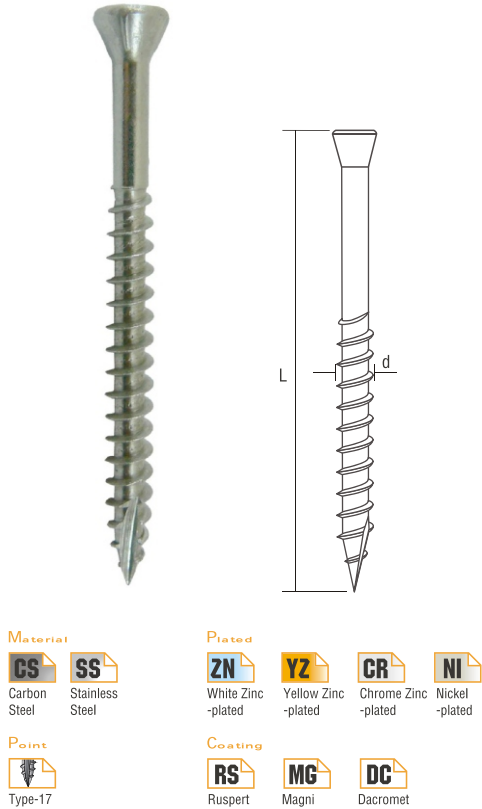
Recess

Torx / Phillips / Square

d	L (inch)	L (mm)
#8 M4.2	1"	25
	1-1/4"	32
	1-1/2"	38
	1-5/8"	41
	2"	50
	2-1/2"	63
	3"	75
	3-1/2"	90
	4"	100
	4-1/2"	112
#9 M4.5	1-3/4"	45
	2"	50
	2-1/2"	63
	3"	75
	3-1/2"	90
	4"	100

d	L (inch)	L (mm)
#10 M4.8	1-1/2"	38
	1-3/4"	45
	2"	50
	2-1/2"	63
	3"	75
	3-1/2"	90
	4"	100
	5"	125
	6"	150
	6-1/2"	165

Trim Head



Applications

- Use for attaching hardwood to hardwood
- Attaches outdoor floor to wood sheet
- High rust prevention ability

Features

- Type 17 point drilling out sawdust
- Trim head can be seated flush in wood
- At least 1000hrs salt spray test

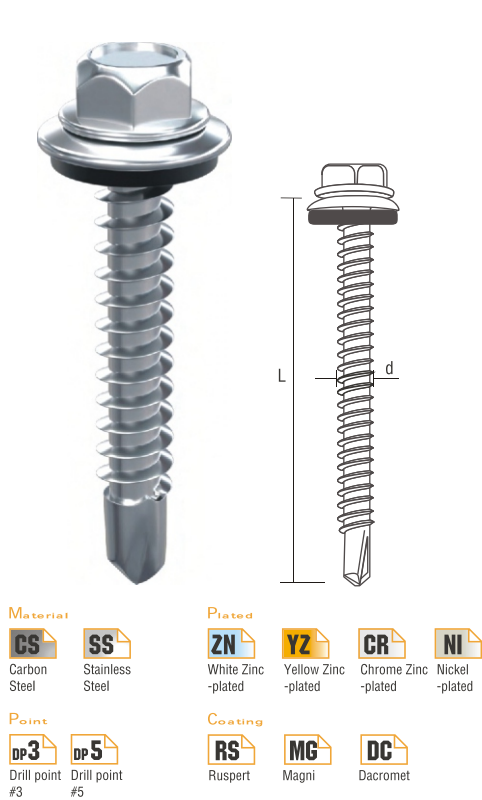
Recess

Torx / Square

d	L (inch)	L (mm)
#8 M4.2	1-1/4"	31
	1-5/8"	41
	2"	50
	2-1/2"	63
	3"	75

d	L (inch)	L (mm)
#10 M4.8	3-1/2"	90
	4"	100
	4-1/2"	112
	5"	125
	6"	150

Drilling Point



Applications

- For light / medium duty purpose
- Stitch rood deck and wall panel sidelaps
- Residential steel frame construction
- Brick ties to steel framing

Features

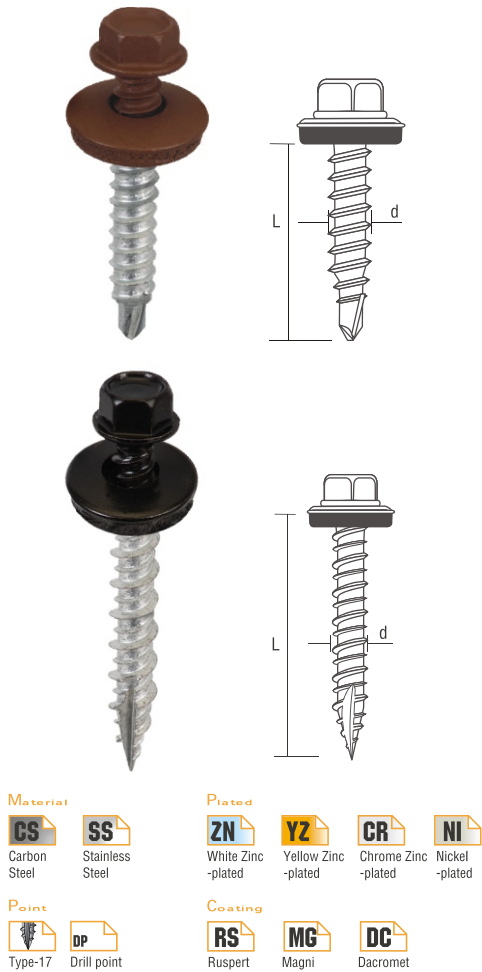
- Unique point to thread design extrudes the metal preventing stripout
- Point to thread design maximize pullout performance and minimizes backout

Suggested application thickness

Point #3 <5mm #5 <12mm

d	L (inch)	L (mm)
#10 M4.8	3/4"	19
	1"	25
	1-1/4"	32
	1-1/2"	38
	2"	50
#12 M5.5	2-1/2"	63
	3/4"	19
	1"	25
	1-1/4"	32
	1-1/2"	38
#14 M6.3	2"	50
	2-1/2"	63
	3"	75
	4"	100
	5"	125

Painted Head



Applications

- For light / medium duty purpose
- Stitch roof deck and wall panel sidelaps
- Residential steel frame construction
- Brick ties to steel framing

Features

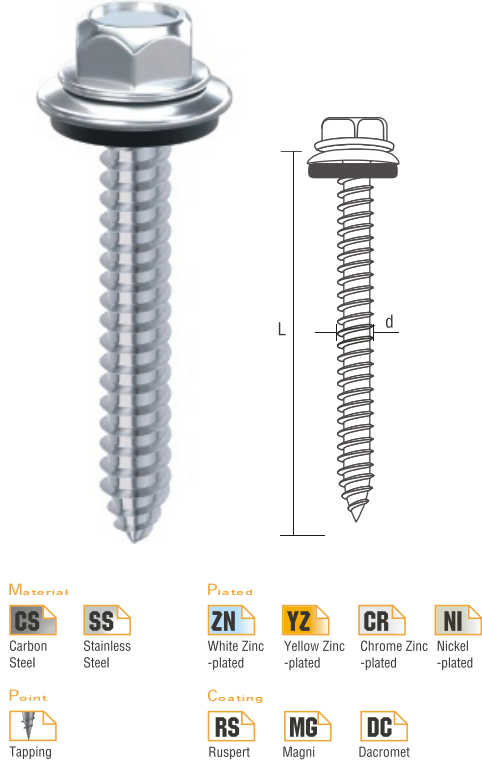
- Painted head can be matched different color roofing
- Can be made with Type 17 point, drilling out sawdust
- Can be made with hi-low thread, provides smooth power for drilling

Suggested application thickness

- Point #3 <5mm #5 <12mm
- Reduced point < 1.6mm

d	L (inch)	L (mm)
#9 M3.9	1"	25
	1-1/4"	32
	1-1/2"	38
	2"	50
	2-1/2"	63
#10 M4.8	3"	75
	1"	25
	1-1/2"	38
	2"	50
	2-1/2"	63
#12 M5.5	3"	75
	4"	100
	1"	25
	1-1/2"	38
	2"	50
#14 M6.3	2-1/2"	63
	3"	75
	4"	100
	1"	25
	1-1/2"	38

Tapping Point



Applications

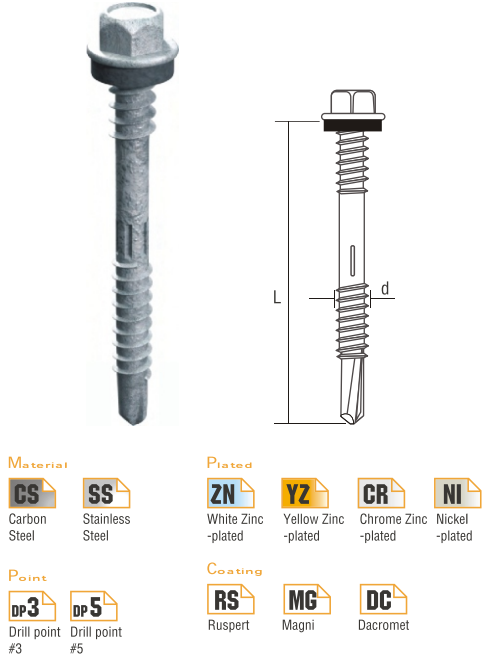
- For light / medium duty purpose
- Assemble with light steel and wood

Features

- Assure fast action and reduce driving torque
- Slove strip-out problem

d	L (inch)	L (mm)
#10 M4.8	3/4"	19
	1"	25
	1-1/4"	32
	1-1/2"	38
	2"	50
#12 M5.5	2-1/2"	63
	3/4"	19
	1"	25
	1-1/4"	32
	1-1/2"	38
#14 M6.3	2"	50
	2-1/2"	63
	3"	75
	4"	100
	5"	125

Double Thread



Applications

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

Features

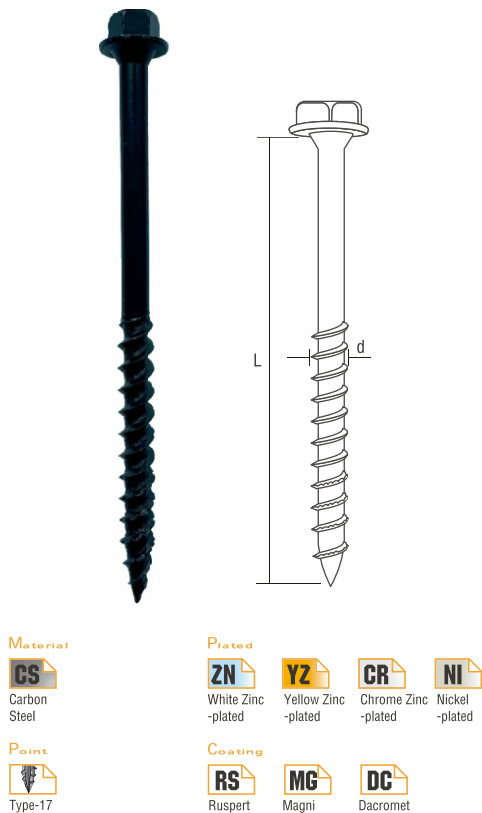
- Engineered for fast and smooth drilling with less effort
- dual thread, system that provides positive support to roofing profiles and secures a watertight seal between fastener and roofing sheet during crest fixing

Suggested application thickness

Point #3 <5mm #4 <8mm #5 <12mm

d	L (inch)	L (mm)
#12 M5.5	2-3/8"	60
	3-5/32"	80
	4"	100
	5"	125
	6"	150
#14 M6.3	7"	175
	8"	200
	10"	250
	11"	275

Drilling Point



Applications

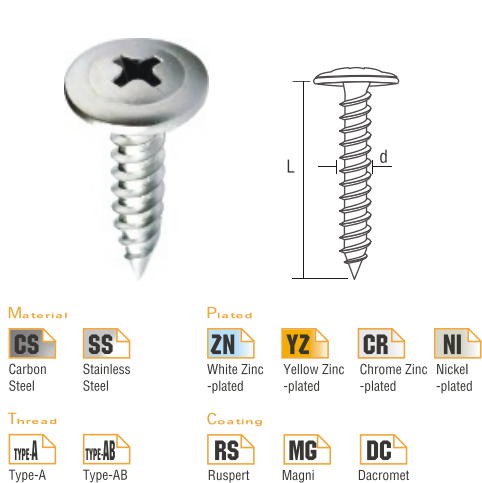
- For heavy duty purpose
- Use for landscaping, timbers, log construction, log homes, fencing, and many other exterior applications

Features

- Manufactured from high quality heat treated steel almost eliminates screws breakage
- Passed the challenging 1000 hour salt spray test without failure
- Quality wood screw threads require less torque to drive the screw and provide maximum holding power

d	L (inch)	L (mm)
#10 M4.8	1-1/2"	38
	2"	50
	2-1/2"	63
	3"	75
	3-1/2"	89
#12 M5.5	4"	100
	1-1/2"	38
	2"	50
	2-1/2"	63
	3"	75
#14 M6.3	3-1/2"	89
	4"	100
	5"	125
	6"	150
	8"	200
#16 M8	10"	250
	1-1/2"	38
	2"	50
	2-1/2"	63
	3"	75

Truss Head



Applications

- Residential steel frame construction
- Use in object like polycarbonate sheet, shadow cover

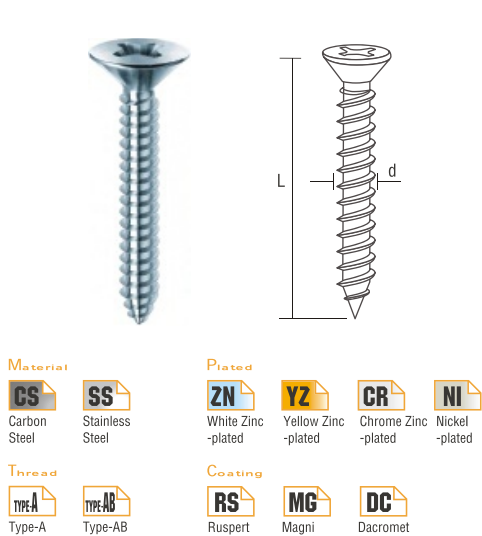
Features

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

Recess

d	L (inch)	L (mm)
#8 M4.2	1/2"	13
	3/4"	19
	1"	25
	1-1/4"	32
	1-1/2"	38
#10 M4.8	2"	50
	1/2"	13
	3/4"	19
	1"	25
	1-1/4"	32
#12 M5.5	1-1/2"	38
	2"	50
	1/2"	13
	3/4"	19
	1"	25

Counter sunk Head



Applications

- Using in Aluminum windows
- Using in integration roof

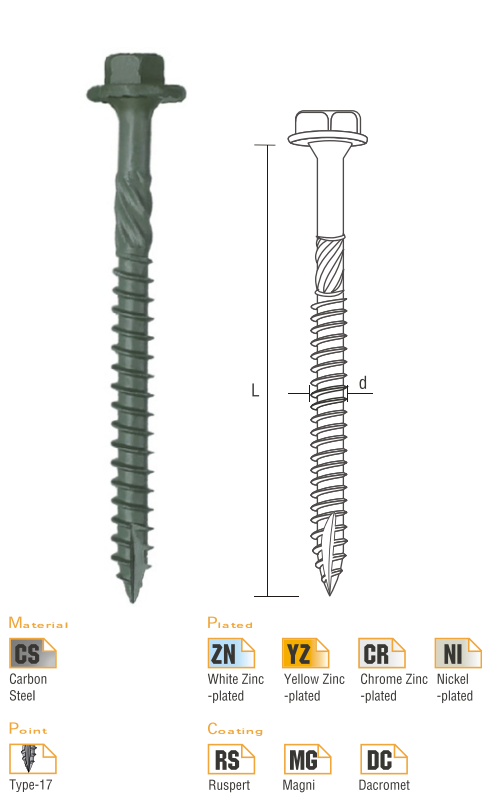
Features

- CSK head design on purpose using
- Can be made different surface

Recess

d	L (inch)	L (mm)
#6 M3.5	1/2"	13
	3/4"	19
	1"	25
	1-1/4"	32
	1-1/2"	38
#8 M4.2	2"	50
	1/2"	13
	3/4"	19
	1"	25
	1-1/4"	32
#10 M4.8	1-1/2"	38
	2"	50
	1/2"	13
	3/4"	19
	1"	25
#12 M5.5	1-1/4"	32
	1-1/2"	38
	2"	50
	1/2"	13
	3/4"	19

Tapping Point



Applications

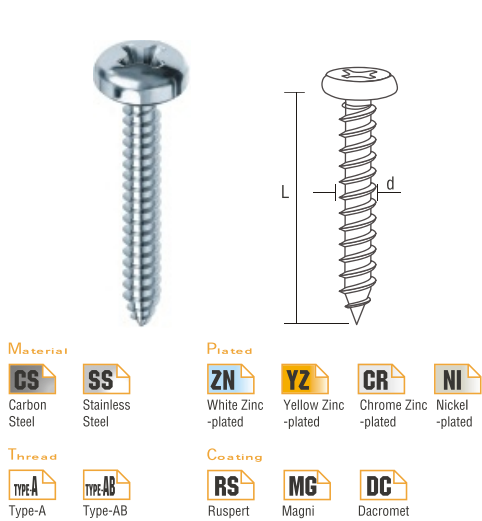
- For heavy duty purpose
- Perfect for outdoor, home, and industrial projects, including deck building, log construction, and timber framing

Features

- Manufactured from high quality heat treated steel almost eliminates screws breakage
- Passed the challenging 1000 hour salt spray test without failure
- Hexagon head and knurled shank design reduce torque, preventing wood cracking while ensuring smooth installation.
- No pre-drilling needed, they're removable and reusable for maximum ease

d	L (inch)	L (mm)
#10 M4.8	1-1/2"	38
	2"	50
	2-1/2"	63
	3"	75
	3-1/2"	89
#12 M5.5	4"	100
	1-1/2"	38
	2"	50
	2-1/2"	63
	3"	75
#14 M6.3	3-1/2"	89
	4"	100
	5"	125
	6"	150
	8"	200
#16 M8	10"	250
	1-1/2"	38
	2"	50
	2-1/2"	63
	3"	75

Pan Head



Applications

- Using in Aluminum windows
- Using in integration roof

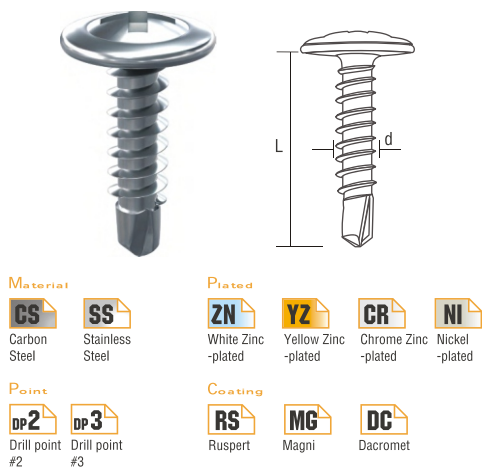
Features

- Pan head design on purpose using
- Can be made different surface

Recess

d	L (inch)	L (mm)
#6 M3.5	1/2"	13
	3/4"	19
	1"	25
	1-1/4"	32
	1-1/2"	38
#8 M4.2	2"	50
	1/2"	13
	3/4"	19
	1"	25
	1-1/4"	32
#10 M4.8	1-1/2"	38
	2"	50
	1/2"	13
	3/4"	19
	1"	25
#12 M5.5	1-1/4"	32
	1-1/2"	38
	2"	50
	1/2"	13
	3/4"	19

Truss Head



Applications

- Residential steel frame construction
- Use in object like polycarbonate sheet, shadow cover

Features

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

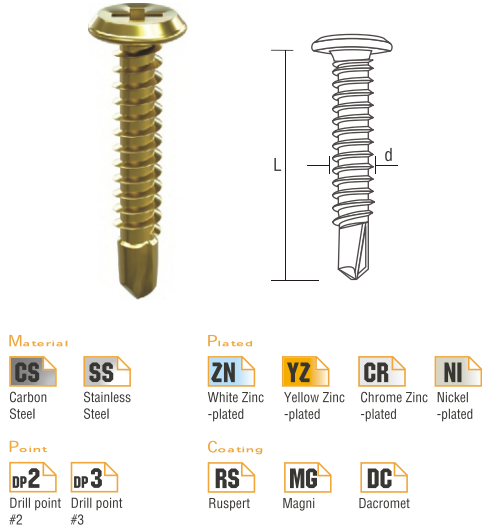
Recess

Point #2 <2mm Point #3 <5mm

d	L (inch)	L (mm)
#8 M4.2	1/2"	13
	3/4"	19
	1"	25
	1-1/4"	32
	1-1/2"	38
	2"	50

d	L (inch)	L (mm)
#10 M4.8	1/2"	13
	3/4"	19
	1"	25
	1-1/4"	32
	1-1/2"	38
	2"	50

Wafer Head



Applications

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

Features

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

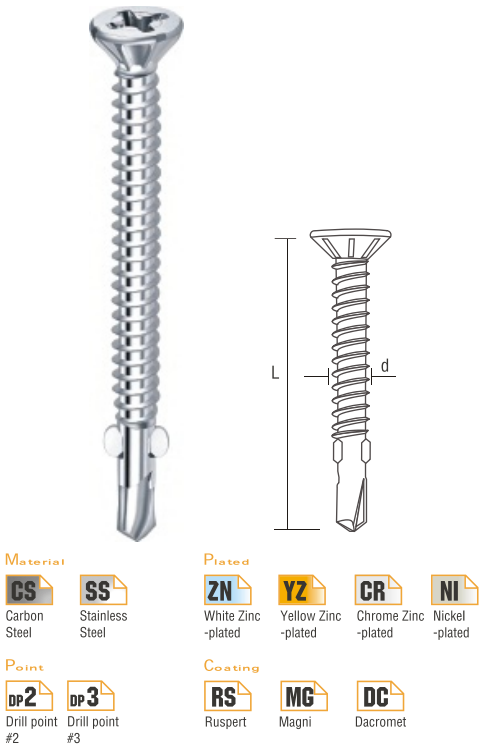
Recess

Point #2 <2mm Point #3 <5mm

d	L (inch)	L (mm)
#8 M4.2	1/2"	13
	3/4"	19
	1"	25
	1-1/4"	32
	1-1/2"	38
	2"	50

d	L (inch)	L (mm)
#10 M4.8	1/2"	13
	3/4"	19
	1"	25
	1-1/4"	32
	1-1/2"	38
	2"	50

Countersunk Head With Ribs And Wings



Applications

- Wood mansard to steel frames
- Plywood fascial 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
- Special winged fasteners ream a hole in wood
- Preventing thread engagement during drilling

Recess

Point #2 <2mm Point #3 <5mm

d	L (inch)	L (mm)
#6 M3.5	1/2"	13
	3/4"	19
	1"	25
	1-1/4"	32
	1-1/2"	38
#8 M4.2	1/2"	13
	3/4"	19
	1"	25
	1-1/4"	32
	1-1/2"	38
	2"	50

d	L (inch)	L (mm)
#10 M4.8	1/2"	13
	3/4"	19
	1"	25
	1-1/4"	32
	1-1/2"	38
	2"	50

Pan Head



Applications

- Skin sheet to steel
- Residential steel frame construction
- For lighth duty purpose

Features

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

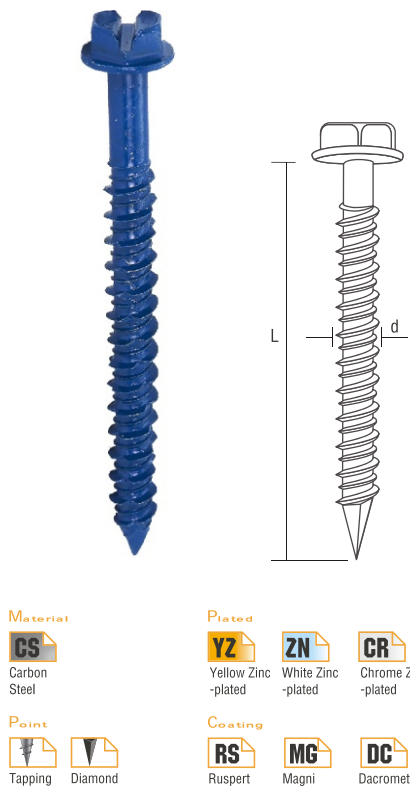
Recess

Point #2 <2mm Point #3 <5mm

d	L (inch)	L (mm)
#6 M3.5	1/2"	13
	3/4"	19
	1"	25
	1-1/4"	32
	1-1/2"	38
#8 M4.2	1/2"	13
	3/4"	19
	1"	25
	1-1/4"	32
	1-1/2"	38
	2"	50

d	L (inch)	L (mm)
#10 M4.8	1/2"	13
	3/4"	19
	1"	25
	1-1/4"	32
	1-1/2"	38
	2"	50

Hex Head

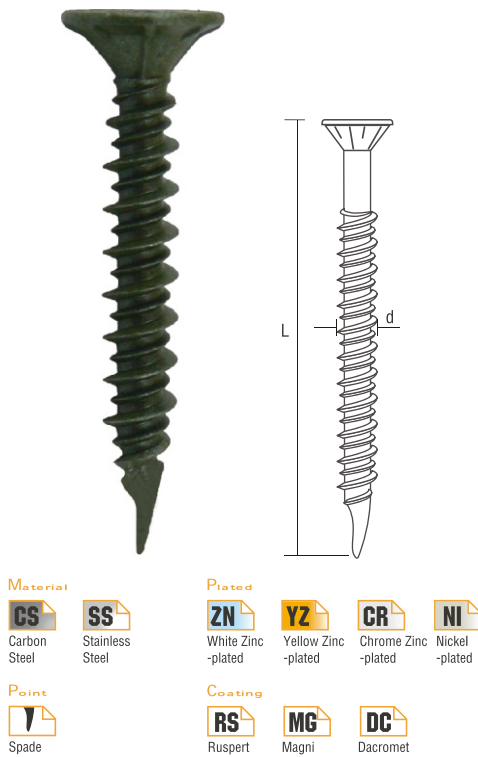


- Applications**
- Concrete material fixtures
 - Flexible flashing
 - Suitable for soft brick and masonry work

- Features**
- Can be used in exterior environment
 - Internal washer design provides more bearing surface
 - Hi-Low thread provides smooth power for drilling
 - Pre-drilling hole is required
 - Passed the challenging 1000 hour salt spray test without failure

d	L (inch)	L (mm)
10# M4.8	1-1/4"	32
	1-1/2"	39
	2"	50
	2-1/4"	58
	2-3/4"	70
	3"	75
	3-1/4"	83
	3-3/4"	95
	4"	100
d	L (inch)	L (mm)
1/4" M6.3	1-1/4"	32
	1-1/2"	39
	2"	50
	2-1/4"	58
	2-3/4"	70
	3"	75
	3-1/4"	83
	3-3/4"	95
	4"	100

Cement Board Screw
With Spade Point

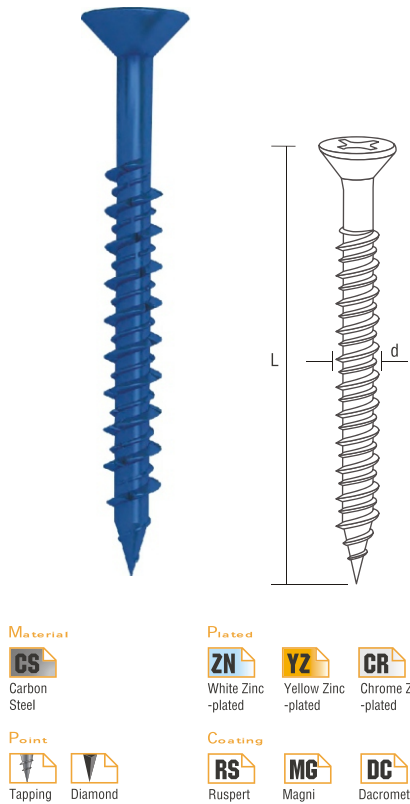


- Applications**
- Designed to fasten cement board to wood or light sheet
 - For cement board purpose

- Features**
- Can be used in exterior environment
 - Spade point penetrates the board without cracking and high-low thread
 - Ensure high withdrawal resistance
 - Pre-drilling hole is required
 - Passed the challenging 1000 hour salt spray test without failure

d	L (inch)	L (mm)
#8 M4.2	1-1/4"	31
	1-1/2"	38
	1-5/8"	41
	2"	50
	2-1/4"	57
d	L (inch)	L (mm)
#10 M5.5	1-1/4"	31
	1-1/2"	38
	1-5/8"	41
	2"	50
	2-1/4"	57
	2-1/2"	63
	3"	75

CSK Head

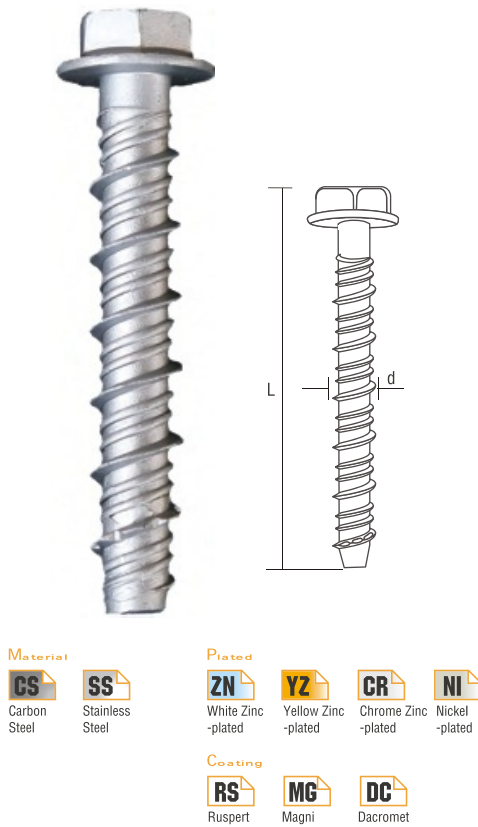


- Applications**
- Concrete material fixtures
 - Flexible flashing
 - Suitable for soft brick and masonry work

- Features**
- Can be used in exterior environment
 - Can be seated flush in concrete
 - Hi-Low thread provides smooth power for drilling
 - Pre-drilling hole is required
 - Passed the challenging 1000 hour salt spray test without failure

d	L (inch)	L (mm)
10# M4.8	1-1/4"	32
	1-1/2"	45
	2"	50
	2-1/4"	58
	2-3/4"	70
	3"	75
	3-1/4"	83
	3-3/4"	95
	4"	100
d	L (inch)	L (mm)
14# M6.3	1-1/4"	32
	1-1/2"	45
	2"	50
	2-1/4"	58
	2-3/4"	70
	3"	75
	3-1/4"	83
	3-3/4"	95
	4"	100

Concrete Bolt Anchor



- Applications**
- Concrete material fixtures
 - Flexible flashing
 - Suitable for soft brick and masonry work

- Features**
- Can be used in exterior environment
 - Internal washer design provides more bearing surface
 - Hi-Low thread provides smooth power for drilling
 - Pre-drilling hole is required
 - Passed the challenging 1000 hour salt spray test without failure

d	L (inch)	L (mm)
1/4" M6.3	2"	25
	3"	75
	4"	100
	5"	125
	5-1/2"	140
	6-5/16"	160
	7-1/8"	180
	8"	200
5/16" M7.9	3"	75
	4"	100
	5"	125
	6"	150
	7"	175
	8"	200
d	L (inch)	L (mm)
3/8" M9.5	3"	75
	4"	100
	5"	125
	6"	150
	7"	175
	8"	200
	10"	250
d	L (inch)	L (mm)
1/2" M12.7	6"	150
	7"	175
	8"	200
	10"	250

Fiat Countersunk Head /
Oval Countersunk Head / Round Head



Applications

- Residential steel frame construction
- Use in object like polycarbonate sheet, shadow cover

Features

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

Recess

Phillips / Cross Recessed / Slotted

B.S.1210
ANSI/ASME B8.6.1 IFI F-56 / F-57 / F-59

d (mm)	Length range (inch)
2#-2.2	3/16 ~ 5/8"
4#-2.9	3/8 ~ 5/8"
5#-3.2	1/2 ~ 1"
6#-3.5	1/2 ~ 2"
7#-3.9	1/2 ~ 2"
8#-4.2	1/2 ~ 3"
9#-4.5	3/4 ~ 3"
10#-4.8	3/4 ~ 4"
12#-5.5	3/4 ~ 4"
14#-6.3	1 ~ 4"

DIN95 DIN96 DIN97
DIN7995 DIN7996 DIN7997

d (mm)	Length range (mm)
2	10 ~ 16
2.5	10 ~ 20
3.5	10 ~ 40
4	12 ~ 50
4.5	16 ~ 60
5	16 ~ 80
5.5	20 ~ 80
6	30 ~ 80

Hex Head



Applications

- Residential steel frame construction
- Use in object like polycarbonate sheet, shadow cover

Features

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

Recess

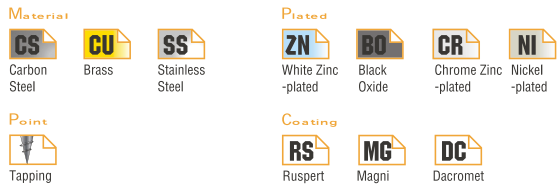
Phillips / Cross Recessed / Slotted

HEX LAG SCREWS
ANSI/ASME B18.2.1 IFI C-18

d (inch)	Length range (inch)
3/16"	1 ~ 3"
1/4"	1 ~ 6"
5/16"	1 ~ 9"
3/8"	1 ~ 10"
1/2"	1-1/2 ~ 12"
5/8"	3 ~ 12"
3/4"	3 ~ 12"

HEXAGON HEAD WOOD SCREWS
DIN571

d (mm)	Length range (mm)
M5	20 ~ 80
M6	20 ~ 150
M7	30 ~ 180
M8	20 ~ 260
M10	30 ~ 300
M12	40 ~ 400
M16	50 ~ 400



Blind Rivet



Applications

- Building, construction or office furniture
- Automotive
- Leather production

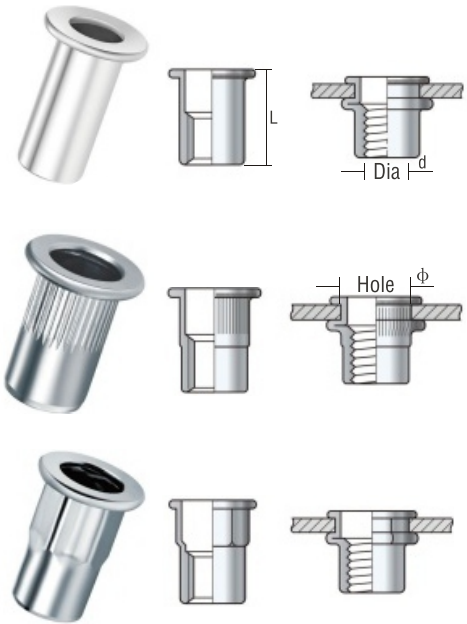
Features

- Strong but low cost fastener
- Ideal for wide range of application
- Painted color finishing available to match surrounding

d	L (inch)	L (mm)
1/8" (3.2mm)	3/16"	5.0
	1/4"	6.4
	5/16"	8.0
	3/8"	10
	7/16"	11.4
	1/2"	12.7
	5/8"	16
	3/4"	19
5/32" (4.0mm)	1"	5.4
	3/16	6.4
	5/16	8.0
	3/8	10
	7/16	11.4
	1/2	12.7
	5/8	16
	3/4	19
1	25.4	

d	L (inch)	L (mm)
3/16" (4.8mm)	1/4"	6.4
	5/16"	8.0
	3/8"	10
	7/16"	11.4
	1/2"	12.7
	5/8"	16
	3/4"	19
	1"	25.4
1/4" (6.4mm)	1-1/4"	20
	1/2"	12.7
	5/8"	16
	3/4"	19
1	25.4	
1-1/4"	30	

Blind Nut



d Dia (mm)	phi Hole (mm)	L (mm)
4	6	11.5 / 13.5
5	7	12.5 / 13.5
6	9	15 / 16.5
8	11	18 / 20
10	13	20/ 21.5 / 23.5

d Dia (mm)	phi Hole (mm)	L (mm)
4	6	11.5 / 13.5
5	7	12.5 / 13.5
6	9	15 / 16.5
8	11	18 / 20

d Dia (mm)	phi Hole (mm)	L (mm)
4	6	11 / 12.5
5	7	13 / 14.5
6	9	15 / 16.5
8	11	18

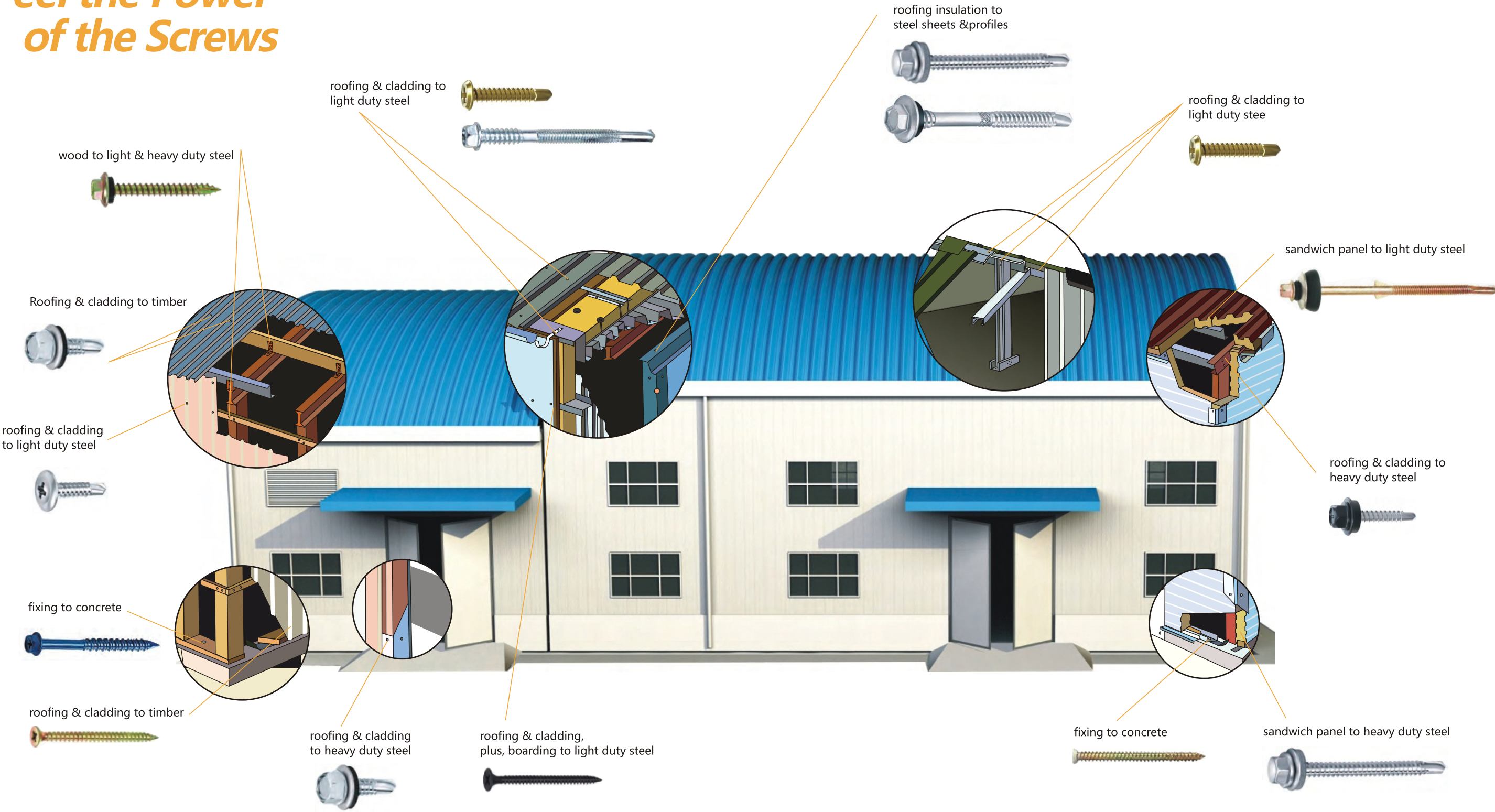
Applications

- Building, construction and other outdoor environment
- Vehicle
- Marine equipment

Features

- Fast and easy installation
- Strong , permanent threads in thin panel
- Blind, one-side installation
- Attached to panels of any hardness

Feel the Power of the Screws



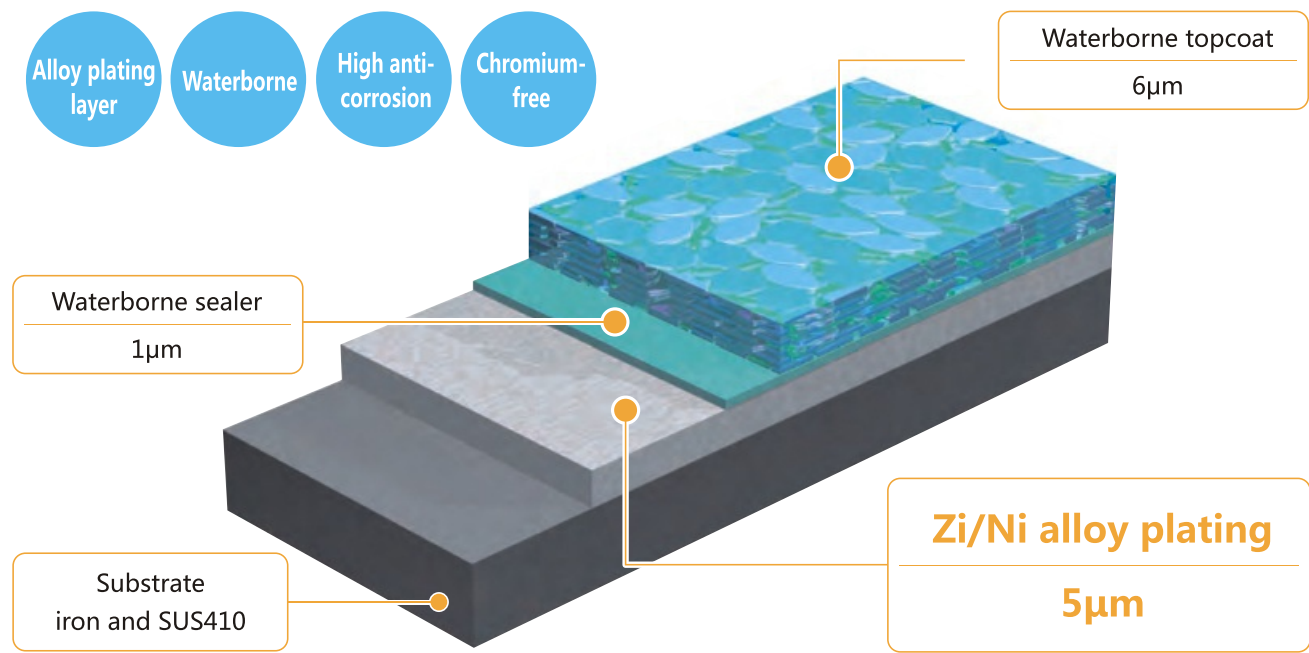
Ruspert

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.

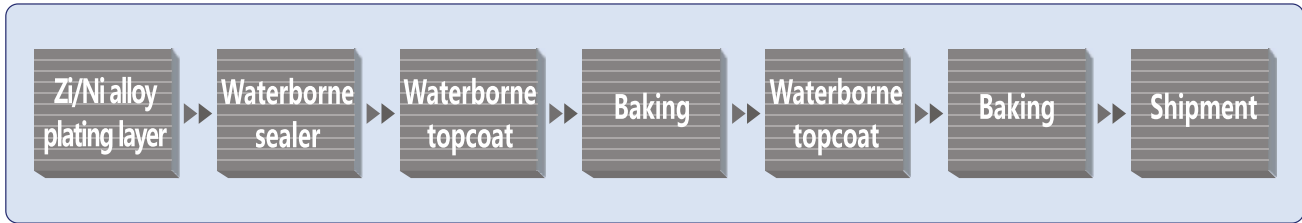
Features

01 Waterborne system	02 Chromium-free
Using water as a solvent. Substantially reduce VOC emissions.	Free from the hazardous chromium compound completely.
03 Electrolytic corrosion resistance	04 Color variation
Reducing dissimilar metal contact corrosion apparently between the products and aluminum board or plated steel board.	The basic color is silver and please contact us for color variety request.
05 Stability of anti-corrosion performance	06 Superior corrosion resistance 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.	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.
- 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 films.

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

Salt-spray Test Result



FLUTED MASONRY



GDN2-1

Length (inch)	Penny	Gauge (u.s.g)
1/2"		9
3/4"		9
1"	2D	9
1-1/4"	3D	9
1-1/2"	4D	9
1-3/4"	5D	9
2"	6D	9
2-1/2"	8D	9
2-3/4"	9D	9
3"	10D	9
3-1/2"	16D	8
4"	20D	7

SPIRAL MASONRY



GDN2-2

Length (inch)	Penny	Gauge (u.s.g)
3/4"		9
1"	2D	9
1-1/2"	4D	9
2"	6D	9
2-1/2"	8D	9
3"	10D	9
3-1/2"	16D	8
4"	20D	7

BLACK NAILS



GDN2-3

Black Color Smooth Shank

Dia (mm)	Length (mm)
2.0	20
2.5	25
3.0	30
3.0	40
3.0	50
3.0	60
3.0	70
3.5	80
40	100

SINKER NAIL



GDN1U-1

Length (inch)	Penny	Gauge (u.s.g)
1/2"		9
3/4"		9
1"	2D	9
1-1/4"	3D	9
1-1/2"	4D	9
1-3/4"	5D	9
2"	6D	9
2-1/2"	8D	9
2-3/4"	9D	9
3"	10D	9
3-1/2"	16D	8
4"	20D	7

COMMON NAIL



GDN1U-2

Length (inch)	Penny	Gauge (u.s.g)
1-1/2"	4D	12-1/2
2"	6D	11-1/2
2-1/4"	7D	11-1/2
2-1/2"	8D	10-1/2
3"	10D	9
3-1/4"	12D	9
3-1/2"	16D	8
4"	20D	6
4-1/2"	30D	5
5"	40D	4
6"	60D	2



GDN1-A



GDN1-B

Gauge (bwg)	Length (inch)
17	1/2"
16	3/4"
15	1~2"
12	1~3"
11	1~4"
10	1~4"
9	1~4"
8	2~4"
7	2~4"
6	2~5"
5	2~5"

EUROPE STYLE
CONCRETE NAILS



GDN2-4

Gauge (bwg)	Length (inch)
8	1~4"
9	1~4"
11	1~1-1/2"
12	1~2"

BAMBOO
CONCRETE NAILS



GDN2-5

Dia (mm)	Length (mm)
2.7	30
2.7	40
3.5	50
3.5	65
4.0	75
4.5	90
4.5	100
4.5	120

COMMON
CONCRETE NAILS



GDN2-6

Gauge (bwg)	Length (inch)
8	1~4"
9	1~4"
11	1~1-1/2"
12	1~2"

SPIRAL COMMON NAIL



GDN1U-3

Length (inch)	Penny	Gauge (u.s.g)
1-1/4"	3D	14-1/2
1-1/2"	4D	14
1-3/4"	5D	14
2"	6D	12-1/2
2-1/4"	7D	12-1/2
2-1/2"	8D	11-1/2
3"	10D	10-1/2
3-1/4"	12D	10-1/2
3-1/2"	16D	10
4"	20D	9
4-1/2"	30D	9
5"	40D	8

RING SHANK COMMON NAIL



GDN1U-4

Length (inch)	Penny	Gauge (u.s.g)
1-1/4"	3D	14-1/2
1-1/2"	4D	14
1-3/4"	5D	14
2"	6D	12-1/2
2-1/4"	7D	12-1/2
2-1/2"	8D	11-1/2
3"	10D	10-1/2
3-1/4"	12D	10-1/2
3-1/2"	16D	10
4"	20D	9
4-1/2"	30D	9
5"	40D	8

FLOORING NAIL



GDN1U-5

Length (inch)	Gauge (u.s.g)
2"	11-1/2
2-1/4"	11-1/2
2-1/2"	11-1/2

CUT MASONRY NAILS



GDN2-7

Length (inch)	Penny
1-1/4"	3D
1-1/2"	4D
2"	6D
2-1/4"	7D
2-1/2"	8D
3"	10D
3-1/4"	12D
3-1/2"	16D
4"	20D

L BAMBOO
CONCRETE NAILS



GDN2-8

Dia (mm)	Length (mm)
3.0	30
3.5	40
3.5	50
4.0	65
4.0	75
4.5	90
4.5	100

METAL ROUND CAP
MASONRY NAIL



GDN2-9

Length (inch)	Penny	Gauge (u.s.g)
5/8"		8
3/4"		8
7/8"		8
1"	2D	8
1-1/4"	3D	8
1-1/2"	4D	8
1-3/4"	5D	8
2"	6D	8
2-1/2"	8D	8
3"	10D	8
4"	20D	8

ROOFING NAIL/CLOUT NAIL



GDN1U-6

Length (inch)	Penny	Gauge (u.s.g)
1/2"	1/2"	11
5/8"	5/8"	11
3/4"	3/4"	11
7/8"	7/8"	11
1"	1"	11
1-1/4"	1-1/4"	11
1-1/2"	1-1/2"	11
2"	2"	11
2-1/2"	2-1/2"	11
3"	3"	11
3-1/2"	3-1/2"	11
4"	4"	11

BOX NAIL



GDN1U-7

Length (inch)	Penny	Gauge (u.s.g)
1"	2D	15-1/2
1-1/4"	3D	14-1/2
1-1/2"	4D	14
1-3/4"	5D	14
2"	6D	12-1/2
2-1/4"	7D	12-1/2
2-1/2"	8D	11-1/2
3"	10D	10-1/2
3-1/4"	12D	10-1/2
3-1/2"	16D	10
4"	20D	9
4-1/2"	30D	9
5"	40D	8

PALLET NAIL



GDN1U-8

Length (inch)	Penny	Gauge (u.s.g)
2"	6D	11-1/2

CASING NAIL

GDN1U-9



Length (inch)	Penny	Gauge (u.s.g)
1-1/2"	4D	14-1/2
1-3/4"	5D	14
2"	6D	12-1/2
2-1/2"	8D	11-1/2
3"	10D	10-1/2
3-1/4"	12D	10-1/2
3-1/2"	16D	10
4"	20D	9

FINISH NAIL/PANEL PINS

GDN1U-10



Length (inch)	Penny	Gauge (u.s.g)
1"	2D	16-1/2
1-1/4"	3D	15-1/2
1-1/2"	4D	15
1-3/4"	5D	15
2"	6D	13
2-1/2"	8D	12-1/2
3"	10D	11-1/2
3-1/4"	12D	11-1/2
3-1/2"	16D	11
4"	20D	10

DUPLEX NAIL

GDN1U-11



Length (inch)	Penny	Gauge (u.s.g)
1-3/4"	6D	11-1/2
2-1/4"	7D	10-1/4
2-3/4"	10D	9
2-7/8"	12D	9
3"		8
3-1/2"		6

JOIST HANGER NAIL

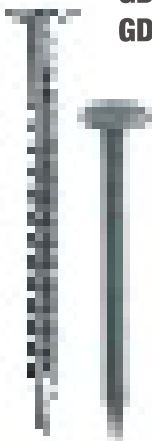
GDN1U-12



Length (inch)	Penny	Gauge (u.s.g)
1-1/4"	3D	11
1-1/2"	4D	9
2-1/2"	8D	8

DRYWALL NAIL

GDN1U-13 smooth shank
GDN1U-14 ring shank



Length (inch)	Penny	Gauge (u.s.g)
1-1/4"	3D	12-1/2
1-3/8"	3D	12-1/2
1-1/2"	4D	12-1/2
1-5/8"	4D	13
1-7/8"	5D	13

SQUARE BOAT NAIL

GDN1-C



Gauge (bwg)	Length (inch)
16 / 15 / 14	1"
14	1-1/4"
14 / 13	1-1/2"
13	1-3/4"
12	2"
10	2-2 1/4"
8	3"
7	3-1/2"
6	4"
5	5"
4	6"

SHOE NAIL

GDN2-15



Length (inch)	Penny
3/8"	4D
7/16"	6D
1/2"	7D
9/16"	8D
5/8"	10D
3/4"	
7/8"	
1"	

ROOFING NAIL / UMBRELLA HEAD



GDN1-D smooth shank
GDN1-E twist shank
GDN1-F with rubber washer

Gauge (bwg)	Length (inch)
12	1"
11	1-1/4"
10	1-1/2"
10	2"
9	2"
9	2-1/2"
8	2-1/2"

ROOFING NAIL WITH NEOPRENE WASHER

GDN1U-16



Length (inch)	Penny	Gauge (u.s.g)
1"	2D	11
1-1/4"	3D	11
1-1/2"	4D	11 1/10
1-3/4"	5D	11 1/10
2"	6D	11 1/10
2-1/2"	8D	11 1/10
3"	10D	11 1/10
3-1/2"	16D	9

FURRING NAIL

GDN1U-17



Length (inch)	Penny	Gauge (u.s.g)
1-1/2"	4D	12
1-3/4"	5D	12

LEAD HEAD NAIL

GDN1U-18



Gauge (bwg)	Length (inch)
16 / 15 / 14	1"
14	1-1/4"
14 / 13	1-1/2"
13	1-3/4"
12	2"
10	2-2 1/4"
8	3"
7	3-1/2"
6	4"
5	5"
4	6"

METAL CAP NAIL

GDN1U-19



GDN1U-20

Length (inch)	Penny	Gauge (u.s.g)
3/4"	2D	12
7/8"	3D	12
1"	4D	12
1-1/4"	5D	12
1-1/2"	6D	12
1-3/4"	8D	12
2"	10D	12
2-1/2"	16D	11
3"	20D	11
3-1/2"	40D	9
4"	60D	9
5"		
6"		8
8"		

PLASTIC CAP NAIL

GDN1U-21



Length (inch)	Penny	Gauge (u.s.g)
3/4"		12
7/8"		12
1"	2D	12
1-1/4"	3D	12
1-1/2"	4D	12
1-3/4"	5D	12
2"	6D	12
2-1/2"	8D	11
3"	10D	11

FENCE STAPLES



GDN1U-24 smooth
GDN1U-25 barbed
GDN1U-26 knurled

Length (inch)	Penny	Gauge (u.s.g)
3/4"		14 / 9
1"	2D	12 / 9
1-1/8"	3D	12 / 9
1-1/4"	3D	12 / 9
1-1/2"	4D	9
1-3/4"	5D	9
2"	6D	9
2-1/2"	8D	9

Landscape Garden Staples



GDN1U-27

Length (inch/mm)	width (mm)	Dia (mm)
10"	300	50
8"	200	30
6"	150	25
5"	120	25
6"	150	25
5"	120	25



GDN1U-28

Length (inch)	Circle (inch)	Gauge (u.s.g)
18"	1.5"	8
12"	1.2"	8
12"	1.2"	9
6"	1.2"	9
6"	1.2"	11
6"	1"	12

GDN3-QD

- Head Dia: 5.7mm
- Shank Dia: 0.145" / 3.7mm
- Shank type:Knurled or smooth
- Accessory: 12mm Dia metal washer

	Length (inch)	Length (mm)
	1/2"	13
	5/8"	16
	3/4"	19
	7/8"	22
	1"	27
	1-1/4"	32
	1-1/2"	37
	1-5/8"	42
	1-7/8"	47
	2"	52
	2-1/2"	62
	2-7/8"	72
	3-1/4"	82

GDN3-PD

- Head Dia: 0.300" / 7.6mm
- Shank Dia: 0.145" / 3.7mm
- Shank type:Knurled or Smooth
- Accessory: rubber flute (any color)

	Length (inch)	Length (mm)
	1/2"	13
	3/4"	19
	1"	25
	1-1/4"	32
	1-1/2"	38
	2"	51
	2-1/2"	63
	3"	76

GDN3-PS

- Head Dia: 10mm
- Shank Dia: 4.5mm
- Shank type:Knurled or Smooth
- Accessory: rubber flute (any color)

Length (inch)	Length (mm)
1"	27
1-1/4"	32
1-1/2"	37
1-5/8"	42
1-7/8"	47
2"	52
2-3/8"	57
2-1/2"	62
2-7/8"	72
3-1/4"	82

GDN3-PJ

- Head Dia: 0.300" / 7.6mm
- Shank Dia: 0.145" / 3.7mm
- Accessory: 1"(25mm) Dia metal washer and rubber flute

	Length (inch)	Length (mm)
	3/4"	19
	1"	25
	1-1/4"	32
	1-1/2"	38
	1-5/8"	42
	2"	51
	2-1/2"	63
	2-7/8"	73
	3"	76

GDN3-YD

- Head Dia: 8mm
- Shank Dia: 0.145" / 3.7mm
- Shank type:Knurled or Smooth
- Accessory: plastic washer (any color)

	Length (inch)	Length (mm)
	1/2"	13
	3/4"	19
	7/8"	22
	1"	27
	1-1/4"	32
	1-1/2"	37
	1-5/8"	42
	1-7/8"	47
	2"	52
	2-3/8"	57
	2-1/2"	62

GDN3-DD

- Head Dia: 10mm
- Shank Dia: 4.5mm
- Shank type:Knurled or Smooth
- Accessory: plastic washer (any color)

Length (inch)	Length (mm)
1"	27
1-1/4"	32
1-1/2"	37
1-5/8"	42
1-7/8"	47
2"	52
2-3/8"	57
2-1/2"	62
2-7/8"	72
3-1/4"	82

GDN3-ZP

- Head Dia: 6mm / 6.3mm
- Shank Dia: 0.145" / 3.7mm
- Shank type:Smooth
- Accessory: plastic washer (any color)

Length (inch)	Length (mm)
1-3/16"	30
1-9/16"	40
2"	50
2-3/8"	60

GDN3-ZK

- Head Dia: 6mm / 6.3mm
- Shank Dia: 0.145" / 3.7mm
- Hose Dia: 3.2mm
- Shank type:Smooth
- Accessory: plastic washer (any color)

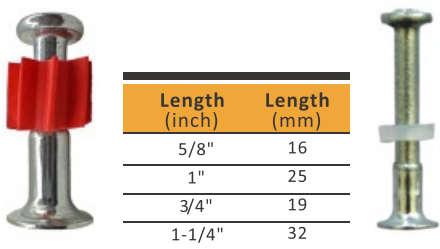
Length (inch)	Length (mm)
1-3/16"	30
1-9/16"	40
2"	50
2-3/8"	60

GDN3-PDA

- Head Dia: 0.300" / 7.6mm
- Shank Dia: 0.145" / 3.7mm
- Accessory: plastic washer (any color)

Length (inch)	Length (mm)
5/8"	16
1"	25
3/4"	19
1-1/4"	32

GDN3-YDB



GDN3-AC90

- Head Dia: 0.300" / 7.6mm
- Shank Dia: 0.145" / 3.7mm
- Angle size: 33Lx19W

	Length (inch)	Length (mm)
	1"	25
	1-1/4"	32

GDN3-AC120

- Head Dia: 0.300" / 7.6mm
- Shank Dia: 0.145" / 3.7mm
- Angle size: 33Lx19W

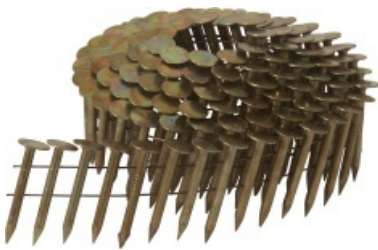
	Length (inch)	Length (mm)
	1"	25
	1-1/4"	32

GDN3-JP

- Head Dia: 0.300" / 7.6mm
- Shank Dia: 0.145" / 3.7mm
- Clamp Width: 22mm
- Nail Length: 25mm

Clamp (inch)
1/2"
3/4"
1"

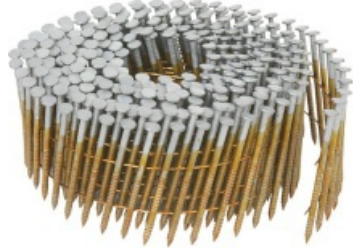
Coil Roofing Nails



GDN4-1

Length (inch)	Dia (inch)
3/4"	0.120
7/8"	0.120
1"	0.120
1-1/4"	0.120
1-1/2"	0.120
1-3/4"	0.120

15° WIRE COLLATED NAILS



GDN4-2

Length (inch)	Dia (inch)
1-1/2"	0.099
2"	0.099
2-1/4"	0.099 / 0.113
2-3/8"	0.099 / 0.113
2-1/2"	0.131
3"	0.120 / 0.131
3-1/4"	0.120 / 0.131

21° PLASTIC STRIP COLLATED NAILS



GDN4-3

Length (inch)	Dia (inch)
2"	0.113
2-3/8"	0.113
2-1/2"	0.131
3"	0.120 / 0.131
3-1/4"	0.120 / 0.131
3-1/2"	0.131

30° PAPER TAPE COLLATED NAILS



GDN4-4

Length (inch)	Dia (inch)
2"	0.113
2-3/8"	0.113
2-1/2"	0.131
3"	0.120 / 0.131
3-1/4"	0.120 / 0.131
3-1/2"	0.131

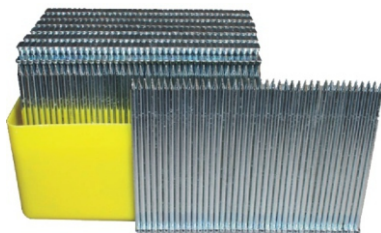
HOG RING



GDN4-5

Gauge (bwg mm)	Crown (mm)	Length (mm)
16(1.6)	46.9	8.7
15(1.52 / 1.8)	23.8	12
15(1.73 / 1.8)	23.9	12.2
15(1.73 / 2.0)	22	11
11(3.0)	45	

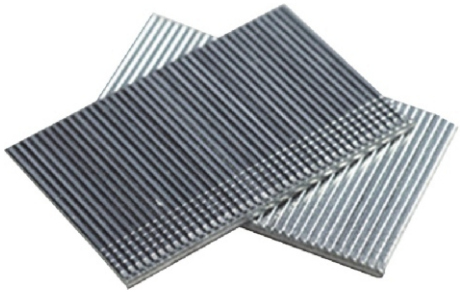
ST CONCRETE NAIL



GDN4-6

Length (inch)	Length (mm)	Gauge (u.s.g)
1/2"	12	14
3/4"	18	14
1"	25	14
1-1/4"	32	14
1-1/2"	38	14
2"	50	14
2-1/2"	64	14

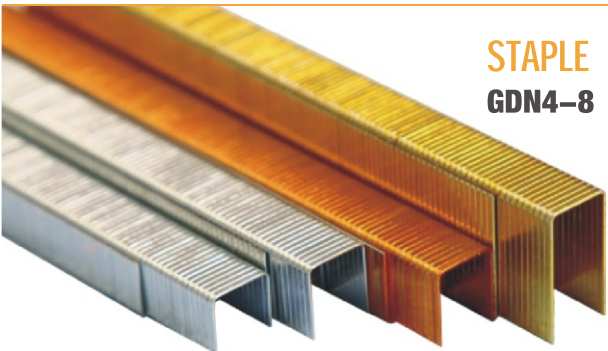
BRAD NAIL



GDN4-7

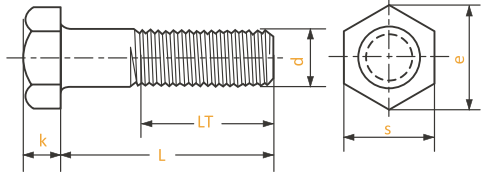
Length (inch)	Length (mm)	Gauge (u.s.g)
3/8"	10	18
1/2"	12	18
5/8"	15	18 / 16
3/4"	20	18 / 16
1"	25	18 / 16
1-1/4"	30	18 / 16 / 14
1-1/2"	38	18 / 16 / 14
2"	50	18 / 16 / 14
2-1/2"	64	16 / 14
2-3/4"	70	14

STAPLE
GDN4-8



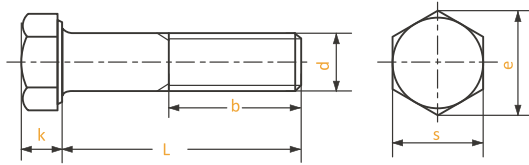
1004F	7106	8006	130/04	9020	N820	1406	P2520	5019-06	9706	7506	5006
1006F	7108	8008	130/06	9025	N828	1408	P2525	5019-08	9708	7508	5009
1008F	7110	8010	130/08	9030	N832	1410	P2530	5019-10	9710	7510	5010
1010F	7112	8012	130/10	9035	N838	1412	P2535	5019-12	9712	7512	5012
1012F	7114	8014	130/12	9040	N845	1414	P2540	5019-14	9714	7514	5014
1014F	7116	8016			N850	1416			9716		
131/04	7206	8406	A1106	9220	N920	2308	P2620	P8816	9810	1006J	406J
131/06	7208	8408	A1108	9225	N928	2310	P2625	P8819	9815	1008J	408J
131/08	7210	8410	A1110	9230	N932	2313	P2630	P8822	9820	1010J	410J
131/10	7212	8412	A1112	9235	N938	2315	P2635	P8825	9825	1013J	413J
131/12	7214	8414	A1114	9240	N940	2317	P2640		9415	1016J	416J
	7216	8416			N945	2320			9420	1019J	419J
					N950	2324			9425	1022J	422J
									9432		

Hex Head



IFI C-6 (A-6) 美制六角头螺栓
HEX BOLTS

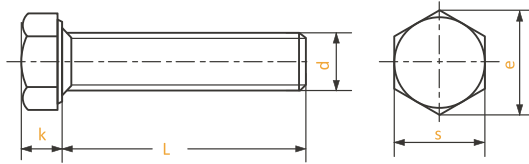
inches											
Thread size	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4
Thread per inch	20	18	16	14	13	11	10	9	8	7	7
k	1 1/64	7/32	1/4	19/64	11/32	27/64	1/2	37/64	43/64	3/4	27/32
e	0.484	0.552	0.620	0.687	0.826	1.033	1.240	1.447	1.653	1.859	2.066
s	7/16	1/2	9/16	5/8	3/4	15/16	1 1/8	15/16	1 1/2	1 11/16	1 7/8
LT	L≤6 in	0.750	0.875	1.000	1.125	1.250	1.500	2.000	2.250	2.500	2.750
	L>6 in	1.000	1.125	1.250	1.375	1.500	1.750	2.000	2.250	2.500	3.000
L	1/2-4	5/8-4	3/4-4	7/8-4	1-4	1 1/4-6	1 1/2-6	1 3/4-10	2-10	2 1/4-11 1/4	2 1/2-12 1/2



DIN931 德制六角头螺栓
Grade A & B
HEXAGON HEAD BOLTS

mm							
Thread size	M4	M5	M6	M8	M10	M12	M14
Pitch	0.7	0.8	1	1.25	1.5	1.75	2
b	L≤125	14	16	18	22	26	34
	125<L≤200	-	22	24	28	32	40
	L>200	-	-	-	45	49	53
k	2.8	3.5	4	5.3	6.4	7.5	8.8
e	Grade A	7.66	8.79	11.05	14.38	18.9	24.49
	Grade B	-	8.63	10.89	14.20	18.72	23.91
s	7	8	10	13	17	19	22
L	25-40	25-50	30-60	35-80	40-100	45-120	50-140

mm							
Thread size	M16	M18	M20	M22	M24	M27	M30
Pitch	2	2.5	2.5	2.5	3	3	3.5
b	L≤125	38	42	46	54	60	66
	125<L≤200	44	48	52	56	66	72
	L>200	57	61	65	69	73	85
k	10	11.5	12.5	14	15	17	18.7
e	Grade A	26.75	30.14	33.53	35.72	39.98	50.85
	Grade B	26.17	29.56	32.95	35.03	39.55	50.85
s	24	27	30	32	36	41	46
L	55-160	65-180	65-200	70-220	80-240	90-260	90-300

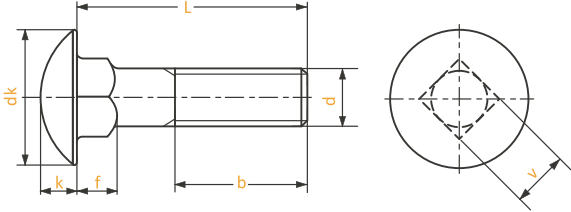


DIN933 德制六角头螺钉
Grade A & B
HEXAGON HEADSCREWS

mm							
Thread size	M4	M5	M6	M8	M10	M12	M14
Pitch	0.7	0.8	1	1.25	1.5	1.75	1
k	2.8	3.5	4	5.3	6.4	7.5	8.8
e	Grade A	7.66	8.79	11.05	14.38	18.9	24.49
	Grade B	-	8.63	10.89	14.20	18.72	23.91
s	7	8	10	13	17	19	22
L	8-40	8-50	8-50	12-60	16-60	20-80	25-80

mm							
Thread size	M16	M18	M20	M22	M24	M27	M30
Pitch	2	2.5	2.5	2.5	3	3	3.5
k	10	11.5	12.5	14	15	17	18.7
e	Grade A	26.75	30.14	33.53	35.72	39.98	50.85
	Grade B	26.17	29.56	32.95	35.03	39.55	50.85
s	24	27	30	32	36	41	46
L	30-100	30-100	40-100	50-100	50-100	60-100	70-100

Carriage Bolt



IFI C-40 美制圆头方颈螺栓
ROUND HEAD SQUARE NECK BOLT

inches									
Thread size	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1
Thread per inch	20	18	16	14	13	11	10	9	8
dk	0.594	0.719	0.844	0.969	1.094	1.344	1.594	1.844	2.094
f	0.156	0.187	0.219	0.25	0.281	0.344	0.406	0.469	0.531
k	0.145	0.176	0.208	0.239	0.270	0.344	0.406	0.459	0.531
v	0.260	0.324	0.388	0.452	0.515	0.642	0.768	0.895	1.022
L	1 1/2-4	1 3/4-4	2-6	2-6	2-8	2 1/4-10	2 1/4-10	2 1/2-10	3-10

DIN 603 德制圆头方颈螺栓
MUSHROOM HEAD SQUARE NECK BOLTS

mm							
Thread size	M5	M6	M8	M10	M12	M16	M20
Pitch	20	1	1.25	1.5	1.75	2	2.5
dk	13.55	16.55	20.65	24.65	30.65	38.8	46.8
f	4.1	4.6	5.6	6.6	8.75	12.9	15.9
k	3.3	3.88	4.88	5.38	6.95	8.95	11.05
v	5.48	6.48	8.58	10.58	12.7	16.7	20.84
L	16-80	16-80	20-150	20-200	30-200	50-200	70-200

Hex Flange Bolts

IFI 111 C-28
DIN 6921



Button Head
Allen Socket Screws
ASTM F835 / F879
DIN 34805



Hex Socket Head
Cap Screws
ANSI B 18.3
DIN 913



Fiat Head
Machine Screws
ANSI B 18.3 / DIN 912



Thread Rod



L Bolt



J Bolt



U Bolt



Material

CS Carbon Steel

SS Stainless Steel

Coating

RS Ruspert

MG Magni

DC Dacromet

Grade

4.8/5.8/8.8/10.9 DIN

2 / 5 / 8 ANSI/ASME

Plated

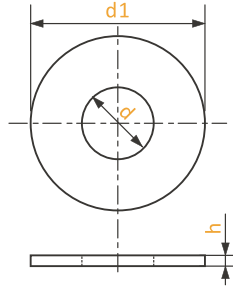
ZN White Zinc-plated

YZ Yellow Zinc-plated

BO Black Oxide

HD Hot-Dip

Flat Washers



NARROW WASHER (SAE)

		#6	#8	#10	#12	1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1"	1-1/8	1-1/4	1-3/8	1-1/2
d1	max	9.91	11.51	13.08	14.66	16.26	17.36	21	23.8	27.74	30.12	34.09	38.07	45.21	51.56	57.91	64.26	70.61	76.96
	min	9.4	11	12.57	14.15	15.75	17.3	20.45	23.24	26.8	29.18	33.15	37.13	44.27	50.62	56.97	63.32	69.67	76.02
d	max	4.17	4.98	5.77	6.73	7.52	9.12	10.59	12.29	13.87	15.47	17.42	21.39	24.58	27.74	32.51	35.69	38.86	42.04
	min	3.84	4.65	5.44	6.22	7.01	8.61	10.19	11.79	13.36	14.96	16.48	20.45	23.65	26.8	31.57	34.75	37.92	41.1
h	max	1.65	1.65	1.65	2.03	2.03	2.03	2.03	2.03	3.07	3.07	3.07	4.06	4.06	4.06	4.06	4.88	4.88	4.88
	min	0.91	0.91	0.91	1.3	1.3	1.3	1.3	1.3	1.88	1.88	1.88	2.74	2.74	2.74	2.74	3.45	3.45	3.45

WIDE WASHER (USS)

		3/16	1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1"	1-1/8	1-1/4	1-3/8	1-1/2	1-5/8	1-3/4	1-7/8	2"	2-1/4	2-1/2	2-3/4	3"
d1	max	14.66	19.02	22.99	26.16	32.51	35.69	38.07	45.21	51.56	57.91	64.26	70.61	76.96	83.69	90.04	96.39	102.74	109.09	115.44	121.79	128.14	135	141.35
	min	14.15	18.47	22.05	25.22	31.57	34.75	37.13	44.27	50.62	56.97	63.32	69.67	76.02	82.3	88.65	95	101.35	107.7	114.05	120.4	126.75	133.1	139.45
d	max	6.73	8.31	9.91	11.51	13.08	14.66	16.26	18.24	21.39	24.59	27.74	32.51	35.69	39.24	42.42	45.59	48.77	51.94	55.12	61.47	67.82	74.68	81.03
	min	6.22	7.8	9.4	11	12.57	14.15	15.75	17.3	20.45	23.65	26.8	31.57	34.75	37.85	41.02	44.2	47.37	50.55	53.72	60.07	66.42	72.77	79.12
h	max	1.65	2.03	2.64	2.64	2.64	3.35	3.35	4.06	4.5	4.88	4.88	4.88	4.88	5.41	5.41	5.41	5.41	5.41	6.3	7.11	7.87	8.31	
	min	0.91	1.3	1.63	1.63	1.63	2.18	2.18	2.74	3.1	3.45	3.45	3.45	3.45	3.89	3.89	3.89	3.89	3.89	3.89	4.9	5.33	5.79	6.32

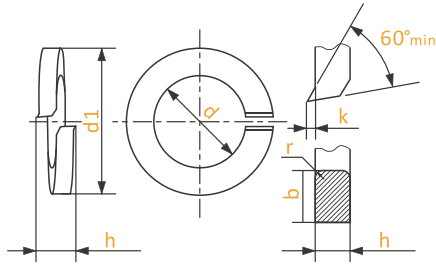
DIN125

		M3	M4	M5	M6	M7	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30	M33	M36	M39	M42
d	min	3.2	4.3	5.3	6.4	7.4	8.4	10.5	13	15	17	19	21	23	25	28	31	34	37	40	43
	max	3.38	4.48	5.48	6.62	7.62	8.62	10.77	13.27	15.27	17.27	19.33	21.33	23.33	25.33	28.33	31.39	34.62	37.62	40.62	43.62
d1	min	7	9	10	12	14	16	20	24	28	30	34	37	39	44	50	56	60	66	72	78
	max	6.64	8.64	9.64	11.57	13.57	15.57	19.48	23.48	27.48	29.48	33.38	36.38	38.38	43.38	49.38	55.26	58.8	64.8	70.8	76.8
h	nominal	0.5	0.8	1	1.6	1.6	1.6	2	2.5	2.5	3	3	3	3	4	4	4	5	5	6	7
	max	0.55	0.9	1.1	1.8	1.8	1.8	2.2	2.7	2.7	3.3	3.3	3.3	3.3	4.3	4.3	4.3	5.6	5.6	6.6	8
	min	0.45	0.7	0.9	1.4	1.4	1.4	1.8	2.3	2.3	2.7	2.7	2.7	2.7	3.7	3.7	3.7	4.4	4.4	5.4	6

DIN9021

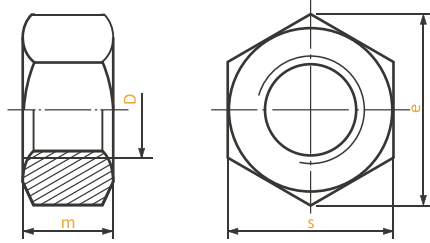
		M2.5	M3	M3.5	M4	M5	M6	M7	M8	M10	M12	M14	M16	M18	M20	M24	M30	M36
d	min	2.7	3.2	3.7	4.3	5.3	6.4	7.4	8.4	10.5	13	15	17	20	22	26	33	39
	max	2.84	3.38	3.88	4.48	5.48	6.62	7.62	8.62	10.77	13.27	15.27	17.27	20.52	22.52	26.84	34	40
d1	min	8	9	11	12	15	18	22	24	30	37	44	50	56	60	72	92	110
	max	7.64	8.64	10.57	11.57	14.57	17.57	21.48	23.48	29.48	36.38	43.38	49.38	54.1	58.1	70.1	89.8	107.8
h	nominal	0.8	0.8	0.8	1	1.2	1.6	2	2	2.5	3	3	3	4	4	5	6	8
	max	0.9	0.9	0.9	1.1	1.4	1.8	2.2	2.2	2.7	3.3	3.3	3.3	4.6	4.6	6	7	9.2
	min	0.7	0.7	0.7	0.9	1	1.4	1.8	1.8	2.3	2.7	2.7	2.7	3.4	3.4	4	5	6.8

Spring Lock Washers



DIN127 / IFI L-9

Hexagon Nut



IFI D-5 美制六角螺母
HEAVY HEX NUTS

Thread size	1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1	1-1/8	1-1/4	1-3/8	1-1/2
Thread per inch	20	18	16	14	13	12	11	10	9	8	7	7	6	6
s	7/16	1/2	9/16	11/16	3/4	7/8	15/16	1-1/8	1-5/16	1-1/2	1-11/16	1-7/8	2-1/16	2-1/4
e	0.488	0.557	0.628	0.768	0.840	0.982	1.051	1.240	1.447	1.653	1.859	2.066	2.273	2.480
m	7/32	17/64	21/64	3/8	7/16	31/64	32/64	41/64	3/4	55/64	31/32	1-1/16	1-11/16	1-9/32

DIN934 德制六角螺母
HEXAGON NUTS

Thread size	M4	M5	M6	M8	M10	M12	M16	M20	M24	M30	M36	M42	M48	M56
Pitch	0.7	0.8	1	1.25	1.5	1.75	2	2.5	3	3.5	4	4.5	5	65.5
s	3.2	4	5	6.5	8	10	13	16	19	24	29	34	38	45
e	7.66	8.79	11.05	14.38	18.9	21.1	26.75	32.95	39.55	50.85	60.79	71.3	82.6	93.56
m	7	8	10	13	17	19	24	30	36	46	55	65	75	85



Hexagon Thin Nut



Square Nut



Square Welding Nut



Hex Flanged Lock Nut



Nylon Insert Hex Lock Nut



T Nut



Lug Wheel Nut



Butterfly Nut



Butterfly Bolt With Hex Nut

Material			Coating		
					
Carbon Steel	Stainless Steel		Ruspert	Magni	Dacromet

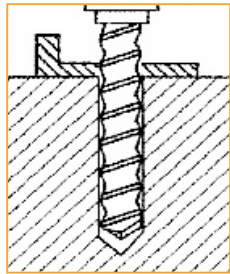
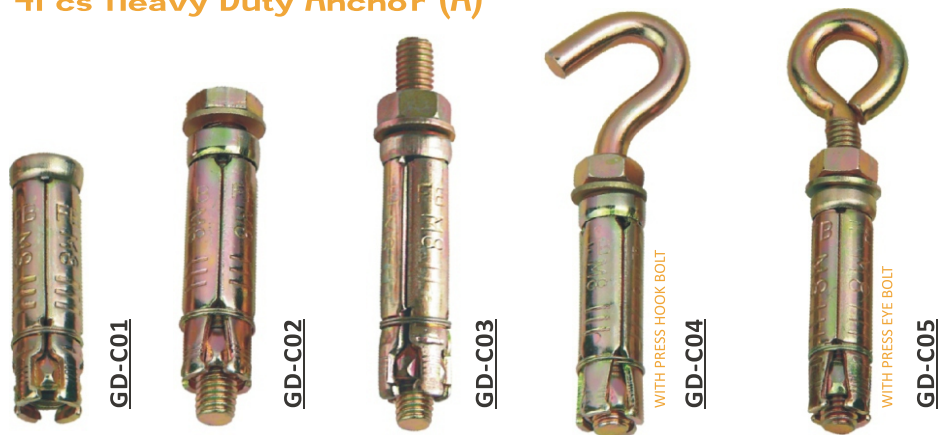
Grade	4.8/5.8/8.8/10.9	2 / 5 / 8
	DIN	ANSI/ASME

Plated	ZN	YZ	BO	HD
	White Zinc-plated	Yellow Zinc-plated	Black Oxide	Hot-Dip

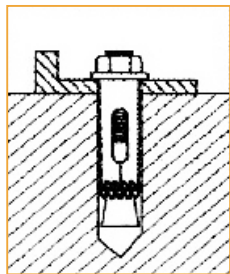
3Pcs Heavy Duty Anchor



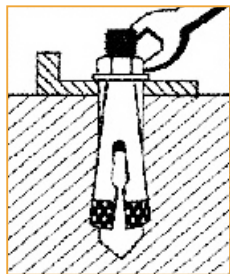
4Pcs Heavy Duty Anchor (A)



Using a which equals the anchor diameter, drill hole to min embedment.

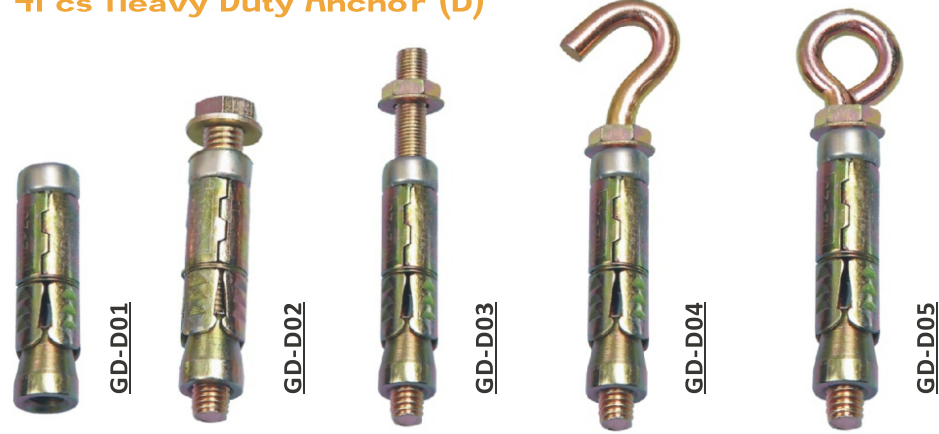


Drive this stem till washer is flush with material to be fastened.



Expand Anchor by tightening nut or head.

4Pcs Heavy Duty Anchor (B)



4Pcs Heavy Duty Anchor (Phosphate Shell)

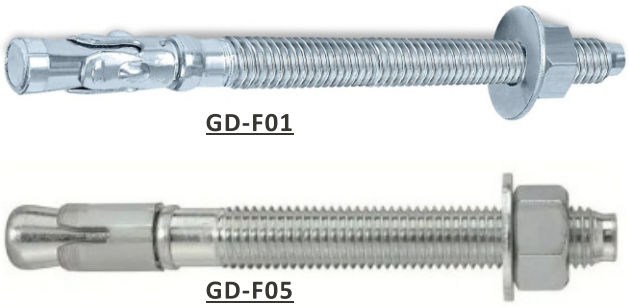


SHIELD ANCHOR(BODY ONLY)SIZE

Thread Size	Drill Dia x Drill Depth(Shield Length)			
	GD-B01	GD-BA01	GDC01	GDD01
3/16	M5	10x40	/	8x35
1/4	M6	12x45	10x45	10x40
5/16	M8	14x50	12x50	14x50
3/8	M10	16x60	14x60	16x60
1/2	M12	20x75	18x75	20x80
5/8	M16	24x100	/	24x100

- The thread rod length of other type longer 10mm at least than the shield.
- The Special length is available.

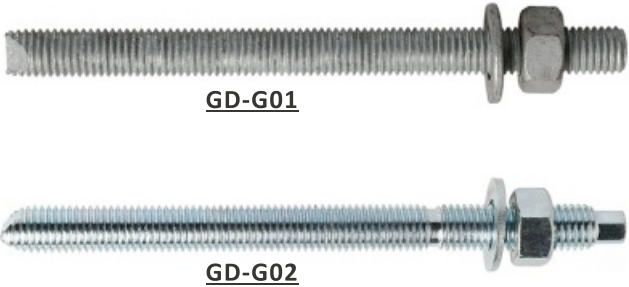
Wedge Anchor



Anchor Size	Thread Length	Min. Embedment
1/4 x 1-3/4 ~ 3"	3/4	1-1/8
3/8 x 2-1/4 ~ 5"	1-1/8	1-1/2
1/2 x 2-3/4 ~ 7"	1-1/4	2-1/4
5/8 x 3-1/2 ~ 8-1/2"	1-1/2	2-3/4
3/4 x 4-1/4 ~ 10"	1-1/2	3-1/4
7/8 x 6 ~ 10"	2-1/4	4
1 x 6 ~ 12"	2-1/4	4-1/2
1-1/4 x 9 ~ 12"	3-1/4	5-1/2

Anchor Size	Anchor Length
M6	40/55/70/95
M8	50/65/80/95/105/120/165/220
M10	65/80/95/115/120/130
M12	80/100/120/135/150
M16	105/140/180/220
M20	125/160/200/300

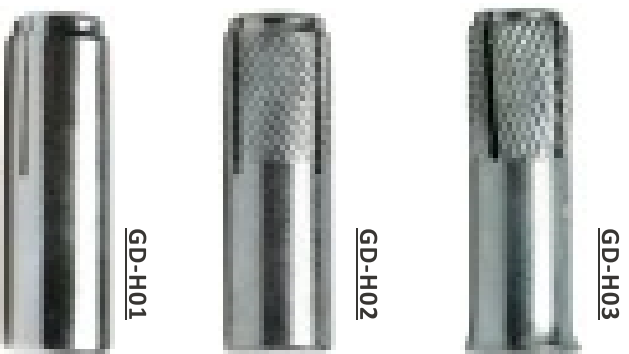
Chemical Anchor



Stud Size	Hole Dia	Hole Depth
5/16 x 4-1/2"	3/8"	3-3/8"
3/8" x 5"	7/16"	3-5/8"
1/2" x 6-1/4"	9/16"	3-9/16"
5/8" x 7-1/2"	3/4"	6"
3/4" x 10-1/4"	7/8"	7-1/2"
7/8" x 11-3/4"	1"	8-1/2"
1" x 11-3/4"	1-1/8"	8-1/2"
1-1/4" x 14-1/8"	1-7/16"	11-1/2"

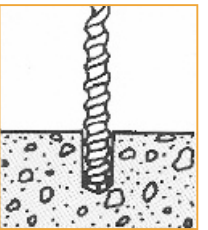
Stud Size	Hole Dia	Hole Depth
M8 x 110	310	80
M10 x 130	12	90
M12 x 160	14	110
M16 x 190	18	125
M20 x 260	25	170
M24 x 300	28	210
M30 x 380	35	280

Drop In Anchor

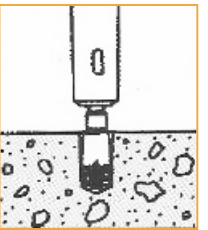


Thread Size	Anchor Out Dia	Anchor Length
1/4"	3/8"	1"
3/8"	1/2"	1-9/16"
1/2"	5/8"	2"
5/8"	7/8"	2-1/2"
3/4"	1"	3-1/8"

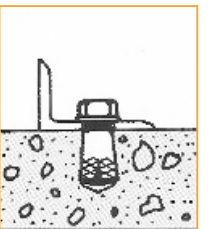
Thread Size	Anchor Out Dia	Anchor Length
M6	8.0	25
M8	10.0	30
M10	12.0	40
M12	16.0	50
M16	20.0	65
M20	25.0	80



Drill a hole.



Use setting tool & hammer to drive plug in



Anchor is set with bolt

Cut Anchor



Anchor Size	Anchor Out Dia	Anchor Length	Thread Length
1/4 M6	10.5	30	9
5/16 M8	12.0	35	12
3/8 M10	14.0	40	14
1/2 M12	17.5	52	20
5/8 M16	21.4	63	24
3/4 M20	25.4	83	31
7/8 M22	28.5	93	36

Sleeve Anchors



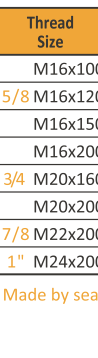
GD-N04

	Thread Size	Sleeve Dia	Sleeve Length
3/16	M5x40	6.5	30.5
1/4	M6x50	8.0	33
5/16	M8x65	10.0	40
5/16	M8x75	10.0	55
3/8	M10x65	12.7	38
3/8	M10x75	12.7	51
1/2	M12x75	16.0	45
1/2	M12x90	16.0	55
1/2	M12x100	16.0	65
5/8	M16x100	19.0	55
3/4	M20x140	23.0	85



GD-N03

	Thread Size	Sleeve Dia	Sleeve Length	Drill Dia
1/4	M6x50	9.5	30	9.5
5/16	M8x65	12.0	35	12.0
	M8x70	12.0	35	12.0
	M10x70	14.0	40	14.5
3/8	M10x80	14.0	40	14.5
	M10x100	14.0	40	14.5
	M10x120	14.0	40	14.5
1/2	M12x100	17.3	50	18.0
1/2	M12x120	17.3	50	18.0
	M12x150	17.3	50	18.0
	M12x200	17.3	50	18.0



GD-EA

	Thread Size	Sleeve Dia	Sleeve Length	Drill Dia
	M16x100	21.7	60	22.0
5/8	M16x120	21.7	60	22.0
	M16x150	21.7	60	22.0
	M16x200	21.7	60	22.0
3/4	M20x160	25.4	80	26.0
	M20x200	25.4	80	26.0
7/8	M22x200	28.6	90	29.0
1"	M24x200	31.8	110	33.0

Made by seamless pipe



GD-EA05



GD-EA06

6 Points Sleeve

Thread Size	Sleeve Dia	Bolt Length
1/4	5/16	1-1/2" ~ 2-1/2"
5/16	3/8	1-7/8" ~ 4"
3/8	1/2	2-1/4" ~ 4"
1/2	5/8	2-1/4" ~ 6"
5/8	3/4	2-1/2" ~ 6-1/4"



GD-EA01



GD-EA02

9 holes Sleeve

Thread Size	Sleeve Dia	Sleeve Length	
5/16	M8x55	10.0	35
5/16	M8x75	10.0	55
3/8	M10x85	12.7	60
3/8	M10x110	12.7	80
1/2	M12x90	16.0	55
1/2	M12x110	16.0	75



GD-EB01



GD-EB02



GD-EB03



GD-EB04



GD-EB05



GD-EB06

Israel Sleeve

Thread Size	Sleeve Dia	Sleeve Length
1/4	3/8	47
5/16	7/16	50
3/8	1/2	56
1/2	5/8	68



GD-EC01



GD-EC02



GD-EC03



GD-EC06



GD-EC07



GD-EC08

L Bolt & Hook Bolt & Eye Bolt Sleeve With Conical Nut

Thread Size	Sleeve Dia	Bolt Length	
1/4	M6	8	45
1/4	M6	8	60
5/16	M8	10	60
5/16	M8	10	80
3/8	M10	12	70
3/8	M10	12	100
1/2	M12	16	80
1/2	M12	16	110

Fixing System

Nylon Plug With Screw



GD-K01



GD-K02



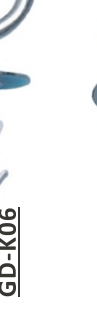
GD-K03



GD-K04



GD-K05



GD-K06



GD-K07

SHIELD SIZE

Dia	Length
9	40
9	55
12	45
12	58

Steel Plug With Screw



GD-K11



GD-K12



GD-K13



GD-K14



GD-K15



GD-K16



GD-K17

SHIELD SIZE

Dia	Length
8	38
9	40

Rubber Plug With Screw



GD-K21



GD-K22



GD-K23



GD-K24



GD-K25



GD-K26



GD-K27

SHIELD SIZE

Dia	Length
9	40
12	45

Hollow Wall Anchor



GD-O21



GD-O22



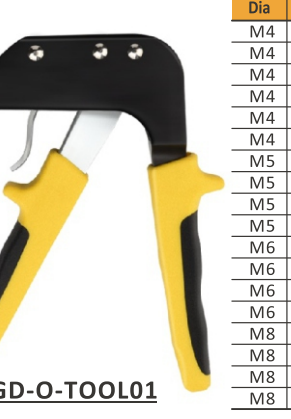
GD-O23



GD-O24



GD-O25



GD-O-T00L01

Thread Dia	Sleeve Length	Drill Hole Dia
M4	21	8mm
M4	32	
M4	38	
M4	46	
M4	52	10mm
M4	60	
M5	37	
M5	52	
M5	65	12mm
M5	80	
M6	37	
M6	52	
M6	65	12mm
M6	80	
M8	37	
M8	52	
M8	65	12mm
M8	80	

Frame Anchor



Metal Frame Anchor

Anchor Size	Screw Size	Fixing Max Length
8x75	M5x60	30
8x72	M5x80	40
8x92	M5x100	60
8x112	M5x120	80
8x132	M5x140	100
8x172	M5x180	140
10x52	M6x60	60
10x72	M6x80	40
10x92	M6x100	60
10x112	M6x120	80
10x132	M6x140	100
10x152	M6x160	140
10x182	M6x190	150
10x202	M6x210	165

GD-M01

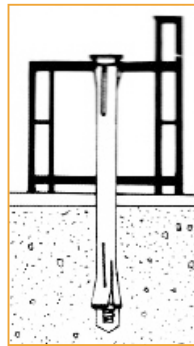
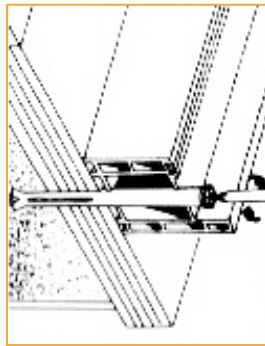


Nylon Frame Anchor

Anchor Size	Screw Size	Fixing Max Length
8x75	M5x80	50
8x100	M5x110	60
8x120	M5x130	60
8x140	M5x150	60
10x75	M6x80	70
10x100	M6x110	70
10x120	M6x130	70
10x140	M6x150	70
10x165	M6x175	70

GD-M02

- The frame anchors for window and door frames.
- For fixing of plastic, wood aluminum window and door frames to concrete, brick, hollow blocks and cheeker brick.
- Yellow Zinc plated passivated steel screw with special pozi drive head adapted to receive push-in caps of various colour.
- Cap colours: white, dark brown, gray.



Toggle Anchor



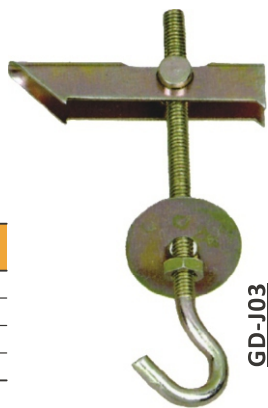
GD-I01



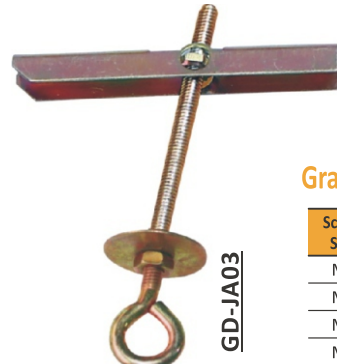
GD-I02

Spring Toggle

Screw Size	Screw Length
M3	75~100
M4	75~100
M5	75~100
M6	75~100



GD-J03



GD-JA03

Gravity Toggle

Screw Size	Screw Length
M4	75~100
M5	75~100
M6	75~100
M7	75~100

Other Anchors



GD-N01



GD-N01A

Hex/Round Coupling Nut

Popular size	Thread size	x Length
inch size	metric size	metric size
#10-24x3/4	M5-P0.8x20~25	M4-P0.7x15~20
1/4-20x7/8	M6-P1.0x15~50	M5-P0.8x20~25
3/8-16x1~1-1/8	M8-P1.25x20~50	M6-P1.0x10~50
7/16-14x1~1-3/4	M10-P1.5x25~50	M8-P1.25x15~50
1/2-13x1-1/2~1-3/4	M12-P1.75x30~50	M10-P1.5x20~50
5/8-11x1-1/2~2-1/8		M12-P1.75x20~60
3/4-10x1-1/2		
7/8-9x2-1/2		



GD-N05

Ceiling Anchor

Popular size

6.5x35
6.5x65



GD-R01

Tie Wire Anchor

Popular size
M6x50
M6x60
M6x67
M6x120



GD-R03

Metal Plug Anchor

Popular size

ANCHOR SIZE	DILL DIA
5x30	6~8
6x32	7~9
8x38	10~12
8x60	10~12
10x60	12~14



GD-R06

Express Nail

Popular size

5x26	8x70
5x50	8x90
6x30	8x110
6x40	8x120
6x50	8x130
6x60	8x150
6x80	8x180

Lag Screw Shields



Popular size	length	drill dia	qty box/ctn	kgs/1000pcs	pull out load kgs
1/4S	1"	1/2"	200/1800	9.00	250
1/4L	1-1/2"	1/2"	200/1200	13.20	310
5/16S	1-1/4"	1/2"	200/1800	11.00	44
5/16L	1-3/4"	1/2"	200/1200	16.00	620
3/8S	1-3/4"	5/8"	100/600	26.80	640
3/8L	1-2/2"	5/8"	100/600	34.50	1100
1/2S	2"	3/4"	100/600	34.20	1240
1/2L	3"	3/4"	50/800	52.60	1670
5/8S	2"	7/8"	25/125	59.00	1280
5/8L	3-1/2"	7/8"	25/125	100.00	1730
3/4S		1"	25/125	72.60	1640
3/4L		1"	25/125	111.00	2020

Double/Single Expansion Anchors



Popular size	Min drill dia	hole depth	qty box/ctn	kgs/1000pcs	pull out load kgs
1/4-20	1/2	1-3/8	50/250	17.0	1080
5/16-18	5/8	1-5/8	50/250	25.0	1150
3/8-16	3/4	1-5/8	50/250	23.8	1570
1/2-13	7/8	2-1/2	25/125	69.0	2650
5/8-11	1	2-3/4	25/125	109.0	4420
3/4-10	1-1/4	2-7/8	10/100	195.0	5680



Popular size	Min drill dia	hole depth	qty box/ctn	kgs/1000pcs	pull out load kgs
1/4-20	1/2	1-1/4	50/500	18.2	1080
5/16-18	5/8	1-1/2	50/500	34.0	1340
3/8-16	3/4	1-3/4	50/250	57.0	2260
1/2-13	7/8	2-1/4	25/250	82.0	4110
5/8-11	1	2-1/2	25/100	114.0	6170
3/4-10	1-1/4	2-1/2	10/100	250.0	7710

Zinc Alloy Hammer Drive Anchor



Popular size	Max fastened thickness	qty box/ctn	kgs/1000pcs	pull out load kgs
3/16x7/8	1/4	100/5000	4.6	230
1/4x3/4	3/16	100/4000	7.3	270
1/4x1	1/4	100/3000	9.0	330
1/4x1-1/4	1/2	100/2000	10.5	370
1/4x1-1/2	3/4	100/2000	11.8	430
1/4x2	1-1/4	100/1500	15.0	520
M5x20	6.3	100/5000	4.6	230
M6x30	12	100/2000	9.8	350
M6x40	22	100/2000	11.3	410
M6x50	32	100/1500	14.5	500
M6x65	45	100/1000	17.0	600

- Can be used in all types of masonry from concrete to brick.
- Unique four-way expansion assures a tight grip even in out of round holes.
- Short style for hard masonry, long style for soft.
- Rust-proof.
- The test values listed were obtained using 200~250kgs/cm² concrete (no aggregated).
- A safe working load should not exceed 25% of stated value.

Single Expansion Anchor

- Can be used for fastening into rock, concrete, brick, etc.
- If bolt is removed and replaced, holding power is unaffected.
- One-piece design, made of zinc alloy, is entirely rust-proof.

Double Expansion Anchor

- Can be used for fastening into rock, concrete, brick, etc.
- Eliminates high stress points detrimental in fastening into materials of medium hardness, expands fully and has high gripping power.
- Ideal for sheer loads or where bolt is subject to side pressure or vibration.
- Does not fracture, and permits fastenings at any length.
- The test values listed were obtained using 200~250kgs/cm² concrete (no aggregated).
- A safe working load should not exceed 25% of stated value.

Metal Drywall Anchor



GD-Z5

Popular size
HEAD SIZE x LENGTH

12 x 30mm
12 x 40mm



GD-Z01

One Point
14 x 28mm

GD-Z02

One Point
14 x 38mm

GD-Z03

Tne Point
15 x 32mm

GD-Z04

Three Point
12.7 x 32mm

GD-Z05

Three Point
13 x 42mm

GD-Z06

14 x 25mm
14 x 38mm

Plastic Plugs



GD-P01

Extruded-Like

GD-P02

Star-Like

Plug Size	Color	Hole
5/32x1	Yellow	4
3/16x1	White	5
3/16x1-1/2	White	5
3/16x2	White	5
15/64x1	Red	6
15/64x1-1/2	Red	6
15/64x2	Red	6
1/4x1	Green	7
1/4x1-1/4	Green	7
1/4x1-1/2	Green	7
1/4x2	Green	7

Plug Size	Color	Hole
5/16x1	Blue	8
5/16x1-1/2	Blue	8
5/16x2	Blue	8
3/8x1	Orange	10
3/8x1-1/2	Orange	10
3/8x2	Orange	10
3/8x2-1/2	Orange	10
1/2x2	Grey/Black	12
1/2x2-1/4	Grey/Black	12
1/2x2-1/2	Grey/Black	12

Plug Size	Color	Hole
4 x 25	Yellow	4
5 x 25	White	5
5 x 35	White	5
6 x 25	Red	6
6 x 30	Red	6
6 x 35	Red	6
6 x 38	Red	6
6 x 50	Red	6
7 x 25	Green	7
7 x 30	Green	7
7 x 35	Green	7
7 x 38	Green	7
7 x 50	Green	7

Plug Size	Color	Hole
8 x 25	Blue	8
8 x 35	Blue	8
8 x 38	Blue	8
8 x 50	Blue	8
10 x 35	Orange	10
10 x 38	Orange	10
10 x 50	Orange	10
10 x 63	Orange	10
12 x 50	Grey	12
12 x 60	Grey	12
12 x 75	Grey	12



GD-P07



GD-P08



GD-P09



GD-P10

Tower-Like

Plug Size	Screw dia	Hole	Color
3/16x7/8"	6# ~ 8#	3/16	Yellow
5 x 22			
3/16x1"	8# ~ 10#	3/16	White
5 x 25			
1/4x1-1/4"	10# ~ 12#	1/4	Blue
6 x 30			
5/16x1-1/2"	12# ~ 14#	5/16	Green
8 x 38			

Plug Size	Screw Dia	Hole	Color
3/16x7/8"	6# ~ 8#	5mm	White
5 x 22			
1/4x1"	8# ~ 10#	6mm	Green
6 x 25			
7 x25	8# ~ 10#	7mm	/
5/16x1-1/4"	10# ~ 12#	8mm	Yellow
8 x 30			
10 x36	14# ~ 16#	10mm	/

Plug Size	Screw Dia	Hole	Color
5 x 22	6# ~ 8#	5mm	/
1/4x1"	8# ~ 10#	6mm	Red
6 x 25			
7 x25	8# ~ 10#	7mm	/
5/16x1-1/4"	10# ~ 12#	8mm	Yellow
8 x 30			
3/8x1-1/2"	14# ~ 16#	10mm	Green
10 x36			

Wedge-Like

Plug Size	Screw Dia	Hole
3/16x3/4"	6# ~ 8#	3/16
5 x 19		
3/16x7/8"	8# ~ 10#	3/16
5 x 22		
1/4x1"	10# ~ 12#	1/4
6 x 25		
5/16x1-3/8"	12# ~ 14#	5/16
8 x 35		



GD-P03A



GD-P03B



GD-P03C



GD-P03D

Universal Anchor

Plug Size	Screw Dia	Hole
6 x 36	3mm	6mm
8 x 50	4mm	8mm
10 x 60	5mm	10mm

Plug Size	Screw Dia	Hole
5 x 30	3.0~3.5mm	5mm
6 x 36	3.5~4.0mm	6mm
6 x 60	3.5~4.0mm	6mm
8 x 50	4.0~5.0mm	8mm
10 x 60	5.0~6.0mm	10mm
12 x 60	6.0~8.0mm	12mm

Plug Size	Screw Dia	Hole
5 x 31	3mm	5mm
6 x 36	4mm	6mm
8 x 50	5mm	8mm
10 x 60	6mm	10mm
12 x 70	8mm	12mm
14 x 75	10mm	14mm

Plug Size	Screw Dia	Hole
5 x 31	3mm	5mm
6 x 36	4mm	6mm
6 x 51	4mm	6mm
8 x 50	5mm	8mm
10 x 60	6mm	10mm
12 x 70	8mm	12mm
14 x 75	10mm	14mm



GD-P04A



GD-P04B

Plug Size	Screw Dia
5 x 25	2.5~4mm
6 x 30	3.5~5mm
7 x 35	4~6mm
8 x 40	4.5~6mm



GD-P05A



GD-P05B

Plug Size	Screw Dia
5 x 25	2.5~4mm
6 x 30	3.5~5mm
7 x 35	4~6mm
8 x 40	4.5~6mm



GD-P06A



GD-P06B

Fish-Like

Plug Size	Screw Dia	Plug Size	Screw Dia
6 x 30	3.5~5mm	12 x 60	8~10mm
8 x 40	4.5~6mm	14 x 70	10~12mm
10 x 50	6~8mm	16 x 80	12~14mm



GD-L02A

Plug Size	Screw Size
5 x 25	3.5x28
5 x 30	3.5x33
5 x 35	3.5x38
5 x 40	3.5x43
5 x 50	3.5x53
6 x 30	3.8x33
6 x 35	3.8x38
6 x 40	3.8x43
6 x 45	3.8x48
6 x 50	3.8x53
6 x 55	3.8x58
6 x 70	3.8x73
6 x 80	3.8x83
6 x 100	3.8x103



GD-L02B

Plug Size	Screw Size
5 x 25	3.5x28
5 x 30	3.5x33
5 x 35	3.5x38
5 x 40	3.5x43
6 x 35	3.8x38
6 x 40	3.8x43
6 x 50	3.8x53
6 x 55	3.8x58



GD-P11



GD-P12

Special Fish-Like

Plug Size	Screw Dia	Plug Size	Screw Dia
6 x 30	3.5~5mm	12 x 60	8~10mm
8 x 40	4.5~6mm	14 x 70	10~12mm
10 x 50	6~8mm		



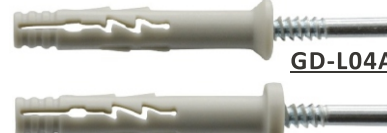
GD-L02C

Plug Size	Screw Size
6 x 40	3.8x43
6 x 60	3.8x63
6 x 80	3.8x83



GD-L03

Plug Size	Screw Size
5 x 35	3.5x38
5 x 45	3.5x50
6 x 40	4.2x45
6 x 60	4.2x65
6 x 80	4.2x85
8 x 60	5.2x65
8 x 80	5.2x85
8 x 100	5.2x105
8 x 120	5.2x125



GD-L04A



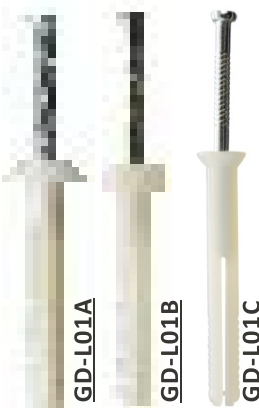
GD-L04A



GD-L04C

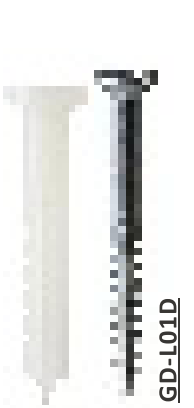
Hammer Fixing Anchor

Plug Size	Screw Size	Plug Size	Screw Size
6 x 40	3.8x43	8 x 60	4.8x63
6 x 60	3.8x63	8 x 80	4.8x83
6 x 80	3.8x83	8 x 100	4.8x103
		8 x 120	4.8x123



Nail Drive Anchor

Plug Size	Screw Size
3/16x3/4"	5 x 20
3/16x1"	5 x 25
3/16x1-1/4"	5 x 30
3/16x1-1/2"	5 x 38
1/4x3/4"	6 x 20
1/4x1"	6 x 25
1/4x1-1/2"	6 x 38
1/4x2"	6 x 50
1/4x3"	6 x 75
1/4x4"	6 x 100



Plug Size	Screw Size
5 x 33	3.5x38
6 x 47	4.0x50
6 x 57	4.0x60
6 x 70	4.0x75
8 x 55	4.5x58
8 x 75	4.5x78
8 x 101	4.5x105

Nylon Nail Drive Anchor

Plug Size
3/16x3/4"
1/4x3/4"
1/4x1"
1/4x1-1/2"
1/4x2"
1/4x3"
1/4x4"
1/4x5"
1/4x6"

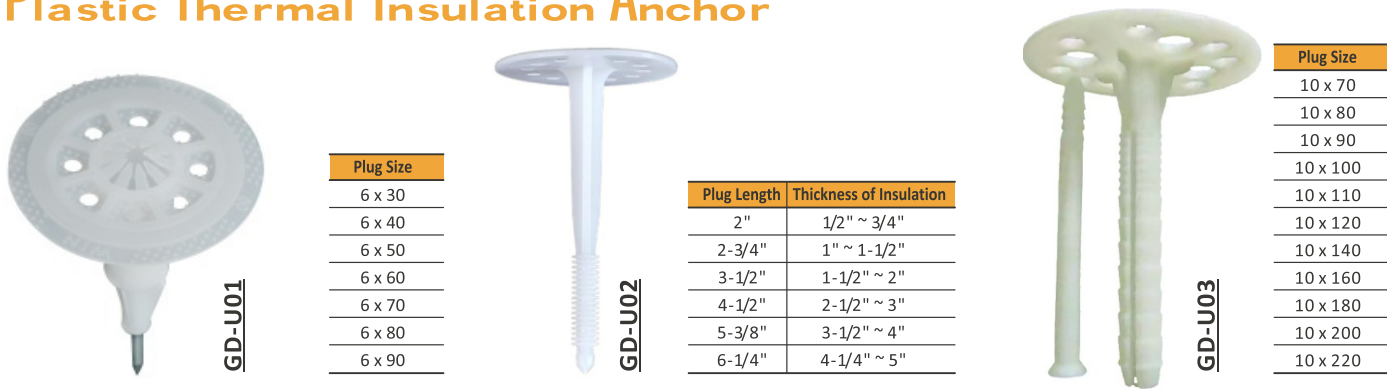
Plastic Drywall Anchor



Plastic Toggle Anchor



Plastic Thermal Insulation Anchor



Sanitary Fixing



Mirror Nails



- Applications**
- Stainless standoff screws are made of stainless steel, after brushed finish
 - Modern-styled design eliminates the need for a frame, easy to install and heavy duty
 - Screws holders are suitable for indoor or outdoor use, mounting signs in office, store and exhibition billboard

Plug Dia		Plug Length													
12	20/22	25	30	40	50	60	70	80	100	120	150	200	250	300	
16		25	30	40	50	60	70	80	100	120	150	200	250	300	
18		25	30	40	50	60	70	80	100	120	150	200	250	300	
19		25	30	40	50	60	70	80	100	120	150	200	250	300	
22		25	30	40	50	60	70	80	100	120	150	200	250	300	
25		25	30	40	50	60	70	80	100	120	150	200	250	300	
30		25	30	40	50	60	70	80	100	120	150	200	250	300	
40		25	30	40	50	60	70	80	100	120	150	200	250	300	

Stainless Glass Clamp



Art No.	LxWxBxTxC	Fit Glass Thickness	Thickness	Gram/Pc
GD-SAS	26x20x15x10x13	6~8	1.8	15
GD-SAM	36x26x18x13x24	10	1.8	26
GD-SAL	45x34x19x14x32	12	2	48

Art No.	LxWxBxTxC	Fit Glass Thickness	Thickness	Gram/Pc
GD-RAS	27x20x15x11x15	6~8	1.8	16
GD-RAM	37x26x18x12x24	8~12	1.8	35
GD-RAL	46x34x19x14x32	12	2	55

Zinc Alloy Adjustable Glass Clamp



Art No.	Size	Fit Glass Thickness	Gram/Pc
GD-ZK161	40x25x55	3~20	55

Art No.	Size LxBxH	Fit Glass Thickness	Gram/Pc
GD-ZK168	40x22x38	3~15	24
GD-ZK169	50x26x50	3~16	34
GD-ZK170	65x28x57	3~20	55
GD-ZK171	98x36x84	3~32	162

Package







Display-Innerbox



Display-Jar





Bucket / Pail





Hanging Card



Single Blister



Double Blister



Comp Box

Production Process



Quality Test

