



## INDEX

Pan 03 Flat 04 Hex 05 Pias colored cap 06 Thin washer 07 Pan washer 07	Wing Pias08Pias stainless capped screw08Sealed Hex09Sealed Pan09Long point(#5)09Mini point10
For fixing of deck plates •••••••••13	Pias pan for enameled material •••••15
For fixing of deck plate to fixing frame ••13	Twin Pias •••••••••••••••••••
Pias cap for deck plate screw ••••••13	Pias inserts •••••••••••••••••15
Fixing frame ••••••••••••••••••••••••••••14 For ALC panel on steel beam •••••••14	
Pias flower head ••••••••••••14	
Super Piasta ••••••••••••••••	
Piasta ••••••17 Red Pias •••••••••••••••••••	
DS	
Pias con ···································	
For ALC panel on wood ••••••••••22 Washer ••••••••••••••••••••••••	
Packing rubber ••••••••••••••••22	
Bonded washer ••••••••••••••22	
Technical information ••••••••••10/11	

# Excellence

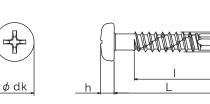


Pan



Excellent cutting edge

Size	Quantity × small box	L	l (Thread)	arphidk	h	Cross recess	φd	Thickness applied c	Trivalent hrome (White)	SUS410 Passivated	SUS410 Tin plating
3.5 × 10 3.5 × 13 3.5 × 16 3.5 × 19 3.5 × 25	1.500 × 10 1,000 × 10 1,000 × 10 800 × 10 600 × 10	10 13 16 19 25	Fully threaded	7.0	2.8	#2	3.5	0.9~2.3	•		
4 × 10 4 × 13 4 × 16 4 × 19 4 × 25 4 × 30	1,000 × 10 1,000 × 10 1,000 × 10 700 × 10 500 × 10 400 × 10	10 13 16 19 25 30	Fully threaded	8.2	2.9	#2	4.2	0.9~2.6	• • • •	• • • •	• • • •
4 × 35 4 × 40 4 × 45 4 × 50	$800 \times 4$ 700 × 4 600 × 4 600 × 4	35 40 45 50	30 37 30						•		
$5 \times 13$ $5 \times 16$ $5 \times 25$ $5 \times 30$ $5 \times 35$ $5 \times 40$ $5 \times 45$	$600 \times 10$ $600 \times 10$ $500 \times 10$ $1.000 \times 4$ $700 \times 4$ $500 \times 4$ $500 \times 4$	13 16 19 25 30 35 40 45	Fully threaded	9.5	3.3	#2	4.8 SUS410 (5.0)	1.6~4.0		•	• • •
6 × 19 6 × 25 6 × 35	1.000 × 4 800 × 4 500 × 4	19 25 35	Fully threaded	10.2	4.0	#3	6.0	2.3~4.5	•		



φq

## Pan Austenitic stainless steel

Passivated (For soft material, aluminum etc.)

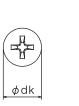
$4 \times 13 \ 1,000 \times 10$ $4 \times 16 \ 1,000 \times 10$ Fully 8.2 2.9 #2 4.2	S		Quantity × small box	l (Thread)	φdk		Cross recess		Thickness applied
4 × 19 700 × 10 1.2~ 4 × 25 500 × 10 4 × 30 400 × 10	4 4 4 4	× 13 × 16 × 19 × 25	1,000 × 10 1,000 × 10 700 × 10 500 × 10	,	8.2	2.9	#2	4.2	0.9~2.6 1.2~3.6

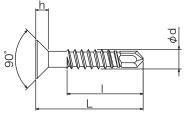
## Flat



## Stable drillability

Size	Quantity × small box	L	l (Thread)	φdk	h	Cross recess	φd	Thickness applied	Trivalent chrome (White)	SUS410 Passivated	SUS410 Tin plating
$3.5 \times 10$ $3.5 \times 13$ $3.5 \times 16$ $3.5 \times 19$ $3.5 \times 25$	2,000 × 10 1,500 × 10 1,000 × 10 1,000 × 10 700 × 10	10 13 16 19 25	Fully threaded	7.0	1.9	#2	3.5	0.9~2.3	• • •	•	•
$4 \times 10  4 \times 13  4 \times 16  4 \times 19  4 \times 25  4 \times 30  4 \times 35  4 \times 40$	$\begin{array}{c} 1,500 \times 10 \\ 1,000 \times 10 \\ 1,000 \times 10 \\ 1,000 \times 10 \\ 500 \times 10 \\ 500 \times 10 \\ 1,000 \times 4 \\ 700 \times 4 \end{array}$	10 13 16 19 25 30 35 40	Fully threaded	8.0	2.3	#2	4.2	0.9~2.3		• • • •	• • • •
$4 \times 45$ $4 \times 50$ $4 \times 60$ $4 \times 65$ $4 \times 70$ $4 \times 75$	600 × 4 600 × 4 400 × 4 400 × 4 400 × 4 400 × 4	45 50 60 65 70 75	37						• • •		
$5 \times 13$ $5 \times 16$ $5 \times 19$ $5 \times 25$ $5 \times 30$ $5 \times 35$ $5 \times 40$ $5 \times 45$	$1,000 \times 10$ $700 \times 10$ $500 \times 10$ $1,000 \times 4$ $1,000 \times 4$ $700 \times 4$ $500 \times 4$	13 16 19 25 30 35 40 45	Fully threaded	10.0	2.8	#2	4.8 SUS410 (5.0)	1.6~4.0	•	•	•
$5 \times 40$ $5 \times 50$ $5 \times 60$ $5 \times 65$ $5 \times 70$ $5 \times 75$	400 × 4 400 × 4 300 × 4 300 × 4 250 × 4	50 60 65 70 75	30 42				()		•	•	•

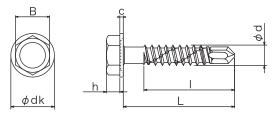








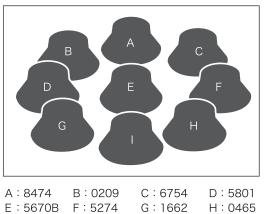
Size	Quantity × small box	L	l (Thread)	$\phi$ dk	В	h	φd	Thickness applied	Trivalent chrome (White)	SUS410 Passivated	SUS410 Tin plating
4 × 13 4 × 16 4 × 19 4 × 25	2,000 × 4 2,000 × 4 1,500 × 4 1,000 × 4	13 16 19 25	Fully threaded	9.0	7.0	2.8	4.2	1.2~3.6	• • •		
$5 \times 16$ $5 \times 19$ $5 \times 25$ $5 \times 35$ $5 \times 45$	1,000 × 4 1,000 × 4 1,000 × 4 500 × 4 500 × 4	16 19 25 35 45	Fully threaded	11.0	8.0	3.9	4.8 SUS410 (5.0)	2.3~4.4	• • •	• • •	• • •
5 × 50 5 × 60 5 × 70	400 × 4 300 × 4 250 × 4	50 60 70	35				()		•		
6 × 19 6 × 25 6 × 30 6 × 35 6 × 40 6 × 45	$500 \times 4$ $500 \times 4$ $500 \times 4$ $500 \times 4$ $300 \times 4$ $300 \times 4$	19 25 30 35 40 45	Fully threaded						•	•	•
6 × 50 6 × 60 6 × 70 6 × 75 6 × 80 6 × 90	$300 \times 4$ $200 \times 4$ $200 \times 4$ $200 \times 4$ $200 \times 4$ $200 \times 4$	50 60 70 75 80 90	35 58	13.0	9.5	4.8	6.0	2.3~6.0		•	
6 × 105 6 × 115 6 × 135 6 × 150	150×4 150×4 150×4 100×4	105 115 135 150	68						•	•	



Hex

## Pias colored cap







#### High-grade-anti-corrosion

The material, soft polyvinyl chloride, is the same one selected carefully for the sealing material of window frame of car, and therefore the cold resistance, heat resistance and weather resistance, including against UV light, are guaranteed adequately.

Electro-galvanized steel screws with the caps, which are fastened into color steel plates, stainless and aluminum plates respectively, pass 20 cycles of sulfur dioxide gas corrosion test (DIN 50018, 2.0 litters per 300 litter tank).

#### Cost savings

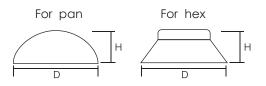
More cost-effective compared with others' competitive products which are aimed for sealing purpose.

#### Note

- Pias cap itself restores the deformed shape, which is caused during the packing and transporting, to its original state by exposing it to sun.
- Pias cap is designed to fit in with Pias screws. In that case the cap was put on screw heads of others' products, there would be a possibility that the cap is slipped and inconvenience may be caused to you due to patent law.

Head	Dia	D	Н
Pan	M4(8#) M5(10#)(12#)	14.6φ 18φ	5.6 6.0
Hex	M5(10#)(12#) M6(14#)	19.2φ 20.8φ	8.1 9.2

Actual colors of the products are different from the ones of the phote to some degree.



## Custom-made caps

I: black

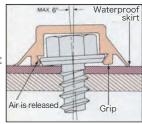
Contact us for other colors.

#### Wide range of use and colors

Suitable for exterior use, for which corrosion resistance, water-proof and good appearance are required, and interior use, too. 9 colors are available now, and other colors are also available with no extra charge in that case more than 50,000 pieces of the cap is ordered at all once.

#### Unique mechanism of sealing

For advantageous effect of gripping part, the cap is not slipped even when it is exposed to solar heat. Even in that case screws are not fastened straight into panels, the caps seal the screw heads completely if the tilt is up to 6 degrees. In addition, the caps can stand up to wind speed at 100 meter per



second, and no rain goes inside. Therefore dissimilar corrosion is prevented which sometimes happens under the condition that material of panels is different from screw material.

## Thin washer

Trivalent chrome(white) : coarse thread, straight under head.



Size	Quantity × small box	L	l (Thread)	φdk	h	Cross recess	φd	Thickness applied
4×13 4×16 4×19 4×25 4×30	$800 \times 10$ $600 \times 10$ $500 \times 10$ $500 \times 10$ $400 \times 10$	13 16 19 25 30	Fully threaded	11.0	2.5	#2	4.2	1.2~3.6
								¢ q

h

ødk .

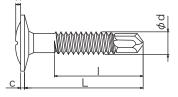
## Thin washer

Trivalent chrome(white) : fine pitch thread, 24 threads, tapered under head.



Size	Quantity × small box	L	l (Thread)	φdk	h	С	Cross recess	φd	Thickness applied
5 × 13 5 × 16 5 × 22 5 × 35	1500 × 4 1500 × 4 1000 × 4 500 × 4	13 16 22 35	Fully threaded						
5 × 40 5 × 45	$500 \times 4$ $500 \times 4$	40 45		12	1.7	0.8	#2	4.8	1.6~4.0
5 × 50 5 × 60 5 × 70 5 × 80	400 × 4 300 × 4 300 × 4 300 × 4	50 60 70 80	35						
5 × 90 5 × 100	200 × 4 200 × 4	90 100	50						



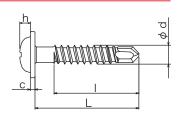


## Pias pan washer Trivalent chrome(white)



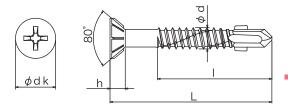
Size	Quantity × small box	L	l (Thread)	φdk	h	с	Cross recess	φd	Thickness applied
4×13 4×16 4×19 4×25	800 × 10 600 × 10 500 × 10 500 × 10	13 16 19 25	Fully threaded	10.0	2.1	0.9	#2	4.2	1.2~3.6
$5 \times 13$ $5 \times 16$ $5 \times 25$ $5 \times 35$ $5 \times 45$	500 × 10 1000 × 4 1000 × 4 800 × 4 500 × 4 500 × 4	13 16 19 25 35 45	Fully threaded	12.5	2.2	1.0	#2	4.8	1.6~4.0





## Wing Pias Trivalent chrome(white)





Size	Quantity × small box	L	l (Thread)	φdk	h	Cross recess	φd	Thickness applied
4 × 28 4 × 32 4 × 37 4 × 40 4 × 45	$500 \times 10$ $500 \times 10$ $400 \times 10$ $800 \times 4$ $600 \times 4$	28 32 37 40 45	Fully threaded	7.0	2.8	#2	4.2	2.3~3.6
4 × 55	600 × 4	55	42					
	1000 × 4 1000 × 4 800 × 4 500 × 4 500 × 4 400 × 4 300 × 4 300 × 4 250 × 4	25 32 42 45 50 60 70 80	Fully threaded 41 48 58	9.5	3.9	#2	4.8	2.3~4.0
$6 \times 35$ $6 \times 40$ $6 \times 45$ $6 \times 50$ $6 \times 55$ $6 \times 60$ $6 \times 70$ $6 \times 85$	500 × 4 400 × 4 300 × 4 300 × 4 250 × 4 250 × 4 250 × 4	35 40 45 50 55 60 70 85	Fully threaded	12.0	4.6	#3	6.0	2.3~6.0

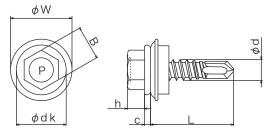
## Wing Pias SUS-410 passivation

Size	Quantity × small box	L	l (Thread)	φdk	h	Cross recess	φd	Thickness applied
	500×10 500×10 600×4		Fully threaded	7.0	2.8	#2	4.2	2.3~3.6

## Pias stainless steel capped screw

Trivalent chrome(white) Cap : Austenitic stainless steel





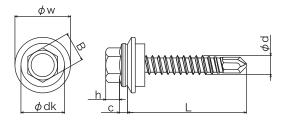
	Quantity × small box	L	l (Thread)	φdk	В	h	С	φw	φd	Thickness applied
5 × 19 5 × 25 5 × 35 5 × 45	750×4 650×4 450×4 350×4	19 25 35 45	Fully threaded	11.0	8.0	3.8	1.4	14	4.8	2.3~4.4
$6 \times 19$ $6 \times 25$ $6 \times 35$ $6 \times 45$ $6 \times 50$ $6 \times 60$ $6 \times 70$ $6 \times 90$ $6 \times 105$ $6 \times 135$ $6 \times 150$	400 × 4 300 × 4 250 × 4 200 × 4 150 × 4 150 × 4 125 × 4 125 × 4 100 × 4 100 × 4 80 × 4	19 25 35 45 50 60 70 90 105 115 135	Fully threaded 35 58 68	14.0	9.5	4.4	2.0	17	6.0	2.3~6.0

•For details of the washer and rubber, check the page 22. •Grey rubber is also avilable for bonded washers.

#### **Pias sealed hex** Trivalent chrome(white)



Size	Quantity × small box	L	l (Thread)	φdk	В	h	С	φw	φd	Thickness applied
	750 × 4 650 × 4 450 × 4 350 × 4	19 25 35 45	Fully threaded	11.0	8.0	3.9	1.8	14	4.8	2.3~4.4
6 × 19 6 × 25 6 × 35 6 × 45		19 25 35 45	Fully threaded	13.0	9.5	4.8	2.2	17	6.0	2.3~6.0



## Pias sealed pan Trivalent chrome(white)



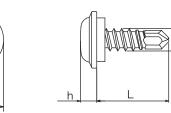
	Quantity × small box		l (Thread)	φdk		Cross recess	φd	Thickness applied
4×13	700 × 10	13	Fully threaded	10.0	3.0	#2	4.2	1.2~3.6

Н

φdk

•For details of the rubber, check the page 22.

φq



## Long point (No.5 point) Trivalent chrome(white) + waxed



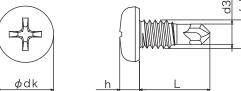
Size	Quantity × small box	L	l (Thread)	φdk	В	h	С	φd	d3	У	Thickness applied
5.5 × 32	600 × 4	32	Fully threaded	10.5	8.0	4.0	0.9	5.5	5.0	13.8	6.0~13.0
					_ <u>h</u>			φ			y d

## Mini point



#### Trivalent chrome(white)

Size	Quantity × small box	L	l (Thread)	φdk	h	Cross recess	φd	d3	Thickness applied
4×13	1,000 × 10	13	Fully threaded	8.0	2.9	#2	4.0	2.9	Steel 0.4 $\sim$ 1.0 Aluminum 0.6 $\sim$ 1.6
Ruspe	ert silver								
Size	Quantity × small box	L	l (Thread)	$\phi$ dk	h	Cross recess	φd	d3	Thickness applied
		L 10	I (Thread) Fully threaded		h 2.9	recess			



## **Technical Information**

# Pias self drilling screwsMaterial : SWCH16A · SWCH18A (JIS G 3570)Chemical compositionCSiMnPSAI

С	Si	Mn	Р	S	Al
0.13~0.20	max0.10	0.60~0.90	max0.03	max0.035	max0.02

## 

Thread dia	Thickness 1.2mm	Thickness 1.6mm	Thickness 2.3mm	Thickness 3.2mm	Thickness 4.2mm	Thickness 6.0mm
M3.5	1470	2156	3431	_	_	_
M4	1568	2352	3823	4607	7941	—
M5	—	2352	3921	6666	10294	—
M5.5	—	—	4117	6960	10882	<b>※</b> 17843
M6	_	_	4313	7156	12549	×20294

hear and tensi	ile strength	(N)	Torsional torque	(N∙m)
Thread dia	Shear strength	Tensile strength	Thread dia	Torque
M3.5	3029	4431	M3.5	3.98
M4	7254	11156	M4	6.68
M5	8843	13607	M5	11.14
M5.5	12058	18549	M5.5	15.41
M6	14323	20431	M6	21.55

(%)

(N)

Pias SUS-410 self drilling screws Material : Stainless steel (JIS G 4309 or AISI SUS-410) Chemical composition

С	Si	Mn	Р	S	Ni	Cr
max0.15	max1.00	max1.00	max0.040	max0.030	max0.6	11.50~13.50

(%)

(%)

### Pullout strength %Screw shank broken

Pullout strength *Screw shank broken (N									
Thread dia	Thickness 1.2mm	Thickness 1.6mm	Thickness 2.3mm	Thickness 3.2mm	Thickness 4.2mm	Thickness 6.0mm			
M3.5	1470	2156	3431	_	_	_			
M4	1568	2352	3823	4607	7941	—			
M5	—	2352	3921	6666	10294	—			
M5.5	_	—	4117	6960	10882	<b>※18529</b>			
M6	—	_	4313	7156	12549	<b>※20294</b>			

hear and tens	sile strength	(N)	Torsional torque	(N∙m)
Thread dia	Shear strength	Tensile strength	Thread dia	Torque
M3.5	3186	4843	M3.5	4.57
M4	5490	9245	M4	6.79
M5	8470	13607	M5	10.29
M5.5	9950	19039	M5.5	16.81
M6	11960	20098	M6	21.10

## Piasta self drilling screws Material : Austenitic bi-metal stainless steel, A2 (Piasta) Chemical composition

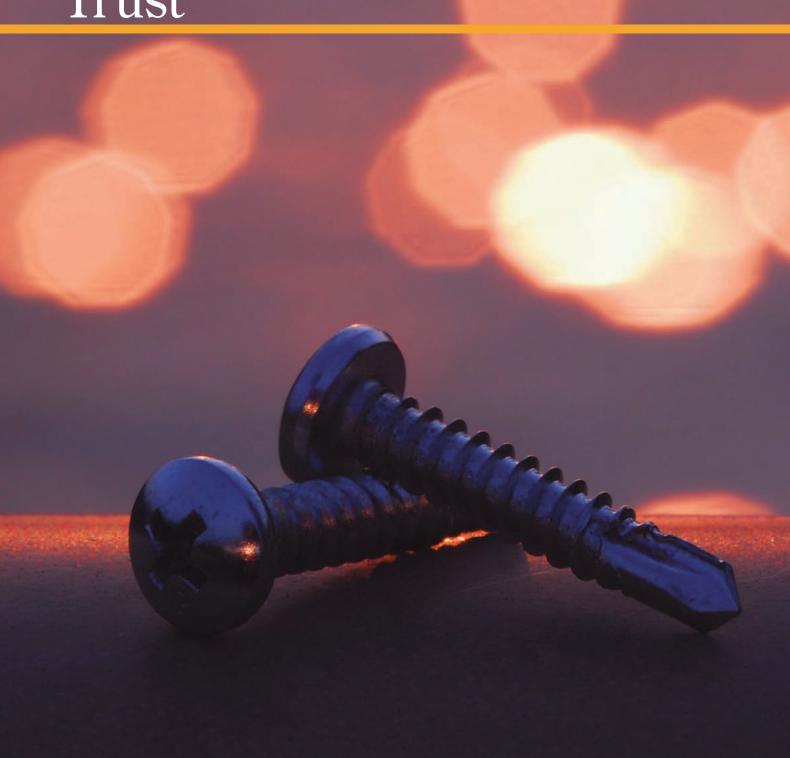
Ni	С	Si	Mn	Р	S	Cr	Cu
8.5~10.5	max0.08	max1.00	max2.00	max0.045	max0.030	17.0~19.0	3.0~4.0

Pullout stren	Pullout strength **Screw shank broken										
Thread dia	Thickness 1.2mm	Thickness 1.6mm	Thickness 2.3mm	Thickness 3.2mm	Thickness 4.2mm	Thickness 6.0mm					
M3.5	1470	1960	2549	_	_	_					
M4	1568	2255	4020	5980	—	—					
M5	—	2450	4215	6275	8431	—					
M5.5	—	—	4310	6765	8922	10020					
M6	_	_	4410	7647	9313	13530					

## Shear and tensile strenath

near and tens	sile strength	(N)	Torsional torque	(N∙m)
Thread dia	Shear strength	Tensile strength	Thread dia	Torque
M3.5	3040	4705	M3.5	2.5
M4	4805	7353	M4	3.8
M5	5980	9313	M5	6.3
M5.5	8627	13330	M5.5	8.3
M6	10588	16275	M6	12.6





## For fixing of deck plates



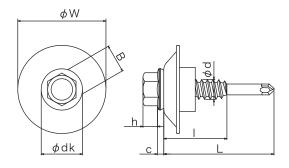
#### Chrome

(Hexavalent chrome screw and washer)

Size	Quantity × small box	L	l (Thread)	φdk	В	φw	h	С	φd	Thickness applied
6.3 × 35	100×10	35	20	13	9.5	28	4.8	2.2	6.3	0.5~1.2
Stainle	ss steel c	ap								

(Trivalent chrome white screw with pias stainless steel cap • Stainless steel washer)

Size	Quantity × small box	L	l (Thread)	φdk	В	φw	h	С	φd	Thickness applied
6.3 × 35	100×10	35	20	13	9.5	28	4.8	2.2	6.3	0.5~1.2



# For fixing of deck plate to fixing frame Chrome (Hexavalent chrome screw and washer)



Size	Quantity × small box	L	l (Thread)	φdk	В	φw	h	С	φd	Thickness applied
6.3 × 25	100×10	25	Fully threaded	13	9.5	28	4.8	2.2	6.0	2.3~6.0
				ØW	}	B				φ

## Pias cap for deck plate screw



Size	Quantity × small box	φd	Н
Grey Blue	150×8	32.8	14
		I	D

## Fixing frame



Size	Quantity/carton	Н	L	В	t	Ρ	For fixing of deck plate to fixing frame
88 × 600	50	93	595	30	2.3	200	6.3×25 150pieces per carton
		[	Ф8-4	•	0	> • e	
		I I			P		t

# For ALC panel on steel beam Hexavalent chrome



Size	Quantity × small box	L	l (Thread)	dk	w	h	φd	Thickness applied
5 × 60 5 × 65	300 × 4 250 × 4	60 65	35.0	12.0	13.0	3.0	4.6	2.3~4.4
				۶ <b>۱</b>				¢ •
			<u>dk</u>					

## Pias flower head Hexavalent chrome



Size	Quantity × small box	L	l (Thread)	dk	w	h	φd	Thickness applied
4×22	700×10	22	Fully threaded	8.0	2.0	4.8	4.0	1.2~3.6
			ødk	h,			-	\$ \$

# Pias pan for enameled material Hexavalent chrome

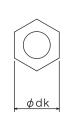


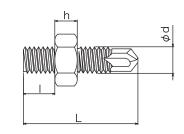
Size							Thickness applied
4×16	1,000 × 10	16	Fully threaded	8.0	2.9	4.2	1.2~3.6
			A bdk	°06 h		L	φ φ

# Twin pias Hexavalent chrome



Size	Quantity × small box	L	l (Thread)	arphidk	h	φd	Thickness applied
6 × 25 6 × 50 6 × 60 6 × 80	500 × 4 300 × 4 250 × 4 200 × 4	25 50 60 80	7.0 32.0 42.0 62.0	10.0	5.0	6.0	2.3~4.0





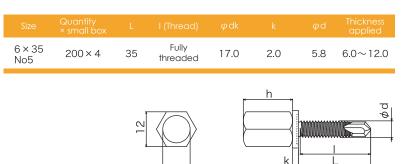
## Pias inserts Hexavalent chrome (3/8W)



## Pias inserts (standard)

Size	Quantity × small box	L	l (Thread)	φdk	k	φd	Thickness applied
6×25	250 × 4	25	Fully threaded	17.0	2.0	5.8	2.3~6.0

## Pias inserts (long point)



W3/8

# Innovation

Fulfilment of desired product against anti-corrosion

Patent obtained in key countries

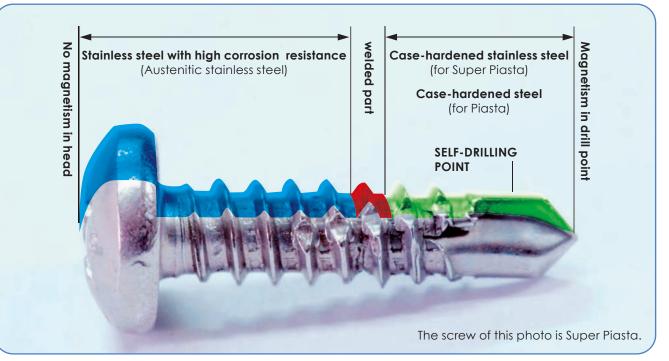
## SELF-DRILLING SCREWS by BHMETALS 18-8(A2) 51 R



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Туре	Size	Quantity × small box	Thickness applied	Super Piasta	Piasta	Туре
PAN	4×13 4×16	1,000 × 10 1,000 × 10	1.2~1.6 1.2~2.3	•	•	Wing screw
	4 × 19 4 × 25	700 × 10 500 × 10	1.2~3.2	•	•	Wing screw
PAN	5 × 19 5 × 25	500 × 10 500 × 10	1.6~3.2	•	•	Wing screw
	5 × 35	700 × 4	1.6~4.0	•	•	
HEX	5 × 19 5 × 25	1,000 × 4 1,000 × 4	1.6~3.2	•	•	Flat
HEX	5 × 35 5 × 45	500 × 4 500 × 4	1.6~4.0	•	•	Flat
	6×25	500 × 4	2.3~4.5		٠	
HEX	6 × 35 6 × 45	500 × 4 300 × 4	2.3~6.0		•	

Туре	Size	Quantity × small box	Thickness applied	Super Piasta	Piasta
Wing screw	4 × 32 4 × 37	500 × 10 400 × 10	2.3~3.2		•
Wing screw	5 × 37 5 × 45	800 × 4 500 × 4	2.3~3.2		•
Wing screw	6 × 70	250 × 4	2.3~5.5		٠
Flat	4 × 16 4 × 19 4 × 25	1,000 × 10 1,000 × 10 500 × 10	1.2~1.5 1.2~2.3 1.2~3.2	• •	
Flat	5 × 19 5 × 25	500 × 10 500 × 10	1.6~2.3 1.6~3.2	•	

Piasta pan

## **Characteristics of Super Piasta**

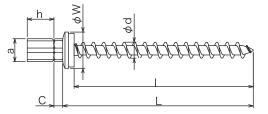
Self-drilling screw with advantages of 2 stainless steel : one with hardenability and the another one with high corrosion resistance.

1. Surface treatment	Special passivation with shininess of stainless steel itself.	Ruspert Plus
2. Bi-metal	Austenitic stainless steel for the head and shank.	Annunza
3. Reliable strength	A2-700N in ISO standard for strength, is guaranteed.	Annessing
4.Thread no-damage	Hardened threads first tap threads to sheet so no damage on stainless threads.	Piasta wing screw Ruspert Plus
5.Power savings	The sharp drill point skips the pre-drilling process and low load is just necessary for installation.	Piasta hex
6.Brilliant appearance and high corrosion resistance		Ruspert Plus



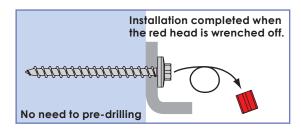
Size	Quantity × small box	L	l (Thread)	а	h	b	С	φw	φd
$4 \times 35$ $4 \times 35$ without washer	400 × 6 500 × 6	35	Fully						
$4 \times 50$ $4 \times 50$ without washer	300 × 6 400 × 6	50	threaded	6.0	7.0	6.0	2.5	9.5	4.2
5 × 60	250 × 6	60	Fully threaded	6.0	7.0	6.0	2.5	11.0	5.0
6×75	200 × 6	75	Fully threaded	6.0	7.0	10.0	3.0	11.0	6.3



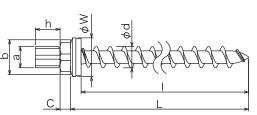


#### Self-torque-control system

The red head has a torque-control function for driving torque, and therefore the Red Pias is fastened without torsional failure even into fragile material.



(6mm)



#### New design

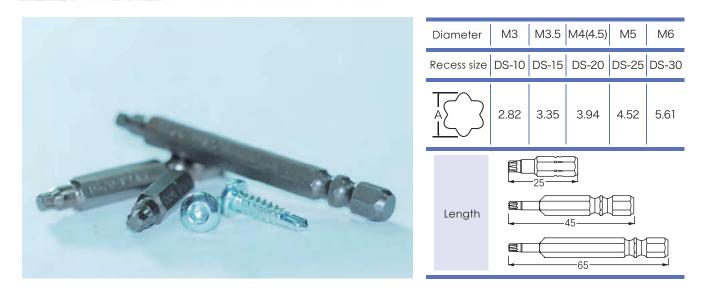
For edged crest threads designed specially, the highholding power is guaranteed even for fragile wall material. No board crack occurs, which sometimes occurs in case of a nail hammered into, and the Red Pias is available for thin panels.

• The Red Pias can be used up to 15mm from the edge of ALC panel, and it contributes to expansion of usage range.

• This is pulled off by reverse-rotating when fastened into wrong place.

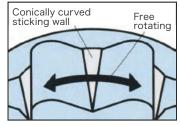
# Diamond recess special [International patent]

Stick-fitting and hi-torque screw hole



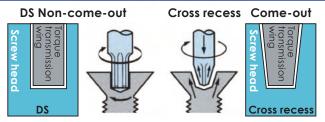
Туре	Size	Quantity × small box	Thickness applied	Surface treatment	SUS305	
PAN	4×13 4×16	1,000 × 10	1.2~3.6	Trivalent chrome	Passivated	
	4 × 19 4 × 25	700 × 10 500 × 10	1.2 0.0	(White)	rassivaroa	
Flat	4×13 4×16 4×19	1,000 × 10	1.2~3.6	Trivalent chrome (White)		
	4×25	500 × 10				
Wing screw	4 × 28 4 × 45	500 × 10 600 × 4	2.3~3.1	Trivalent chrome (White)		
For ALC	5×60	300 × 4	2.3~4.4	Hexavalent chrome		

#### Mechanism of special tight-fitting screw hole



Torque transmission wings of non come-out with no deformation causes long bit-life, compared with cross recess or Pozi-drive which stick-wall is damaged by fastening torque strength.

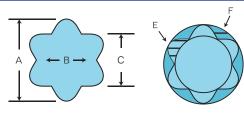
#### Solution of come-out



Torque transmission walls are parallel with the axis, so no coming up the bit by rotating, resulting in higher workability and less working load.

#### **Configuration of DS**

- The length A and B is same as the one of hexalobular socker standardized in JIS, and in addition, the lines specified in C are parallel with each other so that DS recess has higher pre-clinching. Hexalobular bit can be used to loose the DS socker screws.
- In JIS the area of part E on hexalobular socket is smaller than one of the part F so that the bit for hexalobular socket doesn't reach to enough strength for case-hardened screws. On the other hands, for DS recess, the part E is larger so that the duration of the bit life is dramatically longer.

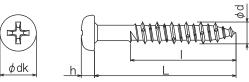


# Safety

## Pias con pan Ruspert silver



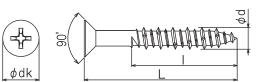
Size	Quantity	L	l (Thread)	φdk	h	φd	Pre drilled holedia
4 × 25 4 × 32 4 × 45	9,000 5,000 4.000	25.0 32.0 45.0	Fully threaded 42.0	7.5	2.8	4.3	3.2~3.5
5 × 25 5 × 35	6,000 4,000	25.0 35.0	Fully threaded	9.0	3.3	5.4	4.3~4.5
5 × 60 6 × 40	2,000 2,000	60.0 40.0	42.0 Fully threaded	10.5	3.9	6.4	5.3~5.5



## Pias con flat Ruspert silver



Size						
4 × 25 4 × 32 4 × 45	10,000 7,000 4,000	25.0 32.0 45.0	Fully threaded	7.0	4.3	3.2~3.5
5 × 25 5 × 35 5 × 45	7,000 4,000 2,500	25.0 35.0 45.0	Fully threaded	9.0	5.4	4.3~4.5
5 × 60	2,000	60.0	42.0			
6 × 25 6 × 35 6 × 45	4,000 3,000 2,000	25.0 35.0 45.0	Fully threaded			
6 × 60 6 × 70 6 × 75	1,500	60.0 70.0 75.0	45.0	12.0	6.4	5.3~5.5
6 × 90 6 × 100 6 × 110 6 × 120	C	90.0 100.0 110.0 120.0				

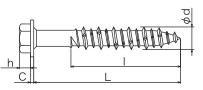


## Pias con hex Ruspert silver



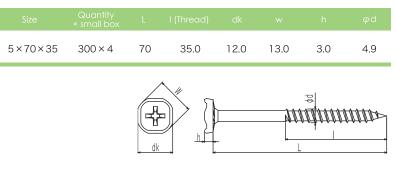
Size									
	5,000 4,000		Fully threaded	8.8	6.3	2.8	0.8	5.4	4.3~4.5
	.,	45.0 60.0 70.0	Fully threaded 45.0 55.0	10.9	7.8	3.9	1.0	6.4	5.3~5.5





## For ALC panel on wood Ruspert silver





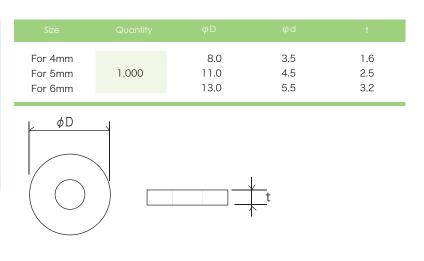
## Washer Trivalent chrome(White)/SUS-304



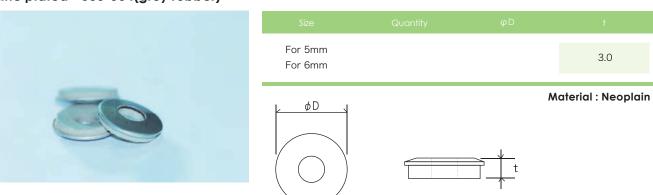
Size	Quantity × plastic bag	φD	φd	t
For 5mm For 6mm	1,000 500	14.0 17.0	5.0 6.5	2.2 2.7
¢D ¢d			¥t ∱_t	

## Packing rubber(Black)





#### **Bonded washer** Zinc plated • SUS-304(grey rubber)





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Any change on specification permissible due to quality improvement.