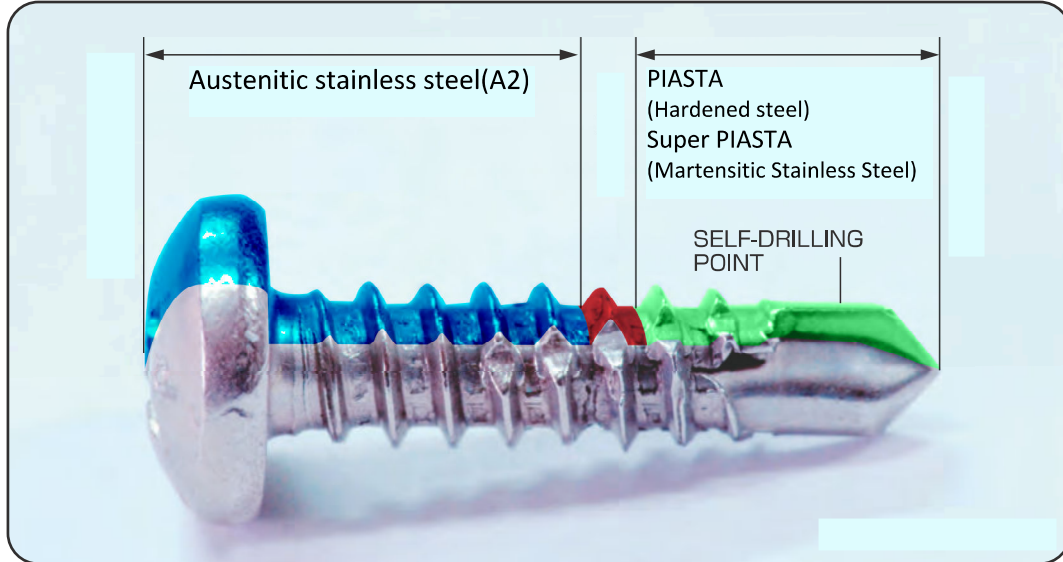


The ultimate corrosion-resistant self-drilling screw (Bi-Metal drill screw)

SELF-DRILLING SCREWS by BHMETALS 18-8(A2)



● Combines high machinability and corrosion resistance



PAN

SIZE	pcs. x box (Japan Only Packing)	Super PIASTA	PIASTA
4×13	1,000×10	●	●
4×16	1,000×10	●	●
4×19	700×10	●	●
4×25	500×10	●	●
5×19	500×10	●	●
5×25	500×10	●	●
5×35	700×4	●	●

WING

SIZE	pcs. x box (Japan Only Packing)	Super PIASTA	PIASTA
4×32	500×10	-	●
4×37	400×10	-	●
5×37	800×4	-	●
5×45	500×4	-	●
6×70	250×4	-	●

HEX

SIZE	pcs. x box (Japan Only Packing)	Super PIASTA	PIASTA
5×19	1,000×4	●	●
5×25	1,000×4	●	●
5×35	500×4	●	●
5×45	500×4	-	●
6×25	500×4	-	●
6×35	500×4	-	●
6×45	300×4	-	●

FLAT

SIZE	pcs. x box (Japan Only Packing)	Super PIASTA	PIASTA
4×16	1,000×10	●	-
4×19	1,000×10	●	-
4×25	500×10	●	-
5×19	500×10	●	-
5×25	500×10	●	-

Reference

Relationship between nominal diameter of PIASTA for Japan and general gauge size

4 = 4.2 = #8 / 5 = 4.8 = #10 / 6 = 6.3 = #14



PIASTA PAN

DRILLING SCREWS

This is a highly corrosion-resistant bi-metal drill screw with a pan head shape that can be used for a wide range of applications, from sign construction to attaching accessories and exterior walls.

Photo



- material : A2 + carbon steel (bi-metal)
- surface treatment : Ruspert silver (non chromate)

Technical information

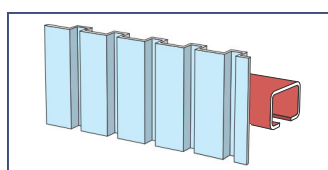
Torsion Break Test (Nm)

PIASTA

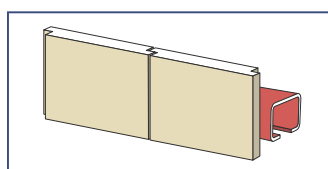
4mm	3.9
5mm	5.7

This data is the average of measured values and is not a guaranteed value.

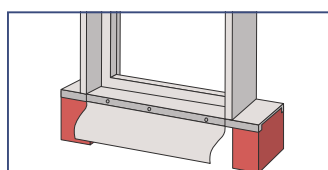
Examples of construction



Metal exterior wall construction
Corrugated metal siding
C-shaped steel



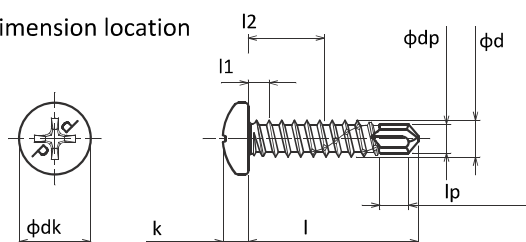
Metal exterior wall construction
Plasterboard
C-shaped steel



Window frame construction
Aluminium window frame
C-shaped steel

Specification

Dimension location



φdk : Head diameter
k : Head height
φd : thread diameter
l : Overall length (screw + drill)
φdp : Drill diameter
l1 : Minimum thread engagement length
l2 : Maximum thread engagement length
lp : Drill cutting edge length
(= Maximum drilling capacity)

Nominal diameter = 4.0 (Thread pitch = 1.4)

SIZE	品番	ケース 入数	小箱 入数	小箱数	Phillips size	φdk	k	φd	l	φdp	l1	l2	t	lp
4×13	BP413	10,000	1,000	10	#2	8.1	2.9	4.2	13	3.4	1.6	5.0	1.6	2.3
4×16	BP416	10,000	1,000	10	#2	8.1	2.9	4.2	16	3.4	1.6	6.0	1.6	2.3
4×19	BP419	10,000	1,000	10	#2	8.1	2.9	4.2	19	3.4	1.6	7.5	1.6	3.2
4×25	BP425	5,000	500	10	#2	8.1	2.9	4.2	25	3.4	1.6	13.5	1.6	3.2

t : minimum base plate thickness

Nominal diameter = 5.0 (Thread pitch = 1.6)

SIZE	品番	ケース 入数	小箱 入数	小箱数	Phillips size	φdk	k	φd	l	φdp	l1	l2	t	lp
5×19	BP519	5,000	500	10	#2	9.4	3.3	4.8	19	4.0	1.6	7.5	1.6	4.5
5×25	BP525	5,000	500	10	#2	9.4	3.3	4.8	25	4.0	1.6	10.5	1.6	4.5
5×35	BP535	2,800	700	4	#2	9.4	3.3	4.8	35	4.0	1.6	20.5	1.6	4.5

t : minimum base plate thickness

パッケージ



外箱

W350×D255×H110

Japan only
(Packing etc.)



大箱 : W170×D120×H80

中箱 : W125×D85×H65



PIASTA HEX

DRILLING SCREWS

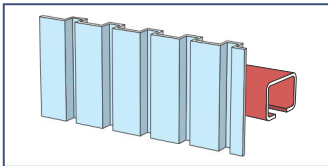
This is a highly corrosion-resistant bi-metal drill screw that is ideal for attaching exterior walls and roofing materials. The hexagonal head shape is excellent for torque transmission, making it suitable for construction on thick plates.

Photo

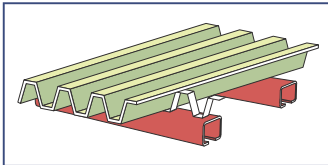


- material : A2 + carbon steel (bi-metal)
- surface treatment : Ruspert silber (non chromate)

Examples of construction



Metal exterior wall
construction
Corrugated metal siding
C-shaped steel



Metal roof
construction
Standing seam metal roof
C-shaped steel

Technical information

◆ Torsion Break Test (Nm)

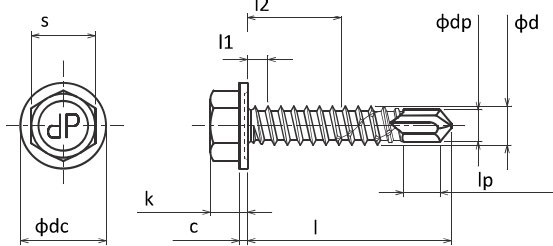
PIASTA

5mm	5.7
6mm	13.3

This data is the average of measured values and is not a guaranteed value.

Specification

Dimension location



- s : Width across flats
- φdc : Flange diameter
- k : Head height (with flange)
- c : flange thickness
- φd : thread diameter
- l : Overall length (screw + drill)
- φdp : Drill diameter
- l1 : Minimum thread engagement length
- l2 : Maximum thread engagement length
- lp : Drill cutting edge length
(= Maximum drilling capacity)

◆Nominal diameter = 5.0 (Thread pitch = 1.6)

SIZE	品番	ケース 入数	小箱 入数	小箱数	s	φdc	k	c	φd	l	φdp	l1	l2	t	lp		
5×19	BH519	Japan only (Packing etc.)		0	4	8.0	11.0	5.1	1.1	4.8	19	4.0	1.6	7.5	1.6	3.2	
5×25	BH525			0	4	8.0	11.0	5.1	1.1	4.8	25	4.0	1.6	10.5	1.6	4.5	
5×35	BH535			2,000	500	4	8.0	11.0	5.1	1.1	4.8	35	4.0	1.6	20.5	1.6	4.5
5×45	BH545			2,000	500	4	8.0	11.0	5.1	1.1	4.8	45	4.0	1.6	30.5	1.6	4.5

t : minimum base plate thickness

◆Nominal diameter = 6.0 (Thread pitch = 1.8)

SIZE	品番	ケース 入数	小箱 入数	小箱数	s	φdc	k	c	φd	l	φdp	l1	l2	t	lp		
6×25	BH625	Japan only (Packing etc.)		0	4	9.5	13.0	6.3	1.5	6.3	25	5.6	2.3	9.5	2.3	4.5	
6×35	BH635			2,000	500	4	9.5	13.0	6.3	1.5	6.3	35	5.6	2.3	17.0	2.3	6.0
6×45	BH645			1,200	300	4	9.5	13.0	6.3	1.5	6.3	45	5.6	2.3	27.0	2.3	6.0

t : minimum base plate thickness

≡ パッケージ



外箱

W350×D255×H110

Japan only
(Packing etc.)



大箱 : W170×D120×H80

Wing PIASTA

DRILLING SCREWS

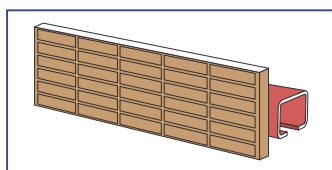
This is a highly corrosion-resistant bi-metal drill screw used for attaching wood to a steel substrate. The head is flat, and the wing on the drill section cut into the wood, preventing it from cracking or lifting.

Photo

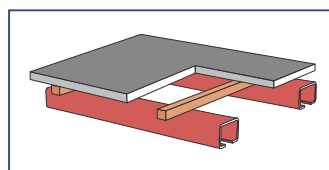


■ material : A2 + carbon steel (bi-metal)
surface treatment : Ruspert silver (non chromate)

Examples of construction



Fiber cement board
construction
Fiber cement board
C-shaped steel



Fire-resistant roof sheat
construction
Fire-resistant roof sheat
C-shaped steel for main building

Technical information

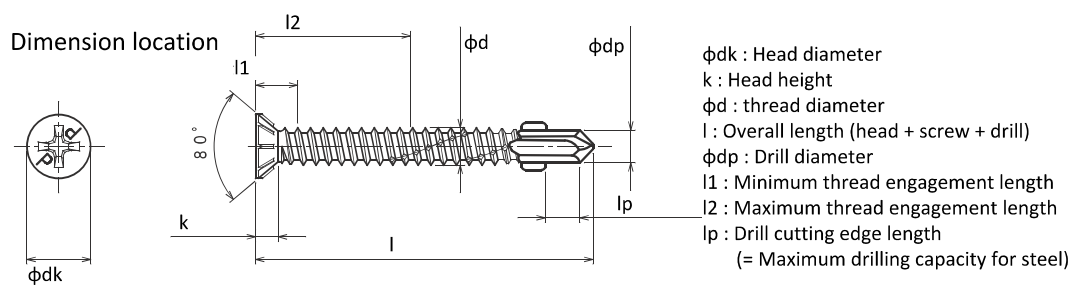
◆ Torsion Break Test (Nm)

PIASTA

4mm	3.9
5mm	5.7
6mm	13.3

This data is the average of measured values and is not a guaranteed value.

Specification



◆ Nominal diameter = 4.0 (Thread pitch = 1.4)

SIZE	品番	ケース Japan only (Packing etc.)	小箱 小箱数	Phillips size	φdk	k	φd	l	φdp	l1	l2	lp	
4×32	BR432	4,000	400	10	#2	7.0	2.3	4.2	32	3.6	2.3	16.0	3.2
4×37	BR437	4,000	400	10	#2	7.0	2.3	4.2	37	3.6	2.3	20.5	3.2

◆ Nominal diameter = 5.0 (Thread pitch = 1.6)

SIZE	品番	ケース Japan only (Packing etc.)	小箱 小箱数	Phillips size	φdk	k	φd	l	φdp	l1	l2	lp	
5×37	BR537	2,000	500	4	#2	9.6	3.3	4.8	37	4.0	2.3	20.5	3.2
5×45	BR545	2,000	500	4	#2	9.6	3.3	4.8	45	4.0	2.3	20.5	3.2

◆ Nominal diameter = 6.0 (Thread pitch = 1.8)

SIZE	品番	Japan only (Packing etc.)	小箱数	Phillips size	φdk	k	φd	l	φdp	l1	l2	lp
6×70	BR670		4	#2	12.4	4.2	6.2	70	5.6	7.3	50.0	6.0

パッケージ



外箱

W350×D255×H110

Japan only
(Packing etc.)



大箱 : W170×D120×H80
中箱 : W125×D85×H65

PIASTA ELEVEN (Sharp point) PIERCING SCREWS

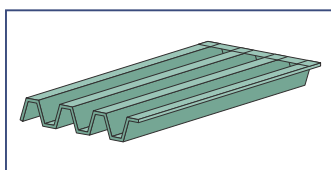
This is a pointed screw for thin plates that does not require pilot holes and produces almost no cutting chips. The unique screw shape allows for high holding power when fastened. In addition, it is a highly corrosion-resistant bimetal screw that is designed to prevent thread stripping, making it safe to use even on thin plates.

Photo



- material : A2 + carbon steel (bi-metal)
- surface treatment : Ruspert silber (non chromate)

Examples of construction



Metal roof construction
Eave closure
Gable edge attaching

Technical information

◆Holding power test (N)

Destruction Mode : A / Steel plate deformation

PIASTA

板厚	0.6 t × 2	0.8 t × 2
4.2mm	2166 A	2723 A

◆Tensile test (N)

Destruction Mode : A / shank fractured

PIASTA

4.2mm	5390 A
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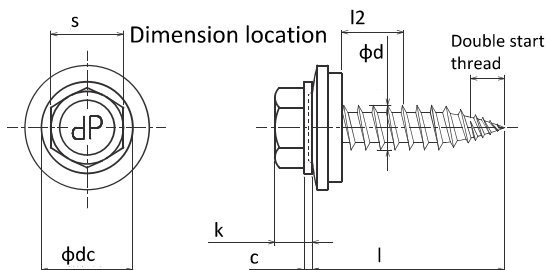
◆Shear test (N)

PIASTA

4.2mm	4684
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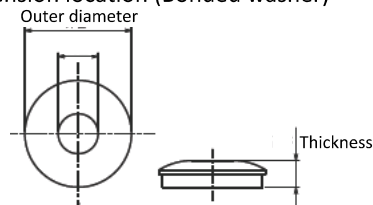
This data is the average of measured values and is not a guaranteed value.

Specification (Screw and Bonded washer)



s : Width across flats
φdc : Flange diameter
k : Head height (with flange)
c : flange thickness
φd : thread diameter
l : Overall length (screw + point)
l1 : Minimum thread engagement length
l2 : Maximum thread engagement length
lp : Maximum drilling capacity

Dimension location (Bonded washer)



サイズ	Outer diameter	Thickness
for 4mm	12.0	3.0
Material	Bonded washer : SUS304 grey Rubber : EPDM	

Nominal diameter = 4.2

SIZE	品番	ケース	小箱	小箱数	s	φdc	k	c	φd	l	l1	l2	lp
4.2×19	BH11	Japan only (Packing etc.)		10	7.0	8.8	3.8	0.8	4.2	19	0.6	6.0	1.2 1.6 thickness (two sheets)

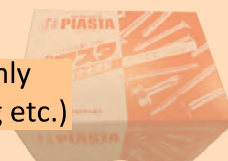
パッケージ



外箱

W350×D255×H106

Japan only
(Packing etc.)



中箱 : W125×D85×H65

SUPER PIASTA PAN

DRILLING SCREWS

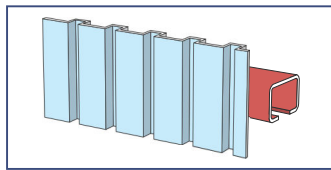
This is a highly corrosion-resistant bi-metal drill screw with a pan head shape that can be used for a wide range of applications, from sign construction to attaching accessories and exterior walls. Special stainless-colored plating for superior appearance.

Photo



■ material : A2 + hardenable martensitic stainless steel (bi-metal)
surface treatment : Special stainless-colored plating

Examples of construction



Metal exterior wall
construction
Corrugated metal siding
C-shaped steel

Technical information

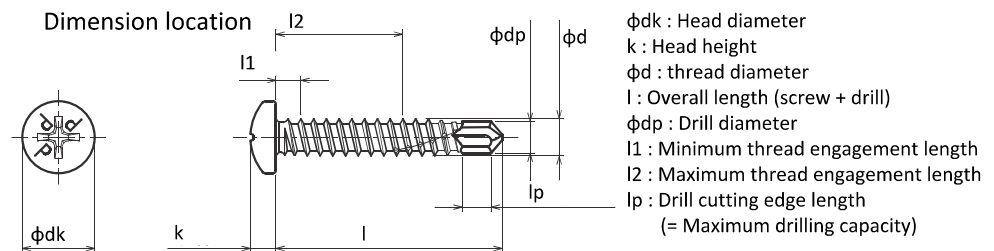
◆ Torsion Break Test (Nm)

SUPER PIASTA

4mm	3.6
5mm	6.6

This data is the average of measured values and is not a guaranteed value.

Specification



◆ Nominal diameter = 4.0 (Thread pitch = 1.4)

SIZE	品番	ケース 入数	小箱 入数	小箱数	Phillips size	ϕdk	k	ϕd	l	ϕdp	l1	l2	t	lp
4×13	SPP413	10,000	1,000	10	#2	8.1	2.9	4.2	13	3.4	1.6	5.0	1.2	1.6
4×16	SPP416	10,000	1,000	10	#2	8.1	2.9	4.2	16	3.5	1.6	6.0	1.6	2.3
4×19	SPP419	10,000	1,000	10	#2	8.1	2.9	4.2	19	3.6	1.6	7.0	1.6	3.2
4×25	SPP425	5,000	500	10	#2	8.1	2.9	4.2	25	3.6	1.6	13.0	1.6	3.2

◆ Nominal diameter = 5.0 (Thread pitch = 1.6)

SIZE	品番	ケース 入数	小箱 入数	小箱数	Phillips size	ϕdk	k	ϕd	l	ϕdp	l1	l2	t	lp
5×19	SPP519	10,000	1,000	10	#2	9.4	3.3	4.8	19	4.2	1.6	7.5	1.6	3.2
5×25	SPP525	10,000	1,000	10	#2	9.4	3.3	4.8	25	4.2	1.6	11.5	1.6	4.5
5×35	SPP535	2,800	700	4	#2	9.4	3.3	4.8	35	4.2	1.6	21.5	1.6	4.5

t : minimum base plate thickness

t : minimum base plate thickness

Highlights of "SUPER PIASTA"

SUPER PIASTA combines the advantages of two types of stainless steel: the head and fastening section are made from **corrosion-resistant austenitic stainless steel (A2)**, while the drill point is made from **hardenable martensitic stainless steel**. Additionally, the surface is treated with a highly corrosion-resistant plating, which **helps prevent both rust and seizing**.

1. Synergistic effect of corrosion-resistant stainless steel and a highly corrosion-resistant surface treatment
2. An all-stainless bimetal screw with an austenitic stainless steel head and a martensitic stainless steel drill point.
3. Hardened stainless drill point drills and taps to prevent seizing and head lifting.
4. It helps reduce labor while maintaining the advantages of PIAS, including fast, low-torque drilling.
5. Ideal for fastening in outdoor use thanks to its excellent corrosion resistance.



SUPER PIASTA FLAT

DRILLING SCREWS

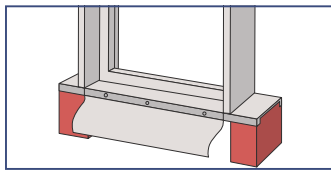
This is a highly corrosion-resistant bimetal drilling screw with a flat head, ideal for fastening workpieces with countersunk holes. Special stainless-colored plating for superior appearance.

Photo



■ material : A2 + hardenable martensitic stainless steel (bi-metal)
surface treatment : Special stainless-colored plating

Examples of construction



Window frame sash
construction
Aluminum window frame sash
C-shaped steel

Technical information

◆Torsion Break Test (Nm)

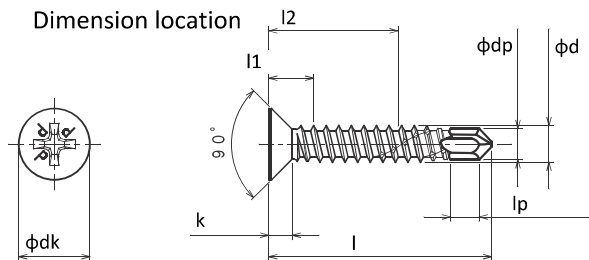
SUPER PIASTA

4mm	3.6
5mm	6.6

This data is the average of measured values and is not a guaranteed value.

Specification

Dimension location



φdk : Head diameter
k : Head height
φd : thread diameter
l : Overall length (screw + drill)
φdp : Drill diameter
l1 : Minimum thread engagement length
l2 : Maximum thread engagement length
lp : Drill cutting edge length
(= Maximum drilling capacity)

◆Nominal diameter = 4.0 (Thread pitch = 1.4)

SIZE	品番	ケース 3 単位	小箱 1 単位	小箱数	Phillips size	φdk	k	φd	l	φdp	l1	l2	t	lp
4×16	SPF416	Japan only (Packing etc.)			#2	8.0	2.1	4.2	16	3.4	1.6	8.5	1.6	1.6
4×19	SPF419				#2	8.0	2.1	4.2	19	3.5	1.6	9.5	1.6	2.3
4×25	SPF425	5,000	500	10	#2	8.0	2.1	4.2	25	3.6	1.6	13.5	1.6	3.2

t : minimum base plate thickness

◆Nominal diameter = 5.0 (Thread pitch = 1.6)

SIZE	品番	ケース 3 単位	小箱 1 単位	小箱数	Phillips size	φdk	k	φd	l	φdp	l1	l2	t	lp
5×19	SPF519	Japan only (Packing etc.)			#2	10.0	2.8	4.8	19	3.6	1.6	9.0	1.6	3.2
5×25	SPF525	5,000	500	10	#2	10.0	2.8	4.8	25	4.2	1.6	13.5	1.6	3.2

t : minimum base plate thickness

Highlights of "SUPER PIASTA"

SUPER PIASTA combines the advantages of two types of stainless steel: the head and fastening section are made from **corrosion-resistant austenitic stainless steel (A2)**, while the drill point is made from **hardenable martensitic stainless steel**. Additionally, the surface is treated with a highly corrosion-resistant plating, which **helps prevent both rust and seizing**.

1. Synergistic effect of corrosion-resistant stainless steel and a highly corrosion-resistant surface treatment
2. An all-stainless bimetal screw with an austenitic stainless steel head and a martensitic stainless steel drill point.
3. Hardened stainless drill point drills and taps to prevent seizing and head lifting.
4. It helps reduce labor while maintaining the advantages of PIAS, including fast, low-torque drilling.
5. Ideal for fastening in outdoor use thanks to its excellent corrosion resistance.



SUPER PIASTA HEX

DRILLING SCREWS

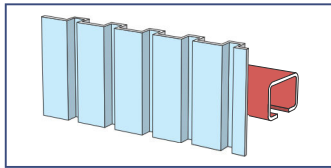
This is a highly corrosion-resistant bi-metal drill screw that is ideal for attaching exterior walls and roofing materials. The hexagonal head shape is excellent for torque transmission, making it suitable for construction on thick plates. Special stainless-colored plating for superior appearance.

Photo



- material : A2 + hardenable martensitic stainless steel (bi-metal)
- surface treatment : Special stainless-colored plating

Examples of construction



Metal exterior wall construction
Corrugated metal siding
C-shaped steel

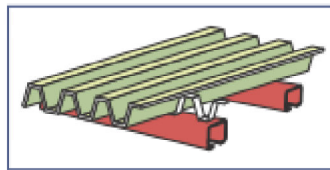
Technical information

◆ Torsion Break Test (Nm)

SUPER PIASTA

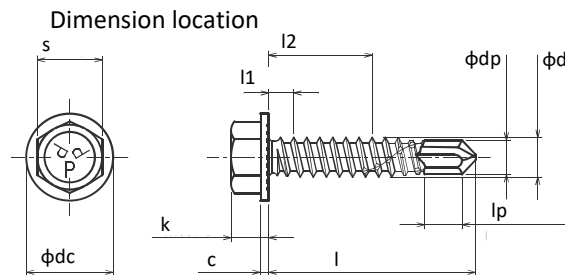
4mm	3.6
5mm	6.6

This data is the average of measured values and is not a guaranteed value.



Metal roof construction
Standing seam metal roof
C-shaped steel

Specification



s : Width across flats
φdc : Flange diameter
k : Head height (with flange)
c : flange thickness
φd : thread diameter
l : Overall length (screw + drill)
φdp : Drill diameter
l1 : Minimum thread engagement length
l2 : Maximum thread engagement length
lp : Drill cutting edge length
(= Maximum drilling capacity)

◆ Nominal diameter = 5.0 (Thread pitch = 1.6)

SIZE	品番	ケース 入数	小箱 入数	小箱数	s	φdc	k	c	φd	l	φdp	l1	l2	t	lp
5×19	SPH519	Japan only (Packing etc.)		0	4	8.0	10.9	5.1	1.1	4.8	19	4.2	1.6	7.5	3.2
5×25	SPH525			0	4	8.0	10.9	5.1	1.1	4.8	25	4.2	1.6	11.5	4.5
5×35	SPH535			2,000	500	8.0	10.9	5.1	1.1	4.8	35	4.2	1.6	21.5	4.5

t : minimum base plate thickness

Highlights of "SUPER PIASTA"

SUPER PIASTA combines the advantages of two types of stainless steel: the head and fastening section are made from **corrosion-resistant austenitic stainless steel (A2)**, while the drill point is made from **hardenable martensitic stainless steel**. Additionally, the surface is treated with a highly corrosion-resistant plating, which **helps prevent both rust and seizing**.

1. Synergistic effect of corrosion-resistant stainless steel and a highly corrosion-resistant surface treatment
2. An all-stainless bimetal screw with an austenitic stainless steel head and a martensitic stainless steel drill point.
3. Hardened stainless drill point drills and taps to prevent seizing and head lifting.
4. It helps reduce labor while maintaining the advantages of PIAS, including fast, low-torque drilling.
5. Ideal for fastening in outdoor use thanks to its excellent corrosion resistance.