

Wkręt-met[®]

KLIMAS

SCREWS AND FASTENERS FOR WINDOWS AND DOORS

2017



**POLISH
PRODUCER**





Production plant no. 1 - area of 20.000 square meters

The largest manufacturer of fastening systems in Poland

Klimas Wkręt-Met is the largest manufacturer of high quality fastening systems in Poland and Eastern and Central Europe. For years, the company has set standards in fastening technology. Our offer includes screws for installation in PVC; window and door fixings; frame and expansion anchors; fasteners for thermal insulation systems being an important element of passive houses; hardened screws and woodworking fasteners; self-drilling and self-tapping screws for steel sheets and roofing elements; mechanical and chemical anchors, metric bolts and screws, drywall anchors.

Klimas Wkręt-Met sends its products to over 60 countries. The company started its operations in 1990. It was developed as a continuation of a family-run business dealing in production of plastic elements.

Initially, it was a site of 300 square meters with several production machines and limited storage facilities. Much has changed since that time.

Today, the company's production area covers over 50.000 square meters including a few production buildings and central high-bay storage area with a pallet racking system able to store over 24.000 pallets.

The area intended for new investments covers as much as 100.000 square meters.

Wkręt-Met was the first company in Poland to have been granted a European Technical Approval for building products in 2005 and today the company holds 20 such approvals. Our other products have national technical approvals. Those certificates, proved by the tests conducted by both Polish and German certification bodies, confirm that the products we offer are of the highest quality.



Production plant no. 2 and the main warehouse - area of 30.000 square meters

Own production facilities

high production capacity

Independent production stands for continuous development and extension of the technological park. At present Wkręt-met production has a host of facilities at its disposal including:

- over 100 injection moulding machines,
- 200 presses and rolling mills (which can be used to manufacture metric screws Class 10.9 and 12.9 as well as A2 and A4 stainless steel screws),
- modern tool shop with advanced machining centres,
- a twenty-first century quality control department.

Our production facilities grant us independence at every stage of the production process. Our own facilities combined with high production capacity and quality control results in products which meet today's market demands. The in-house quality control ensures that consistent, repeatable products are manufactured which meet critical requirements.

Custom-made products

Thanks to our wide experience and modern production facilities we offer custom-made products designed to meet individual customer needs. We provide product design, manufacture, control and packing as requested by the customer.



Production floor - over 200 presses and rolling mills



Production floor - multifunction presses



Production floor - injection moulding department



Production floor - injection moulding department, over 100 modern machines

MANUFACTURE

Metal products manufacturing process

- best quality material from European steelworks,
- a variety of steel grades (low carbon steel, A2 AISI
- 304 stainless steel, A4 AISI 316 acid resistant steel, heat-treatable steel),
- own research and product development department,
- large machine park,
- hardening (heat treatment),
- applying protective anti-corrosion coatings - zinc electroplating or ceramic coating,
- heads and washers available in the RAL colours,
- a wide range of solutions - suited for specific fixture and substrate,
- production offer of class 10.9 and 12.9 screws,
- quality control at each stage of manufacture,
- Polish and European technical approvals



**1.300 TONS
OF METAL
PRODUCTS**

**PROCESSED
MONTHLY**

DESIGN



1

METAL PRODUCTS

MANUFACTURING PROCESS



4

**GALVANIZING
PLANT AND
PAINT SHOP**



3

HARDENING PLANT



2

**PRESSES
AND ROLLING
MILLS**

FROM BEGINNING TO END



PACKING

**PRODUCTS EXPORTED
TO MORE THAN 60
COUNTRIES**



DISPATCHING



STORING

**RACKING SYSTEMS ABLE TO
STORE 24.000 PALLETS**

1

100% of our screws are controlled

2

X-ray spectrometer

3

Measurement characteristics control

4

Vickers microhardness tester

**QUALITY
CONTROL**

**AT EACH STAGE OF
MANUFACTURE**



1



4



3



2

Plastic products manufacturing process

- top quality production material, polyamide, polyethylene, polypropylene,
- conditioning of polyamide products which ensures their elasticity,
- a wide range of products for universal and special application,
- own production facilities including/comprising best quality hybrid injection moulding machines with robots,
- automatic packaging process: from box/blister pack to pallet wrap/wrapping

**700 TONS
OF PLASTIC
PROCESSED
MONTHLY**

DESIGN



PLASTIC PRODUCTS

MANUFACTURING PROCESS



**INJECTION
MOULDERS**



INJECTION MOULDERS



**CNC MACHINE
TOOLS**

FROM BEGINNING TO END



PACKING

**PRODUCTS EXPORTED
TO MORE THAN 60
COUNTRIES**



DISPATCHING



STORING

**RACKING SYSTEMS ABLE TO
STORE 24.000 PALLETS**



1

1 Axial load testing

2 Fasteners' load capacity testing
- testing machine

3 Fasteners' load capacity testing
- fastenings tester

4 Measurement
charateristics control

QUALITY CONTROL

**AT EACH STAGE OF
MANUFACTURE**



4



3



2

100% OF OUR SCREWS ARE CONTROLLED



**MEASURING
MICROSCOPE**



**X-RAY
SPECTROMETER**



**SALT SPRAY
CHAMBER**

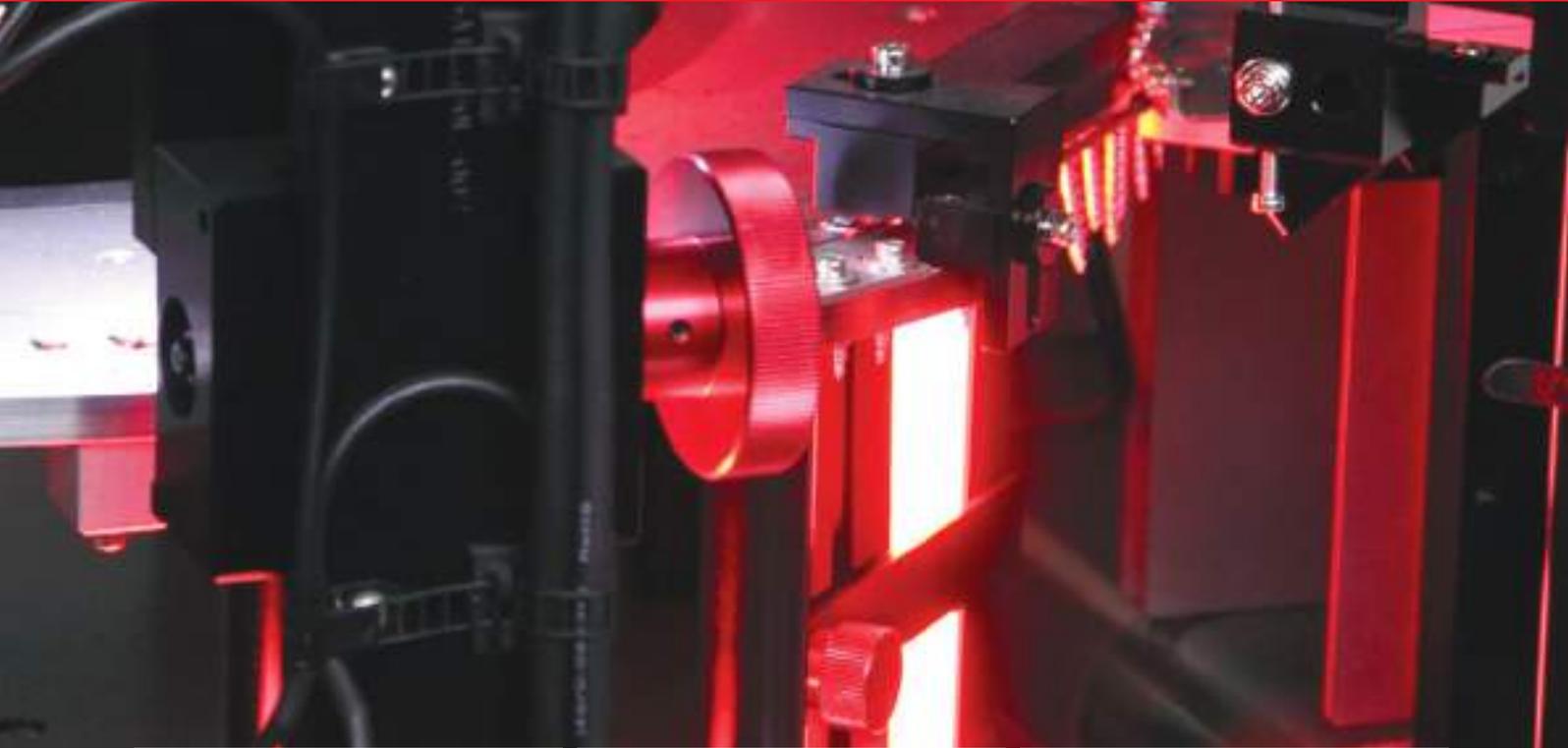
Klimas Wkręt-met machinery park now boasts equipment for the 100 per cent control of our screws. The new optic equipment makes it possible to control the whole product batch after it has been manufactured and before it is packed. The parameters checked include length, body diameter, thread diameter, head size, quality of the drive, pitch and thread length, tip and others. Screws which successfully pass the control procedure are sent to be packed whereas those which non-compliance with the standard are rejected.



Our company is set on continuous improvement of its production control processes at each stage of manufacture. We wish to provide our customers with services of the highest-possible standard. To achieve that we have implemented the Quality Management System and have held the ISO 9001:2008 standard for a number of years now. Satisfying the standard requirements is continuously verified by both internal and external audits, which prove our successful operation at each stage of activity.



**CALLIBRATION OF OUR CONTROL AND
MEASUREMENT INSTRUMENTS**



**PULL OUT
TESTING**



**INSTALLATION
TIME TESTING**



**STRENGTH
TESTING**

We have started a high-tech quality-control laboratory to ensure the highest quality of the products on offer. Our laboratory is equipped with measuring microscope, X-ray spectrometer, salt spray chamber, load capacity testing machine, Vickers microhardness tester, Rockwell hardness tester, torque converters, permascope and a number of other equipment, which allow us to:

- check and control paint and zinc coat thickness;
- check resistance of protective coating to highly corrosive environments;
- check hardness of the screw surface and body, thickness of carburized layer;
- compute the torque required for a given screw to be driven in;
- test the pull-out strength;
- compute rigidity of the support washer;
- calculate the time needed to drive-in a self-driving screw;
- and many others.



***Is quality important for you?
It IS for us!***





SCREWS AND FASTENERS FOR WINDOWS AND DOORS

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SCREWS AND FASTENERS FOR WINDOWS AND DOORS

PRODUCT INDEX

SCREWS FOR WINDOW MANUFACTURE - PRODUCTION PROGRAMME



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KLIMAS

**SCREWS AND FASTENERS
FOR WINDOWS AND DOORS**

**SCREWS FOR
WINDOW MANUFACTURE
PRODUCTION PROGRAMME**



WPCV-R Screw with ribs for fittings, PH



Description

Application	Screw for fixing steel fittings to PVC profiles
Type of installation	This screw does not require prior drilling.
Material	Zinc plated carbon steel

Features and advantages



made to order



PH head with marking

Exact head size and good workmanship make it ideal for use with automatic screwdriving unit. Letter "K" marking identifies our company as the manufacturer.



Countersunk head with special ribs

The ribs stop excessive turning of the screw in final stages of installation.



Correct thread pitch and length

The right pitch ensures correct installation in PVC window frames.

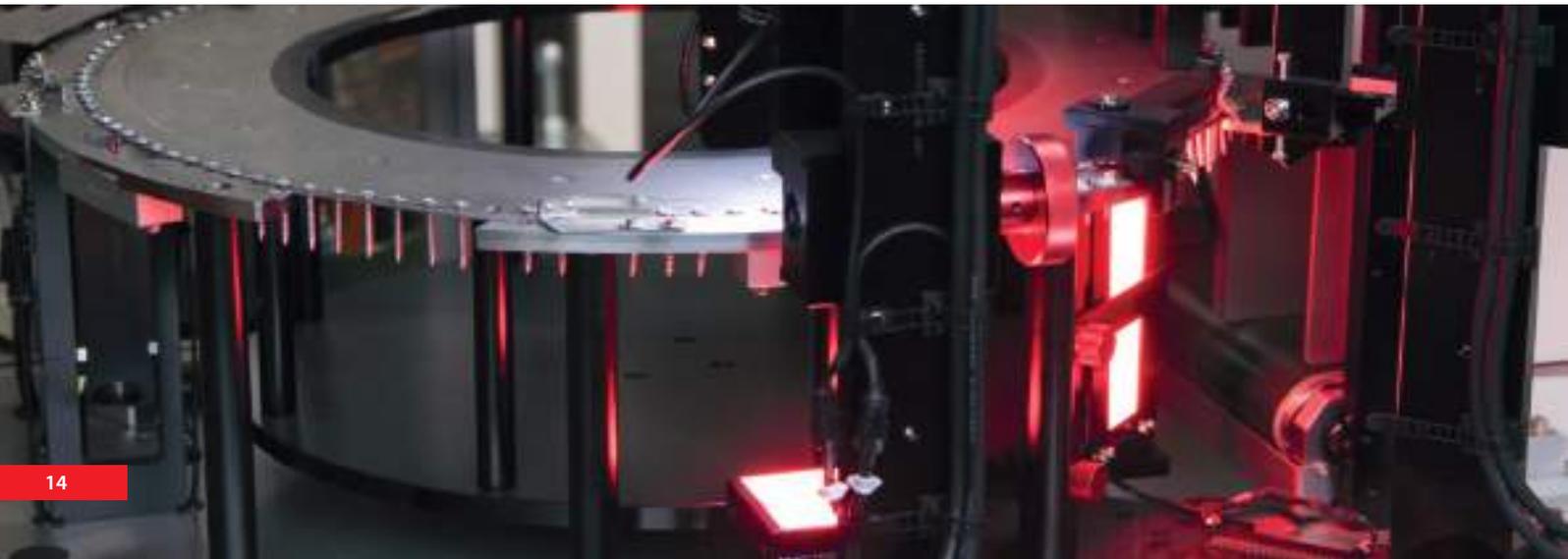


Sharp point

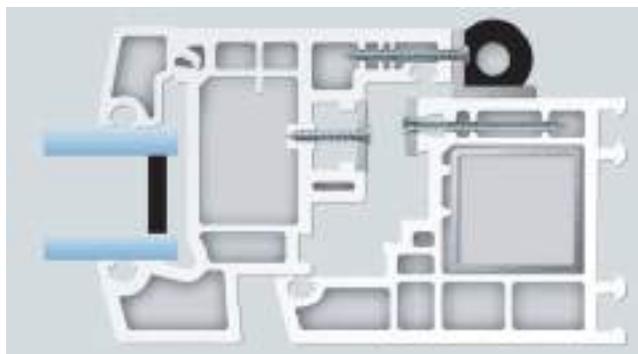
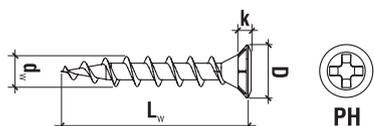
Sharp point ensures easier and faster screw installation.



100% of screws controlled! The parameters checked include length, shank diameter, thread diameter, head size, quality of the drive, thread pitch and length, tip and others.



WPCV-R Screw with ribs for fittings, PH



Product marking

WPCV	R	B	40	016
Type	Special ribs	White zinc	Diameter	Length

Sample application

	Code	$d_w \times L_w$ [mm]	D [mm]	k [mm]	PH	Pcs
ø4.0	WPCV-B-R-40016	4.0 x 16	7.3	2.4	PH 2	1000
	WPCV-B-R-40020	4.0 x 20	7.3	2.4	PH 2	1000
	WPCV-B-R-40025	4.0 x 25	7.3	2.4	PH 2	1000
	WPCV-B-R-40030	4.0 x 30	7.3	2.4	PH 2	1000
	WPCV-B-R-40035	4.0 x 35	7.3	2.4	PH 2	500
	WPCV-B-R-40040	4.0 x 40	7.3	2.4	PH 2	500
	WPCV-B-R-40045	4.0 x 45	7.3	2.4	PH 2	500
	WPCV-B-R-40050	4.0 x 50	7.3	2.4	PH 2	500
	WPCV-B-R-40055	4.0 x 55	7.3	2.4	PH 2	500



WPCV Screw without ribs for fittings, PH



Description

Application	Screw for fixing steel fittings to PVC profiles
Type of installation	This screw does not require prior drilling.
Material	Zinc plated carbon steel
Product made to order	

Features and advantages



made to order



PH head with marking

Exact head size and good workmanship make it ideal for use with automatic screwdriving unit. Letter "K" marking identifies our company as the manufacturer.



Countersunk head

Countersunk head ensures its correct sinking in the member.



Correct thread pitch and length

The right pitch ensures correct installation in PVC window frames.

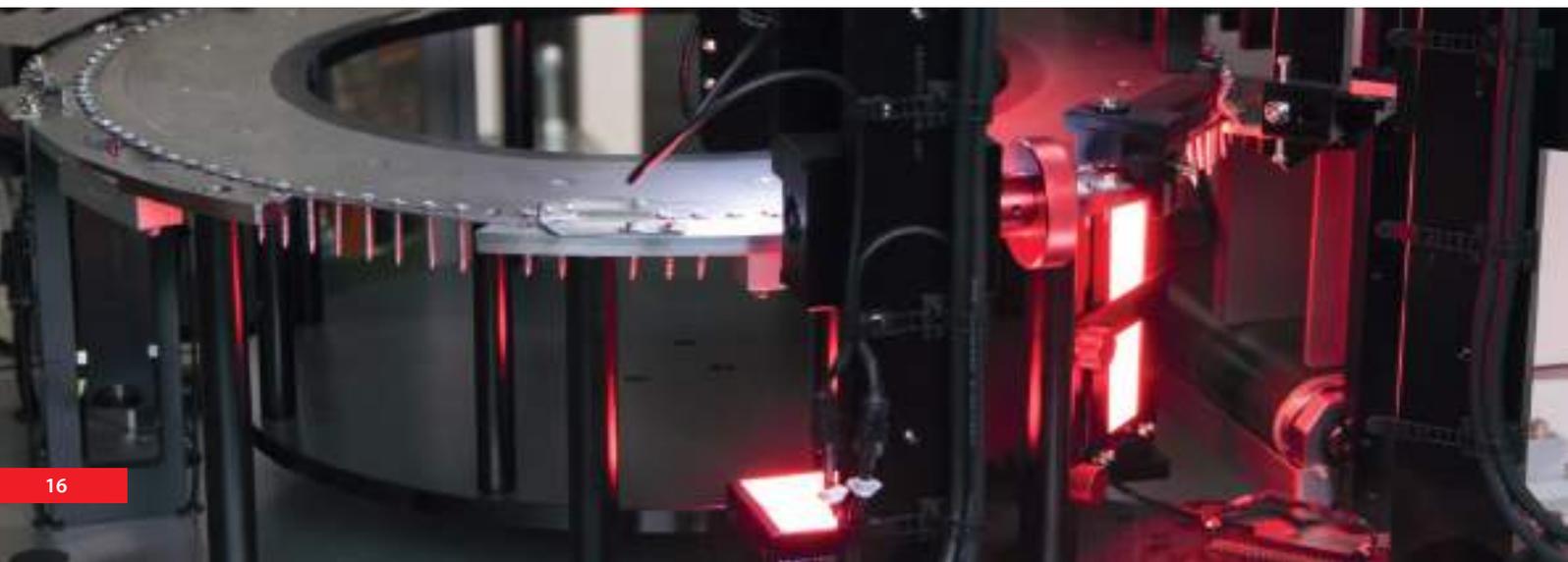


Sharp point

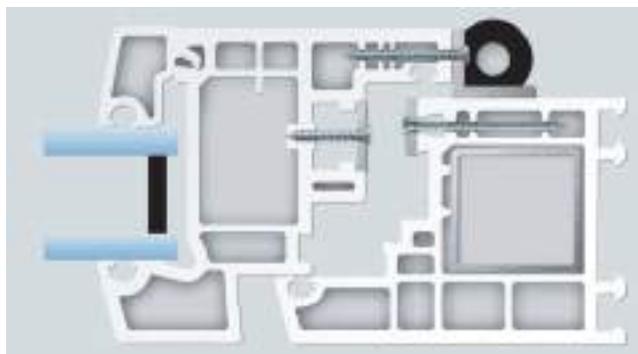
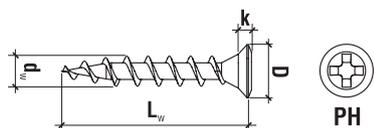
Sharp point ensures easier and faster screw installation.



100% of screws controlled! The parameters checked include length, shank diameter, thread diameter, head size, quality of the drive, thread pitch and length, tip and others.



WPCV Screw without ribs for fittings, PH



Product marking

WPCV	B	40	016
Type	White zinc	Diameter	Length

Sample application

	Code	$d_w \times L_w$ [mm]	D [mm]	k [mm]	PH	Pcs
ø4.0	WPCV-B-40016	4.0 x 16	7.3	2.4	PH 2	1000
	WPCV-B-40020	4.0 x 20	7.3	2.4	PH 2	1000
	WPCV-B-40025	4.0 x 25	7.3	2.4	PH 2	1000
	WPCV-B-40030	4.0 x 30	7.3	2.4	PH 2	1000
	WPCV-B-40035	4.0 x 35	7.3	2.4	PH 2	500
	WPCV-B-40040	4.0 x 40	7.3	2.4	PH 2	500
	WPCV-B-40045	4.0 x 45	7.3	2.4	PH 2	500
	WPCV-B-40050	4.0 x 50	7.3	2.4	PH 2	500
	WPCV-B-40055	4.0 x 55	7.3	2.4	PH 2	500

Product made to order



WSPCV-R Self-drilling screw with ribs for fittings and steel reinforcement, PH



AT-15-7179/2013



made to order

Description

Application	Screw for fixing plastic window profiles with steel reinforcement elements up to 2 mm thick.
Type of installation	This screw does not require prior drilling.
Material	Zinc plated carbon steel
Product made to order.	

Features and advantages



PH head with marking

Exact head size and good workmanship make it ideal for use with automatic screwdriving unit. Letter "K" marking identifies our company as the manufacturer.



Countersunk head with special ribs

The ribs stop excessive turning of the screw in final stages of installation.



Correct thread pitch and length

The right pitch ensures correct installation of metal members.

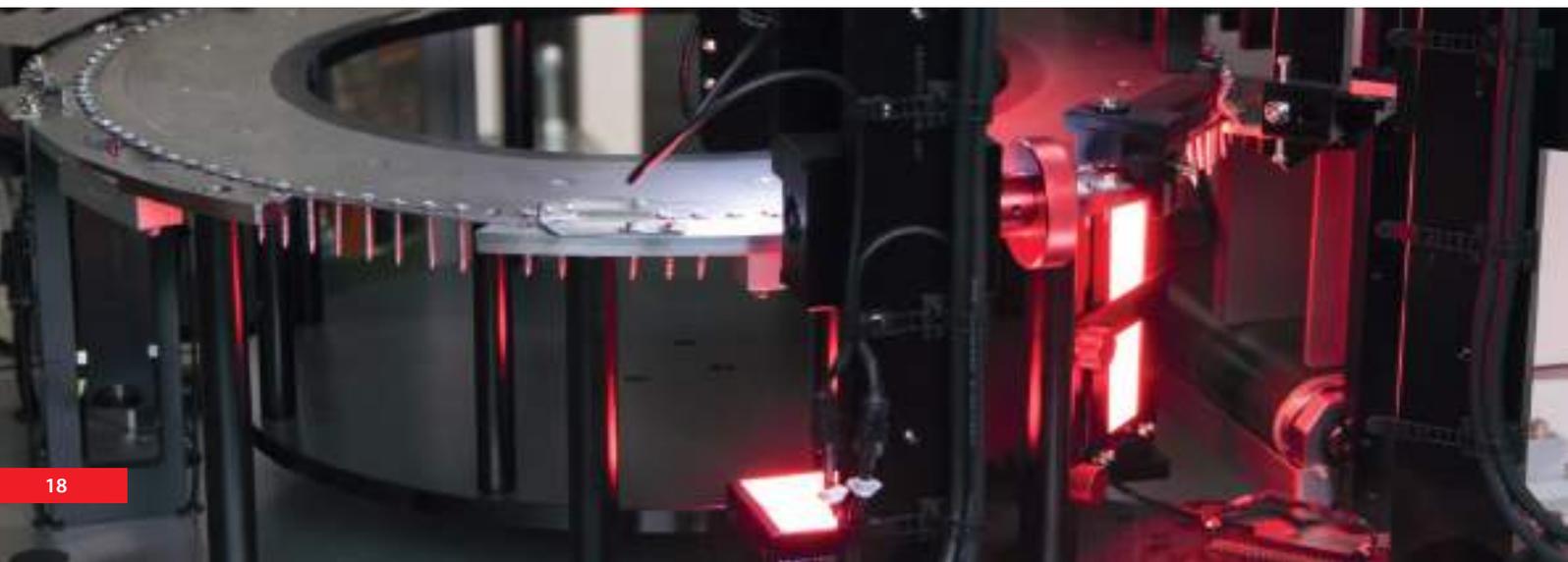


Sharp self-drilling point

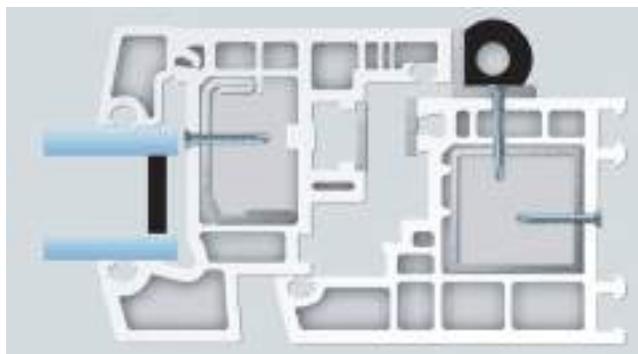
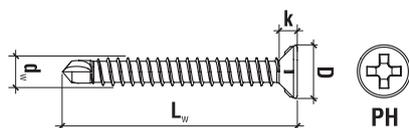
Special self-drilling point ensures easier and faster screw installation in steel.



100% of screws controlled! The parameters checked include length, shank diameter, thread diameter, head size, quality of the drive, thread pitch and length, tip and others.



WSPCV-R Self-drilling screw with ribs for fittings and steel reinforcement, PH



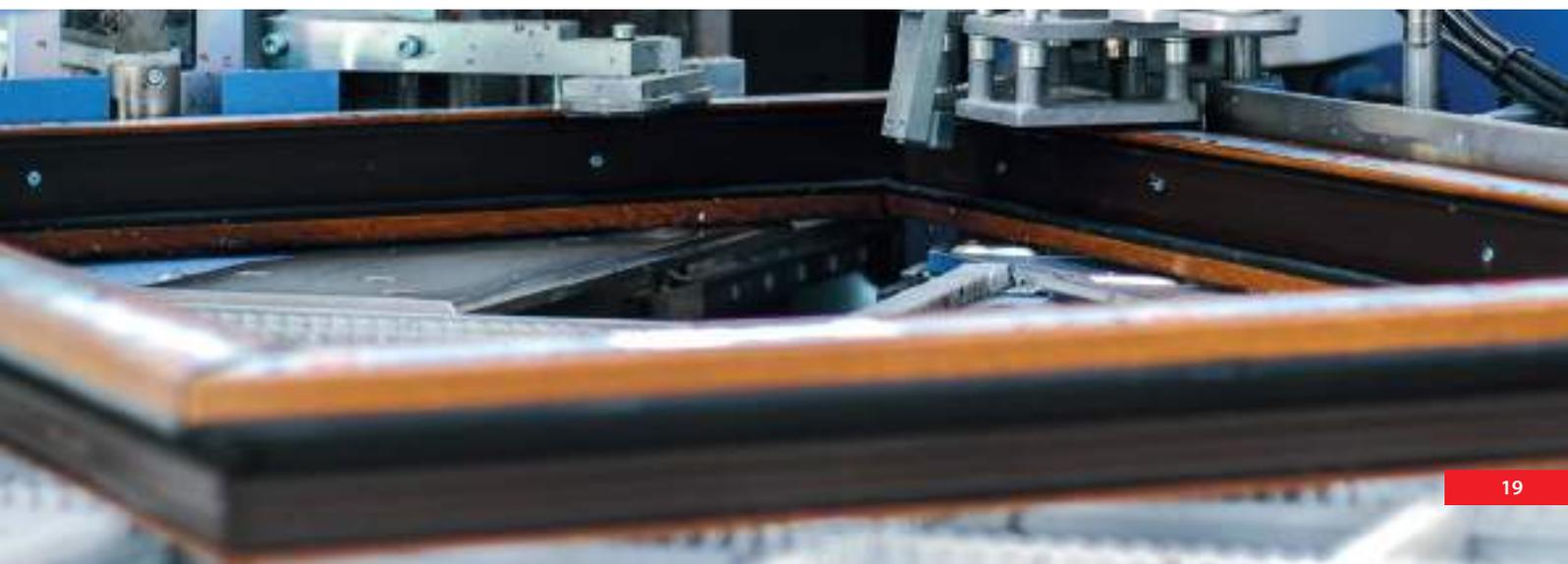
Product marking

WSPCV	R	B	39	016
Type	Special ribs	White zinc	Diameter	Length

Sample application

	Code	$d_w \times L_w$ [mm]	D [mm]	k [mm]	PH	Pcs
ø3.9	WSPCV-B-R-39016	3.9 x 16	7.5	3	PH 2	1000
	WSPCV-B-R-39019	3.9 x 19	7.5	3	PH 2	1000
	WSPCV-B-R-39025	3.9 x 25	7.5	3	PH 2	1000
	WSPCV-B-R-39032	3.9 x 32	7.5	3	PH 2	500
	WSPCV-B-R-39040	3.9 x 40	7.5	3	PH 2	500

Product made to order



WSPCV Self-drilling screw without ribs for fittings and steel reinforcement, PH



AT-15-7179/2013



made to order

Description

Application	Screw for fixing plastic window profiles with steel reinforcement elements up to 2 mm thick.
Type of installation	This screw does not require prior drilling.
Material	Zinc plated carbon steel

Features and advantages



PH head with marking

Exact head size and good workmanship make it ideal for use with automatic screwdriving unit. Letter "K" marking identifies our company as the manufacturer.



Countersunk head

Countersunk head ensures its correct sinking in the member.



Correct thread pitch and length

The right pitch ensures correct installation of metal members.

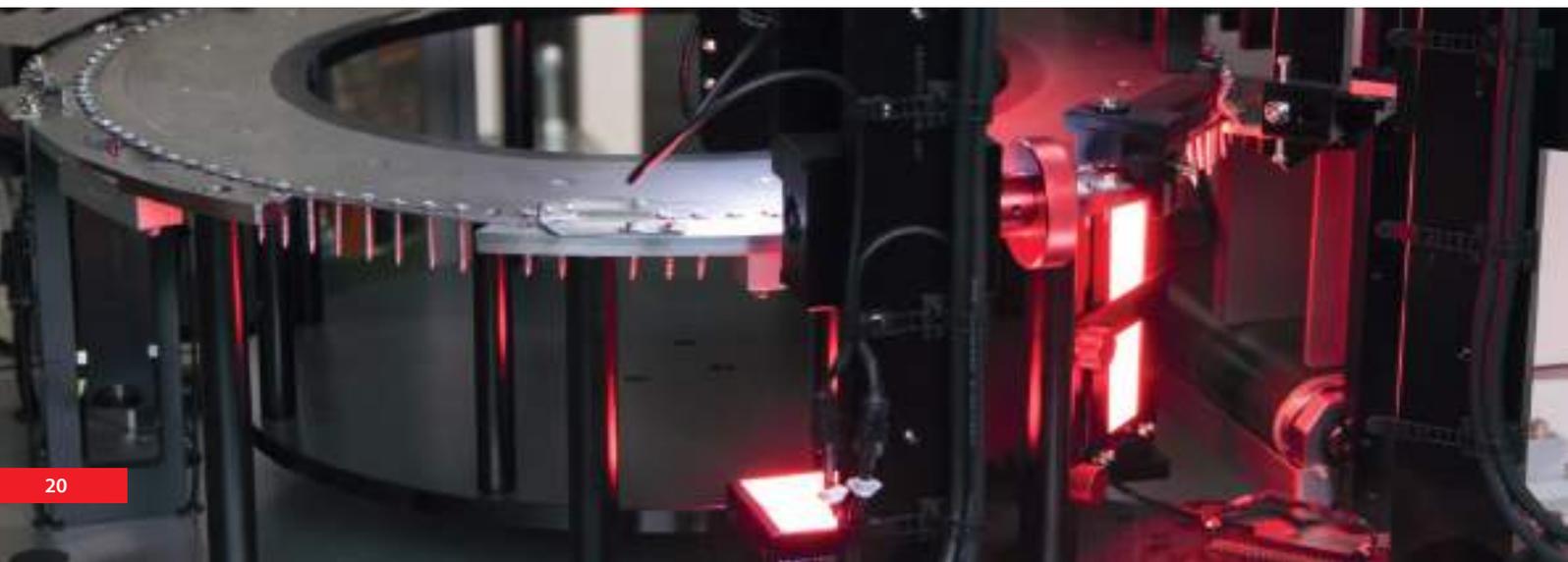


Sharp self-drilling point

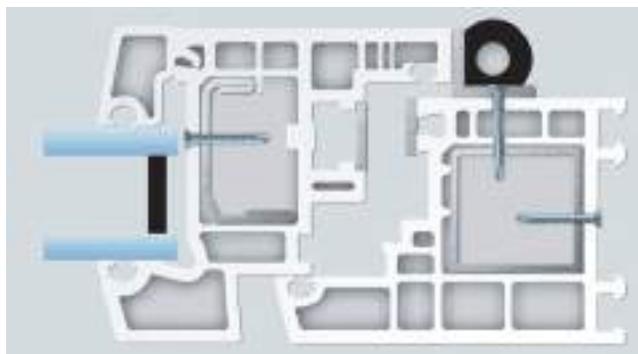
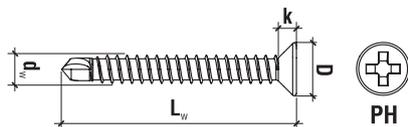
Special self-drilling point ensures easier and faster screw installation in steel.



100% of screws controlled! The parameters checked include length, shank diameter, thread diameter, head size, quality of the drive, thread pitch and length, tip and others.



WSPCV Self-drilling screw without ribs for fittings and steel reinforcement, PH

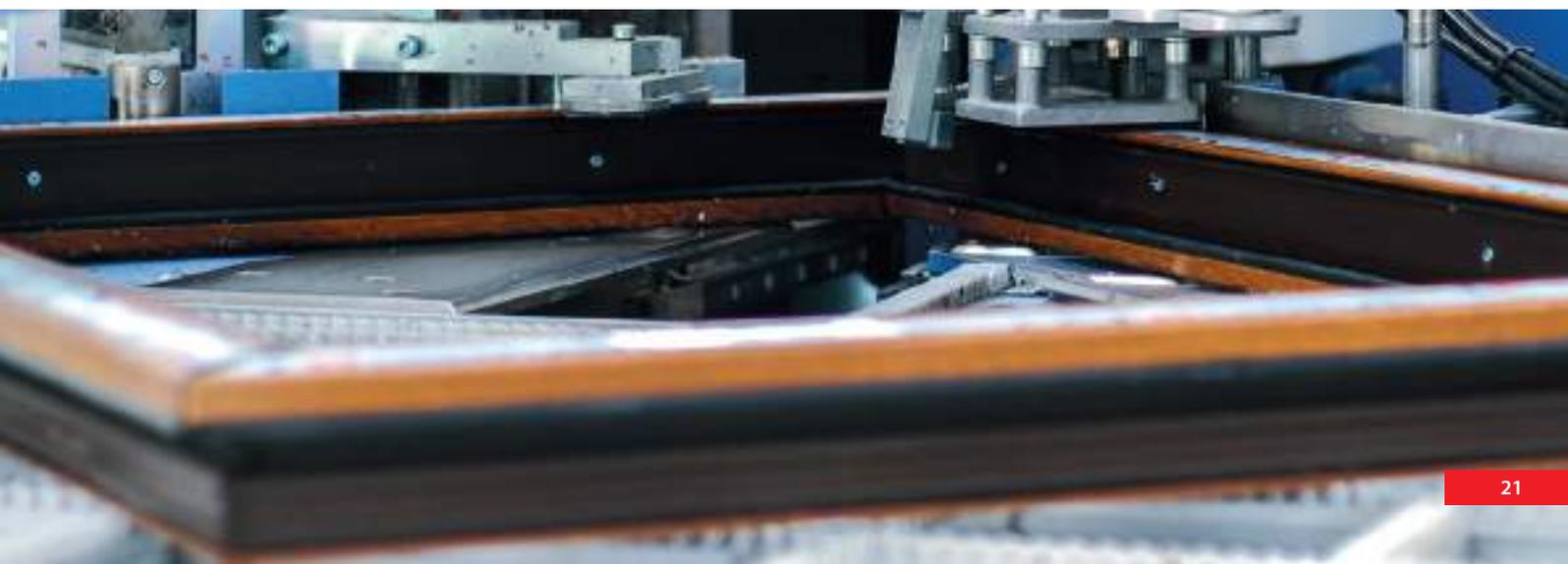


Product marking

WSPCV	B	39	016
Type	White zinc	Diameter	Length

Sample application

	Code	$d_w \times L_w$ [mm]	D [mm]	k [mm]	PH	Pcs
ø3.9	WSPCV-B-39016	3.9 x 16	7.5	3	PH 2	1000
	WSPCV-B-39019	3.9 x 19	7.5	3	PH 2	1000
	WSPCV-B-39025	3.9 x 25	7.5	3	PH 2	1000
	WSPCV-B-39032	3.9 x 32	7.5	3	PH 2	500
	WSPCV-B-39040	3.9 x 40	7.5	3	PH 2	500



WSWL Self-drilling pan head screw, PH



Description

Type of installation	This screw does not require prior drilling.
Material	Zinc plated carbon steel
Product made to order.	

Features and advantages



Pan head with PH drive

Pan head ensures the correct tightness of the installed member. Commonly used PH drive makes installation easier.



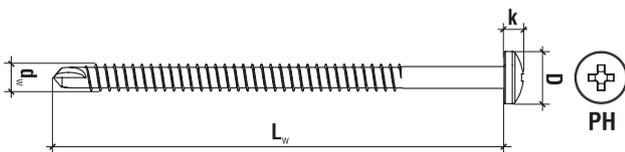
Correct thread pitch and length

The right pitch ensures correct installation of metal members.



Sharp self-drilling point

Special self-drilling point ensures easier and faster screw installation in steel.



	Code	$d_w \times L_w$ [mm]	D [mm]	k [mm]	PH	Pcs
ø4.8	WSWL-48080	4.8 x 80	9.4	3.2	PH 2	400
	WSWL-48120	4.8 x 120	9.4	3.2	PH 2	200

Product made to order

BWL

Pan head sheet metal screw, PH



Description

Type of installation	This screw does not require prior drilling.
Material	Zinc plated carbon steel
Product made to order.	

Features and advantages



Pan head with PH drive

Pan head ensures the correct tightness of the installed member. Commonly used PH drive makes installation easier.



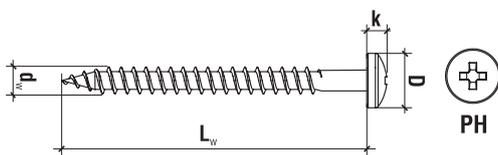
Correct thread pitch and length

The right pitch ensures correct installation of metal members.



Sharp point

Sharp point ensures easier and faster screw installation.



	Code	$d_w \times L_w$ [mm]	D [mm]	k [mm]	PH	Pcs
ø4.2	BWL-42013	4.2 x 13	8	3.2	PH 2	1000
ø6.3	BWL-63070	6.3 x 70	12	4.5	PH 3	200
	BWL-63100	6.3 x 100	12	4.5	PH 3	100
	BWL-63120	6.3 x 120	12	4.5	PH 3	100

Product made to order

WBWT Pan head sheet metal screw, TX



Description

Type of installation	This screw does not require prior drilling.
Material	Zinc plated carbon steel

Product made to order.

Features and advantages



Pan head with TX drive

Pan head ensures the correct tightness of the installed member. TX drive guarantees optimum torque transfer.



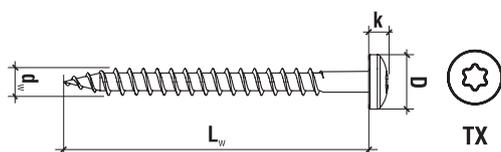
Correct thread pitch and length

The right pitch ensures correct installation in PVC frames.



Sharp point

Sharp point ensures easier and faster screw installation.



	Code	$d_w \times L_w$ [mm]	D [mm]	k [mm]	TX	Pcs
ø5.0	WBWT-50090	5.0 x 90	9.5	3.2	TX 25	200

Product made to order

WSPC

Flange head self-drilling screw, PH



CE
PN-EN 14566
+A1:2010



Description

Application	Flange head self-drilling screw for making lap joints in steel sheets up to 2mm thick.
Type of installation	This screw does not require prior drilling.
Material	Zinc plated carbon steel

Features and advantages



Flange head with PH drive

Flange head ensures tight fastening of the installed element. Commonly used PH drive also makes installation easier.



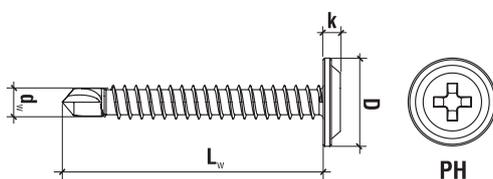
Correct thread pitch and length

The right pitch ensures correct installation of members.



Sharp self-drilling point

Special self-drilling point ensures easier and faster screw installation in steel.



	Code	$d_w \times L_w$ [mm]	D [mm]	k [mm]	PH	Pcs
ø4.2	WSPC-42013	4.2 x 13	11.5	2	PH 2	1000
	WSPC-42016	4.2 x 16	11.5	2	PH 2	1000
	WSPC-42019	4.2 x 19	11.5	2	PH 2	1000
	WSPC-42025	4.2 x 25	11.5	2	PH 2	500
	WSPC-42032	4.2 x 32	11.5	2	PH 2	500
	WSPC-42045	4.2 x 45	11.5	2	PH 2	300
	WSPC-42055	4.2 x 55	11.5	2	PH 2	300

WPC Flange head screw, PH



PN-EN 14566
+A1:2010



Description

Application	Flange head self-tapping screw for 1.0 mm thick sheets and wooden substrates.
Type of installation	This screw does not require prior drilling.
Material	Zinc plated carbon steel

Features and advantages



Flange head with PH drive

Flange head ensures tight fastening of the installed element. Commonly used PH drive also makes installation easier.



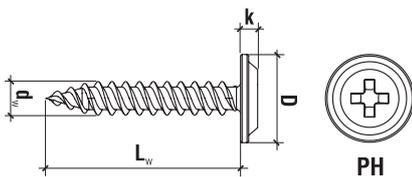
Correct thread pitch and length

The right pitch ensures correct installation of members.



Sharp point

Sharp point ensures easier and faster screw installation.



	Code	$d_w \times L_w$ [mm]	D [mm]	k [mm]	PH	Pcs
ø4.2	WPC-42013	4.2 x 13	11.5	2	PH 2	1000
	WPC-42016	4.2 x 16	11.5	2	PH 2	1000
	WPC-42019	4.2 x 19	11.5	2	PH 2	1000
	WPC-42025	4.2 x 25	11.5	2	PH 2	500
	WPC-42032	4.2 x 32	11.5	2	PH 2	500
	WPC-42040	4.2 x 40	11.5	2	PH 2	400
	WPC-42050	4.2 x 50	11.5	2	PH 2	300
	WPC-42065	4.2 x 65	11.5	2	PH 2	250

WRZP Screw for blind guides, PH



Features and advantages

Material Zinc plated carbon steel
Product made to order.

Features and advantages



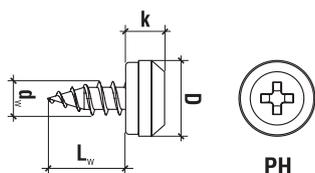
Pan head, PH drive

Pan head ensures tight fastening of the installed element. Commonly used PH drive also makes installation easier.



Sharp point

Sharp point ensures easier and faster screw installation.



	Code	$d_w \times L_w$ [mm]	D [mm]	k [mm]	PH	Pcs
ø4.5	WRZP-45010	4.5 x 10	10	5	PH2	1000

Product made to order



KMWHT Construction flat head screw, TX



Description

Application	Screw for connecting wood and wood-based members to structural timber
Type of installation	This screw does not require prior drilling.
Substrate	Chipboard, plywood, wood, sterling board, MDF board
Material	Zinc-plated low carbon steel

Features and advantages



Wax coating

Wax coating applied during the production process significantly reduces the torque. This makes the installation easier, faster and saves energy, which is important in the case of battery-powered tools.



Screw length

We manufacture screws up to 200 mm long, which are suitable for installing members up to 130 mm thick.



Countersunk head with TX drive

Countersunk head ensures flush fitting of the screw in the installed member. TX drive guarantees optimum torque transfer.



Cutting ribs

Self-countersinking head ensures aesthetic finish result.



Shank ribs

Shank ribs reduces driving torque by reaming the hole.



Serrated thread

Special cutting notches on the thread cut wood structural fibres while the screw is advancing.

Special cutting point

Notched thread tip makes the start of installation easier and prevents timber from splitting.



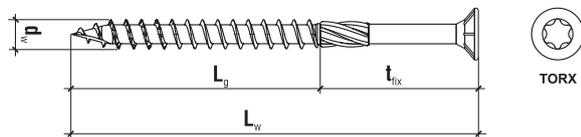
PN-EN 14592:2008
+A1:2012



How to read the code, e.g. KMWHT-45040?

KMWHT	45	040
Type	Diameter 4.5mm	Length 40mm

KMWHT Construction flat head screw, TORX



	Code	$d_w \times L_w$ [mm]	L_g [mm]	t_{fix} [mm]	TX	Pcs
ø3.0	KMWHT-30030	3.0 x 30	17	13	TX 10	500
	KMWHT-30035	3.0 x 35	17	18	TX 10	500
	KMWHT-30040	3.0 x 40	22	18	TX 10	500
ø3.5	KMWHT-35030	3.5 x 30	17	13	TX 15	500
	KMWHT-35035	3.5 x 35	17	18	TX 15	500
	KMWHT-35040	3.5 x 40	22	18	TX 15	500
	KMWHT-35050	3.5 x 50	30	20	TX 15	400
ø4.0	KMWHT-40030	4.0 x 30	17	13	TX 20	500
	KMWHT-40035	4.0 x 35	17	18	TX 20	500
	KMWHT-40040	4.0 x 40	22	18	TX 20	500
	KMWHT-40045	4.0 x 45	30	15	TX 20	300
	KMWHT-40050	4.0 x 50	30	20	TX 20	300
	KMWHT-40060	4.0 x 60	35	25	TX 20	250
	KMWHT-40070	4.0 x 70	40	30	TX 20	250
ø4.5	KMWHT-45040	4.5 x 40	22	18	TX 20	250
	KMWHT-45050	4.5 x 50	30	20	TX 20	250
	KMWHT-45060	4.5 x 60	35	25	TX 20	250
	KMWHT-45070	4.5 x 70	40	30	TX 20	250
	KMWHT-45080	4.5 x 80	50	30	TX 20	250
ø5.0	KMWHT-50040	5.0 x 40	22	18	TX 25	500
	KMWHT-50050	5.0 x 50	30	20	TX 25	300
	KMWHT-50060	5.0 x 60	35	25	TX 25	200
	KMWHT-50070	5.0 x 70	40	30	TX 25	200
	KMWHT-50080	5.0 x 80	50	30	TX 25	200
	KMWHT-50090	5.0 x 90	50	40	TX 25	200
	KMWHT-50100	5.0 x 100	60	40	TX 25	200
	KMWHT-50120	5.0 x 120	70	50	TX 25	200
ø6.0	KMWHT-60050	6.0 x 50	30	20	TX 30	200
	KMWHT-60060	6.0 x 60	35	25	TX 30	200
	KMWHT-60070	6.0 x 70	40	30	TX 30	200
	KMWHT-60080	6.0 x 80	50	30	TX 30	200
	KMWHT-60090	6.0 x 90	50	40	TX 30	100
	KMWHT-60100	6.0 x 100	60	40	TX 30	100
	KMWHT-60120	6.0 x 120	70	50	TX 30	100
	KMWHT-60140	6.0 x 140	70	70	TX 30	100
	KMWHT-60160	6.0 x 160	70	90	TX 30	100
	KMWHT-60180	6.0 x 180	70	110	TX 30	100
KMWHT-60200	6.0 x 200	70	130	TX 30	100	

KDH / KMH

Hardened countersunk flat head wood screw with partial thread, PZ



Description

Application	Screw tempered for connections of wooden and wood-derived elements. It is also applied for connecting furniture accessories, e.g. hinges, guide grooves etc. with wooden elements, chipboard, plywood, OSB board.
Type of installation	This screw does not require prior drilling.
Substrate	Chipboard, plywood, wood, sterling board, MDF board
Material	Zinc-plated low carbon steel

Features and advantages



Wax coating

Wax coating applied during the production process significantly reduces the torque. This makes the installation easier, faster and saves energy, which is important in the case of battery-powered tools.



Countersunk head

This allows for ideally concealing the screw in the fastened element which facilitates the flow of the guide groove.



PZ drive

Commonly used PZ drive also makes installation easier



Profile of thread

Specially designed profile of thread leads to the assembly being quick, while the fastening of elements is long-lasting

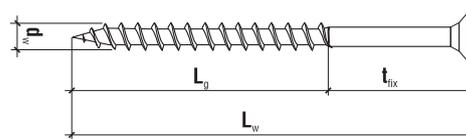


Partial thread

Partial thread prevents splitting of elements being installed and guarantees their tight fastening.



PN-EN 14592:2008
+A1:2012



How to read the code, e.g. KDH-5007045-B(X5)?

KDH	50	070	45	-B	(X5)
Type	Diameter 5.0mm	Length 70mm	Thread length 45mm	Blue zinc	Packing - 5 kg per box

KDH/KMH

Hardened flat head wood screw with partial thread, PZ

	Code			Code		Pcs	d _w x L _w [mm]	L _g [mm]	+
	Zn YELLOW	Zn BLUE		Zn YELLOW	Zn BLUE				
ø3.5	KDH-3504025(X5)*	KDH-3504025-B(X5)*	5	-	-	-	3.5 x 40	25	PZ 2
	KDH-3504030(X5)*	KDH-3504030-B(X5)*	5	-	-	-	3.5 x 40	30	PZ 2
	KDH-3505025(X5)*	KDH-3505025-B(X5)*	5	-	-	-	3.5 x 50	25	PZ 2
	KDH-3505030(X5)*	KDH-3505030-B(X5)*	5	-	-	-	3.5 x 50	30	PZ 2
	KDH-3505035(X5)*	KDH-3505035-B(X5)*	5	-	-	-	3.5 x 50	35	PZ 2
	KDH-3506035(X5)*	KDH-3506035-B(X5)*	5	-	-	-	3.5 x 60	35	PZ 2
ø4.0	KDH-4004020(X5)*	KDH-4004020-B(X5)*	5	-	-	-	4.0 x 40	20	PZ 2
	KDH-4005030(X5)*	KDH-4005030-B(X5)*	5	-	-	-	4.0 x 50	30	PZ 2
	KDH-4005035(X5)*	KDH-4005035-B(X5)*	5	-	-	-	4.0 x 50	35	PZ 2
	KDH-4005540(X5)*	KDH-4005540-B(X5)*	5	-	-	-	4.0 x 55	40	PZ 2
	KDH-4006035(X5)*	KDH-4006035-B(X5)*	5	-	-	-	4.0 x 60	35	PZ 2
	KDH-4006040(X5)*	KDH-4006040-B(X5)*	5	-	-	-	4.0 x 60	40	PZ 2
	KDH-40070(X5)	KDH-40070-B(X5)	5	KMH-40070	KMH-40070-B	250	4.0 x 70	55	PZ 2
	KDH-4007045(X5)*	KDH-4007045-B(X5)*	5	-	-	-	4.0 x 70	45	PZ 2
	KDH-4007050(X5)*	KDH-4007050-B(X5)*	5	-	-	-	4.0 x 70	50	PZ 2
	KDH-40080(X5)	KDH-40080-B(X5)	5	-	-	-	4.0 x 80	55	PZ 2
ø4.5	KDH-4505540(X5)*	KDH-4505540-B(X5)*	5	-	-	-	4.5 x 55	40	PZ 2
	KDH-45070(X5)	KDH-45070-B(X5)	5	KMH-45070	KMH-45070-B	250	4.5 x 70	55	PZ 2
	KDH-45080(X5)	KDH-45080-B(X5)	5	KMH-45080	KMH-45080-B	250	4.5 x 80	55	PZ 2
ø5.0	KDH-5005030(X5)*	KDH-5005030-B(X5)*	5	-	-	-	5.0 x 50	30	PZ 2
	KDH-5006035(X5)*	KDH-5006035-B(X5)*	5	-	-	-	5.0 x 60	35	PZ 2
	KDH-50070(X5)	KDH-50070-B(X5)	5	KMH-50070	KMH-50070-B	200	5.0 x 70	55	PZ 2
	KDH-5007045(X5)*	KDH-5007045-B(X5)*	5	-	-	-	5.0 x 70	45	PZ 2
	KDH-50080(X5)	KDH-50080-B(X5)	5	KMH-50080	KMH-50080-B	200	5.0 x 80	55	PZ 2
	KDH-50090(X5)	KDH-50090-B(X5)	5	KMH-50090	KMH-50090-B	200	5.0 x 90	55	PZ 2
	KDH-50100(X5)	KDH-50100-B(X5)	5	KMH-50100	KMH-50100-B	200	5.0 x 100	55	PZ 2
	KDH-5010030(X5)*	KDH-5010030-B(X5)*	5	-	-	-	5.0 x 100	30	PZ 2
	KDH-50120(X5)	KDH-50120-B(X5)	5	KMH-50120	KMH-50120-B	100	5.0 x 120	75	PZ 2
ø6.0	KDH-60070(X5)	KDH-60070-B(X5)	5	KMH-60070	KMH-60070-B	200	6.0 x 70	55	PZ 3
	KDH-60080(X5)	KDH-60080-B(X5)	5	KMH-60080	KMH-60080-B	200	6.0 x 80	55	PZ 3
	KDH-6008075(X5)*	KDH-6008075-B(X5)*	5	-	-	-	6.0 x 80	75	PZ 3
	KDH-60090(X5)	KDH-60090-B(X5)	5	KMH-60090	KMH-60090-B	100	6.0 x 90	55	PZ 3
	KDH-60100(X5)	KDH-60100-B(X5)	5	KMH-60100	KMH-60100-B	100	6.0 x 100	55	PZ 3
	KDH-6010070(X5)*	KDH-6010070-B(X5)*	5	-	-	-	6.0 x 100	70	PZ 3
	KDH-60110(X5)	KDH-60110-B(X5)	5	KMH-60110	KMH-60110-B	100	6.0 x 110	75	PZ 3
	KDH-60120(X5)	KDH-60120-B(X5)	5	KMH-60120	KMH-60120-B	100	6.0 x 120	75	PZ 3
	KDH-60140(X5)	KDH-60140-B(X5)	5	KMH-60140	KMH-60140-B	100	6.0 x 140	75	PZ 3
	KDH-60160(X5)	KDH-60160-B(X5)	5	KMH-60160	KMH-60160-B	100	6.0 x 160	75	PZ 3
	KDH-60180(X5)	KDH-60180-B(X5)	5	KMH-60180	KMH-60180-B	100	6.0 x 180	75	PZ 3
	KDH-60200(X5)	KDH-60200-B(X5)	5	KMH-60200	KMH-60200-B	100	6.0 x 200	75	PZ 3

* items made to order

KDHT/KMHT

Hardened flat head wood screw with partial thread, TX



Description

Application	Screw tempered for connections of wooden and wood-derived elements. It is also applied for connecting furniture accessories, e.g. hinges, guide grooves etc. with wooden elements, chipboard, plywood, OSB board.
Type of installation	This screw does not require prior drilling.
Substrate	Chipboard, plywood, wood, sterling board, MDF board
Material	Zinc-plated low carbon steel

Features and advantages



Wax coating

Wax coating applied during the production process significantly reduces the torque. This makes the installation easier, faster and saves energy, which is important in the case of battery-powered tools.



Countersunk head

This allows for ideally concealing the screw in the fastened element which facilitates the flow of the guide groove.



TX drive

TX drive guarantees optimum torque transfer.



Profile of thread

Specially designed profile of thread leads to the assembly being quick, while the fastening of elements is long-lasting

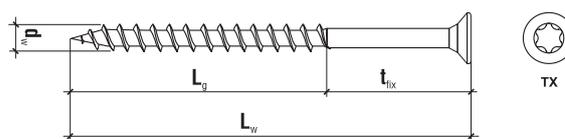


Partial thread

Partial thread prevents splitting of elements being installed and guarantees their tight fastening.



PN-EN 14592:2008
+A1:2012



How to read the code, e.g. KDHT-5010030?

KDHT	50	100	30
Type	Diameter 5.0mm	Length 100mm	Thread length 30mm

KDHT/KMHT Hardened flat head wood screw with partial thread, TX

	Code		Pcs	d _w x L _w [mm]	L _g [mm]		
	 Zn YELLOW	 kg					
ø3.5	KDHT-3504025	5	-	3.5 x 40	25	TX 15	
	KDHT-3504030	5	-	3.5 x 40	30	TX 15	
	KDHT-3505025	5	-	3.5 x 50	25	TX 15	
	KDHT-3505030	5	-	3.5 x 50	30	TX 15	
	KDHT-3505035	5	-	3.5 x 50	35	TX 15	
	KDHT-3506035	5	-	3.5 x 60	35	TX 15	
ø4.0	KDHT-4004020	5	-	4.0 x 40	20	TX 20	
	KDHT-4005030	5	-	4.0 x 50	30	TX 20	
	KDHT-4005035	5	-	4.0 x 50	35	TX 20	
	KDHT-4005540	5	-	4.0 x 55	40	TX 20	
	KDHT-4006035	5	-	4.0 x 60	35	TX 20	
	KDHT-4006040	5	-	4.0 x 60	40	TX 20	
	KDHT-40070	5	KMHT-40070	250	4.0 x 70	55	TX 20
	KDHT-4007045	5	-	-	4.0 x 70	45	TX 20
	KDHT-4007050	5	-	-	4.0 x 70	50	TX 20
	KDHT-40080	5	-	-	4.0 x 80	55	TX 20
ø4.5	KDHT-4505540	5	-	4.5 x 55	40	TX 20	
	KDHT-45070	5	KMHT-45070	250	4.5 x 70	55	TX 20
	KDHT-45080	5	KMHT-45080	250	4.5 x 80	55	TX 20
ø5.0	KDHT-5005030	5	-	5.0 x 50	30	TX 25	
	KDHT-5006035	5	-	5.0 x 60	35	TX 25	
	KDHT-50070	5	KMHT-50070	200	5.0 x 70	55	TX 25
	KDHT-5007045	5	-	-	5.0 x 70	45	TX 25
	KDHT-50080	5	KMHT-50080	200	5.0 x 80	55	TX 25
	KDHT-50090	5	KMHT-50090	200	5.0 x 90	55	TX 25
	KDHT-50100	5	KMHT-50100	200	5.0 x 100	55	TX 25
	KDHT-5010030	5	-	-	5.0 x 100	30	TX 25
	KDHT-50120	5	KMHT-50120	100	5.0 x 120	75	TX 25
ø6.0	KDHT-60070	5	KMHT-60070	200	6.0 x 70	55	TX 30
	KDHT-60080	5	KMHT-60080	200	6.0 x 80	55	TX 30
	KDHT-6008075	5	-	-	6.0 x 80	75	TX 30
	KDHT-60090	5	KMHT-60090	100	6.0 x 90	55	TX 30
	KDHT-60100	5	KMHT-60100	100	6.0 x 100	55	TX 30
	KDHT-6010070	5	-	-	6.0 x 100	70	TX 30
	KDHT-60110	5	KMHT-60110	100	6.0 x 110	75	TX 30
	KDHT-60120	5	KMHT-60120	100	6.0 x 120	75	TX 30
	KDHT-60140	5	KMHT-60140	100	6.0 x 140	75	TX 30
	KDHT-60160	5	KMHT-60160	100	6.0 x 160	75	TX 30
	KDHT-60180	5	KMHT-60180	100	6.0 x 180	75	TX 30
	KDHT-60200	5	KMHT-60200	100	6.0 x 200	75	TX 30

Product made to order

KDH / KMH

Hardened countersunk flat head wood screw with full thread, PZ



PN-EN 14592:2008
+A1:2012

Description

Application	Screw tempered for connections of wooden and wood-derived elements. It is also applied for connecting furniture accessories, e.g. hinges, guide grooves etc. with wooden elements, chipboard, plywood, OSB board.
Type of installation	This screw does not require prior drilling.
Substrate	Chipboard, plywood, wood, sterling board, MDF board
Material	Zinc-plated low carbon steel

Features and advantages



Wax coating

Wax coating applied during the production process significantly reduces the torque. This makes the installation easier, faster and saves energy, which is important in the case of battery-powered tools.



Countersunk head

This allows for ideally concealing the screw in the fastened element which facilitates the flow of the guide groove.



PZ drive

Commonly used PZ drive also makes installation easier



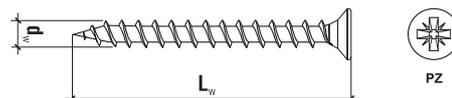
Profile of thread

Specially designed profile of thread leads to the assembly being quick, while the fastening of elements is long-lasting



Full thread

Full thread provides maximum efficiency of connection when installing thin elements.



How to read the code KDH-50030-B(X5)?

KDH	50	030	-B	(X5)
Screw type	Screw diameter 5.0mm	Screw length 30mm	Zinc color - blue	Packing - 5kg/box

SCREWS AND FASTENERS FOR WINDOWS AND DOORS

SCREWS FOR WINDOW MANUFACTURE - PRODUCTION PROGRAMME

	Code			kg	Code		Pcs	d _w x L _w [mm]	+
	Zn YELLOW	Zn BLUE			Zn YELLOW	Zn BLUE			
ø3.0	KDH-30012(X5)	KDH-30012-B(X5)	5	KMH-30012	KMH-30012-B	2000	3.0 x 12	PZ 1	
	KDH-30013(X5)	KDH-30013-B(X5)	5	KMH-30013	KMH-30013-B	2000	3.0 x 13	PZ 1	
	KDH-30016(X5)	KDH-30016-B(X5)	5	KMH-30016	KMH-30016-B	2000	3.0 x 16	PZ 1	
	KDH-30020(X5)	KDH-30020-B(X5)	5	KMH-30020	KMH-30020-B	2000	3.0 x 20	PZ 1	
	KDH-30025(X5)	KDH-30025-B(X5)	5	KMH-30025	KMH-30025-B	1500	3.0 x 25	PZ 1	
	KDH-30030(X5)	KDH-30030-B(X5)	5	KMH-30030	KMH-30030-B	1000	3.0 x 30	PZ 1	
	KDH-30035(X5)	KDH-30035-B(X5)	5	KMH-30035	KMH-30035-B	1000	3.0 x 35	PZ 1	
	KDH-30040(X5)	KDH-30040-B(X5)	5	KMH-30040	KMH-30040-B	500	3.0 x 40	PZ 1	
ø3.5	KDH-35013(X5)	KDH-35013-B(X5)	5	KMH-35013	KMH-35013-B	2000	3.5 x 13	PZ 2	
	KDH-35016(X5)	KDH-35016-B(X5)	5	KMH-35016	KMH-35016-B	2000	3.5 x 16	PZ 2	
	KDH-35020(X5)	KDH-35020-B(X5)	5	KMH-35020	KMH-35020-B	1500	3.5 x 20	PZ 2	
	KDH-35025(X5)	KDH-35025-B(X5)	5	KMH-35025	KMH-35025-B	1000	3.5 x 25	PZ 2	
	KDH-35030(X5)	KDH-35030-B(X5)	5	KMH-35030	KMH-35030-B	500	3.5 x 30	PZ 2	
	KDH-35035(X5)	KDH-35035-B(X5)	5	KMH-35035	KMH-35035-B	500	3.5 x 35	PZ 2	
	KDH-35040(X5)	KDH-35040-B(X5)	5	KMH-35040	KMH-35040-B	500	3.5 x 40	PZ 2	
	KDH-35045(X5)	KDH-35045-B(X5)	5	KMH-35045	KMH-35045-B	500	3.5 x 45	PZ 2	
	KDH-35050(X5)	KDH-35050-B(X5)	5	KMH-35050	KMH-35050-B	400	3.5 x 50	PZ 2	
	KDH-35060(X5)	KDH-35060-B(X5)	5	KMH-35060	KMH-35060-B	400	3.5 x 60	PZ 2	
ø4.0	KDH-40013(X5)	KDH-40013-B(X5)	5	KMH-40013	KMH-40013-B	1500	4.0 x 13	PZ 2	
	KDH-40016(X5)	KDH-40016-B(X5)	5	KMH-40016	KMH-40016-B	1000	4.0 x 16	PZ 2	
	KDH-40020(X5)	KDH-40020-B(X5)	5	KMH-40020	KMH-40020-B	1000	4.0 x 20	PZ 2	
	KDH-40025(X5)	KDH-40025-B(X5)	5	KMH-40025	KMH-40025-B	1000	4.0 x 25	PZ 2	
	KDH-40030(X5)	KDH-40030-B(X5)	5	KMH-40030	KMH-40030-B	500	4.0 x 30	PZ 2	
	KDH-40035(X5)	KDH-40035-B(X5)	5	KMH-40035	KMH-40035-B	500	4.0 x 35	PZ 2	
	KDH-40040(X5)	KDH-40040-B(X5)	5	KMH-40040	KMH-40040-B	500	4.0 x 40	PZ 2	
	KDH-40045(X5)	KDH-40045-B(X5)	5	KMH-40045	KMH-40045-B	300	4.0 x 45	PZ 2	
	KDH-40050(X5)	KDH-40050-B(X5)	5	KMH-40050	KMH-40050-B	300	4.0 x 50	PZ 2	
	KDH-40055(X5)	KDH-40055-B(X5)	5	KMH-40055	KMH-40055-B	250	4.0 x 55	PZ 2	
	KDH-40060(X5)	KDH-40060-B(X5)	5	KMH-40060	KMH-40060-B	250	4.0 x 60	PZ 2	
	ø4.5	KDH-45016(X5)	KDH-45016-B(X5)	5	KMH-45016	KMH-45016-B	1000	4.5 x 16	PZ 2
		KDH-45020(X5)	KDH-45020-B(X5)	5	KMH-45020	KMH-45020-B	1000	4.5 x 20	PZ 2
		KDH-45025(X5)	KDH-45025-B(X5)	5	KMH-45025	KMH-45025-B	500	4.5 x 25	PZ 2
KDH-45030(X5)		KDH-45030-B(X5)	5	KMH-45030	KMH-45030-B	500	4.5 x 30	PZ 2	
KDH-45035(X5)		KDH-45035-B(X5)	5	KMH-45035	KMH-45035-B	500	4.5 x 35	PZ 2	
KDH-45040(X5)		KDH-45040-B(X5)	5	KMH-45040	KMH-45040-B	300	4.5 x 40	PZ 2	
KDH-45045(X5)		KDH-45045-B(X5)	5	KMH-45045	KMH-45045-B	300	4.5 x 45	PZ 2	
KDH-45050(X5)		KDH-45050-B(X5)	5	KMH-45050	KMH-45050-B	250	4.5 x 50	PZ 2	
KDH-45060(X5)		KDH-45060-B(X5)	5	KMH-45060	KMH-45060-B	250	4.5 x 60	PZ 2	
ø5.0		KDH-50025(X5)	KDH-50025-B(X5)	5	KMH-50025	KMH-50025-B	500	5.0 x 25	PZ 2
	KDH-50030(X5)	KDH-50030-B(X5)	5	KMH-50030	KMH-50030-B	500	5.0 x 30	PZ 2	
	KDH-50035(X5)	KDH-50035-B(X5)	5	KMH-50035	KMH-50035-B	500	5.0 x 35	PZ 2	
	KDH-50040(X5)	KDH-50040-B(X5)	5	KMH-50040	KMH-50040-B	500	5.0 x 40	PZ 2	
	KDH-50045(X5)	KDH-50045-B(X5)	5	KMH-50045	KMH-50045-B	300	5.0 x 45	PZ 2	
	KDH-50050(X5)	KDH-50050-B(X5)	5	KMH-50050	KMH-50050-B	300	5.0 x 50	PZ 2	
	KDH-50060(X5)	KDH-50060-B(X5)	5	KMH-50060	KMH-50060-B	200	5.0 x 60	PZ 2	
ø6.0	KDH-60040(X5)	KDH-60040-B(X5)	5	KMH-60040	KMH-60040-B	200	6.0 x 40	PZ 3	
	KDH-60050(X5)	KDH-60050-B(X5)	5	KMH-60050	KMH-60050-B	200	6.0 x 50	PZ 3	
	KDH-60060(X5)	KDH-60060-B(X5)	5	KMH-60060	KMH-60060-B	200	6.0 x 60	PZ 3	

KDHT/KMHT Hardened flat head wood screw with full thread, TX



PN-EN 14592:2008
+A1:2012

Description

Application	Screw tempered for connections of wooden and wood-derived elements. It is also applied for connecting furniture accessories, e.g. hinges, guide grooves etc. with wooden elements, chipboard, plywood, OSB board.
Type of installation	This screw does not require prior drilling.
Substrate	Chipboard, plywood, wood, sterling board, MDF board
Material	Zinc-plated low carbon steel

Features and advantages



Wax coating

Wax coating applied during the production process significantly reduces the torque. This makes the installation easier, faster and saves energy, which is important in the case of battery-powered tools.



Counter-sunk head

This allows for ideally concealing the screw in the fastened element which facilitates the flow of the guide groove.



TX drive

TX drive guarantees optimum torque transfer.



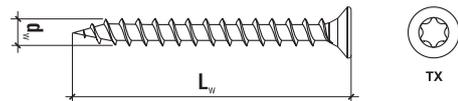
Profile of thread

Specially designed profile of thread leads to the assembly being quick, while the fastening of elements is long-lasting



Full thread

Full thread provides maximum efficiency of connection when installing thin elements.



How to read the code, e.g. KDHT-50030?

KDHT	50	30
Type	Diameter 5.0mm	Length 30mm

SCREWS AND FASTENERS FOR WINDOWS AND DOORS

SCREWS FOR WINDOW MANUFACTURE - PRODUCTION PROGRAMME

	Code		Code		d _w x L _w [mm]	
						
ø3.0	KDHT-30012	5	KMHT-30012	2000	3.0 x 12	TX 10
	KDHT-30013	5	KMHT-30013	2000	3.0 x 13	TX 10
	KDHT-30016	5	KMHT-30016	2000	3.0 x 16	TX 10
	KDHT-30020	5	KMHT-30020	2000	3.0 x 20	TX 10
	KDHT-30025	5	KMHT-30025	1500	3.0 x 25	TX 10
	KDHT-30030	5	KMHT-30030	1000	3.0 x 30	TX 10
	KDHT-30035	5	KMHT-30035	1000	3.0 x 35	TX 10
	KDHT-30040	5	KMHT-30040	500	3.0 x 40	TX 10
ø3.5	KDHT-35013	5	KMHT-35013	2000	3.5 x 13	TX 15
	KDHT-35016	5	KMHT-35016	2000	3.5 x 16	TX 15
	KDHT-35020	5	KMHT-35020	1500	3.5 x 20	TX 15
	KDHT-35025	5	KMHT-35025	1000	3.5 x 25	TX 15
	KDHT-35030	5	KMHT-35030	500	3.5 x 30	TX 15
	KDHT-35035	5	KMHT-35035	500	3.5 x 35	TX 15
	KDHT-35040	5	KMHT-35040	500	3.5 x 40	TX 15
	KDHT-35045	5	KMHT-35045	500	3.5 x 45	TX 15
	KDHT-35050	5	KMHT-35050	400	3.5 x 50	TX 15
	KDHT-35060	5	KMHT-35060	400	3.5 x 60	TX 15
ø4.0	KDHT-40013	5	KMHT-40013	1500	4.0 x 13	TX 20
	KDHT-40016	5	KMHT-40016	1000	4.0 x 16	TX 20
	KDHT-40020	5	KMHT-40020	1000	4.0 x 20	TX 20
	KDHT-40025	5	KMHT-40025	1000	4.0 x 25	TX 20
	KDHT-40030	5	KMHT-40030	500	4.0 x 30	TX 20
	KDHT-40035	5	KMHT-40035	500	4.0 x 35	TX 20
	KDHT-40040	5	KMHT-40040	500	4.0 x 40	TX 20
	KDHT-40045	5	KMHT-40045	300	4.0 x 45	TX 20
	KDHT-40050	5	KMHT-40050	300	4.0 x 50	TX 20
	KDHT-40055	5	KMHT-40055	250	4.0 x 55	TX 20
	KDHT-40060	5	KMHT-40060	250	4.0 x 60	TX 20
	ø4.5	KDHT-45016	5	KMHT-45016	1000	4.5 x 16
KDHT-45020		5	KMHT-45020	1000	4.5 x 20	TX 20
KDHT-45025		5	KMHT-45025	500	4.5 x 25	TX 20
KDHT-45030		5	KMHT-45030	500	4.5 x 30	TX 20
KDHT-45035		5	KMHT-45035	500	4.5 x 35	TX 20
KDHT-45040		5	KMHT-45040	300	4.5 x 40	TX 20
KDHT-45045		5	KMHT-45045	300	4.5 x 45	TX 20
KDHT-45050		5	KMHT-45050	250	4.5 x 50	TX 20
KDHT-45060		5	KMHT-45060	250	4.5 x 60	TX 20
ø5.0	KDHT-50025	5	KMHT-50025	500	5.0 x 25	TX 25
	KDHT-50030	5	KMHT-50030	500	5.0 x 30	TX 25
	KDHT-50035	5	KMHT-50035	500	5.0 x 35	TX 25
	KDHT-50040	5	KMHT-50040	500	5.0 x 40	TX 25
	KDHT-50045	5	KMHT-50045	300	5.0 x 45	TX 25
	KDHT-50050	5	KMHT-50050	300	5.0 x 50	TX 25
	KDHT-50060	5	KMHT-50060	200	5.0 x 60	TX 25
ø6.0	KDHT-60040	5	KMHT-60040	200	6.0 x 40	TX 30
	KDHT-60050	5	KMHT-60050	200	6.0 x 50	TX 30
	KDHT-60060	5	KMHT-60060	200	6.0 x 60	TX 30

Product made to order





KLIMAS

**SCREWS AND FASTENERS
FOR WINDOWS AND DOORS**

**SCREWS AND FASTENERS FOR
WINDOW AND DOOR INSTALLATION
PRODUCTION PROGRAMME**



WHO Hardened self-tapping flat head screw for PVC frames and connections in timber, TX



AT-15-8977/2012



Description

Application	Screw for installation of e.g. window and door frames
Type of installation	This screw does require prior drilling
Substrate	Concrete, masonry, timber
Material	Zinc-plated low carbon steel

Features and advantages



Screw length

We manufacture screws up to 212 mm long.



TX drive

TX drive guarantees optimum torque transfer.



Countersunk head with cutting ribs

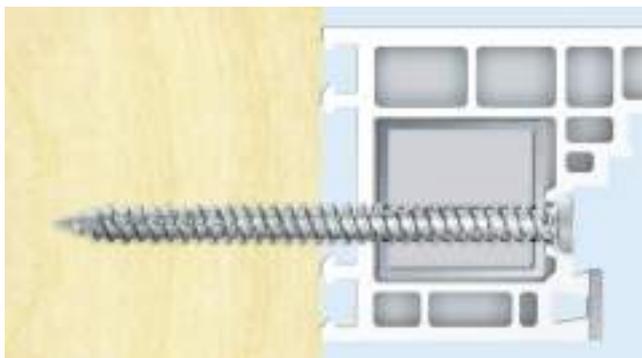
Countersunk head ensures flush fitting of the screw in the installed member. Self-countersinking head ensures aesthetic finish result.



Serrated thread

Thread design guarantees reliable and long-lasting connection – both in timber and masonry

Sample application



DESIGN RESISTANCE

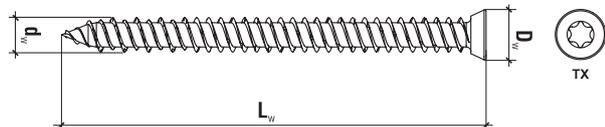
Substrate	Anchorage h_{eff} [mm]	Value [kN]
Design resistance in concrete C20/25*	30	1.68
Design resistance in solid brick**	40	0.95
Design resistance in solid silica brick***	40	0.97

*Normal weight concrete C20/25

**Solid clay brick, class not lower than 10

***Solid sand-lime brick, class not lower than 20

WHO Hardened self-tapping flat head screw for PVC frames and connections in timber, TX



	Code	$d_w \times L_w$ [mm]	D_w [mm]	Pre-drilled hole d_0 [mm]	TX 	Pcs 
ø7.5	WHO-75042	7.5 x 42	11	6	TX 30	200
	WHO-75062	7.5 x 62	11	6	TX 30	200
	WHO-75082	7.5 x 82	11	6	TX 30	100
	WHO-75102	7.5 x 102	11	6	TX 30	100
	WHO-75112	7.5 x 112	11	6	TX 30	100
	WHO-75132	7.5 x 132	11	6	TX 30	100
	WHO-75152	7.5 x 152	11	6	TX 30	100
	WHO-75182	7.5 x 182	11	6	TX 30	100
	WHO-75212	7.5 x 212	11	6	TX 30	100



WHOW Hardened self-tapping pan head screw for fixing timber frames and connections in timber, TX



AT-15-8977/2012



Description

Application	Screw for fixing woodwork
Type of installation	This screw does require prior drilling
Substrate	Concrete, masonry, timber
Material	Zinc-plated low carbon steel

Features and advantages



Screw length

We manufacture screws up to 212 mm long.



TX drive

TX drive guarantees optimum torque transfer.



Pan head

The shape of the head ensures its required sinking in the installed timber elements



Serrated thread

Thread design guarantees reliable and long-lasting connection – both in timber and masonry

Sample application



DESIGN RESISTANCE

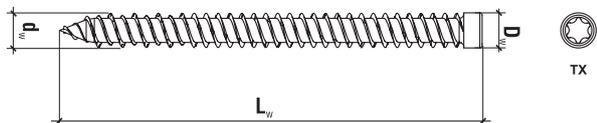
Substrate	Anchorage h_{eff} [mm]	Value [kN]
Design resistance in concrete C20/25*	30	1.68
Design resistance in solid brick**	40	0.95
Design resistance in solid silica brick***	40	0.97

*Normal weight concrete C20/25

**Solid clay brick, class not lower than 10

***Solid sand-lime brick, class not lower than 20

WHOW Hardened self-tapping pan head screw for fixing timber frames and connections in timber, TX



	Code	$d_w \times L_w$ [mm]	D_w [mm]	Pre-drilled hole d_0 [mm]	TX	Pcs
ø7.5	WHOW-75042	7.5 x 42	7.8	6	TX 30	200
	WHOW-75062	7.5 x 62	7.8	6	TX 30	200
	WHOW-75082	7.5 x 82	7.8	6	TX 30	100
	WHOW-75102	7.5 x 102	7.8	6	TX 30	100
	WHOW-75112	7.5 x 112	7.8	6	TX 30	100
	WHOW-75132	7.5 x 132	7.8	6	TX 30	100
	WHOW-75152	7.5 x 152	7.8	6	TX 30	100
	WHOW-75182	7.5 x 182	7.8	6	TX 30	100
	WHOW-75212	7.5 x 212	7.8	6	TX 30	100



L0 Frame mounting fastener, PZ



AT-15-8976/2012



Description

Application	Fastener for fixing PVC and wooden window frames, door frames, and metal fittings
Type of installation	Required to bore a hole
Substrate	Concrete and masonry
Material	Material: steel, Zn-Al alloy

Features and advantages



Countersunk head with PZ drive

Countersunk head ensures its correct sinking in the installed element. Commonly used PZ drive also makes installation easier.



Expansion in the installed element

Plug expansion in the element being installed ensures a correct fixing in the substrate.



Expansion in the substrate

Special design of the expansion zone ensures correct fixing both in solid substrate (concrete, ceramic/clay brick, aerated concrete, sand-lime brick) and in ceramic/clay hollow brick.

Substrates



DESIGN RESISTANCE

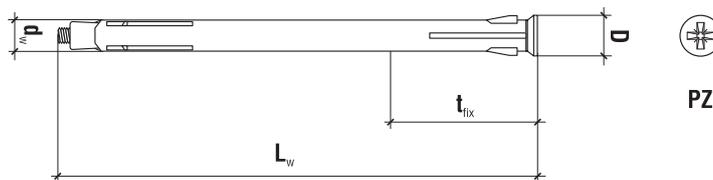
Substrate	Anchorage depth	Value
Design resistance in concrete C20/25	30 mm	1.70 kN
Design resistance in solid brick	40 mm	1.11 kN
Design resistance in solid silica brick	40 mm	1.14 kN
Design resistance in hollow brick	60 mm	0.29 kN
Design resistance in AAC	60 mm	0.29 kN

Normal weight concrete strength, class not lower than C20/25 according to PN-EN 206/1:2003 in the compression zone
Solid clay brick, class not lower than 15 according to PN-EN 771-1:2011
Sand-lime brick, class not lower than 20 according to PN-EN 771-2:2011
Aerated concrete type 600 class 5 according to PN-EN 771-4:2011
Hollow clay brick, class 15 according to PN-EN 771-1:2011

Sample application



L0 Frame mounting fastener, PZ



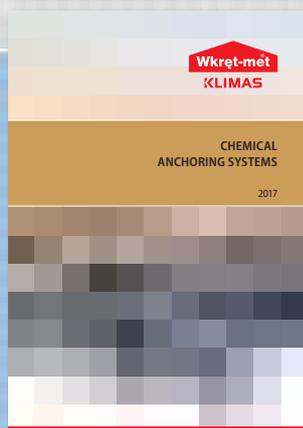
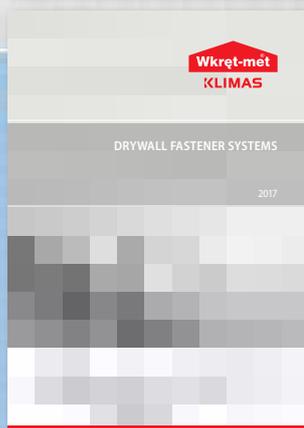
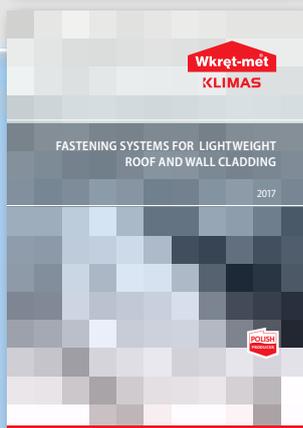
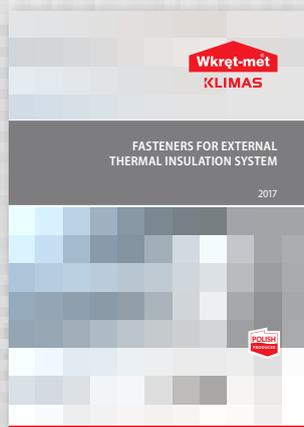
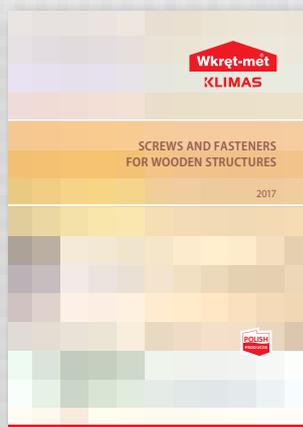
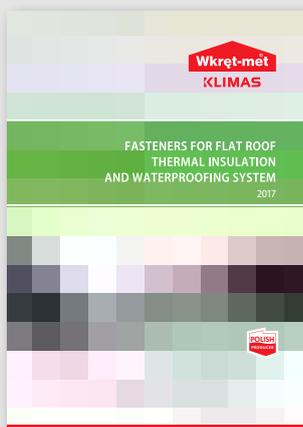
	Code	$d_w \times L_w$ [mm]	D [mm]	t_{fix} [mm]	PZ	Pcs
ø10	LO-10072	10 x 72	13	42	PZ 3	100
	LO-10092	10 x 92	13	62	PZ 3	100
	LO-10112	10 x 112	13	82	PZ 3	100
	LO-10132	10 x 132	13	102	PZ 3	100
	LO-10152	10 x 152	13	122	PZ 3	100
	LO-10182	10 x 182	13	152	PZ 3	50
	LO-10202	10 x 202	13	172	PZ 3	50

Z Cover cap for frame fastener - L0

Code	Colour	Diameter [mm]	Pcs
ZB	White	16	100
ZBR	Brown	16	100
ZCZ	Black	16	100
ZSZ	Gray	16	100







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