

CHARACTERISTICS

APPLICATIONS

- Zinc plated, zinc yellow passivated and stainless steel.
- Self drilling versions, inviolate, with hole for cup, different heads and slots: assembling flexibility.
- Use in all type of assemblies of wood carpentry.
- Applications: union of metallic wood connectors to wood, woods assembly, iron reinforcements to wood....

BASE MATERIAL





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1. SELECTION CHART **SURFACE SCREW HEAD** TIP **THREAD SLOT APPLICATION TREATMENT** Fixing metallic connectors on Zinc plated yellow Countersunk TPPO S Wood 40º Ρz wood 90º passivated Wood to wood fixings Fixing metallic connectors on Countersunk TPPOZ 🌬 Wood 40º Zinc plated S Ρz wood 90º Wood to wood fixings Fixing metallic connectors on Zinc plated yellow Countersunk TPTO S Wood 40º Τx wood 90⁰ passivated Wood to wood fixings Fixing metallic connectors on Countersunk Wood 40º Stainless steel A2 TPA2 S Ρz wood 90º Wood to wood fixings Countersunk Hard surface wood. **TPBR** Drill Wood 40º Ρz Zinc plated 90⁰ Hard wood Zinc plated yellow Fixing handles, power **TRPO** S Wood 40º Ρz Round passivated dopbit, shields, etc. Fixing wood >12 mm to a ABA Drill Metal 60º Ph Zinc plated Countersunk metallic profile Fixing wood >12 mm to a ATA Countersunk Drill Metal 60º Τx Zinc plated metallic profile **TCLA** Pan Nail Self tapping Ph + ranura Zinc plated Venetian-blind fastening TREZ/ Zinc plated / Black Straight Wood 40º Allen Chipboard fixings Pan **TREPV** oxidation Countersunk HHH FS Drill Metal 60º Zinc plated Fixing metal plates to wood 90º

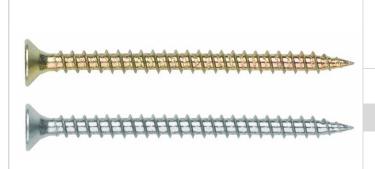
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2. INSTALLATION DATA

2.1 TP-PO

Chipboard screw countersunk 90° head, thread 40°







Steel

Zinc plated

Zinc plated yellow passivated

Properties







Pz

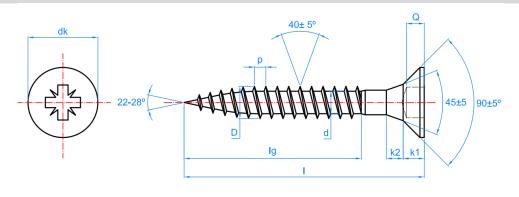
Countersunk head

S tip, pin

Instal	lation	Data

CODE		TPPO25 TPPOZ25	TPPO30 TPPOZ30	TPPO35 TPPOZ35	TPPO40 TPPOZ40	TPPO45 TPPOZ45	TPPO50 TPPOZ50	TPPO60 TPPOZ60
d _k : head diameter	[mm]	5.0	6.0	7.0	8.0	9.0	10.0	12.1
D: outer thread diameter	[mm]	2.5	3.0	3.5	4.0	4.5	5.0	6.0
d: inner thread diameter	[mm]	1.6	1.9	2.2	2.5	2.7	3.0	3.6
p: pitch	[mm]	1.10	1.35	1.60	1.80	2.00	2.20	2.60
I: screw length	[mm]	10 - 25	12 - 40	16 - 50	16 – 70	20 – 80	20 - 120	40 - 220
lg: thread max length	[mm]	Completa	Completa	Completa	60	60	60	60*
Pz recess		#1	#1	#2	#2	#2	#2	#3
Pz dopbit code			PUPOC01 PUPOL01	PUPOC01 PUPOL01	PUPOC02 PUPOL02	PUPOC02 PUPOL02	PUPOC02 PUPOL02	PUPOC02 PUPOL02

PLAN



^{*}TPPOZ up to 110

- Zinc plated yellow passivated.
- 90º countersunk head, 40º wood thread, Pz recess.
- S tip allows wood straight drill.
- Applications:
 - o Fixing metallic drilled connectors on wood.
 - o Fixing metallic drilled reinforcements on wood.
 - o Fixing hard wood on wood.

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^{** 75} mm thread length from TPPO60120



2.2 TP-TO Chipboard screw 90º countersunk head, thread 40º







Zinc plated yellow passivated

Properties





Characteristics



Hexalobular Tx

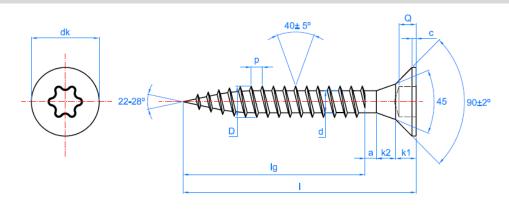
Countersunk head

S tip, pin

Installation Data

CODE		ТРТОЗО	ТРТО35	ТРТО40	TPTO45	ТРТО50	ТРТО60
d _k : head diameter	[mm]	6.0	7.0	8.0	9.0	10.0	12.0
D: outer thread diameter	[mm]	3.0	3.5	4.0	4.5	5.0	6.0
d: inner thread diameter	[mm]	1.9	2.2	2.5	2.7	3.0	3.6
p: pitch	[mm]	1.35	1.60	1.80	2.00	2.20	2.60
I: screw length	[mm]	15 - 30	15 - 50	15 – 70	30 – 70	30 - 120	60 - 300
lg: thread max length	[mm]	Completa	Completa	60	60	60*	60**
Hexalobular Tx recess		#10	#15	#20	#20	#25	#30
Hexalobular Tx recess dopbit	code	PUTO010	PUTO015	PUTO020	PUTO020	PUTO025	PUTO030

PLANO



- * 72 mm thread length for TPTO50120
- ** 72 mm thread length fromTPTO60110
- Zinc plated yellow passivated.
- 90º countersunk head, 40º wood thread, S tip allows wood straight drill.
- Hexalobular ISO 10664 (Tx) recess allows higher torque than Pz.
- Applications:
 - o Fixing metallic drilled connectors on wood.
 - Fixing metallic drilled reinforcements on wood.
 - Fixing wood on wood.

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2.3 TP-A2

Chipboard screw countersunk 90º head, thread 40º





Stainless available

Properties







Z

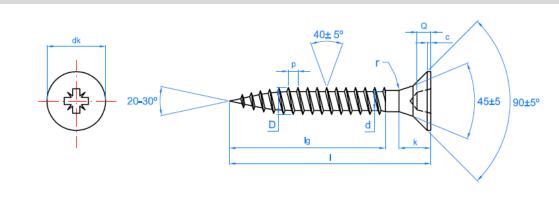
Countersunk head

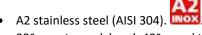
S tip, pin

Installation Data

CODE		TPA230	TPA235	TPA240	TPA245	TPA250
d _k : head diameter	[mm]	6.0	7.0	8.0	9.0	10.0
D: outer thread diameter	[mm]	3.0	3.5	4.0	4.5	5.0
d: inner thread diameter	[mm]	1.9	2.2	2.5	2.7	3.0
p: pitch	[mm]	1.35	1.60	1.80	2.00	2.20
I: screw length	[mm]	16 - 25	20 - 40	30 – 50	30 – 50	50 - 70
lg: thread max length	[mm]	Full	Full	Full	Full	50
Pz recess		#1	#2	#2	#2	#2
Pz dopbit code		PUTO010	PUPOC01 PUPOL01	PUPOC02 PUPOL02	PUPOC02 PUPOL02	PUPOC02 PUPOL02

PLAN





- 90º countersunk head, 40º wood thread, Pz recess..
- S tip allows wood straight drill.
- Applications:
 - o Fixing metallic drilled connectors on wood.
 - o Fixing metallic drilled reinforcements on wood.
 - Fixing hard wood on wood.

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Chipboard screw 90º countersunk head, self-drilling, 2.4 TP-BR wider thread pitch **Characteristics** Zinc plated Steel **Properties** Countersunk head Sef drilling **Installation Data** CODE **TPBR4325** TPBR4330 TPBR4335 TPBR4340 TPBR4345 TPBR4350 TPBR4360 **TPBR4370** I: screw length [mm] 25 30 35 40 45 50 60 70 lg: thread max length [mm] Completa 20 23.3 26.7 30.0 33.3 40.0 46.7 Pz recess #2 PUPOC02 / PUPOL02 Pz dopbit code **PLAN** lg 4.6(Ref 2,05÷2,51 7.60÷8.00 4,0÷4,5 90^{+5°} 2,32÷2,70

- Zinc plated; Thread diameter: 4.3 mm; Lengths: 25 70 mm.
- 90 º countersunk head. 40º wood thread, wide pitch, Pz #2 recess.
- Self drilling screw, able to drill hard woods (oak, etc.) with no damage, and covered woods (melamine, etc.).
- With ribs under the head for straight wood and coating countersink..
- Applications:
 - o Fixing hard surface woods (melamine, etc.).
 - o Avoids damage in hard woods when drilling (American oak, etc.).
 - o Fixing metallic drilled connectors on wood near the edges.
 - Fixing wood on wood near the edge.

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2.5 TR-PO Chipboard screw panhead, thread 40º Characteristics Steel Zinc plated yellow passivated **Properties** Panhead S tip, pin **Installation Data** CODIGO TRPO30 TRPO35 TRPO40 TRPO45 TRPO50 dk: head diameter [mm] 6.0 7.0 8.0 9.0 10.0 3.5 D: outer thread diameter 3.0 4.0 4.5 5.0 [mm] d: inner thread diameter [mm] 1.9 2.2 2.5 2.7 3.0 p: pitch [mm] 1.35 1.60 1.80 2.00 2.20 k: head thickness [mm] 2.2 2.6 2.8 3.0 3.2 7.9 R: head radius [mm] 5.0 6.5 9.2 9.5 I: screw length [mm] 16 - 20 16 - 35 16 - 5016 – 45 20 - 50 Full Full Full Full lg: thread maximum length [mm] Full Pz recess #2 #2 #1 #2 #2 PUPOC02 PUPOC02 PUPOC02 PUPOC02 PUPOC01 Pz dopbit code PUPOL01 PUPOL02 PUPOL02 PUPOL02 PUPOL02 PLAN dk Q 40±5°

- Zinc plated yellow passivated.
- Panhead, 40º wood thread, S tip allows direct drill on wood.
- Empleo:
 - o Fixing handles, power dopbit, shields, etc

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D



2.6 ABA

Self drilling screw with wings, Ph countersunk head







Steel

Zinc plated

IPN Wood

Properties







Dh

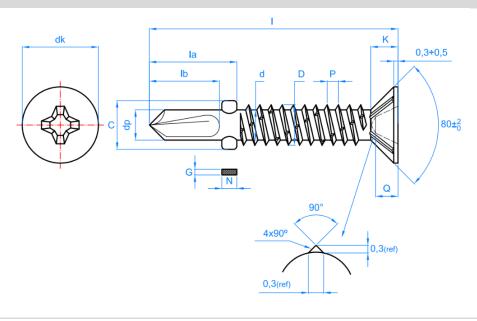
Countersunk head

Self drilling tip with wings

Installation Data	Insta	llation	Data
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CODIGO		ST 4.8	ST 5.5	ST 6.3
d _k : head diameter	[mm]	9.50	10.80	12.40
k: head thickness	[mm]	3.15	4.27	4.81
Tx head		nº 2	nº 2	nº 3
Countersunk angle	0	80	80	80
Drill length	[mm]	10	12	13
D: outer thread diameter	[mm]	4.80	5.46	6.25
d: inner thread diameter	[mm]	3.58	4.17	4.88
p: pitch	[mm]	1.6	1.8	1.8
L: screw length	[mm]	32 - 50	38 - 65	60 - 85
Tx dopbit code		PUPHC02 / PUPHL02	PUPHC02 / PUPHL02	PUPHC03 / PUPHL03
Drill capacity	[mm]	1.75 - 4.00	1.75 - 5.00	2.50 - 6.00
Fixture thickness	[mm]	L – 18	L – 21	L – 22

PLAN



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2.7 ATA

Self drilling screw with wings, Tx countersunk head







Steel

Zinc plated

IPN wood

Properties







Τx

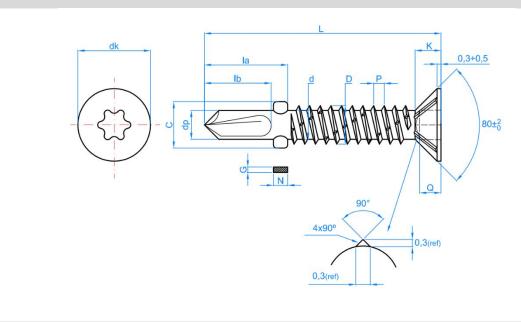
Countersunk head

Self drilling tip with wings

Installation Data

CODIGO		ST 4.8	ST 5.5	ST 6.3		
d _k : head diameter	[mm]	9.50	10.80	12.40		
k: head thickness	[mm]	3.15	4.27	4.81		
Tx head		nº 2				
Countersunk angle	0	80	80	80		
Drill length	[mm]	10	12	13		
D: outer thread diameter	[mm]	4.80	5.46	6.25		
d: inner thread diameter	[mm]	3.58	4.17	4.88		
p: pitch	[mm]	1.6	1.8	1.8		
L: screw length	[mm]	32 - 50	38 - 65	60 - 85		
Tx dopbit code		PUTO025	PUTO025	PUTO030		
Drill capacity	[mm]	1.75 - 4.00	1.75 - 5.00	2.50 - 6.00		
Fixture thickness	[mm]	L-18	L – 21	L – 22		

PLAN



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CHARACTERISTICS AND BENEFITS ABA/ATA

- Zinc plated.
- For fixing wood on metal (metal thickness > 1.75 mm).
- Both wings avoid the wood to be damaged by drilling a pilot hole.
 With ribs under the head that countersunk the wood straight away, also melamine and other materials.

For assembling wood on metal, a hole in the wood is required with some space to avoid threading the wood before the drill in the strip is finished. Otherwise the drill tip could be burned, the wood broken or the fixing wood-strip unglued.

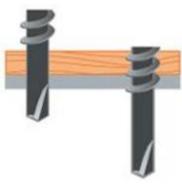
Take these precautions:

- Drill previously a hole bigger than thread's diameter.
- Use an extra-large self drilling screw (non commercial).
- Use a self drilling screw with two wings: the reamer created on the wood has a bigger diameter than thread so that this does not touch the wood. Wings and thread will break in contact with metal.

Standard drilling screw. The wood breaks.

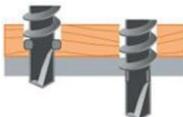


Extra large drilling bit crew. Not standard.



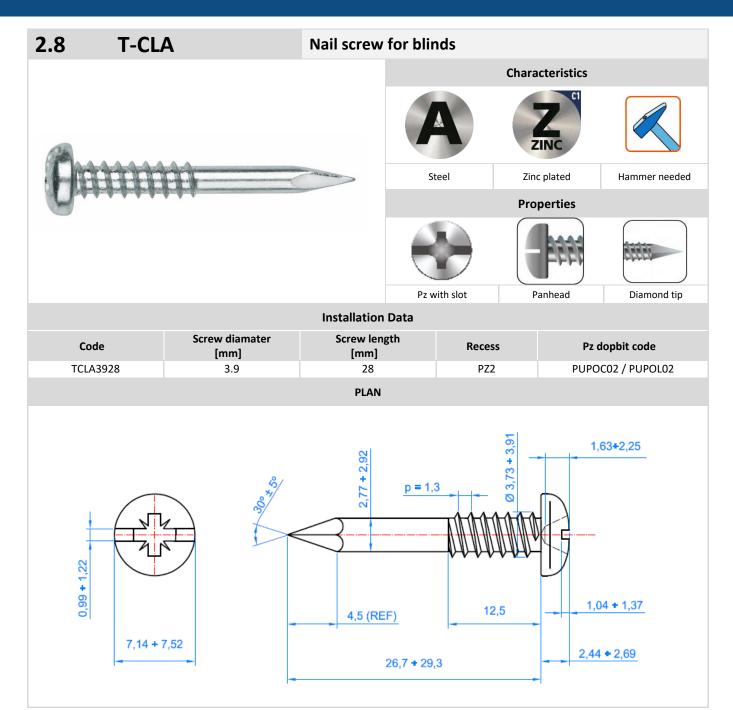
2 wings self drilling screw.

- a) Drills the wood.
- b) Wood ream + metal drill.
- c) Threads in the metal plate.



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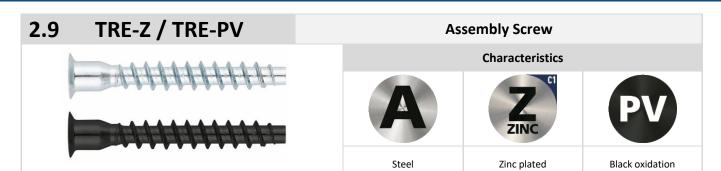




- Zinc plated.
- Pz #2 recess with slot.
- Pz dopbit PUPOC02, PUPOL02.
- Self tapping thread 60°.
- Nail tip.
- Application:
 - Venetian-blind fastening

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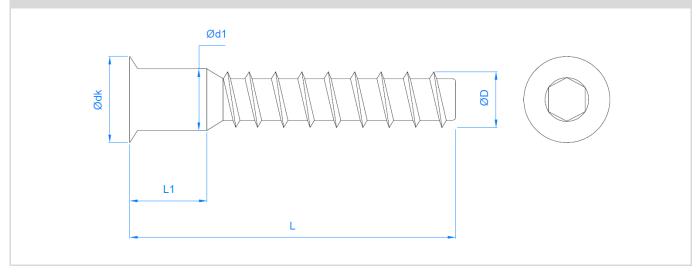




Instal	lation	Data
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CODE	SIZE	ØD	L	L1	Ødk	Ød1	Installation Tool	
TREZ05050	5 x 50	5.0			7,5	4,8	Allen 3	
TREPV05050	5 x 50	5.0	50,0	50,0	7.0	7,5	4,0	Alleli 3
TREZ07050	7 x 50	7.0			7,0	10.0	6.0	Allon 4
TREPV07050	7 x 50	7.0			10,0	6,8	Allen 4	

PLAN



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2.10 FS **Metal-wood roofing screw Properties** Available in Steel Zinc-plated coating different colours **Properties Base material** Hexagonal with Hexagonal with Reduced screw Metal plate - Wood embossed embossed washer point washer Installation data CODE ST 4.8 dk: washer head diameter [mm] 10 k: head thickness [mm] 4.9 c: washer thickness [mm] 1.1 s: spanner [mm] 8 D: exterior thread diameter 4.80 d: interior thread diameter [mm] 3.30 p: thread [mm] 2.1 19 – 35 I: lengths [mm] I_G: maximum thread length [mm] Completa BOCA008 Installation bit code (hexagonal magnetic bit) **Drill** capacity [mm] 1.50 máx DRAWING S 55 **-** 60°

- Zinc-plated finish with lacquered head and washer.
- For use in metal-wood fixings.

dk



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2.11 COLOURED CUPS FOR HEAD SCREWS

Available coloured cups to decorate head screws:

• TPTPAD: Adherent cups 14 mm. diameter for thin head screws:

TPTPADBL: White 0 TPTPADBE: Beige 0 TPTPADGR: Grey 0 TPTPADNE: Black 0 TPTPADPI: Pine TPTPADRO: Oak 0 TPTPADCA: 0

TPTPADCA: Mahogany
 TPTPADNO: Walnut
 TPTPADHA: Beech
 TPTPADSA: Sapele
 TPTPADCE: Cherry wood



• TPTP: Plastic cups for Pz recess #2, diameter 12.5 mm:

TPTPBLA: WhiteTPTPMAR: Brown



• ATAPO: Plastic cups for 8 and 10 mm. hexagonal heads:

Code		RAL	Colour
ATAPO08AR	ATAPO10AR	RAL 1.001	Sand
ATAPO08RC	ATAPO10RC	RAL 3.003	Coral red
ATAPO08RT	ATAPO10RT	RAL 3.011	Tile red
ATAPO08VN	ATAPO10VN	RAL 6.028	Navarre green
ATAPO08BP	ATAPO10BP	RAL 9.010	Pyrenees white
ATAPO08NE	ATAPO10NE	RAL 9.005	Black intense
ATAPO08BO	ATAPO10BO	RAL 9.002	Oyster white
ATAPO08BS	ATAPO10BS	RAL 9.003	Signal White
ATAPO08GM	ATAPO10GM	RAL 9.006	White Aluminum
ATAPO08RX	ATAPO10RX	RAL 3.009	Oxide Red
ATAPO08PC	ATAPO10PC	RAL 8.004	Copper Brown



Application:
 Ornamental finish, avoiding the head of the screw to be seen when fixed on wood.

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