

CHARACTERISTICS

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

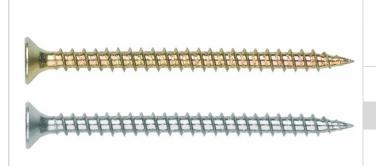
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2. INSTALLATION DATA

2.1 TP-PO

Chipboard screw countersunk 90° head, thread 40°







Steel

Zinc plated

Zinc plated yellow passivated

Properties







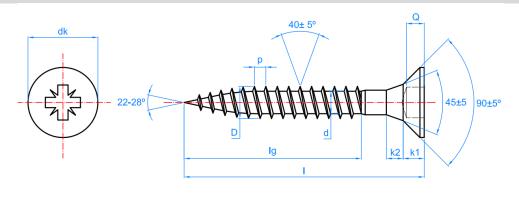
Pz

Countersunk head

S tip, pin

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

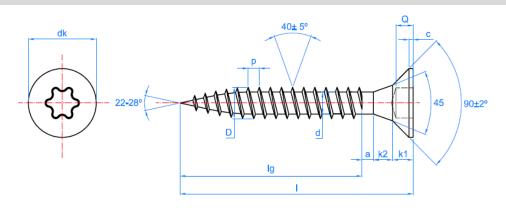
Countersunk head

S tip, pin

Installation Data

CODE		ТРТОЗО	TPTO35	TPTO40	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.
 - o Fixing metallic drilled reinforcements on wood.
 - Fixing wood on wood.

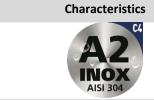
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2.3 TP-A2

Chipboard screw countersunk 90º head, thread 40º





Stainless available

Properties







Pz

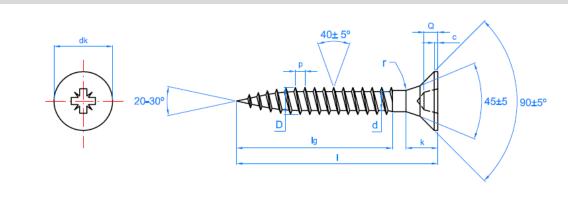
Countersunk head

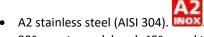
S tip, pin

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





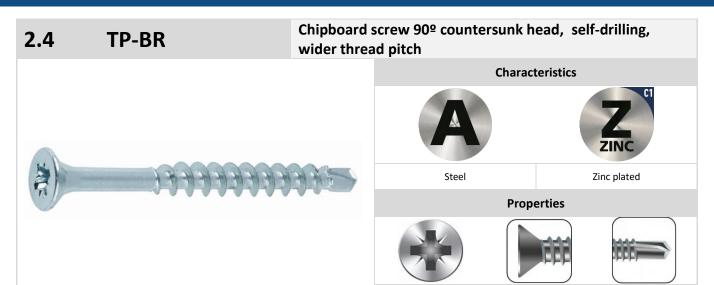
- 90º countersunk head, 40º wood thread, Pz recess..
- S tip allows wood straight drill.
- Applications:
 - o Fixing metallic drilled connectors on wood.
 - o Fixing metallic drilled reinforcements on wood.
 - Fixing hard wood on wood.

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Countersunk head

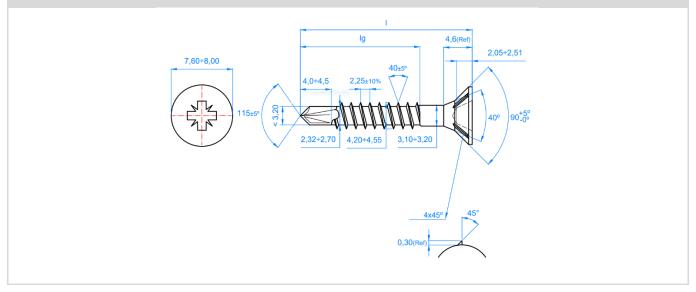
Sef drilling



Installation Data CODE **TPBR4325** TPBR4330 TPBR4335 TPBR4340 TPBR4345 TPBR4350 TPBR4360 **TPBR4370** 30 40 60 I: screw length [mm] 25 35 45 50 70 20 23.3 30.0 33.3 40.0 lg: thread max length [mm] Completa 26.7 46.7 Pz recess #2

Pz dopbit code PUPOC02 / PUPOL02

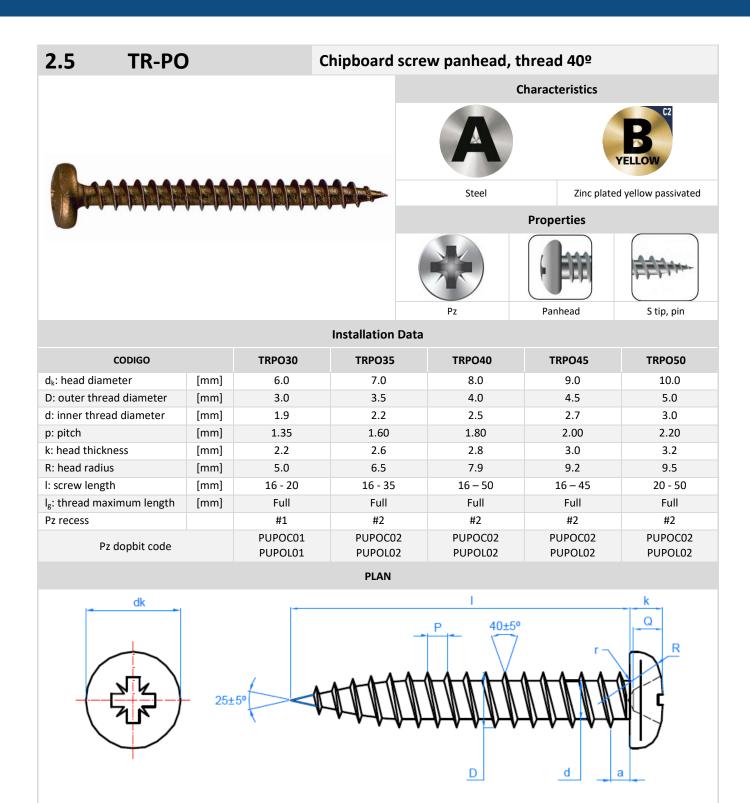
PLAN



- 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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- 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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2.6 ABA Self drilling screw with wings, Ph countersunk head





Steel Zinc plated

lated IPN Wood









Ph

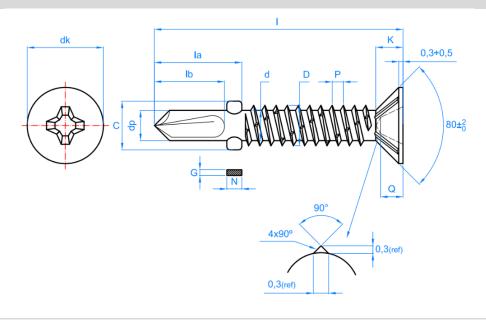
Countersunk head

Self drilling tip with wings

Installa	tion	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	nº 2	nº 3	
Countersunk angle	ō	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







Τv

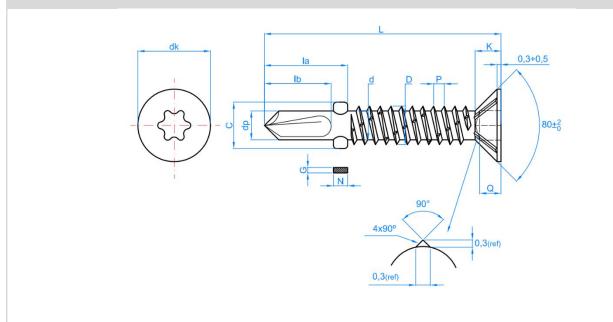
Countersunk head

Self drilling tip with wings

Installation Data

CODIGO		ST 4.8	ST 5.5	ST 6.3	
d _k : head diameter	[mm]	9.50	9.50 10.80		
k: head thickness	[mm]	3.15	4.27	4.81	
Tx head			nº 2		
Countersunk angle	ō	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.

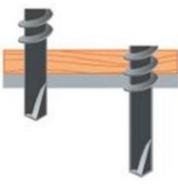
Take these precautions:

- 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.



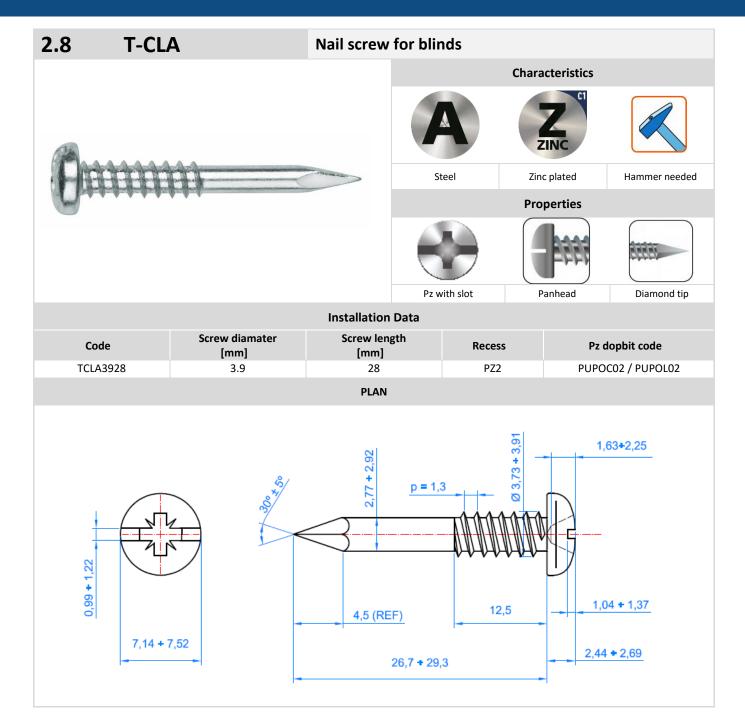
2 wings self drilling screw.

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



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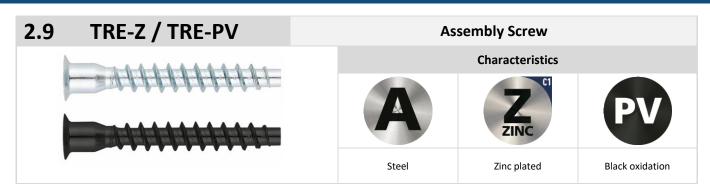




- Zinc plated.
- Pz #2 recess with slot.
- Pz dopbit PUPOC02, PUPOL02.
- Self tapping thread 60°.
- Nail tip.
- Application:
 - Venetian-blind fastening

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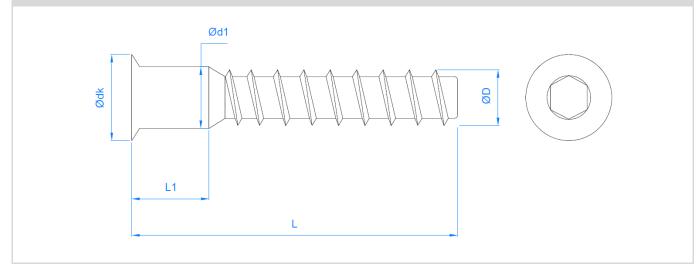




1	lation	D-4-

CODE	SIZE	ØD	L	L1	Ødk	Ød1	Installation Tool	
TREZ05050	5 x 50	5.0	50,0	E0.0		7,5	4,8	Allen 3
TREPV05050	5 x 50	5.0			7.0	7,5	4,0	Alleli 3
TREZ07050	7 x 50	7.0		7,0	10.0	6.9	Allen 4	
TREPV07050	7 x 50	7.0			10,0	6,8	Allen 4	

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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 3.30 d: interior thread diameter [mm] 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

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



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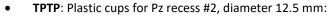
2.11 COLOURED CUPS FOR HEAD SCREWS

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 Pine TPTPADPI: TPTPADRO: Oak 0 TPTPADCA: 0

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



TPTPBLA: WhiteTPTPMAR: Brown







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