

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. SELECTION CHART **SURFACE CERTIFICATE SCREW HEAD** TIP **THREAD SLOT APPLICATION TREATMENT** Fixing metallic connectors on Zinc plated yellow Countersunk TPPO S Wood 40º Pz wood 90º passivated Wood to wood fixings C E₁₆ Fixing metallic connectors on Countersunk TPPOZ 🕨 S Pz Zinc plated Wood 40º wood 90⁰ Wood to wood fixings Fixing metallic connectors on Zinc plated yellow Countersunk TPTO S Wood 40º Tx wood passivated 90⁰ Wood to wood fixings Fixing metallic connectors on Countersunk Wood 40º S Stainless steel A2 TPA2 Ρz wood 90⁰ Wood to wood fixings Countersunk Hard surface wood. **TPBR** Drill Wood 40º Ρz Zinc plated 90º Hard wood Zinc plated yellow Fixing handles, power **TRPO** Round S Wood 40º Ρz passivated dopbit, shields, etc. Fixing wood >12 mm to a Drill ABA Countersunk Metal 60º Ph Zinc plated metallic profile Fixing wood >12 mm to a ATA Countersunk Drill Metal 60º Tx Zinc plated metallic profile Ph+ **TCLA** Nail Self tapping Zinc plated Venetian-blind fastening Pan ranura TREZ/ Zinc plated / Black Allen Chipboard fixings Pan Straight Wood 40º **TREPV** oxidation Countersunk FS Drill Metal 60º Zinc plated Fixing metal plates to wood 90⁰

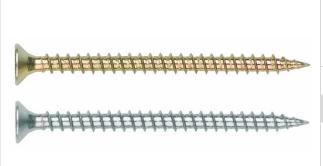
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2. INSTALLATION DATA

2.1 TP-PO

Chipboard screw countersunk 90° head, thread 40°







Steel

Zinc plated

Zinc plated yellow passivated

Properties









Pz

CE Marked

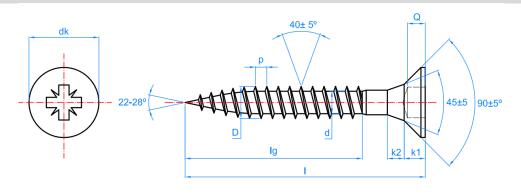
Countersunk head

S tip, pin

Inctal	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.
 - Fixing hard wood on wood.

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^{** 75} mm thread length from TPPO60120



Characteristics Characteristics Steel Properties

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Hexalobular Tx

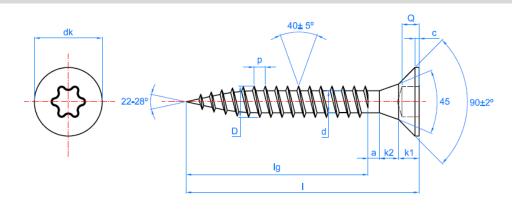
CE Marked

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
l _g : thread max length	[mm]	Completa	Completa	60	60	60*	60**
Hexalobular Tx recess		#10	#15	#20	#20	#25	#30
Hexalobular Tx recess dopbit of	ode	PUTO010	PUTO015	PUTO020	PUTO020	PUTO025	PUTO030

PLANO



- * 72 mm thread length for TPTO50120
- ** 72 mm thread length fromTPTO60110
- Zinc plated yellow passivated.
- 90° countersunk head, 40° 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

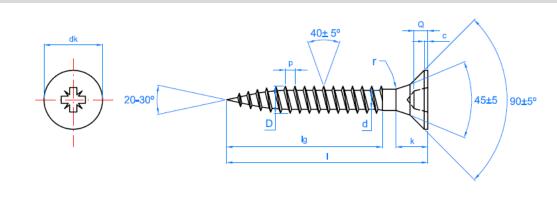
Countersunk head

S tip, pin

Inctal	lation	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





Properties





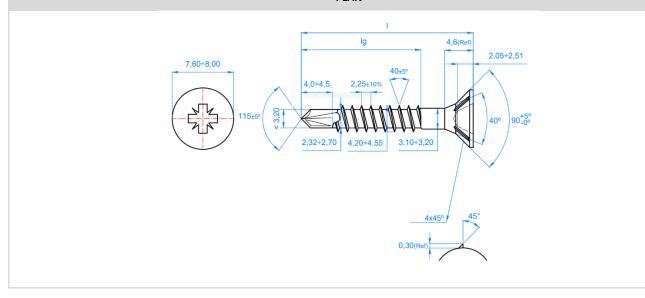


Sef drilling

Inchal	1-+:	Data
Instal	iaiion	HAIA

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						
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:
 - Fixing hard surface woods (melamine, etc.).
 - o Avoids damage in hard woods when drilling (American oak, etc.).
 - 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 TRPO35 TRPO40 TRPO30 TRPO45 TRPO50 dk: 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 1.9 2.2 2.5 2.7 3.0 [mm] p: pitch [mm] 1.35 1.60 1.80 2.00 2.20 3.0 k: head thickness [mm] 2.2 2.6 2.8 3.2 7.9 9.5 R: head radius [mm] 5.0 6.5 9.2 I: screw length 16 - 20 16 - 35 16 – 50 16 – 45 20 - 50 [mm] Full Full Full Full lg: thread maximum length [mm] Full Pz recess #2 #2 #1 #2 #2 PUPOC01 PUPOC02 PUPOC02 PUPOC02 PUPOC02 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

d



2.6 ABA

Fixture thickness

Self drilling screw with wings, Ph countersunk head



[mm]





Characteristics



Steel

Zinc plated

IPN Wood

Properties







Ph

L – 21

Countersunk head

Self drilling tip with wings

ST 6.3 12.40 4.81

L – 22

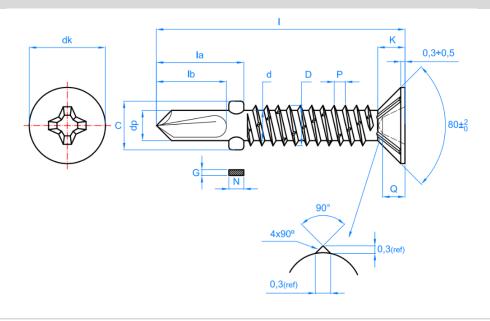
CODIGO		ST 4.8	ST 5.5
d _k : head diameter	[mm]	9.50	10.80
k: head thickness	[mm]	3.15	4.27
Tx head		nº 2	nº 2
Countersunk angle	0	80	80

nº 3 80 Drill length [mm] 10 12 13 D: outer thread diameter 4.80 5.46 6.25 [mm] d: inner thread diameter 3.58 4.17 4.88 [mm] p: pitch [mm] 1.6 1.8 1.8 32 - 50 38 - 65 60 - 85 L: screw length [mm] Tx dopbit code PUPHC02 / PUPHL02 PUPHC02 / PUPHL02 PUPHC03 / PUPHL03 1.75 - 5.00 2.50 - 6.00 **Drill** capacity [mm] 1.75 - 4.00

Installation Data

PLAN

L - 18



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2.7 ATA

Self drilling screw with wings, Tx countersunk head







Characteristics



Steel

Zinc plated

IPN wood









Tx

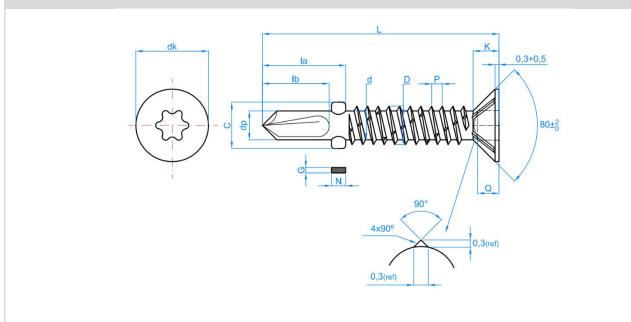
Countersunk head

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	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.

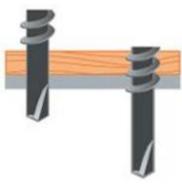
Take these precautions:

- 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.

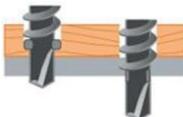


Extra large drilling bit crew. Not standard.



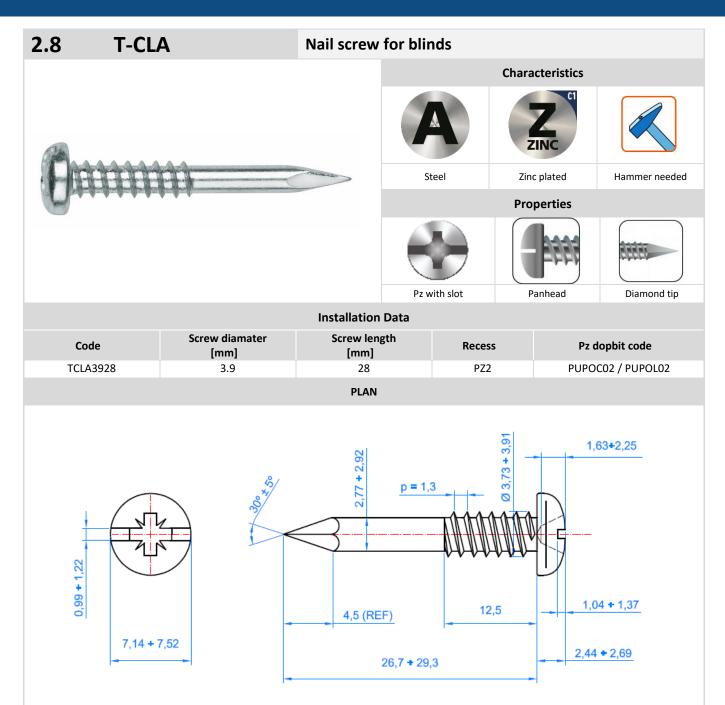
2 wings self drilling screw.

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



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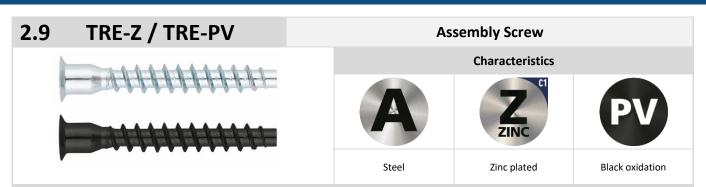




- Zinc plated.
- Pz #2 recess with slot.
- Pz dopbit PUPOC02, PUPOL02.
- Self tapping thread 60°.
- Nail tip.
- Application:
 - Venetian-blind fastening

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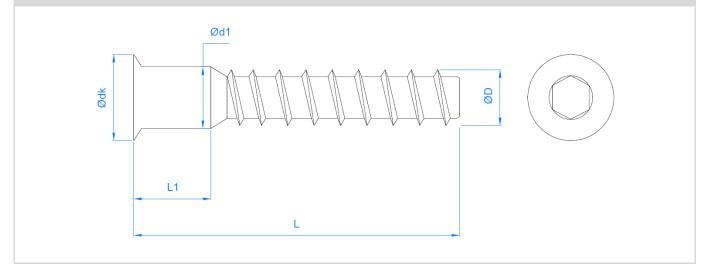




Installation Data

CODE	SIZE	ØD	L	L1	Ødk	Ød1	Installation Tool
TREZ05050	5 x 50	5.0	E0.0		7,5	4,8	Allen 3
TREPV05050	5 x 50	5.0		50,0	7,0	7,5	4,0
TREZ07050	7 x 50	7.0	30,0	7,0	10.0	6.0	Allen 4
TREPV07050	7 x 50	7.0			10,0	6,8	Allell 4

PLAN



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2.10 FS Metal-wood roofing screw







Properties



Steel

Zinc-plated coating

Properties

Available in different colours

Base material



Metal plate - Wood

Hexagonal with embossed washer



Hexagonal with embossed washer

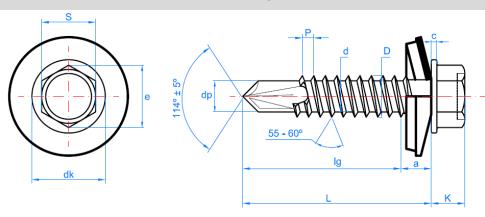


Reduced screw point

Installation data

CODE		ST 4.8							
d _k : 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							
I: lengths	[mm]	19 – 35							
I _G : maximum thread length	[mm]	Completa							
Installation bit code (hexagonal magnetic bit)		BOCA008							
Drill capacity	[mm]	1.50 máx							

DRAWING



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



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

TPTPBLA: WhiteTPTPMAR: Brown





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