



Características técnicas / Technical information / Informação técnica

Parámetros punta-broca / Self drilling installation parameters / Parâmetro ponta-broca

			Ø 3.5	Ø 3.9	Ø 4.2	Ø 4.8	Ø 5.5	Ø 6.3
Fuerza máxima instalación Maximum installation force / Força máxima de instalação		N	150	200	250	250	350	350
Velocidad taladrado Drilling speed Velocidade do berbequim	Acero Steel / Aço	rpm	1.800 - 2500				1000 - 1800	
	Acero inox Stainless steel / Aço inoxidável	rpm	1.000 - 1500				600 - 1000	
Tiempo máximo Maximum drilling time / Tempo máximo		sg	4	4.5	5	7	11	13
Par máximo Maximum torque / Par máximo		Nm	2.8	3.8	4.7	6.9	10.4	16.9

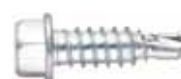
DIN-7504-K



AUTO



DIN-7504-K RE



DIN-7504-N



DIN-7504-P



TAE



ABA



FIBR



SAND



BCP

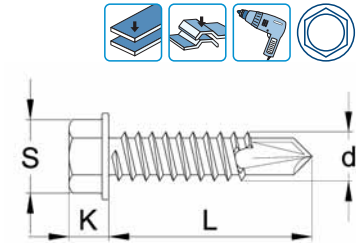


Tornillo autotaladrante, cabeza hexagonal con arandela estampada. Zincado.
Self drilling screw, hexagon washer head. Zinc plated.
Broca de berbequim, cabeça hexagonal com anilha estampada. Zincado.

DIN-7504-K

Parámetro punta-broca en pág. 242 / Self drilling installation parameters in page 242 / Parâmetro ponta-broca em pág. 242

CÓDIGO CODE	CAPACIDAD DE TALADRO DRILL CAPACITY CAPACIDADE DO BERBEQUIM mm.	ESPESOR A FIJAR THICKNESS TO FASTEN ESPESSURA A FIXAR mm.	MEDIDAS mm. SIZES			
			d	L	S	K
ABE3509	2,25 Max.	2,85	3,50	9,50	5,50	3,45
ABE3513	2,25 Max.	6,2	3,50	13	5,50	3,45
ABE3516	2,25 Max.	9,2	3,50	16	5,50	3,45
ABE3519	2,25 Max.	12,1	3,50	19	5,50	3,45
ABE3525	2,25 Max.	18,1	3,50	25	5,50	3,45
ABE3532	2,25 Max.	25,1	3,50	32	5,50	3,45
ABE4213	3,00 Max.	4,3	4,20	13	7,00	4,25
ABE4216	3,00 Max.	7,3	4,20	16	7,00	4,25
ABE4219	3,00 Max.	10,3	4,20	19	7,00	4,25
ABE4225	3,00 Max.	16,3	4,20	25	7,00	4,25
ABE4232	3,00 Max.	23,0	4,20	32	7,00	4,25
ABE4238	3,00 Max.	29,0	4,20	38	7,00	4,25
ABE4813	4,40 Max.	3,7	4,80	13	8,00	4,45
ABE4816	4,40 Max.	5,5	4,80	16	8,00	4,45
ABE4819	4,40 Max.	8,7	4,80	19	8,00	4,45
ABE4825	4,40 Max.	14,7	4,80	25	8,00	4,45
ABE4832	4,40 Max.	21,5	4,80	32	8,00	4,45
ABE4838	4,40 Max.	27,5	4,80	38	8,00	4,45
ABE5519	5,25 Max.	8,7	5,50	19	8,00	5,45
ABE5522	5,25 Max.	11,7	5,50	22	8,00	5,45
ABE5525	5,25 Max.	14,7	5,50	25	8,00	5,45
ABE5532	5,25 Max.	21,5	5,50	32	8,00	5,45
ABE5538	5,25 Max.	27,5	5,50	38	8,00	5,45
ABE5550	5,25 Max.	39,5	5,50	50	8,00	5,45
ABE5563	5,25 Max.	52,5	5,50	63	8,00	5,45
ABE5575	5,25 Max.	64,5	5,50	75	8,00	5,45
ABE6319	6,00 Max.	7,0	6,30	19	10,00	6,45
ABE6325	6,00 Max.	13,0	6,30	25	10,00	6,45
ABE6332	6,00 Max.	20,0	6,30	32	10,00	6,45
ABE6338	6,00 Max.	26,0	6,30	38	10,00	6,45
ABE6350	6,00 Max.	38,0	6,30	50	10,00	6,45
ABE6363	6,00 Max.	51,0	6,30	63	10,00	6,45
ABE6375	6,00 Max.	63,0	6,30	75	10,00	6,45
ABE6380	6,00 Max.	68,0	6,30	80	10,00	6,45
ABE6390	6,00 Max.	78,0	6,30	90	10,00	6,45
ABE6310	6,00 Max.	88,0	6,30	100	10,00	6,45
ABE6311	6,00 Max.	98,0	6,30	110	10,00	6,45
ABE6312	6,00 Max.	108,0	6,30	120	10,00	6,45
ABE6313	6,00 Max.	118,0	6,30	130	10,00	6,45
ABE6314	6,00 Max.	128,0	6,30	140	10,00	6,45



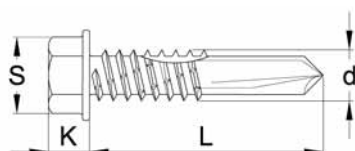


Características técnicas / Technical information / Informação técnica

AUTO

Tornillo viga, autotaladrante punta broca nº 5. Cabeza hexagonal. Zincado.
 Self drilling screw point nº 5. Hexagon washer head. Zinc plated.
 Broca viga de berbequim, ponta da broca nº5. Cabeça hexagonal. Zincada.

Parámetro punta-broca en pág. 242 / Self drilling installation parameters in page 242 / Parâmetro ponta-broca em pág. 242

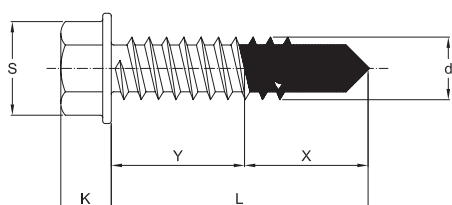


CÓDIGO CODE	CAPACIDAD DE TALADRO DRILL CAPACITY CAPACIDADE DO BERBEQUIM mm.	ESPESOR A FIJAR THICKNESS TO FASTEN ESPESSURA A FIXAR mm.	MEDIDAS mm. SIZES			
			d	L	S	K
AUTO532	4,0 - 12	Max. 12	5,50	32	8,00	5,40
AUTO538	4,0 - 12	Max. 18	5,50	38	8,00	5,40

BIE

Tornillo autotaladrante inoxidable bimetal, cabeza hexagonal con arandela estampada.
 Bimetal, self drilling screw. Hexagon head and washer.
 Broca de berbequim inoxidável bi-metal, cabeça hexagonal com anilha estampada.

NEW



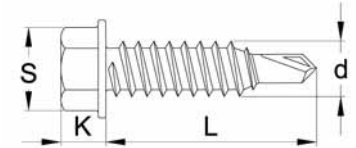
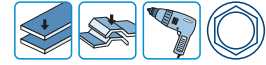
CÓDIGO CODE	CAPACIDAD DE TALADRO DRILL CAPACITY CAPACIDADE DO BERBEQUIM mm.	ESPESOR A FIJAR THICKNESS TO FASTEN ESPESSURA A FIXAR mm.	MEDIDAS mm. SIZES				
			d	L	S	K	X
BIE4825	4,40 max	9	4,80	25	8,0	4,45	14,0
BIE5525	5,25 max	5	5,50	25	8,0	5,45	18,0
BIE5532	5,25 max	12	5,50	32	8,0	5,45	18,0
BIE5538	5,25 max	18	5,50	38	8,0	5,45	18,0
BIE5550	5,25 max	30	5,50	50	8,0	5,45	18,0
BIE5558	5,25 max	38	5,50	58	8,0	5,45	18,0
BIE5565	5,25 max	45	5,50	65	8,0	5,45	18,0
BIE5580	5,25 max	60	5,50	80	8,0	5,45	18,0
BIE6325	6,0 max	7	6,30	25	10,0	6,45	16,0

Tornillo autotaladrante. Cabeza hexagonal 8 mm. Zincado.
Self drilling screw, hexagon washer head 8 mm. Zinc plated.
Broca de berbequim. Cabeça hexagonal 8 mm. Zincada.

DIN-7504-K RE

Parámetro punta-broca en pág. 242 / Self drilling installation parameters in page 242 / Parâmetro ponta-broca em pág. 242

CÓDIGO CODE	CAPACIDAD DE TALADRO DRILL CAPACITY CAPACIDADE DO BERBEQUIM mm.	ESPELOR A FIJAR THICKNESS TO FASTEN ESPESSURA A FIXAR mm.	MEDIDAS mm. SIZES			
			d	L	S	K
ARE4816	0,2 a 1,00	8	4,80	16	8,00	4,30
ARE4819	0,2 a 1,00	11	4,80	19	8,00	4,30
ARE5522	0,2 a 1,00	12	5,50	22	8,00	5,30
ARE6320	1 a 1,50	9	6,30	20	8,00	5,30
ARE6325	1 a 1,50	14	6,30	25	8,00	5,30
ARE6332	1 a 1,50	21	6,30	32	8,00	5,30
ARE6338	1 a 1,50	27	6,30	38	8,00	5,30
ARE6350	1 a 1,50	37	6,30	50	8,00	5,30
ARE6363	1 a 1,50	40	6,30	63	8,00	5,30
ARE6380	1 a 1,50	57	6,30	80	8,00	5,30



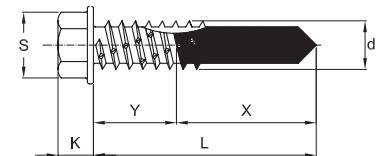
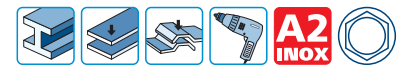
Punta broca reducida nº 1
Reduced drill point nº 1
Ponta da broca reduzite nº 1

NEW

Tornillo viga autotaladrante inoxidable bimetálico, punta broca nº 5, cabeza hexagonal.
Bimetal, self-drilling screw. nº 5 drill point and hexagon head.
Broca viga de berbequim, inoxidável, bi-metal, ponta da broca nº 5, cabeça hexagonal.

BAUTO

CÓDIGO CODE	CAPACIDAD DE TALADRO DRILL CAPACITY CAPACIDADE DO BERBEQUIM mm.	ESPELOR A FIJAR THICKNESS TO FASTEN ESPESSURA A FIXAR mm.	MEDIDAS mm. SIZES				
			d	L	S	K	X
BAUTO5540	12 max	10	5,50	40	8,0	5,40	27,0
BAUTO5550	12 max	20	5,50	50	8,0	5,40	27,0
BAUTO5565	12 max	35	5,50	65	8,0	5,40	27,0
BAUTO5580	12 max	50	5,50	80	8,0	5,40	27,0
BAUTO5510	12 max	70	5,50	100	8,0	5,40	27,0



BI-METAL
INOX TECHNOLOGY by **INDEX**
FIXING SYSTEMS

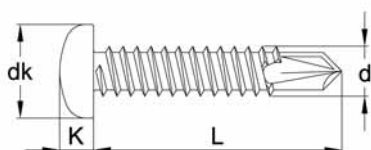


Características técnicas / Technical information / Informação técnica

DIN-7504-N

Tornillo autotaladrante, cabeza alomada, huella Phillips / cuadrada. Zincado
Self drilling screw, Phillips / squared socket recessed, pan head. Zinc plated
Broca de berbequim, cabeça arredondada, marca Phillips / quadrada. Zincado

Parámetro punta-broca en pág. 242 / Self drilling installation parameters in page 242 / Parâmetro ponta-broca em pág. 242



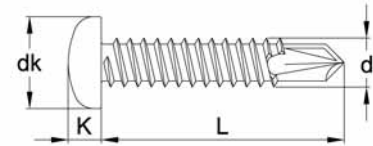
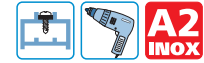
CÓDIGO CODE	CÓDIGO CODE	CAPACIDAD DE TALADRO DRILL CAPACITY CAPACIDADE DO BERBEQUIM	ESPESOR A FIJAR THICKNESS TO FASTEN ESPESSURA A FIXAR	PUNTA BIT PONTA	PUNTA BIT PONTA	MEDIDAS mm. SIZES			
						d	L	dk	K
ABR3509	ABRC3509	0,70 - 2,25	2,85	PH-2	SQ-1	3,50	9,50	6,90	2,60
ABR3511	ABRC3511	0,70 - 2,25	4,2	PH-2	SQ-1	3,50	11	6,90	2,60
ABR3513	ABRC3513	0,70 - 2,25	6,2	PH-2	SQ-1	3,50	13	6,90	2,60
ABR3516	ABRC3516	0,70 - 2,25	9,2	PH-2	SQ-1	3,50	16	6,90	2,60
ABR3519	ABRC3519	0,70 - 2,25	12,1	PH-2	SQ-1	3,50	19	6,90	2,60
ABR3522	ABRC3522	0,70 - 2,25	15,1	PH-2	SQ-1	3,50	22	6,90	2,60
ABR3525	ABRC3525	0,70 - 2,25	18,1	PH-2	SQ-1	3,50	25	6,90	2,60
ABR3532	ABRC3532	0,70 - 2,25	25,1	PH-2	SQ-1	3,50	32	6,90	2,60
ABR3913	ABRC3913	0,70 - 2,40	5,8	PH-2	SQ-1	3,90	13	7,50	2,80
ABR3916	ABRC3916	0,70 - 2,40	8,8	PH-2	SQ-1	3,90	16	7,50	2,80
ABR3919	ABRC3919	0,70 - 2,40	11,7	PH-2	SQ-1	3,90	19	7,50	2,80
ABR3922	ABRC3922	0,70 - 2,40	14,7	PH-2	SQ-1	3,90	22	7,50	2,80
ABR3925	ABRC3925	0,70 - 2,40	17,7	PH-2	SQ-1	3,90	25	7,50	2,80
ABR3932	ABRC3932	0,70 - 2,40	24,5	PH-2	SQ-1	3,90	32	7,50	2,80
ABR3938	ABRC3938	0,70 - 2,40	30,5	PH-2	SQ-1	3,90	38	7,50	2,80
ABR4213	ABRC4213	1,75 - 3,00	4,3	PH-2	SQ-2	4,20	13	8,20	3,05
ABR4216	ABRC4216	1,75 - 3,00	7,3	PH-2	SQ-2	4,20	16	8,20	3,05
ABR4219	ABRC4219	1,75 - 3,00	10,3	PH-2	SQ-2	4,20	19	8,20	3,05
ABR4222	ABRC4222	1,75 - 3,00	13,3	PH-2	SQ-2	4,20	22	8,20	3,05
ABR4225	ABRC4225	1,75 - 3,00	16,3	PH-2	SQ-2	4,20	25	8,20	3,05
ABR4232	ABRC4232	1,75 - 3,00	23,0	PH-2	SQ-2	4,20	32	8,20	3,05
ABR4238	ABRC4238	1,75 - 3,00	29,0	PH-2	SQ-2	4,20	38	8,20	3,05
ABR4250	ABRC4251	1,75 - 3,00	41,0	PH-2	SQ-2	4,20	50	8,20	3,05
ABR4813	ABRC4813	1,75 - 4,40	3,7	PH-2	SQ-2	4,80	13	9,50	3,55
ABR4816	ABRC4816	1,75 - 4,40	5,5	PH-2	SQ-2	4,80	16	9,50	3,55
ABR4819	ABRC4819	1,75 - 4,40	8,7	PH-2	SQ-2	4,80	19	9,50	3,55
ABR4822	ABRC4822	1,75 - 4,40	11,7	PH-2	SQ-2	4,80	22	9,50	3,55
ABR4825	ABRC4825	1,75 - 4,40	14,7	PH-2	SQ-2	4,80	25	9,50	3,55
ABR4832	ABRC4832	1,75 - 4,40	21,5	PH-2	SQ-2	4,80	32	9,50	3,55
ABR4838	ABRC4838	1,75 - 4,40	27,5	PH-2	SQ-2	4,80	38	9,50	3,55
ABR4845	ABRC4845	1,75 - 4,40	34,5	PH-2	SQ-2	4,80	45	9,50	3,55
ABR4850	ABRC4850	1,75 - 4,40	39,5	PH-2	SQ-2	4,80	50	9,50	3,55
ABR4860	ABRC4860	1,75 - 4,40	49,5	PH-2	SQ-2	4,80	60	9,50	3,55
ABR4880	ABRC4880	1,75 - 4,40	69,5	PH-2	SQ-2	4,80	80	9,50	3,55
ABR4890	ABRC4890	1,75 - 4,40	79,5	PH-2	SQ-2	4,80	90	9,50	3,55
ABR4810	ABRC4810	1,75 - 4,40	89,5	PH-2	SQ-2	4,80	100	9,50	3,55
ABR5519	ABRC5519	1,75 - 5,25	8,7	PH-3	SQ-3	5,50	19	10,80	3,95
ABR5522	ABRC5522	1,75 - 5,25	11,7	PH-3	SQ-3	5,50	22	10,80	3,95
ABR5525	ABRC5525	1,75 - 5,25	14,7	PH-3	SQ-3	5,50	25	10,80	3,95
ABR5532	ABRC5532	1,75 - 5,25	21,5	PH-3	SQ-3	5,50	32	10,80	3,95
ABR5538	ABRC5538	1,75 - 5,25	27,5	PH-3	SQ-3	5,50	38	10,80	3,95
ABR5545	ABRC5545	1,75 - 5,25	34,5	PH-3	SQ-3	5,50	45	10,80	3,95
ABR5560	ABRC5560	1,75 - 5,25	49,5	PH-3	SQ-3	5,50	60	10,80	3,95
ABR5573	ABRC5573	1,75 - 5,25	62,5	PH-3	SQ-3	5,50	73	10,80	3,95

Tornillo autotaladrante, cabeza alomada, huella Phillips / cuadrada. Inoxidable A-2.
Self drilling screw, Phillips / squared socket recessed, pan head. Stainless steel A-2.
Broca de berbequim, cabeça arredondada, marca Phillips / quadrada. Inoxidável A-2.

DIN-7504-N A2

Parámetro punta-broca en pág. 242 / Self drilling installation parameters in page 242 / Parâmetro ponta-broca em pág. 242

CÓDIGO CODE	CÓDIGO CODE	CAPACIDAD DE TALADRO DRILL CAPACITY CAPACIDADE DO BERBEQUIM	ESPESOR A FIJAR THICKNESS TO FASTEN ESPESSURA A FIXAR	PUNTA BIT PONTA	PUNTA BIT PONTA	MEDIDAS mm. SIZES			
						mm.	mm.	d	L
ABRA23509	ABRCA23509	0,70 - 2,25	2,85	PH-2	SQ-1	3,50	9,50	6,90	2,60
	ABRCA23511	0,70 - 2,25	4,2		SQ-1	3,50	11	6,90	2,60
ABRA23513	ABRCA23513	0,70 - 2,25	6,2	PH-2	SQ-1	3,50	13	6,90	2,60
ABRA23516	ABRCA23516	0,70 - 2,25	9,2	PH-2	SQ-1	3,50	16	6,90	2,60
ABRA23519	ABRCA23519	0,70 - 2,25	12,1	PH-2	SQ-1	3,50	19	6,90	2,60
	ABRCA23522	0,70 - 2,25	15,1		SQ-1	3,50	22	6,90	2,60
	ABRCA23525	0,70 - 2,25	18,1		SQ-1	3,50	25	6,90	2,60
	ABRCA23532	0,70 - 2,25	25,1		SQ-1	3,50	32	6,90	2,60
	ABRCA23913	0,70 - 2,40	5,8		SQ-1	3,90	13	7,50	2,80
ABRA23916	ABRCA23916	0,70 - 2,40	8,8	PH-2	SQ-1	3,90	16	7,50	2,80
ABRA23919	ABRCA23919	0,70 - 2,40	11,7	PH-2	SQ-1	3,90	19	7,50	2,80
	ABRCA23922	0,70 - 2,40	14,7		SQ-1	3,90	22	7,50	2,80
ABRA23925	ABRCA23925	0,70 - 2,40	17,7	PH-2	SQ-1	3,90	25	7,50	2,80
	ABRCA23932	0,70 - 2,40	24,5		SQ-1	3,90	32	7,50	2,80
	ABRCA23938	0,70 - 2,40	30,5		SQ-1	3,90	38	7,50	2,80
ABRA24213	ABRCA24213	1,75 - 3,00	4,3	PH-2	SQ-2	4,20	13	8,20	3,05
ABRA24216	ABRCA24216	1,75 - 3,00	7,3	PH-2	SQ-2	4,20	16	8,20	3,05
ABRA24219	ABRCA24219	1,75 - 3,00	10,3	PH-2	SQ-2	4,20	19	8,20	3,05
	ABRCA24222	1,75 - 3,00	13,3		SQ-2	4,20	22	8,20	3,05
ABRA24225	ABRCA24225	1,75 - 3,00	16,3	PH-2	SQ-2	4,20	25	8,20	3,05
	ABRCA24232	1,75 - 3,00	23,0		SQ-2	4,20	32	8,20	3,05
	ABRCA24238	1,75 - 3,00	29,0		SQ-2	4,20	38	8,20	3,05
	ABRCA24250	1,75 - 3,00	41,0		SQ-2	4,20	50	8,20	3,05
	ABRCA24813	1,75 - 4,40	3,7		SQ-2	4,80	13	9,50	3,55
ABRA24816	ABRCA24816	1,75 - 4,40	5,5	PH-2	SQ-2	4,80	16	9,50	3,55
ABRA24819	ABRCA24819	1,75 - 4,40	8,7	PH-2	SQ-2	4,80	19	9,50	3,55
	ABRCA24822	1,75 - 4,40	11,7		SQ-2	4,80	22	9,50	3,55
ABRA24825	ABRCA24825	1,75 - 4,40	14,7	PH-2	SQ-2	4,80	25	9,50	3,55
ABRA24832	ABRCA24832	1,75 - 4,40	21,5	PH-2	SQ-2	4,80	32	9,50	3,55
ABRA24838	ABRCA24838	1,75 - 4,40	27,5	PH-2	SQ-2	4,80	38	9,50	3,55
	ABRCA24845	1,75 - 4,40	34,5		SQ-2	4,80	45	9,50	3,55
ABRA24850	ABRCA24850	1,75 - 4,40	39,5	PH-2	SQ-2	4,80	50	9,50	3,55
	ABRCA24860	1,75 - 4,40	49,5		SQ-2	4,80	60	9,50	3,55
	ABRCA24873	1,75 - 4,40	62,5		SQ-2	4,80	73	9,50	3,55
	ABRCA24880	1,75 - 4,40	69,5		SQ-2	4,80	80	9,50	3,55
	ABRCA25519	1,75 - 5,25	8,7		SQ-3	5,50	19	10,80	3,95
	ABRCA25522	1,75 - 5,25	11,7		SQ-3	5,50	22	10,80	3,95
	ABRCA25525	1,75 - 5,25	14,7		SQ-3	5,50	25	10,80	3,95
	ABRCA25532	1,75 - 5,25	21,5		SQ-3	5,50	32	10,80	3,95
	ABRCA25538	1,75 - 5,25	27,5		SQ-3	5,50	38	10,80	3,95
	ABRCA25545	1,75 - 5,25	34,5		SQ-3	5,50	45	10,80	3,95
	ABRCA25560	1,75 - 5,25	49,5		SQ-3	5,50	60	10,80	3,95
	ABRCA25573	1,75 - 5,25	62,5		SQ-3	5,50	73	10,80	3,95



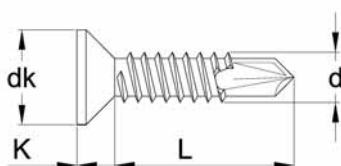


Características técnicas / Technical information / Informação técnica

DIN-7504-P (A2 INOX)

Tornillo autotaladrante, cabeza avellanada, huella Phillips/cuadrada. (Inoxidable A-2).
Self drilling screw, countersunk Phillips/squared socket recessed head. (Stainless steel A-2).
Broca de berbequim, cabeça escariada, marca Phillips / quadrada. (Inoxidável A-2.).

Parámetro punta-broca en pág. 242 / Self drilling installation parameters in page 242 / Parâmetro ponta-broca em pág. 242

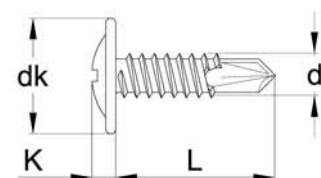


CÓDIGO CODE	CÓDIGO CODE	CAPACIDAD DE TALADRO DRILL CAPACITY CAPACIDADE DO BERBEQUIM	ESPESOR A FIJAR THICKNESS TO FASTEN ESPESSURA A FIXAR	PUNTA BIT PONTA	PUNTA BIT PONTA	MEDIDAS mm. SIZES			
						d	L	dk	K
ABP3509	ABPC(A2)3509	0,70 - 2,25	2,85	PH-2	SQ-1	3,50	9,50	6,80	2,10
ABP3511	ABPC(A2)3511	0,70 - 2,25	4,2	PH-2	SQ-1	3,50	11	6,80	2,10
ABP3513	ABPC(A2)3513	0,70 - 2,25	6,2	PH-2	SQ-1	3,50	13	6,80	2,10
ABP3516	ABPC(A2)3516	0,70 - 2,25	9,2	PH-2	SQ-1	3,50	16	6,80	2,10
ABP3519	ABPC(A2)3519	0,70 - 2,25	12,1	PH-2	SQ-1	3,50	19	6,80	2,10
ABP3522	ABPC(A2)3522	0,70 - 2,25	15,1	PH-2	SQ-1	3,50	22	6,80	2,10
ABP3525	ABPC(A2)3525	0,70 - 2,25	18,1	PH-2	SQ-1	3,50	25	6,80	2,10
ABP3913	ABPC(A2)3913	0,70 - 2,40	5,8	PH-2	SQ-1	3,90	13	7,50	2,30
ABP3916	ABPC(A2)3916	0,70 - 2,40	8,8	PH-2	SQ-1	3,90	16	7,50	2,30
ABP3919	ABPC(A2)3919	0,70 - 2,40	11,7	PH-2	SQ-1	3,90	19	7,50	2,30
ABP3922	ABPC(A2)3922	0,70 - 2,40	14,7	PH-2	SQ-1	3,90	22	7,50	2,30
ABP3925	ABPC(A2)3925	0,70 - 2,40	17,7	PH-2	SQ-1	3,90	25	7,50	2,30
ABP3932	ABPC(A2)3932	0,70 - 2,40	24,5	PH-2	SQ-1	3,90	32	7,50	2,30
ABP3938	ABPC(A2)3938	0,70 - 2,40	30,5	PH-2	SQ-1	3,90	38	7,50	2,30
ABP4213	ABPC(A2)4213	1,75 - 3,00	4,3	PH-2	SQ-2	4,20	13	8,10	2,50
ABP4216	ABPC(A2)4216	1,75 - 3,00	7,3	PH-2	SQ-2	4,20	16	8,10	2,50
ABP4219	ABPC(A2)4219	1,75 - 3,00	10,3	PH-2	SQ-2	4,20	19	8,10	2,50
ABP4222	ABPC(A2)4222	1,75 - 3,00	13,3	PH-2	SQ-2	4,20	22	8,10	2,50
ABP4225	ABPC(A2)4225	1,75 - 3,00	16,3	PH-2	SQ-2	4,20	25	8,10	2,50
ABP4232	ABPC(A2)4232	1,75 - 3,00	23,0	PH-2	SQ-2	4,20	32	8,10	2,50
ABP4238	ABPC(A2)4238	1,75 - 3,00	29,0	PH-2	SQ-2	4,20	38	8,10	2,50
ABP4813	ABPC(A2)4813	1,75 - 4,40	3,7	PH-2	SQ-2	4,80	13	9,50	3,00
ABP4816	ABPC(A2)4816	1,75 - 4,40	5,5	PH-2	SQ-2	4,80	16	9,50	3,00
ABP4819	ABPC(A2)4819	1,75 - 4,40	8,7	PH-2	SQ-2	4,80	19	9,50	3,00
ABP4825	ABPC(A2)4825	1,75 - 4,40	14,7	PH-2	SQ-2	4,80	25	9,50	3,00
ABP4832	ABPC(A2)4832	1,75 - 4,40	21,5	PH-2	SQ-2	4,80	32	9,50	3,00
ABP4838	ABPC(A2)4838	1,75 - 4,40	27,5	PH-2	SQ-2	4,80	38	9,50	3,00
ABP4850	ABPC(A2)4850	1,75 - 4,40	39,5	PH-2	SQ-2	4,80	50	9,50	3,00
ABP5519	ABPC(A2)5519	1,75 - 5,25	8,7	PH-3	SQ-3	5,50	19	10,80	3,40
ABP5525	ABPC(A2)5525	1,75 - 5,25	14,7	PH-3	SQ-3	5,50	25	10,80	3,40
ABP5532	ABPC(A2)5532	1,75 - 5,25	21,5	PH-3	SQ-3	5,50	32	10,80	3,40
ABP5538	ABPC(A2)5538	1,75 - 5,25	27,5	PH-3	SQ-3	5,50	38	10,80	3,40
ABP5550	ABPC(A2)5550	1,75 - 5,25	39,5	PH-3	SQ-3	5,50	50	10,80	3,40

TAE

Tornillo autotaladrante, cabeza alomada baja Phillips, con arandela estampada.
Self drilling screw, Phillips pan head washer.
Broca de berbequim, cabeça arredondada baixa, Philips, com anilha estampada.

Parámetro punta-broca en pág. 242 / Self drilling installation parameters in page 242 / Parâmetro ponta-broca em pág. 242



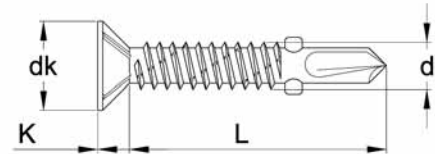
CÓDIGO CODE	CAPACIDAD DE TALADRO DRILL CAPACITY CAPACIDADE DO BERBEQUIM	ESPESOR A FIJAR THICKNESS TO FASTEN ESPESSURA A FIXAR	PUNTA BIT PONTA	MEDIDAS mm. SIZES			
				d	L	dk	K
TAEZ4213	0,75 - 2,50	Max. 5,0	PH-2	4,20	13	11	2,30
TAEZ4216	0,75 - 2,50	Max. 8,0	PH-2	4,20	16	11	2,30
TAEZ4219	0,75 - 2,50	Max. 10,0	PH-2	4,20	19	11	2,30
TAEZ4225	0,75 - 2,50	Max. 16,0	PH-2	4,20	25	11	2,30
TAEZ4232	0,75 - 2,50	Max. 23,0	PH-2	4,20	32	11	2,30

Tornillo autotaladrante broca 2 alas. Cabeza avellanada Phillips.
Self drilling screw flat head, with 2 wings. Countersunk Phillips head.
Broca de berbequim, de 2 abas, cabeça escariada, Phillips.

ABA

Parámetro punta-broca en pág. 242 / Self drilling installation parameters in page 242 / Parâmetro ponta-broca em pág. 242

CÓDIGO CODE	CAPACIDAD DE TALADRO DRILL CAPACITY CAPACIDADE DO BERBEQUIM mm.	ESPESOR A FIJAR THICKNESS TO FASTEN ESPESSURA A FIXAR mm.	PUNTA BIT PONTA 	MEDIDAS mm. SIZES			
				d	L	dk	K
ABA4825	4	Max. 08	PH-2	4,80	25	9,30	3,50
ABA4832	4	Max. 15	PH-2	4,80	32	9,30	3,50
ABA4838	4	Max. 21	PH-2	4,80	38	9,30	3,50
ABA4845	4	Max. 28	PH-2	4,80	45	9,30	3,50
ABA4850	4	Max. 32	PH-2	4,80	50	9,30	3,50
ABA5538	5	Max. 17	PH-3	5,50	38	10,70	4,27
ABA5545	5	Max. 24	PH-3	5,50	45	10,70	4,27
ABA5555	5	Max. 34	PH-3	5,50	55	10,70	4,27
ABA5565	5	Max. 44	PH-3	5,50	65	10,70	4,27
ABA6360	6	Max. 35	PH-3	6,30	60	12,00	4,81
ABA6370	6	Max. 45	PH-3	6,30	70	12,00	4,81
ABA6385	6	Max. 60	PH-3	6,30	85	12,00	4,81

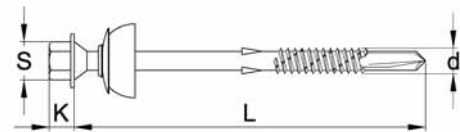
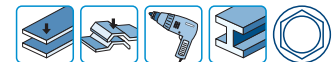


Tornillo autotaladrante para fibrocemento. Montado con arandela "paragüas".
Self drilling screw, hexagon washer head. Assembled with umbrella washer. For fibrecement.
Broca de berbequim para fibrocimento. Montada com anilha amortecedora.

FIBR

Parámetro punta-broca en pág. 242 / Self drilling installation parameters in page 242 / Parâmetro ponta-broca em pág. 242

CÓDIGO CODE	CAPACIDAD DE TALADRO DRILL CAPACITY CAPACIDADE DO BERBEQUIM mm.	ESPESOR A FIJAR THICKNESS TO FASTEN ESPESSURA A FIXAR mm.	MEDIDAS mm. SIZES			
			d	L	S	K
FI63115	1,5 - 06	85	6,30	115	8	5,5
FI63125	1,5 - 06	95	6,30	125	8	5,5
FI63110	6,0 - 12	75	6,30	110	8	5,5
FI63120	6,0 - 12	85	6,30	120	8	5,5
FI63130	6,0 - 12	95	6,30	130	8	5,5
FI63150	6,0 - 12	115	6,30	150	8	5,5
FI63160	6,0 - 12	125	6,30	160	8	5,5

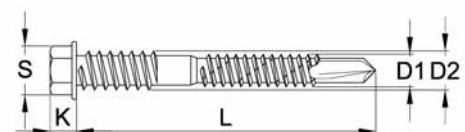
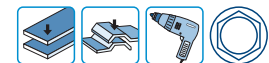


Tornillo autotaladrante para panel sandwich. Cabeza hexagonal con arandela estampada. Bicromatado.
Self drilling screw, hexagon washer head. With two threads, for sandwich panels. Yellow zinc plated.
Broca de berbequim para painel sandwich. Cabeça hexagonal com anilha estampada. Bicromatada.

SAND

Parámetro punta-broca en pág. 242 / Self drilling installation parameters in page 242 / Parâmetro ponta-broca em pág. 242

CÓDIGO CODE	CAPACIDAD DE TALADRO DRILL CAPACITY CAPACIDADE DO BERBEQUIM mm.	ESPESOR A FIJAR THICKNESS TO FASTEN ESPESSURA A FIXAR mm.	MEDIDAS mm. SIZES				
			D1	D2	L	S	K
PS55060	1,5 - 6,0	27 - 44	5,5	6,3	60	8	5,3
PS55082	1,5 - 6,0	31 - 68	5,5	6,3	82	8	5,3
PS55098	1,5 - 6,0	48 - 84	5,5	6,3	98	8	5,3
PS55115	1,5 - 6,0	63 - 100	5,5	6,3	115	8	5,3
PSL55075	6,0 - 12,0	35 - 45	5,5	6,3	75	8	5,3
PSL55085	6,0 - 12,0	40 - 55	5,5	6,3	85	8	5,3
PSL55105	6,0 - 12,0	50 - 75	5,5	6,3	105	8	5,3
PSL55130	6,0 - 12,0	65 - 100	5,5	6,3	130	8	5,3
PSL55150	6,0 - 12,0	85 - 120	5,5	6,3	150	8	5,3



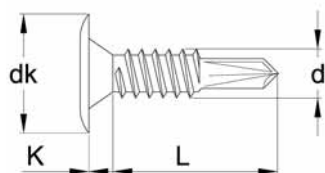


Características técnicas / Technical information / Informação técnica

BCP

Tornillo autotaladrante, cabeza extraplana, Phillips.
Extra low head, self drilling screw, Phillips.
Broca de berbequim, cabeça extraplana, Phillips.

Parámetro punta-broca en pág. 242 / Self drilling installation parameters in page 242 / Parâmetro ponta-broca em pág. 242

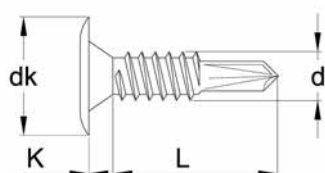


CÓDIGO CODE	CAPACIDAD DE TALADRO DRILL CAPACITY CAPACIDADE DO BERBEQUIM	ESPESOR A FIJAR THICKNESS TO FASTEN ESPESSURA A FIXAR	PUNTA BIT PONTA	MEDIDAS mm. SIZES			
				d	L	dk	K
BCPZ4214	0,70 - 2,00	Max. 5,0	PH-2	4,20	14	8,00	1,40
BCPZ4223	0,70 - 2,00	Max. 14,0	PH-2	4,20	23	8,00	1,40

BCP A2

Tornillo autotaladrante, cabeza extraplana, Phillips. Inoxidable A-2.
Extra low head, self drilling screw, Phillips. Stainless steel A-2.
Broca de berbequim, cabeça extraplana, Phillips. Inoxidável A-2.

Parámetro punta-broca en pág. 242 / Self drilling installation parameters in page 242 / Parâmetro ponta-broca em pág. 242



CÓDIGO CODE	CAPACIDAD DE TALADRO DRILL CAPACITY CAPACIDADE DO BERBEQUIM	ESPESOR A FIJAR THICKNESS TO FASTEN ESPESSURA A FIXAR	PUNTA BIT PONTA	MEDIDAS mm. SIZES			
				d	L	dk	K
BCPA24214	0,7 - 2,0	Max. 5	PH-2	4,20	14	8,00	1,40

Taladro previo rosca-chapa / Self tapping pilot hole diameter / Berbequim prévio rosca-chapa

Medida Size Medida	Espesor de chapa Sheet thickness Espessura de chapa	Ø Broca núcleo / Ø Hole diameter / Ø Núcleo da broca		Medida Size Medida	Espesor de chapa Sheet thickness Espessura de chapa	Ø Broca núcleo / Ø Hole diameter / Ø Núcleo da broca	
		Aluminio / Aluminium / Alumínio	Acero-latón / Steel / Aço			Aluminio / Aluminium / Alumínio	Acero-latón / Steel / Aço
2,9 Nº4	0,4 - 0,6	2,20	2,25	4,8 Nº10	0,4 - 0,6	---	---
	0,6 - 1,0	2,20	2,40		0,6 - 1,0	3,70	3,80
	1,0 - 1,5	2,25	2,40		1,0 - 1,5	3,70	3,80
	1,5 - 2,5	2,40	2,50		1,5 - 2,5	3,80	3,90
	2,5 - 4,0	---	---		2,5 - 4,0	3,80	4,00
3,5 Nº6	0,4 - 0,6	2,70	2,70	5,5 Nº12	0,4 - 0,6	---	---
	0,6 - 1,0	2,70	2,80		0,6 - 1,0	4,30	4,40
	1,0 - 1,5	2,80	2,80		1,0 - 1,5	4,30	4,40
	1,5 - 2,5	2,80	2,90		1,5 - 2,5	4,40	4,50
	2,5 - 4,0	---	3,00		2,5 - 4,0	4,40	4,60
3,9 Nº7	0,4 - 0,6	---	---	6,3 Nº14	0,4 - 0,6	---	---
	0,6 - 1,0	3,00	3,10		0,6 - 1,0	5,00	5,10
	1,0 - 1,5	3,00	3,10		1,0 - 1,5	5,00	5,10
	1,5 - 2,5	3,10	3,20		1,5 - 2,5	5,10	5,20
	2,5 - 4,0	3,10	3,30		2,5 - 4,0	5,10	5,30
4,2 Nº8	0,4 - 0,6	---	---		0,4 - 0,6	---	---
	0,6 - 1,0	3,20	3,30		0,6 - 1,0	---	---
	1,0 - 1,5	3,20	3,30		1,0 - 1,5	---	---
	1,5 - 2,5	3,30	3,40		1,5 - 2,5	---	---
	2,5 - 4,0	3,30	3,50		2,5 - 4,0	---	---

CP



AUE



DIN-7981 (A2)



DIN-7982 (A2)




DIN-7983 HP

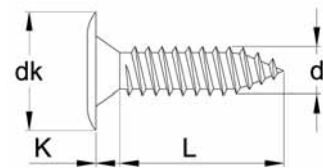


Tornillo rosca chapa, cabeza extraplana, Phillips.
 Extra low head, self tapping screw, Phillips.
 Parafuso de chapa, cabeça extraplana, Phillips.

CP

Taladro previo rosca-chapa en pág. 250 / Self tapping previous hole diameter in page 250 / Berbequim prévio em pág. 250


CÓDIGO CODE	PUNTA BIT PONTA 	MEDIDAS mm. SIZES			
		d	L	dk	K
TCPZ4213	PH-2	4,20	13	8	1,40
TCPZ4222	PH-2	4,20	22	8	1,40
TCPZ4232	PH-2	4,20	32	8	1,40

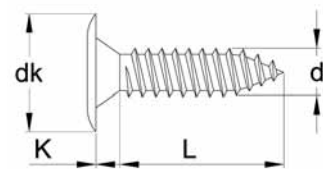
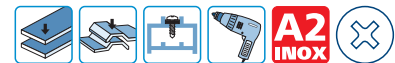


Tornillo rosca chapa, cabeza extraplana, Phillips. Inoxidable A-2.
 Extra low head, self tapping screw, Phillips. Stainless steel A-2.
 Parafuso de chapa, cabeça extraplana, Phillips. Inoxidável A-2.

CP A2

Taladro previo rosca-chapa en pág. 250 / Self tapping previous hole diameter in page 250 / Berbequim prévio em pág. 250

CÓDIGO CODE	PUNTA BIT PONTA 	MEDIDAS mm. SIZES			
		d	L	dk	K
TCPA24213	PH-2	4,20	13	8	1,40
TCPA24222	PH-2	4,20	22	8	1,40
TCPA24232	PH-2	4,20	32	8	1,40

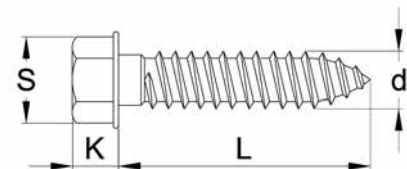
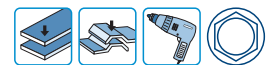


Tornillo autorroscante. Cabeza hexagonal con arandela estampada. Zincado.
 Self tapping screw, hexagon washer head. Zinc-plated.
 Parafuso de auto-enrosque. Cabeça hexagonal com anilha estampada. Zincado.

AUE

Taladro previo rosca-chapa en pág. 250 / Self tapping previous hole diameter in page 250 / Berbequim prévio em pág. 250

CÓDIGO CODE	MEDIDAS mm. SIZES			
	d	L	S	K
AUE6319	6,25	19	10	6,30
AUE6325	6,25	25	10	6,30
AUE6332	6,25	32	10	6,30
AUE6340	6,25	40	10	6,30
AUE6350	6,25	50	10	6,30
AUE6360	6,25	60	10	6,30
AUE6380	6,25	80	10	6,30
AUE6310	6,25	100	10	6,30
AUE6311	6,25	110	10	6,30
AUE6312	6,25	120	10	6,30
AUE6313	6,25	130	10	6,30
AUE6314	6,25	140	10	6,30
AUE6315	6,25	150	10	6,30

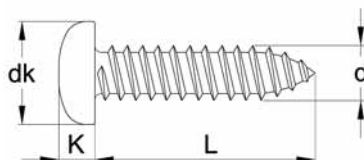




Características técnicas / Technical information / Informação técnica

DIN-7981 (A2 INOX)

Tornillo rosca chapa, cabeza alomada, huella Phillips/cuadrada.
Self tapping crew, Phillips/squared socket recessed panhead.
Vis à tôle filetée, tête cylindrique bombée, empreinte Phillips/carrée.



Taladro previo rosca-chapa en pág. 250
Self tapping previous hole diameter in page 250
Berbequim prévio em pág. 250



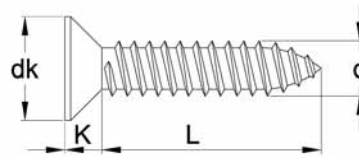
CÓDIGO CODE	CÓDIGO CODE	PUNTA BIT / PONTA	PUNTA BIT / PONTA	MEDIDAS mm. SIZES			
				d	L	dk	K
T8129006		PH-1		2,90	6,50	5,60	2,20
T8129009		PH-1		2,90	9,50	5,60	2,20
T8129013		PH-1		2,90	13	5,60	2,20
T8129016		PH-1		2,90	16	5,60	2,20
T8129019		PH-1		2,90	19	5,60	2,20
T8129022		PH-1		2,90	22	5,60	2,20
T8129025		PH-1		2,90	25	5,60	2,20
T8135006		PH-2		3,50	6,50	6,90	2,60
T8135009	T(A2)81C35009	PH-2	SQ-1	3,50	9,50	6,90	2,60
T8135013	T(A2)81C35013	PH-2	SQ-1	3,50	13	6,90	2,60
T8135016	T(A2)81C35016	PH-2	SQ-1	3,50	16	6,90	2,60
T8135019		PH-2		3,50	19	6,90	2,60
T8135022		PH-2		3,50	22	6,90	2,60
T8135025		PH-2		3,50	25	6,90	2,60
T8135032		PH-2		3,50	32	6,90	2,60
T8135038		PH-2		3,50	38	6,90	2,60
T8139006		PH-2		3,90	6,50	7,50	2,80
T8139009		PH-2		3,90	9,50	7,50	2,80
T8139013	T(A2)81C3913	PH-2	SQ-1	3,90	13	7,50	2,80
T8139016	T(A2)81C3916	PH-2	SQ-1	3,90	16	7,50	2,80
T8139019	T(A2)81C3919	PH-2	SQ-1	3,90	19	7,50	2,80
T8139022		PH-2		3,90	22	7,50	2,80
T8139025	T(A2)81C3925	PH-2	SQ-1	3,90	25	7,50	2,80
T8139032		PH-2		3,90	32	7,50	2,80
T8139038		PH-2		3,90	38	7,50	2,80
T8139045		PH-2		3,90	45	7,50	2,80
T8139050		PH-2		3,90	50	7,50	2,80
T8142009		PH-2		4,20	9,50	8,20	3,05
T8142013	T(A2)81C4213	PH-2	SQ-2	4,20	13	8,20	3,05
T8142016	T(A2)81C4216	PH-2	SQ-2	4,20	16	8,20	3,05
T8142019	T(A2)81C4219	PH-2	SQ-2	4,20	19	8,20	3,05
T8142022		PH-2		4,20	22	8,20	3,05
T8142025	T(A2)81C4225	PH-2	SQ-2	4,20	25	8,20	3,05
T8142032	T(A2)81C4232	PH-2	SQ-2	4,20	32	8,20	3,05
T8142038	T(A2)81C4238	PH-2	SQ-2	4,20	38	8,20	3,05
T8142045		PH-2		4,20	45	8,20	3,05
T8142050	T(A2)81C4250	PH-2	SQ-2	4,20	50	8,20	3,05
T8142060		PH-2		4,20	60	8,20	3,05
T8142070		PH-2		4,20	70	8,20	3,05
T8142080		PH-2		4,20	80	8,20	3,05
T8142090		PH-2		4,20	90	8,20	3,05

CÓDIGO CODE	CÓDIGO CODE	PUNTA BIT / PONTA	PUNTA BIT / PONTA	MEDIDAS mm. SIZES			
				d	L	dk	K
T8148009		PH-2		4,80	9,50	9,50	3,55
T8148013	T(A2)81C4813	PH-2	SQ-3	4,80	13	9,50	3,55
T8148016	T(A2)81C4816	PH-2	SQ-3	4,80	16	9,50	3,55
T8148019	T(A2)81C4819	PH-2	SQ-3	4,80	19	9,50	3,55
T8148022		PH-2		4,80	22	9,50	3,55
T8148025	T(A2)81C4825	PH-2	SQ-3	4,80	25	9,50	3,55
T8148032	T(A2)81C4832	PH-2	SQ-3	4,80	32	9,50	3,55
T8148038	T(A2)81C4838	PH-2	SQ-3	4,80	38	9,50	3,55
T8148045	T(A2)81C4845	PH-2	SQ-3	4,80	45	9,50	3,55
T8148050	T(A2)81C4850	PH-2	SQ-3	4,80	50	9,50	3,55
T8148060	T(A2)81C4860	PH-2	SQ-3	4,80	60	9,50	3,55
T8148070	T(A2)81C4870	PH-2	SQ-3	4,80	70	9,50	3,55
T8148080		PH-2		4,80	80	9,50	3,55
T8148090		PH-2		4,80	90	9,50	3,55
T8148100		PH-2		4,80	100	9,50	3,55
T8148110		PH-2		4,80	110	9,50	3,55
T8148120		PH-2		4,80	120	9,50	3,55
T8155013		PH-3		5,50	13	10,80	3,95
T8155016		PH-3		5,50	16	10,80	3,95
T8155019		PH-3		5,50	19	10,80	3,95
T8155022		PH-3		5,50	22	10,80	3,95
T8155025		PH-3		5,50	25	10,80	3,95
T8155032		PH-3		5,50	32	10,80	3,95
T8155038		PH-3		5,50	38	10,80	3,95
T8155045		PH-3		5,50	45	10,80	3,95
T8155050		PH-3		5,50	50	10,80	3,95
T8155060		PH-3		5,50	60	10,80	3,95
T8155070		PH-3		5,50	70	10,80	3,95
T8155080		PH-3		5,50	80	10,80	3,95
T8155090		PH-3		5,50	90	10,80	3,95
T8155100		PH-3		5,50	100	10,80	3,95
T8155110		PH-3		5,50	110	10,80	3,95
T8155120		PH-3		5,50	120	10,80	3,95
T8163013		PH-3		6,30	13	12,50	4,55
T8163016		PH-3		6,30	16	12,50	4,55
T8163019		PH-3		6,30	19	12,50	4,55
T8163022		PH-3		6,30	22	12,50	4,55
T8163025		PH-3		6,30	25	12,50	4,55
T8163032		PH-3		6,30	32	12,50	4,55
T8163038		PH-3		6,30	38	12,50	4,55
T8163045		PH-3		6,30	45	12,50	4,55
T8163050		PH-3		6,30	50	12,50	4,55
T8163060		PH-3		6,30	60	12,50	4,55
T8163070		PH-3		6,30	70	12,50	4,55
T8163080		PH-3		6,30	80	12,50	4,55
T8163090		PH-3		6,30	90	12,50	4,55
T8163100		PH-3		6,30	100	12,50	4,55
T8163110		PH-3		6,30	110	12,50	4,55
T8163120		PH-3		6,30	120	12,50	4,55

Tornillo rosca chapa, cabeza avellanada 80°, Phillips/cuadrada.
Self tapping screw, countersunk head 80°, Phillips/squared socket recessed.
Vis à tôle, tête fraisée 80°, Phillips/carrée.

DIN-7982 (A2 INOX)

Taladro previo rosca-chapa en pág. 250
 Self tapping previous hole diameter in page 250
 Berbequim prévio em pág. 250



CÓDIGO CODE	CÓDIGO CODE	PUNTA BIT / PONTA	PUNTA BIT / PONTA	MEDIDAS mm. SIZES			
				d	L	dk	K
T8229006		PH-1		2,90	6,50	5,50	1,70
T(A2)8229009		PH-1		2,90	9,50	5,50	1,70
T(A2)8229013		PH-1		2,90	13	5,50	1,70
T(A2)8229016		PH-1		2,90	16	5,50	1,70
T8229019		PH-1		2,90	19	5,50	1,70
T8229022		PH-1		2,90	22	5,50	1,70
T8229025		PH-1		2,90	25	5,50	1,70
T(A2)8235009		PH-2		3,50	9,50	6,80	2,10
T(A2)8235013		PH-2		3,50	13	6,80	2,10
T8235016		PH-2		3,50	16	6,80	2,10
T8235019		PH-2		3,50	19	6,80	2,10
T8235022		PH-2		3,50	22	6,80	2,10
T8235025		PH-2		3,50	25	6,80	2,10
T8235032		PH-2		3,50	32	6,80	2,10
T8235038		PH-2		3,50	38	6,80	2,10
T(A2)8239009		PH-2		3,90	9,50	7,50	2,30
T(A2)8239013		PH-2		3,90	13	7,50	2,30
T(A2)8239016	T(A2)82C3916	PH-2	SQ-1	3,90	16	7,50	2,30
T(A2)8239019	T(A2)82C3919	PH-2	SQ-1	3,90	19	7,50	2,30
T(A2)8239022		PH-2		3,90	22	7,50	2,30
T8239025	T(A2)82C3925	PH-2	SQ-1	3,90	25	7,50	2,30
T8239032	T(A2)82C3932	PH-2	SQ-1	3,90	32	7,50	2,30
T8239038		PH-2		3,90	38	7,50	2,30
T8239045		PH-2		3,90	45	7,50	2,30
T8239050		PH-2		3,90	50	7,50	2,30
T8242009		PH-2		4,20	9,50	8,10	2,50
T(A2)8242013		PH-2		4,20	13	8,10	2,50
T(A2)8242016		PH-2		4,20	16	8,10	2,50
T(A2)8242019	TA282C4219	PH-2	SQ-2	4,20	19	8,10	2,50
T(A2)8242022		PH-2		4,20	22	8,10	2,50
T(A2)8242025	TA282C4225	PH-2	SQ-2	4,20	25	8,10	2,50
T(A2)8242032	TA282C4232	PH-2	SQ-2	4,20	32	8,10	2,50
T(A2)8242038	TA282C4238	PH-2	SQ-2	4,20	38	8,10	2,50
T8242045		PH-2		4,20	45	8,10	2,50
T(A2)8242050	TA282C4250	PH-2	SQ-2	4,20	50	8,10	2,50
T8242060		PH-2		4,20	60	8,10	2,50
T8242070		PH-2		4,20	70	8,10	2,50

CÓDIGO CODE	CÓDIGO CODE	PUNTA BIT / PONTA	PUNTA BIT / PONTA	MEDIDAS mm. SIZES			
				d	L	dk	K
T(A2)8248013		PH-2		4,80	13	9,50	3,00
T(A2)8248016	T(A2)82C4816	PH-2	SQ-2	4,80	16	9,50	3,00
T(A2)8248019	T(A2)82C4819	PH-2	SQ-2	4,80	19	9,50	3,00
T8248022		PH-2		4,80	22	9,50	3,00
T(A2)8248025	T(A2)82C4825	PH-2	SQ-2	4,80	25	9,50	3,00
T(A2)8248032	T(A2)82C4832	PH-2	SQ-2	4,80	32	9,50	3,00
T(A2)8248038	T(A2)82C4838	PH-2	SQ-2	4,80	38	9,50	3,00
T(A2)8248045		PH-2		4,80	45	9,50	3,00
T8248050	T(A2)82C4850	PH-2	SQ-2	4,80	50	9,50	3,00
T8248060	T(A2)82C4860	PH-2	SQ-2	4,80	60	9,50	3,00
T8248070	TA282C4870	PH-2	SQ-2	4,80	70	9,50	3,00
T(A2)8255013		PH-3		5,50	13	10,80	3,40
T8255016		PH-3		5,50	16	10,80	3,40
T(A2)8255019		PH-3		5,50	19	10,80	3,40
T8255022		PH-3		5,50	22	10,80	3,40
T(A2)8255025		PH-3		5,50	25	10,80	3,40
T8255032		PH-3		5,50	32	10,80	3,40
T8255038		PH-3		5,50	38	10,80	3,40
T8255045		PH-3		5,50	45	10,80	3,40
T8255050		PH-3		5,50	50	10,80	3,40
T8255060		PH-3		5,50	60	10,80	3,40
T8255070		PH-3		5,50	70	10,80	3,40
T8263013		PH-3		6,30	13	12,40	3,80
T8263016		PH-3		6,30	16	12,40	3,80
T8263019		PH-3		6,30	19	12,40	3,80
T8263022		PH-3		6,30	22	12,40	3,80
T8263025		PH-3		6,30	25	12,40	3,80
T8263032		PH-3		6,30	32	12,40	3,80
T8263038		PH-3		6,30	38	12,40	3,80
T8263045		PH-3		6,30	45	12,40	3,80
T8263050		PH-3		6,30	50	12,40	3,80
T8263060		PH-3		6,30	60	12,40	3,80
T8263070		PH-3		6,30	70	12,40	3,80



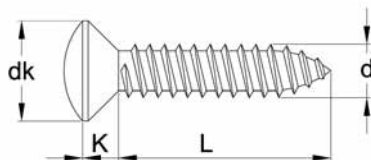


Características técnicas / Technical information / Informação técnica

DIN-7983 HP

Tornillo rosca chapa, cabeza gota sebo 80°, Phillips.
Self tapping screw, countersunk raised head 80°, Phillips.
Parafuso de chapa, cabeça gota de sebo 80°, Phillips.

Taladro previo rosca-chapa en pág. 250 / Self tapping previous hole diameter in page 250 / Berbequim prévio em pág. 250

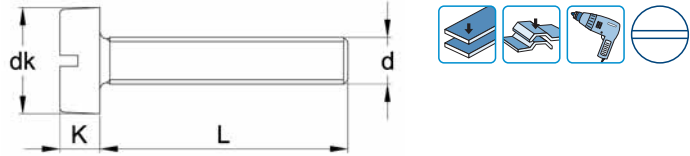


CÓDIGO CODE	PUNTA BIT PONTA	MEDIDAS mm. SIZES			
		d	L	dk	K
T8329006	PH-1	2,90	6,50	5,50	1,70
T8329009	PH-1	2,90	9,50	5,50	1,70
T8329013	PH-1	2,90	13	5,50	1,70
T8329016	PH-1	2,90	16	5,50	1,70
T8329019	PH-1	2,90	19	5,50	1,70
T8329022	PH-1	2,90	22	5,50	1,70
T8329025	PH-1	2,90	25	5,50	1,70
T8335009	PH-2	3,50	9,50	6,80	2,10
T8335013	PH-2	3,50	13	6,80	2,10
T8335016	PH-2	3,50	16	6,80	2,10
T8335019	PH-2	3,50	19	6,80	2,10
T8335022	PH-2	3,50	22	6,80	2,10
T8335025	PH-2	3,50	25	6,80	2,10
T8335032	PH-2	3,50	32	6,80	2,10
T8335038	PH-2	3,50	38	6,80	2,10
T8339009	PH-2	3,90	9,50	7,50	2,30
T8339013	PH-2	3,90	13	7,50	2,30
T8339016	PH-2	3,90	16	7,50	2,30
T8339019	PH-2	3,90	19	7,50	2,30
T8339022	PH-2	3,90	22	7,50	2,30
T8339025	PH-2	3,90	25	7,50	2,30
T8339032	PH-2	3,90	32	7,50	2,30
T8339038	PH-2	3,90	38	7,50	2,30
T8339045	PH-2	3,90	45	7,50	2,30
T8339050	PH-2	3,90	50	7,50	2,30
T8342009	PH-2	4,20	9,50	8,10	2,50
T8342013	PH-2	4,20	13	8,10	2,50
T8342016	PH-2	4,20	16	8,10	2,50
T8342019	PH-2	4,20	19	8,10	2,50
T8342022	PH-2	4,20	22	8,10	2,50
T8342025	PH-2	4,20	25	8,10	2,50
T8342032	PH-2	4,20	32	8,10	2,50
T8342038	PH-2	4,20	38	8,10	2,50
T8342045	PH-2	4,20	45	8,10	2,50
T8342050	PH-2	4,20	50	8,10	2,50
T8342060	PH-2	4,20	60	8,10	2,50
T8342070	PH-2	4,20	70	8,10	2,50

CÓDIGO CODE	PUNTA BIT PONTA	MEDIDAS mm. SIZES			
		d	L	dk	K
T8348013	PH-2	4,80	13	9,50	3,00
T8348016	PH-2	4,80	16	9,50	3,00
T8348019	PH-2	4,80	19	9,50	3,00
T8348022	PH-2	4,80	22	9,50	3,00
T8348025	PH-2	4,80	25	9,50	3,00
T8348032	PH-2	4,80	32	9,50	3,00
T8348038	PH-2	4,80	38	9,50	3,00
T8348045	PH-2	4,80	45	9,50	3,00
T8348050	PH-2	4,80	50	9,50	3,00
T8348060	PH-2	4,80	60	9,50	3,00
T8348070	PH-2	4,80	70	9,50	3,00
T8355013	PH-3	5,50	13	10,80	3,40
T8355016	PH-3	5,50	16	10,80	3,40
T8355019	PH-3	5,50	19	10,80	3,40
T8355022	PH-3	5,50	22	10,80	3,40
T8355025	PH-3	5,50	25	10,80	3,40
T8355032	PH-3	5,50	32	10,80	3,40
T8355038	PH-3	5,50	38	10,80	3,40
T8355045	PH-3	5,50	45	10,80	3,40
T8355050	PH-3	5,50	50	10,80	3,40
T8355060	PH-3	5,50	60	10,80	3,40
T8355070	PH-3	5,50	70	10,80	3,40
T8363013	PH-3	6,30	13	12,40	3,80
T8363016	PH-3	6,30	16	12,40	3,80
T8363019	PH-3	6,30	19	12,40	3,80
T8363022	PH-3	6,30	22	12,40	3,80
T8363025	PH-3	6,30	25	12,40	3,80
T8363032	PH-3	6,30	32	12,40	3,80
T8363038	PH-3	6,30	38	12,40	3,80
T8363045	PH-3	6,30	45	12,40	3,80
T8363050	PH-3	6,30	50	12,40	3,80
T8363060	PH-3	6,30	60	12,40	3,80
T8363070	PH-3	6,30	70	12,40	3,80

Tornillo rosca métrica, cabeza cilíndrica, ranurado.
Metric thread screw, cylindrical head, slotted.
Parafuso de rosca métrica, cabeça cilíndrica, Ranhurado.

DIN-84



CÓDIGO CODE	d	MEDIDAS mm. / SIZES		
		L	dk	K
T0840204Z	M2	4	3,8	1,3
T0840205Z	M2	5	3,8	1,3
T0840206Z	M2	6	3,8	1,3
T0840208Z	M2	8	3,8	1,3
T0840210Z	M2	10	3,8	1,3
T0840216Z	M2	16	3,8	1,3
T0840220Z	M2	20	3,8	1,3
T0840304Z	M3	4	5,5	2,0
T0840305Z	M3	5	5,5	2,0
T0840306Z	M3	6	5,5	2,0
T0840308Z	M3	8	5,5	2,0
T0840310Z	M3	10	5,5	2,0
T0840312Z	M3	12	5,5	2,0
T0840314Z	M3	14	5,5	2,0
T0840316Z	M3	16	5,5	2,0
T0840320Z	M3	20	5,5	2,0
T0840325Z	M3	25	5,5	2,0
T0840330Z	M3	30	5,5	2,0
T0840335Z	M3	35	5,5	2,0
T0840340Z	M3	40	5,5	2,0
T0840345Z	M3	45	5,5	2,0
T0840350Z	M3	50	5,5	2,0
T0840406Z	M4	6	7,0	2,6
T0840408Z	M4	8	7,0	2,6
T0840410Z	M4	10	7,0	2,6
T0840412Z	M4	12	7,0	2,6
T0840414Z	M4	14	7,0	2,6
T0840416Z	M4	16	7,0	2,6
T0840420Z	M4	20	7,0	2,6
T0840425Z	M4	25	7,0	2,6
T0840430Z	M4	30	7,0	2,6
T0840435Z	M4	35	7,0	2,6
T0840440Z	M4	40	7,0	2,6
T0840445Z	M4	45	7,0	2,6
T0840450Z	M4	50	7,0	2,6
T0840460Z	M4	60	7,0	2,6
T0840470Z	M4	70	7,0	2,6
T0840506Z	M5	6	8,5	3,3
T0840508Z	M5	8	8,5	3,3
T0840510Z	M5	10	8,5	3,3
T0840512Z	M5	12	8,5	3,3

CÓDIGO CODE	d	MEDIDAS mm. / SIZES		
		L	dk	K
T0840514Z	M5	14	8,5	3,3
T0840516Z	M5	16	8,5	3,3
T0840520Z	M5	20	8,5	3,3
T0840525Z	M5	25	8,5	3,3
T0840530Z	M5	30	8,5	3,3
T0840535Z	M5	35	8,5	3,3
T0840540Z	M5	40	8,5	3,3
T0840545Z	M5	45	8,5	3,3
T0840550Z	M5	50	8,5	3,3
T0840560Z	M5	60	8,5	3,3
T0840570Z	M5	70	8,5	3,3
T0840608Z	M6	8	10,0	3,9
T0840610Z	M6	10	10,0	3,9
T0840612Z	M6	12	10,0	3,9
T0840614Z	M6	14	10,0	3,9
T0840616Z	M6	16	10,0	3,9
T0840620Z	M6	20	10,0	3,9
T0840625Z	M6	25	10,0	3,9
T0840630Z	M6	30	10,0	3,9
T0840635Z	M6	35	10,0	3,9
T0840640Z	M6	40	10,0	3,9
T0840645Z	M6	45	10,0	3,9
T0840650Z	M6	50	10,0	3,9
T0840660Z	M6	60	10,0	3,9
T0840670Z	M6	70	10,0	3,9
T0840680Z	M6	80	10,0	3,9
T0840810Z	M8	10	13,0	5,0
T0840812Z	M8	12	13,0	5,0
T0840814Z	M8	14	13,0	5,0
T0840816Z	M8	16	13,0	5,0
T0840820Z	M8	20	13,0	5,0
T0840825Z	M8	25	13,0	5,0
T0840830Z	M8	30	13,0	5,0
T0840835Z	M8	35	13,0	5,0
T0840840Z	M8	40	13,0	5,0
T0840845Z	M8	45	13,0	5,0
T0840850Z	M8	50	13,0	5,0
T0840860Z	M8	60	13,0	5,0
T0840870Z	M8	70	13,0	5,0
T0840880Z	M8	80	13,0	5,0



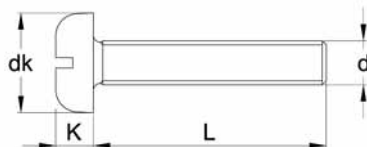
Características técnicas / Technical information / Informação técnica

DIN-85

Tornillo rosca métrica, cabeza alomada, ranurado.

Metric thread screw, panhead, slotted.

Parafuso de rosca métrica, cabeça arredondada, Ranhurado.

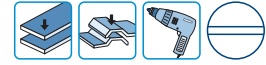
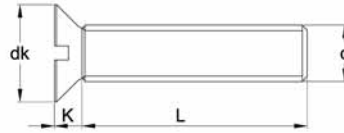


CÓDIGO CODE	d	MEDIDAS mm. / SIZES		
		L	dk	K
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T0850305Z	M3	5	6,0	1,8
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T0850310Z	M3	10	6,0	1,8
T0850312Z	M3	12	6,0	1,8
T0850316Z	M3	16	6,0	1,8
T0850320Z	M3	20	6,0	1,8
T0850325Z	M3	25	6,0	1,8
T0850330Z	M3	30	6,0	1,8
T0850340Z	M3	40	6,0	1,8
T0850405Z	M4	5	8,0	2,4
T0850406Z	M4	6	8,0	2,4
T0850408Z	M4	8	8,0	2,4
T0850410Z	M4	10	8,0	2,4
T0850412Z	M4	12	8,0	2,4
T0850416Z	M4	16	8,0	2,4
T0850420Z	M4	20	8,0	2,4
T0850425Z	M4	25	8,0	2,4
T0850430Z	M4	30	8,0	2,4
T0850435Z	M4	35	8,0	2,4
T0850440Z	M4	40	8,0	2,4
T0850450Z	M4	50	8,0	2,4

CÓDIGO CODE	d	MEDIDAS mm. / SIZES		
		L	dk	K
T0850506Z	M5	6	10,0	3,0
T0850508Z	M5	8	10,0	3,0
T0850510Z	M5	10	10,0	3,0
T0850512Z	M5	12	10,0	3,0
T0850516Z	M5	16	10,0	3,0
T0850520Z	M5	20	10,0	3,0
T0850525Z	M5	25	10,0	3,0
T0850530Z	M5	30	10,0	3,0
T0850535Z	M5	35	10,0	3,0
T0850540Z	M5	40	10,0	3,0
T0850550Z	M5	50	10,0	3,0
T0850608Z	M6	8	12,0	3,6
T0850610Z	M6	10	12,0	3,6
T0850612Z	M6	12	12,0	3,6
T0850616Z	M6	16	12,0	3,6
T0850620Z	M6	20	12,0	3,6
T0850625Z	M6	25	12,0	3,6
T0850630Z	M6	30	12,0	3,6
T0850635Z	M6	35	12,0	3,6
T0850640Z	M6	40	12,0	3,6
T0850650Z	M6	50	12,0	3,6
T0850660Z	M6	60	12,0	3,6

Tornillo rosca métrica, cabeza avellanada, ranurado.
Metric thread screw, countersunk head, slotted.
Parafuso de rosca métrica, cabeça escariada, ranhurado.

DIN-963



CÓDIGO CODE	d	MEDIDAS mm. / SIZES		
		L	dk	K
T9630305Z	M3	5	5,6	1,65
T9630306Z	M3	6	5,6	1,65
T9630308Z	M3	8	5,6	1,65
T9630310Z	M3	10	5,6	1,65
T9630312Z	M3	12	5,6	1,65
T9630316Z	M3	16	5,6	1,65
T9630320Z	M3	20	5,6	1,65
T9630325Z	M3	25	5,6	1,65
T9630330Z	M3	30	5,6	1,65
T9630335Z	M3	35	5,6	1,65
T9630340Z	M3	40	5,6	1,65
T9630345Z	M3	45	5,6	1,65
T9630350Z	M3	50	5,6	1,65
T9630405Z	M4	5	7,5	2,2
T9630406Z	M4	6	7,5	2,2
T9630408Z	M4	8	7,5	2,2
T9630410Z	M4	10	7,5	2,2
T9630412Z	M4	12	7,5	2,2
T9630416Z	M4	16	7,5	2,2
T9630420Z	M4	20	7,5	2,2
T9630425Z	M4	25	7,5	2,2
T9630430Z	M4	30	7,5	2,2
T9630435Z	M4	35	7,5	2,2
T9630440Z	M4	40	7,5	2,2
T9630445Z	M4	45	7,5	2,2
T9630450Z	M4	50	7,5	2,2
T9630460Z	M4	60	7,5	2,2
T9630470Z	M4	70	7,5	2,2
T9630508Z	M5	8	9,2	2,5
T9630510Z	M5	10	9,2	2,5
T9630512Z	M5	12	9,2	2,5
T9630516Z	M5	16	9,2	2,5
T9630520Z	M5	20	9,2	2,5
T9630525Z	M5	25	9,2	2,5
T9630530Z	M5	30	9,2	2,5
T9630535Z	M5	35	9,2	2,5
T9630540Z	M5	40	9,2	2,5
T9630545Z	M5	45	9,2	2,5
T9630550Z	M5	50	9,2	2,5
T9630560Z	M5	60	9,2	2,5
T9630570Z	M5	70	9,2	2,5
T9630580Z	M5	80	9,2	2,5
T9630610Z	M6	10	11,0	3,0
T9630612Z	M6	12	11,0	3,0
T9630616Z	M6	16	11,0	3,0

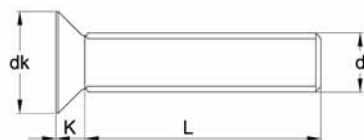
CÓDIGO CODE	d	MEDIDAS mm. / SIZES		
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T9630625Z	M6	25	11,0	3,0
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T9630635Z	M6	35	11,0	3,0
T9630640Z	M6	40	11,0	3,0
T9630645Z	M6	45	11,0	3,0
T9630650Z	M6	50	11,0	3,0
T9630660Z	M6	60	11,0	3,0
T9630670Z	M6	70	11,0	3,0
T9630680Z	M6	80	11,0	3,0
T9630810Z	M8	10	14,5	4,0
T9630812Z	M8	12	14,5	4,0
T9630816Z	M8	16	14,5	4,0
T9630820Z	M8	20	14,5	4,0
T9630825Z	M8	25	14,5	4,0
T9630830Z	M8	30	14,5	4,0
T9630835Z	M8	35	14,5	4,0
T9630840Z	M8	40	14,5	4,0
T9630845Z	M8	45	14,5	4,0
T9630850Z	M8	50	14,5	4,0
T9630860Z	M8	60	14,5	4,0
T9630870Z	M8	70	14,5	4,0
T9630880Z	M8	80	14,5	4,0
T9631016Z	M10	16	18,0	5,0
T9631020Z	M10	20	18,0	5,0
T9631025Z	M10	25	18,0	5,0
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T9631035Z	M10	35	18,0	5,0
T9631040Z	M10	40	18,0	5,0
T9631045Z	M10	45	18,0	5,0
T9631050Z	M10	50	18,0	5,0
T9631060Z	M10	60	18,0	5,0
T9631070Z	M10	70	18,0	5,0
T9631080Z	M10	80	18,0	5,0
T9631220Z	M12	20	22,0	6,0
T9631225Z	M12	25	22,0	6,0
T9631230Z	M12	30	22,0	6,0
T9631235Z	M12	35	22,0	6,0
T9631240Z	M12	40	22,0	6,0
T9631245Z	M12	45	22,0	6,0
T9631250Z	M12	50	22,0	6,0
T9631260Z	M12	60	22,0	6,0
T9631270Z	M12	70	22,0	6,0
T9631280Z	M12	80	22,0	6,0



Características técnicas / Technical information / Informação técnica

DIN-965

Tornillo rosca métrica, cabeza avellanada, huella Phillips.
Metric thread screw, countersunk head, Phillips.
Parafuso de rosca métrica, cabeça escariada, marca Phillips.

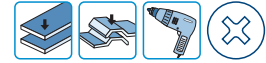
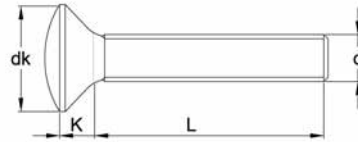


CÓDIGO CODE	PUNTA / BIT / PONTA	MEDIDAS mm. / SIZES			
		d	L	dk	K
T9650305Z	PH-1	M3	5	5,6	1,65
T9650306Z	PH-1	M3	6	5,6	1,65
T9650308Z	PH-1	M3	8	5,6	1,65
T9650310Z	PH-1	M3	10	5,6	1,65
T9650312Z	PH-1	M3	12	5,6	1,65
T9650316Z	PH-1	M3	16	5,6	1,65
T9650320Z	PH-1	M3	20	5,6	1,65
T9650325Z	PH-1	M3	25	5,6	1,65
T9650330Z	PH-1	M3	30	5,6	1,65
T9650335Z	PH-1	M3	35	5,6	1,65
T9650340Z	PH-1	M3	40	5,6	1,65
T9650408Z	PH-2	M4	8	7,5	2,2
T9650410Z	PH-2	M4	10	7,5	2,2
T9650412Z	PH-2	M4	12	7,5	2,2
T9650416Z	PH-2	M4	16	7,5	2,2
T9650420Z	PH-2	M4	20	7,5	2,2
T9650425Z	PH-2	M4	25	7,5	2,2
T9650430Z	PH-2	M4	30	7,5	2,2
T9650435Z	PH-2	M4	35	7,5	2,2
T9650440Z	PH-2	M4	40	7,5	2,2
T9650450Z	PH-2	M4	50	7,5	2,2
T9650508Z	PH-2	M5	8	9,2	2,5
T9650510Z	PH-2	M5	10	9,2	2,5
T9650512Z	PH-2	M5	12	9,2	2,5

CÓDIGO CODE	PUNTA / BIT / PONTA	MEDIDAS mm. / SIZES			
		d	L	dk	K
T9650516Z	PH-2	M5	16	9,2	2,5
T9650520Z	PH-2	M5	20	9,2	2,5
T9650525Z	PH-2	M5	25	9,2	2,5
T9650530Z	PH-2	M5	30	9,2	2,5
T9650535Z	PH-2	M5	35	9,2	2,5
T9650540Z	PH-2	M5	40	9,2	2,5
T9650545Z	PH-2	M5	45	9,2	2,5
T9650550Z	PH-2	M5	50	9,2	2,5
T9650560Z	PH-2	M5	60	9,2	2,5
T9650570Z	PH-2	M5	70	9,2	2,5
T9650580Z	PH-2	M5	80	9,2	2,5
T9650610Z	PH-3	M6	10	11,0	3,0
T9650612Z	PH-3	M6	12	11,0	3,0
T9650616Z	PH-3	M6	16	11,0	3,0
T9650620Z	PH-3	M6	20	11,0	3,0
T9650625Z	PH-3	M6	25	11,0	3,0
T9650630Z	PH-3	M6	30	11,0	3,0
T9650635Z	PH-3	M6	35	11,0	3,0
T9650640Z	PH-3	M6	40	11,0	3,0
T9650645Z	PH-3	M6	45	11,0	3,0
T9650650Z	PH-3	M6	50	11,0	3,0
T9650660Z	PH-3	M6	60	11,0	3,0
T9650670Z	PH-3	M6	70	11,0	3,0
T9650680Z	PH-3	M6	80	11,0	3,0

Tornillo rosca métrica, cabeza gota de sebo, huella Phillips.
Metric thread screw, raised countersunk head, Phillips.
Parafuso de rosca métrica, cabeça gota de sebo, marca Phillips.

DIN-966

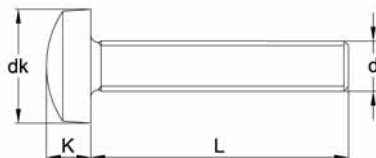
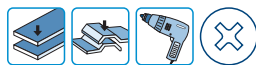


CÓDIGO CODE	PUNTA / BIT / PONTA	MEDIDAS mm. / SIZES			
		d	L	dk	K
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T9660306Z	PH-1	M3	6	5,6	1,65
T9660308Z	PH-1	M3	8	5,6	1,65
T9660310Z	PH-1	M3	10	5,6	1,65
T9660312Z	PH-1	M3	12	5,6	1,65
T9660316Z	PH-1	M3	16	5,6	1,65
T9660320Z	PH-1	M3	20	5,6	1,65
T9660325Z	PH-1	M3	25	5,6	1,65
T9660330Z	PH-1	M3	30	5,6	1,65
T9660408Z	PH-2	M4	8	7,5	2,2
T9660410Z	PH-2	M4	10	7,5	2,2
T9660412Z	PH-2	M4	12	7,5	2,2
T9660416Z	PH-2	M4	16	7,5	2,2
T9660420Z	PH-2	M4	20	7,5	2,2
T9660425Z	PH-2	M4	25	7,5	2,2
T9660430Z	PH-2	M4	30	7,5	2,2
T9660510Z	PH-2	M5	10	9,2	2,5

CÓDIGO CODE	PUNTA / BIT / PONTA	MEDIDAS mm. / SIZES			
		d	L	dk	K
T9660512Z	PH-2	M5	12	9,2	2,5
T9660516Z	PH-2	M5	16	9,2	2,5
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T9660525Z	PH-2	M5	25	9,2	2,5
T9660530Z	PH-2	M5	30	9,2	2,5
T9660535Z	PH-2	M5	35	9,2	2,5
T9660540Z	PH-2	M5	40	9,2	2,5
T9660610Z	PH-3	M6	10	11,0	3,0
T9660612Z	PH-3	M6	12	11,0	3,0
T9660616Z	PH-3	M6	16	11,0	3,0
T9660620Z	PH-3	M6	20	11,0	3,0
T9660625Z	PH-3	M6	25	11,0	3,0
T9660630Z	PH-3	M6	30	11,0	3,0
T9660635Z	PH-3	M6	35	11,0	3,0
T9660640Z	PH-3	M6	40	11,0	3,0
T9660650Z	PH-3	M6	50	11,0	3,0

DIN-7985

Tornillo rosca métrica, cabeza alomada, huella Phillips.
Metric thread screw, panhead, Phillips.
Parafuso de rosca métrica, cabeça arredondada, marca Phillips.

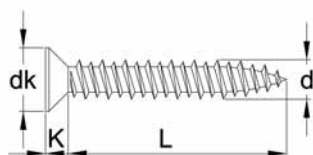
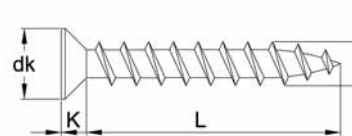


CÓDIGO CODE	PUNTA / BIT / PONTA	MEDIDAS mm. / SIZES			
		d	L	dk	K
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T9850305Z	PH-1	M3	5	6,0	2,4
T9850306Z	PH-1	M3	6	6,0	2,4
T9850308Z	PH-1	M3	8	6,0	2,4
T9850310Z	PH-1	M3	10	6,0	2,4
T9850312Z	PH-1	M3	12	6,0	2,4
T9850316Z	PH-1	M3	16	6,0	2,4
T9850320Z	PH-1	M3	20	6,0	2,4
T9850325Z	PH-1	M3	25	6,0	2,4
T9850330Z	PH-1	M3	30	6,0	2,4
T9850335Z	PH-1	M3	35	6,0	2,4
T9850340Z	PH-1	M3	40	6,0	2,4
T9850405Z	PH-2	M4	5	8,0	3,1
T9850406Z	PH-2	M4	6	8,0	3,1
T9850408Z	PH-2	M4	8	8,0	3,1
T9850410Z	PH-2	M4	10	8,0	3,1
T9850412Z	PH-2	M4	12	8,0	3,1
T9850416Z	PH-2	M4	16	8,0	3,1
T9850420Z	PH-2	M4	20	8,0	3,1
T9850425Z	PH-2	M4	25	8,0	3,1
T9850430Z	PH-2	M4	30	8,0	3,1
T9850435Z	PH-2	M4	35	8,0	3,1
T9850440Z	PH-2	M4	40	8,0	3,1
T9850445Z	PH-2	M4	45	8,0	3,1
T9850450Z	PH-2	M4	50	8,0	3,1
T9850506Z	PH-2	M5	6	10,0	3,8

CÓDIGO CODE	PUNTA / BIT / PONTA	MEDIDAS mm. / SIZES			
		d	L	dk	K
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T9850510Z	PH-2	M5	10	10,0	3,8
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T9850516Z	PH-2	M5	16	10,0	3,8
T9850520Z	PH-2	M5	20	10,0	3,8
T9850525Z	PH-2	M5	25	10,0	3,8
T9850530Z	PH-2	M5	30	10,0	3,8
T9850535Z	PH-2	M5	35	10,0	3,8
T9850540Z	PH-2	M5	40	10,0	3,8
T9850545Z	PH-2	M5	45	10,0	3,8
T9850550Z	PH-2	M5	50	10,0	3,8
T9850560Z	PH-2	M5	60	10,0	3,8
T9850608Z	PH-3	M6	8	12,0	4,6
T9850610Z	PH-3	M6	10	12,0	4,6
T9850612Z	PH-3	M6	12	12,0	4,6
T9850616Z	PH-3	M6	16	12,0	4,6
T9850620Z	PH-3	M6	20	12,0	4,6
T9850625Z	PH-3	M6	25	12,0	4,6
T9850630Z	PH-3	M6	30	12,0	4,6
T9850635Z	PH-3	M6	35	12,0	4,6
T9850640Z	PH-3	M6	40	12,0	4,6
T9850645Z	PH-3	M6	45	12,0	4,6
T9850650Z	PH-3	M6	50	12,0	4,6
T9850660Z	PH-3	M6	60	12,0	4,6
T9850670Z	PH-3	M6	70	12,0	4,6
T9850680Z	PH-3	M6	80	12,0	4,6

PVC

Tornillos para carpintería de PVC.
Screws for PVC windows.
Parafuso para carpintaria de PVC.

**PVC-10****PVC-20**

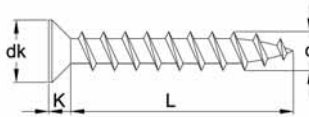
CÓDIGO CODE	PUNTA / BIT / PONTA	MEDIDAS mm. SIZES			
		d	L	dk	K
P103916	PH-2	3,90	16	7,50	2,60
P103919	PH-2	3,90	19	7,50	2,60
P103922	PH-2	3,90	22	7,50	2,60
P103925	PH-2	3,90	25	7,50	2,60
P103930	PH-2	3,90	30	7,50	2,60
P103938	PH-2	3,90	38	7,50	2,60
P103945	PH-2	3,90	45	7,50	2,60

CÓDIGO CODE	PUNTA / BIT / PONTA	MEDIDAS mm. SIZES			
		d	L	dk	K
P204316	PH-2	4,30	16	7,50	2,60
P204319	PH-2	4,30	19	7,50	2,60
P204322	PH-2	4,30	22	7,50	2,60
P204325	PH-2	4,30	25	7,50	2,60
P204330	PH-2	4,30	30	7,50	2,60
P204338	PH-2	4,30	38	7,50	2,60
P204345	PH-2	4,30	45	7,50	2,60
P204355	PH-2	4,30	55	7,50	2,60

Tornillos para carpintería de PVC.
Screws for PVC windows.
Parafuso para carpintaria de PVC.

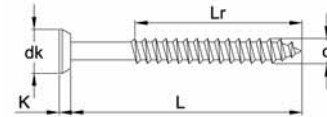


PVC



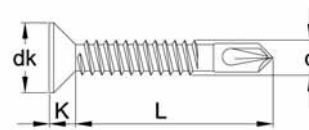
PVC-30

CÓDIGO CODE	PUNTA / BIT / PONTA 	MEDIDAS mm. SIZES			
		d	L	dk	K
P304825	PH-2	4,80	25	7,50	2,60
P304838	PH-2	4,80	38	7,50	2,60



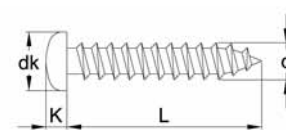
PVC-70

CÓDIGO CODE	PUNTA / BIT / PONTA 	MEDIDAS mm. SIZES			
		d	L	dk	K
P704855	PH-2	4,80	55	9,20	2,50
P704865	PH-2	4,80	65	9,20	2,50
P704880	PH-2	4,80	80	9,20	2,50
P704895	PH-2	4,80	95	9,20	2,50



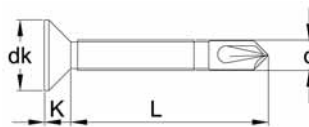
PVC-40

CÓDIGO CODE	PUNTA / BIT / PONTA 	MEDIDAS mm. SIZES			
		d	L	dk	K
P403913	PH-2	3,90	13	7,50	2,60
P403916	PH-2	3,90	16	7,50	2,60
P403919	PH-2	3,90	19	7,50	2,60
P403925	PH-2	3,90	25	7,50	2,60
P403932	PH-2	3,90	32	7,50	2,60
P403938	PH-2	3,90	38	7,50	2,60



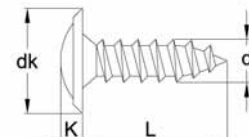
PVC-80

CÓDIGO CODE	PUNTA / BIT / PONTA 	MEDIDAS mm. SIZES			
		d	L	dk	K
P804530	PH-2	4,50	30	6,80	2,60
P804555	PH-2	4,50	55	6,80	2,60
P804570	PH-2	4,50	70	6,80	2,60



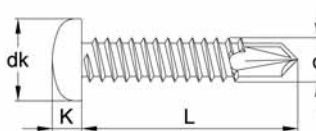
PVC-50

CÓDIGO CODE	PUNTA / BIT / PONTA 	MEDIDAS mm. SIZES			
		d	L	dk	K
P50M413	PH-2	M-4	13	7,50	2,30
P50M416	PH-2	M-4	16	7,50	2,30
P50M419	PH-2	M-4	19	7,50	2,30
P50M425	PH-2	M-4	25	7,50	2,30
P50M432	PH-2	M-4	32	7,50	2,30
P50M438	PH-2	M-4	38	7,50	2,30
P50M445	PH-2	M-4	45	7,50	2,30



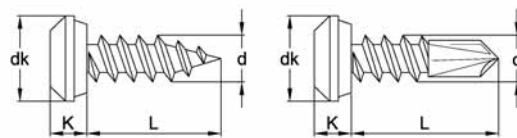
PVC-90

CÓDIGO CODE	PUNTA / BIT / PONTA 	MEDIDAS mm. SIZES			
		d	L	dk	K
P903510	PH-2	3,50	10	8,20	1,60
P904017	PH-2	4,00	17	9,30	2,30



PVC-60

CÓDIGO CODE	PUNTA / BIT / EMBOUT 	MEDIDAS mm. SIZES / DIMENSIONS			
		d	L	dk	K
P603913	PH-2	3,90	13	7,50	2,60
P603916	PH-2	3,90	16	7,50	2,60
P603919	PH-2	3,90	19	7,50	2,60
P603922	PH-2	3,90	22	7,50	2,60
P603925	PH-2	3,90	25	7,50	2,60



PVC-100

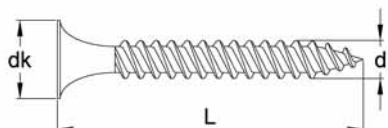
CÓDIGO CODE	PARA FOR POUR	PUNTA BIT PONTA 	CAP. DE TALADRO DRILL CAPACITY CAPACIDADE DO BERBEQUIM	MEDIDAS mm. SIZES			
				mm.	d	L	dk
P100KOM	KÖMMERLING	PH-2	----	5,50	10	10,00	6,50
P100REH	REHAU - DECEUNINCK	PH-2	----	5,50	10	10,00	4,30
P100TY5	THYSSEN	PH-2	----	5,50	10	11,00	4,50
P100VEK	VEKAPLAST	PH-2	----	4,80	10	8,50	3,80
P100KOM10	KÖMMERLING	PH-2	----	4,00	10	10,00	6,50
P100REH10	REHAU - DECEUNINCK	PH-2	----	4,00	10	10,00	4,30
P100VEK10	VEKAPLAST	PH-2	----	4,00	10	8,50	3,80
P100KOM13	KÖMMERLING	PH-2	3	4,00	13	10,00	6,50
P100REH13	REHAU - DECEUNINCK	PH-2	3	4,00	13	10,00	4,30
P100VEK13	VEKAPLAST	PH-2	3	4,00	13	8,50	3,80




PL



Tornillo para "pladur". Cabeza trompeta. Rosca doble hilo. Punta perforante. Fosfatado.
 Drywall screw for plasterboard. Bugle head. Twinfast thread. S-point. Phosphated.
 Parafuso para pladur. Cabeça trompete. Rosca dupla hi-lo. Ponta perfuradora. Fosfatado.

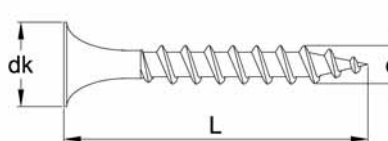



CÓDIGO CODE	PUNTA / BIT / PONTA 	CAPACIDAD DE TALADRO DRILL CAPACITY / CAPACIDADE DO BERBEQUIM mm.	MEDIDAS mm. SIZES		
			d	L	dk
PL35025	PH-2	0,80	3,50	25	8,00
PL35035	PH-2	0,80	3,50	35	8,00
PL35045	PH-2	0,80	3,50	45	8,00
PL35055	PH-2	0,80	3,50	55	8,00
PL39025	PH-2	0,80	3,90	25	8,00
PL39038	PH-2	0,80	3,90	38	8,00
PL39048	PH-2	0,80	3,90	48	8,00
PL39058	PH-2	0,80	3,90	58	8,00
PL42065	PH-2	0,80	4,20	65	8,00
PL42075	PH-2	0,80	4,20	75	8,00
PL48090	PH-2	0,80	4,80	90	9,00
PL48100	PH-2	0,80	4,80	100	9,00
PL48110	PH-2	0,80	4,80	110	9,00
PL48120	PH-2	0,80	4,80	120	9,00
PL48130	PH-2	0,80	4,80	130	9,00

PL-RA



Tornillo "pladur" rosca paso ancho. Cabeza trompeta. Punta perforante. Fosfatado.
 Drywall screw for plasterboard. Bugle head. Coarse thread. S-point. Phosphated.
 Parafuso para pladur com rosca de passo largo. Cabeça trompete. Ponta perfuradora. Fosfatado.

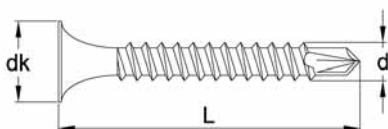


CÓDIGO CODE	PUNTA / BIT / PONTA 	MEDIDAS mm. SIZES		
		d	L	dk
PLRA3925	PH-2	3,90	25	8,00
PLRA3935	PH-2	3,90	35	8,00
PLRA3945	PH-2	3,90	45	8,00
PLRA3955	PH-2	3,90	55	8,00
PLRA4835	PH-2	4,80	35	9,00

PL-TR



Tornillo "pladur" autotaladrante. Cabeza trompeta. Fosfatado.
 Drywall self drilling screw for plasterboard. Bugle head. Phosphated.
 Broca de berbequim para pladur. Cabeça trompete. Fosfatada.

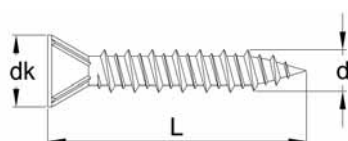



CÓDIGO CODE	PUNTA / BIT / PONTA 	CAPACIDAD DE TALADRO DRILL CAPACITY / CAPACIDADE DO BERBEQUIM mm.	MEDIDAS mm. SIZES		
			d	L	dk
PLTR3525	PH-2	0,75 - 2,25	3,50	25	8,00
PLTR3535	PH-2	0,75 - 2,25	3,50	35	8,00
PLTR3545	PH-2	0,75 - 2,25	3,50	45	8,00

PL-AD



Tornillo "pladur", cabeza avellanada. Para placas de alta densidad. Rosca hi-lo. Fosfatado.
 Countersunk head screw for high density plasterboard. High-low thread. Phosphated.
 Parafuso para pladur, com cabeça escariada. Para placas de alta densidade. Rosca hi-lo. Fosfatado.



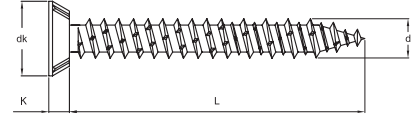
CÓDIGO CODE	PUNTA / BIT / PONTA 	MEDIDAS mm. SIZES		
		d	L	dk
PLAD3919	PH-2	3,90	19	7,00
PLAD3925	PH-2	3,90	25	7,00
PLAD3930	PH-2	3,90	30	7,00
PLAD3935	PH-2	3,90	35	7,00
PLAD3945	PH-2	3,90	45	7,00
PLAD3955	PH-2	3,90	55	7,00

Tornillo hormigón cabeza plana. Rosca hi-lo. Torx-30. Bicromatado.
 Concrete screw, shallow countersunk head. High-low thread. Torx-30. Yellow zinc plated.
 Parafuso para betão, com cabeça plana. Rosca hi-lo. Torx-30. Bicromatado.



HP

CÓDIGO CODE	PUNTA / BIT / PONTA 	TALADRO PREVIO PILOT HOLE BERBEQUIM PRÉVIO	ESPESOR A FIJAR THICKNESS TO FASTEN ESPESSURA A FIXAR	MEDIDAS mm. SIZES			
				d	L	dk	K
HP75072	TX-30	6	12 - 32	7,50	72	11,00	3,00
HP75092	TX-30	6	32 - 52	7,50	92	11,00	3,00
HP75112	TX-30	6	52 - 72	7,50	112	11,00	3,00
HP75132	TX-30	6	72 - 92	7,50	132	11,00	3,00
HP75152	TX-30	6	92 - 112	7,50	152	11,00	3,00
HP75182	TX-30	6	112 - 142	7,50	182	11,00	3,00

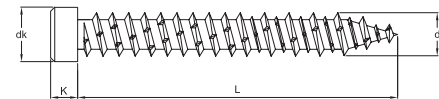


Tornillo hormigón, cabeza cilíndrica. Rosca hi-lo. Torx-25. Bicromatado.
 Concrete screw, special head style. High-low thread. Torx-25. Yellow zinc plated.
 Parafuso para betão, com cabeça cilíndrica. Rosca hi-lo. Torx-25. Bicromatado.



HR

CÓDIGO CODE	PUNTA / BIT / PONTA 	TALADRO PREVIO PILOT HOLE BERBEQUIM PRÉVIO	ESPESOR A FIJAR THICKNESS TO FASTEN ESPESSURA A FIXAR	MEDIDAS mm. SIZES			
				d	L	dk	K
HR75072	TX-25	6	12 - 32	7,50	72	8,00	3,00
HR75092	TX-25	6	32 - 52	7,50	92	8,00	3,00
HR75112	TX-25	6	52 - 72	7,50	112	8,00	3,00
HR75132	TX-25	6	72 - 92	7,50	132	8,00	3,00

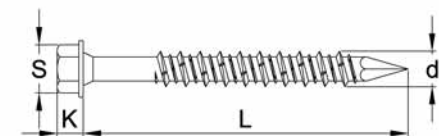


Tornillo hormigón cab. hexagonal con arandela estampada. Rosca hi-lo. Punta diamante. Galvanizado orgánico azul.
 Concrete screw, hexagon washer head. High-low thread. Diamond point. Organic blue passivated.
 Parafuso para betão, cabeça hexagonal, com anilha estampada. Rosca hi-lo. Ponta diamante. Galvanizado orgânico azul.



HE

CÓDIGO CODE	TALADRO PREVIO PILOT HOLE BERBEQUIM PRÉVIO	ESPESOR A FIJAR THICKNESS TO FASTEN ESPESSURA A FIXAR	MEDIDAS mm. SIZES			
			d	L	dk	K
HE65032	5	0 - 2	6,50	32	8,00	5,00
HE65045	5	2 - 15	6,50	45	8,00	5,00
HE65057	5	15 - 27	6,50	57	8,00	5,00
HE65070	5	27 - 40	6,50	70	8,00	5,00
HE65080	5	40 - 50	6,50	80	8,00	5,00
HE65100	5	50 - 70	6,50	100	8,00	5,00
HE65125	5	70 - 95	6,50	125	8,00	5,00



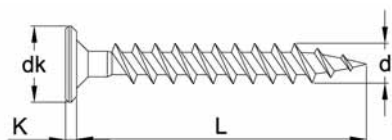



Características técnicas / Technical information / Informação técnica

FIMA



Tornillo cabeza cilíndrica especial extraplana, rosca doble hilo, para aluminio.
Cylindrical screw extraflat head and twinfast thread, for aluminium.
Parafuso com cabeça cilíndrica especial e extraplana, rosca de fio duplo, para alumínio.

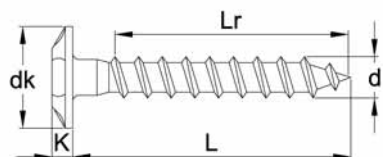



CÓDIGO CODE	PUNTA / BIT / PONTA 	MEDIDAS mm. SIZES			
		d	L	dk	K
TFI4825	TX-20	4,80	25	10,50	1,80
TFI4835	TX-20	4,80	35	10,50	1,80
TFI4845	TX-20	4,80	45	10,50	1,80
TFI4855	TX-20	4,80	55	10,50	1,80
TFI4865	TX-20	4,80	65	10,50	1,80
TFI4875	TX-20	4,80	75	10,50	1,80
TFI4890	TX-20	4,80	90	10,50	1,80

INV



Tornillo inviolable, Torx-40.
Tamperproof screw, Torx-40.
Parafuso inviolável, Torx-40.

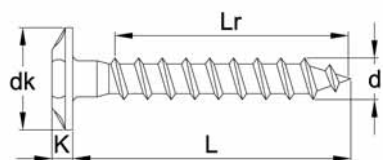


CÓDIGO CODE	PUNTA / BIT / PONTA 	MEDIDAS mm. SIZES				
		d	L	dk	K	Lr
INVZ6040	TX-40	6	40	17	4,5	32
INVZ6050	TX-40	6	50	17	4,5	32
INVZ6060	TX-40	6	60	17	4,5	32
INVZ6070	TX-40	6	70	17	4,5	58
INVZ7030	TX-40	7	30	17	4,5	30
INVZ7040	TX-40	7	40	17	4,5	32
INVZ7050	TX-40	7	50	17	4,5	32
INVZ7060	TX-40	7	60	17	4,5	32
INVZ7070	TX-40	7	70	17	4,5	58
INVZ7080	TX-40	7	80	17	4,5	58
INVZ7090	TX-40	7	90	17	4,5	58

INV A2



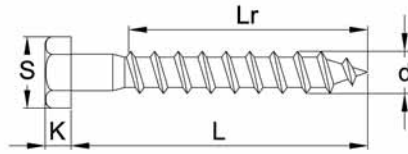
Tornillo inviolable, Torx-40.
Tamperproof screw, Torx-40.
Parafuso inviolável, Torx-40.



CÓDIGO CODE	PUNTA / BIT / PONTA 	MEDIDAS mm. SIZES				
		d	L	dk	K	Lr
INVA27050	TX-40	7	50	17	4,5	32
INVA27060	TX-40	7	60	17	4,5	32
INVA27070	TX-40	7	70	17	4,5	58
INVA27080	TX-40	7	80	17	4,5	58

Tornillo con rosca para madera y aglomerado. Cabeza hexagonal. Zincado.
 Coach wood screw. Hexagon head. Zinc-plated.
 Parafuso com rosca para madeira e aglomerado. Cabeça hexagonal. Zincado.

DIN-571



CÓDIGO / CODE	Ø Taco nylon	d	MEDIDAS mm. / SIZES			
			L	S	K	D
TB05020	7	5	20	8	3,5	12
TB05025	7	5	25	8	3,5	15
TB05030	7	5	30	8	3,5	18
TB05035	7	5	35	8	3,5	21
TB05040	7	5	40	8	3,5	24
TB05050	7	5	50	8	3,5	30
TB05060	7	5	60	8	3,5	36
TB06020	8	6	20	10	4,0	12
TB06025	8	6	25	10	4,0	15
TB06030	8	6	30	10	4,0	18
TB06035	8	6	35	10	4,0	21
TB06040	8	6	40	10	4,0	24
TB06045	8	6	45	10	4,0	27
TB06050	8	6	50	10	4,0	30
TB06060	8	6	60	10	4,0	36
TB06070	8	6	70	10	4,0	42
TB06080	8	6	80	10	4,0	48
TB06090	8	6	90	10	4,0	54
TB06100	8	6	100	10	4,0	60
TB06110	8	6	110	10	4,0	66
TB06120	8	6	120	10	4,0	72
TB07030	10	7	30	12	5,0	18
TB07035	10	7	35	12	5,0	21
TB07040	10	7	40	12	5,0	24
TB07045	10	7	45	12	5,0	27
TB07050	10	7	50	12	5,0	30
TB07060	10	7	60	12	5,0	36
TB07070	10	7	70	12	5,0	42
TB07080	10	7	80	12	5,0	48
TB07090	10	7	90	12	5,0	54
TB07100	10	7	100	12	5,0	60
TB07110	10	7	110	12	5,0	66
TB07120	10	7	120	12	5,0	72
TB08025	10	8	25	13	5,5	15
TB08030	10	8	30	13	5,5	18
TB08035	10	8	35	13	5,5	21
TB08040	10	8	40	13	5,5	24
TB08045	10	8	45	13	5,5	27
TB08050	10	8	50	13	5,5	30
TB08060	10	8	60	13	5,5	36
TB08070	10	8	70	13	5,5	42
TB08080	10	8	80	13	5,5	48
TB08090	10	8	90	13	5,5	54
TB08100	10	8	100	13	5,5	60
TB08110	10	8	110	13	5,5	66
TB08120	10	8	120	13	5,5	72
TB08130	10	8	130	13	5,5	78
TB08140	10	8	140	13	5,5	84
TB08150	10	8	150	13	5,5	90
TB08160	10	8	160	13	5,5	96
TB08180	10	8	180	13	5,5	108
TB08200	10	8	200	13	5,5	120

CÓDIGO / CODE	Ø Taco nylon	d	MEDIDAS mm. / SIZES			
			L	S	K	Lr
TB10030	12	10	30	17	7,0	18
TB10035	12	10	35	17	7,0	21
TB10040	12	10	40	17	7,0	24
TB10045	12	10	45	17	7,0	27
TB10050	12	10	50	17	7,0	30
TB10060	12	10	60	17	7,0	36
TB10070	12	10	70	17	7,0	42
TB10080	12	10	80	17	7,0	48
TB10090	12	10	90	17	7,0	54
TB10100	12	10	100	17	7,0	60
TB10110	12	10	110	17	7,0	66
TB10120	12	10	120	17	7,0	72
TB10130	12	10	130	17	7,0	78
TB10140	12	10	140	17	7,0	84
TB10150	12	10	150	17	7,0	90
TB10160	12	10	160	17	7,0	96
TB10180	12	10	180	17	7,0	108
TB10200	12	10	200	17	7,0	120
TB12050	14	12	50	19	8,0	30
TB12060	14	12	60	19	8,0	36
TB12070	14	12	70	19	8,0	42
TB12080	14	12	80	19	8,0	48
TB12090	14	12	90	19	8,0	54
TB12100	14	12	100	19	8,0	60
TB12110	14	12	110	19	8,0	66
TB12120	14	12	120	19	8,0	72
TB12130	14	12	130	19	8,0	78
TB12140	14	12	140	19	8,0	84
TB12150	14	12	150	19	8,0	90
TB12160	14	12	160	19	8,0	96
TB12180	14	12	180	19	8,0	108
TB12200	14	12	200	19	8,0	120
TB12220	14	12	220	19	8,0	132
TB12240	14	12	240	19	8,0	144
TB12260	14	12	260	19	8,0	156
TB14080	16	14	80	22	9,0	48
TB14100	16	14	100	22	9,0	60
TB14120	16	14	120	22	9,0	72
TB14140	16	14	140	22	9,0	84
TB14160	16	14	160	22	9,0	96
TB16090	-	16	90	24	10,0	54
TB16100	-	16	100	24	10,0	60
TB16120	-	16	120	24	10,0	72
TB16140	-	16	140	24	10,0	84
TB16150	-	16	150	24	10,0	90
TB16160	-	16	160	24	10,0	96
TB16180	-	16	180	24	10,0	108
TB16200	-	16	200	24	10,0	120
TB16220	-	16	220	24	10,0	132
TB16240	-	16	240	24	10,0	144
TB16260	-	16	260	24	10,0	156



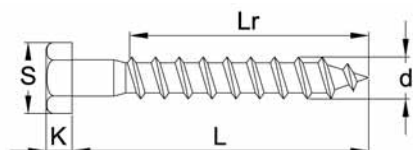


Características técnicas / Technical information / Informação técnica

DIN -571 A2

Tornillo con rosca para madera y aglomerado. Cabeza hexagonal. Inox A-2.
Coach wood screw. Hexagon head. Stainless steel A-2.
Parafuso com rosca para madeira e aglomerado. Cabeça hexagonal. Zincado.

NEW

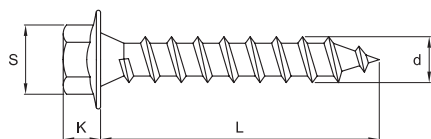


CÓDIGO / CODE	MEDIDAS mm. / SIZES				
	d	L	S	K	Lr
TBA206040	6	40	10	4,0	24
TBA206050	6	50	10	4,0	30
TBA206060	6	60	10	4,0	36
TBA206070	6	70	10	4,0	42
TBA208050	8	50	13	5,5	30
TBA208060	8	60	13	5,5	36
TBA208070	8	70	13	5,5	42
TBA208080	8	80	13	5,5	48
TBA210080	10	80	17	7,0	48

TBR

Tornillo barraquero con rosca completa. Con carandela estampada.
Coach wood screw with full thread. Con carandela estampada.
Parafuso para madeira, com rosca completa e anilha estampada.

NEW

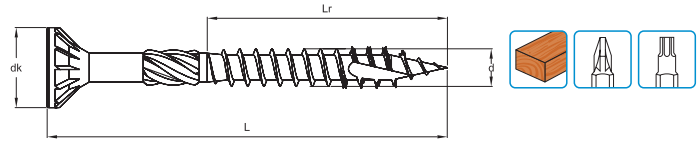


CÓDIGO / CODE	MEDIDAS mm. / SIZES			
	d	L	S	K
TBR06050	6	50	10	6,0
TBR06060	6	60	10	6,0
TBR06070	6	70	10	6,0
TBR08050	8	50	13	7,0
TBR08060	8	60	13	7,0
TBR08070	8	70	13	7,0
TBR08080	8	80	13	7,0
TBR10060	10	60	15	8,5
TBR10080	10	90	15	8,5

NEW

Tirafondo de alto rendimiento.
High-Performance chiboard screw.
Tirefond de alto rendimiento.

TEXZ



CÓDIGO CODE	PUNTA BIT / PONTA	PUNTA BIT / PONTA	MEDIDAS mm. SIZES			
			d	L	dk	K
TEXZ30025	T10	PZ1	3,00	25	6,00	total
TEXZ30030	T10	PZ1	3,00	30	6,00	total
TEXZ30035	T10	PZ1	3,00	35	6,00	total
TEXZ30040	T10	PZ1	3,00	40	6,00	total
TEXZ35025	T15	PZ2	3,50	25	7,00	total
TEXZ35030	T15	PZ2	3,50	30	7,00	total
TEXZ35035	T15	PZ2	3,50	35	7,00	total
TEXZ35040	T15	PZ2	3,50	40	7,00	30,00
TEXZ35045	T15	PZ2	3,50	45	7,00	30,00
TEXZ35050	T15	PZ2	3,50	50	7,00	30,00
TEXZ40025	T15	PZ2	4,00	25	8,00	total
TEXZ40030	T15	PZ2	4,00	30	8,00	total
TEXZ40035	T15	PZ2	4,00	35	8,00	total
TEXZ40040	T15	PZ2	4,00	40	8,00	30,00
TEXZ40045	T15	PZ2	4,00	45	8,00	30,00
TEXZ40050	T15	PZ2	4,00	50	8,00	30,00
TEXZ40055	T15	PZ2	4,00	55	8,00	40,00
TEXZ40060	T15	PZ2	4,00	60	8,00	40,00
TEXZ40070	T15	PZ2	4,00	70	8,00	40,00
TEXZ45025	T20	PZ2	4,50	25	9,00	total
TEXZ45030	T20	PZ2	4,50	30	9,00	total
TEXZ45035	T20	PZ2	4,50	35	9,00	total
TEXZ45040	T20	PZ2	4,50	40	9,00	30,00
TEXZ45045	T20	PZ2	4,50	45	9,00	30,00
TEXZ45050	T20	PZ2	4,50	50	9,00	30,00
TEXZ45060	T20	PZ2	4,50	60	9,00	40,00
TEXZ45070	T20	PZ2	4,50	70	9,00	40,00
TEXZ45080	T20	PZ2	4,50	80	9,00	40,00
TEXZ50025	T25	PZ2	5,00	25	10,00	total
TEXZ50030	T25	PZ2	5,00	30	10,00	total
TEXZ50035	T25	PZ2	5,00	35	10,00	total
TEXZ50040	T25	PZ2	5,00	40	10,00	30,00
TEXZ50045	T25	PZ2	5,00	45	10,00	30,00
TEXZ50050	T25	PZ2	5,00	50	10,00	30,00
TEXZ50060	T25	PZ2	5,00	60	10,00	40,00
TEXZ50070	T25	PZ2	5,00	70	10,00	40,00
TEXZ50080	T25	PZ2	5,00	80	10,00	40,00
TEXZ50090	T25	PZ2	5,00	90	10,00	40,00
TEXZ50100	T25	PZ2	5,00	100	10,00	60,00

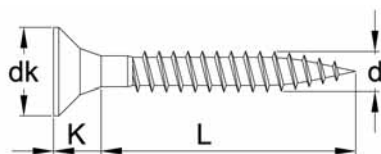
CÓDIGO CODE	PUNTA BIT / PONTA	PUNTA BIT / PONTA	MEDIDAS mm. SIZES			
			d	L	dk	K
TEXZ60040	T25	PZ3	6,10	40	12,00	30,00
TEXZ60045	T25	PZ3	6,10	45	12,00	30,00
TEXZ60050	T25	PZ3	6,10	50	12,00	30,00
TEXZ60060	T25	PZ3	6,10	60	12,00	40,00
TEXZ60070	T25	PZ3	6,10	70	12,00	40,00
TEXZ60080	T25	PZ3	6,10	80	12,00	40,00
TEXZ60090	T25	PZ3	6,10	90	12,00	40,00
TEXZ60100	T25	PZ3	6,10	100	12,00	70,00
TEXZ60110	T25	PZ3	6,10	110	12,00	70,00
TEXZ60120	T25	PZ3	6,10	120	12,00	70,00
TEXZ60130	T25	PZ3	6,10	130	12,00	70,00
TEXZ60140	T25	PZ3	6,10	140	12,00	70,00
TEXZ60150	T25	PZ3	6,10	150	12,00	70,00
TEXZ60160	T25	PZ3	6,10	160	12,00	70,00
TEXZ60180	T25	PZ3	6,10	180	12,00	70,00
TEXZ60200	T25	PZ3	6,10	200	12,00	70,00
TEXZ60220	T25	PZ3	6,10	220	12,00	70,00
TEXZ60240	T25	PZ3	6,10	240	12,00	70,00
TEXZ60260	T25	PZ3	6,10	260	12,00	70,00
TEXZ60280	T25	PZ3	6,10	280	12,00	70,00
TEXZ60300	T25	PZ3	6,10	300	12,00	70,00
TEXZ80080	T40	-	8,10	80	14,80	40,00
TEXZ80100	T40	-	8,10	100	14,80	70,00
TEXZ80120	T40	-	8,10	120	14,80	70,00
TEXZ80140	T40	-	8,10	140	14,80	70,00
TEXZ80160	T40	-	8,10	160	14,80	70,00
TEXZ80180	T40	-	8,10	180	14,80	70,00
TEXZ80200	T40	-	8,10	200	14,80	70,00
TEXZ80220	T40	-	8,10	220	14,80	70,00
TEXZ80240	T40	-	8,10	240	14,80	70,00
TEXZ80260	T40	-	8,10	260	14,80	70,00
TEXZ80280	T40	-	8,10	280	14,80	70,00
TEXZ80300	T40	-	8,10	300	14,80	70,00
TEXZ80320	T40	-	8,10	320	14,80	70,00
TEXZ80340	T40	-	8,10	340	14,80	70,00
TEXZ80360	T40	-	8,10	360	14,80	70,00
TEXZ80380	T40	-	8,10	380	14,80	70,00
TEXZ80400	T40	-	8,10	400	14,80	70,00



Características técnicas / Technical information / Informação técnica

TP-PO

Tirafundo cabeza 90° avellanada. Filete 40°. Lubricado. Bicromatado.
Chipboard screw. Countersunk 90° head. Thread 40°. Special coating. Yellow zinc plated.
Tirefond com cabeça escariada 90°. Filete 40°. Lubricado. Bicromatado.

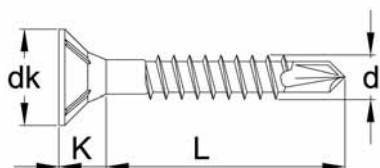


CÓDIGO CODE	PUNTA / BIT / PONTA	MEDIDAS mm. SIZES			
		d	L	dk	K
TPPO25010	PZ-1	2,50	10	5,00	1,25
TPPO25012	PZ-1	2,50	12	5,00	1,25
TPPO25016	PZ-1	2,50	16	5,00	1,25
TPPO25020	PZ-1	2,50	20	5,00	1,25
TPPO25025	PZ-1	2,50	25	5,00	1,25
TPPO30012	PZ-1	3,00	12	6,00	1,54
TPPO30016	PZ-1	3,00	16	6,00	1,54
TPPO30020	PZ-1	3,00	20	6,00	1,54
TPPO30025	PZ-1	3,00	25	6,00	1,54
TPPO30030	PZ-1	3,00	30	6,00	1,54
TPPO30040	PZ-1	3,00	40	6,00	1,54
TPPO35016	PZ-2	3,50	16	7,00	1,84
TPPO35020	PZ-2	3,50	20	7,00	1,84
TPPO35025	PZ-2	3,50	25	7,00	1,84
TPPO35030	PZ-2	3,50	30	7,00	1,84
TPPO35035	PZ-2	3,50	35	7,00	1,84
TPPO35040	PZ-2	3,50	40	7,00	1,84
TPPO35050	PZ-2	3,50	50	7,00	1,84
TPPO40016	PZ-2	4,00	16	8,00	2,10
TPPO40020	PZ-2	4,00	20	8,00	2,10
TPPO40025	PZ-2	4,00	25	8,00	2,10
TPPO40030	PZ-2	4,00	30	8,00	2,10
TPPO40035	PZ-2	4,00	35	8,00	2,10
TPPO40040	PZ-2	4,00	40	8,00	2,10
TPPO40045	PZ-2	4,00	45	8,00	2,10
TPPO40050	PZ-2	4,00	50	8,00	2,10
TPPO40060	PZ-2	4,00	60	8,00	2,10
TPPO40070	PZ-2	4,00	70	8,00	2,10
TPPO45020	PZ-2	4,50	20	9,00	2,37
TPPO45025	PZ-2	4,50	25	9,00	2,37
TPPO45030	PZ-2	4,50	30	9,00	2,37
TPPO45035	PZ-2	4,50	35	9,00	2,37
TPPO45040	PZ-2	4,50	40	9,00	2,37
TPPO45045	PZ-2	4,50	45	9,00	2,37

CÓDIGO CODE	PUNTA / BIT / PONTA	MEDIDAS mm. SIZES			
		d	L	dk	K
TPPO45050	PZ-2	4,50	50	9,00	2,37
TPPO45060	PZ-2	4,50	60	9,00	2,37
TPPO45070	PZ-2	4,50	70	9,00	2,37
TPPO45080	PZ-3	4,50	80	9,00	2,37
TPPO50020	PZ-2	5,00	20	10,00	2,66
TPPO50025	PZ-2	5,00	25	10,00	2,66
TPPO50030	PZ-2	5,00	30	10,00	2,66
TPPO50035	PZ-2	5,00	35	10,00	2,66
TPPO50040	PZ-2	5,00	40	10,00	2,66
TPPO50045	PZ-2	5,00	45	10,00	2,66
TPPO50050	PZ-2	5,00	50	10,00	2,66
TPPO50060	PZ-2	5,00	60	10,00	2,66
TPPO50070	PZ-2	5,00	70	10,00	2,66
TPPO50080	PZ-2	5,00	80	10,00	2,66
TPPO50090	PZ-2	5,00	90	10,00	2,66
TPPO50100	PZ-2	5,00	100	10,00	2,66
TPPO50120	PZ-2	5,00	120	10,00	2,66
TPPO60040	PZ-3	6,00	40	12,00	3,19
TPPO60050	PZ-3	6,00	50	12,00	3,19
TPPO60060	PZ-3	6,00	60	12,00	3,19
TPPO60070	PZ-3	6,00	70	12,00	3,19
TPPO60080	PZ-3	6,00	80	12,00	3,19
TPPO60090	PZ-3	6,00	90	12,00	3,19
TPPO60100	PZ-3	6,00	100	12,00	3,19
TPPO60110	PZ-3	6,00	110	12,00	3,19
TPPO60120	PZ-3	6,00	120	12,00	3,19
TPPO60130	PZ-3	6,00	130	12,00	3,19
TPPO60140	PZ-3	6,00	140	12,00	3,19
TPPO60150	PZ-3	6,00	150	12,00	3,19
TPPO60160	PZ-3	6,00	160	12,00	3,19
TPPO60180	PZ-3	6,00	180	12,00	3,19
TPPO60200	PZ-3	6,00	200	12,00	3,19
TPPO60220	PZ-3	6,00	220	12,00	3,19

TP-BR

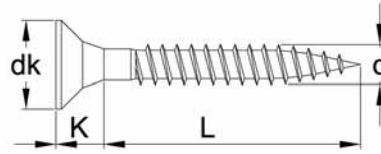
Tirafundo cabeza 90° avellanada. Punta broca. Paso de rosca mas ancho. Zincado.
Self drilling screw for wood. Countersunk head. Special thread with large pitch. Zinc plated.
Tirefond com cabeça escariada 90°. Ponta da broca. Passo da rosca mais largo. Zincado.





CÓDIGO CODE	PUNTA / BIT / PONTA	MEDIDAS mm. SIZES			
		d	L	dk	K
TPBR4325	PZ-2	4,30	25	8,00	4,60
TPBR4330	PZ-2	4,30	30	8,00	4,60
TPBR4335	PZ-2	4,30	35	8,00	4,60
TPBR4340	PZ-2	4,30	40	8,00	4,60
TPBR4345	PZ-2	4,30	45	8,00	4,60
TPBR4350	PZ-2	4,30	50	8,00	4,60
TPBR4360	PZ-2	4,30	60	8,00	4,60
TPBR4370	PZ-2	4,30	70	8,00	4,60

Tirafondo cabeza avellanada 90°. Filete 40°. Lubrificado. Bicromatado.
 Chipboard screw. Countersunk 90° head. Thread 40°. Special coating. Yellow zinc plated.
 Tirefond com cabeça escariada 90°. Filete 40°. Lubrificado. Bicromatado.

TP-TO



CÓDIGO CODE	PUNTA / BIT / PONTA 	MEDIDAS mm. SIZES			
		d	L	dk	K
TPTO30013	TX-10	3,00	13	6,00	1,54
TPTO30015	TX-10	3,00	15	6,00	1,54
TPTO30017	TX-10	3,00	17	6,00	1,54
TPTO30020	TX-10	3,00	20	6,00	1,54
TPTO30025	TX-10	3,00	25	6,00	1,54
TPTO30030	TX-10	3,00	30	6,00	1,54
TPTO35013	TX-15	3,50	13	7,00	1,84
TPTO35015	TX-15	3,50	15	7,00	1,84
TPTO35017	TX-15	3,50	17	7,00	1,84
TPTO35020	TX-15	3,50	20	7,00	1,84
TPTO35025	TX-15	3,50	25	7,00	1,84
TPTO35030	TX-15	3,50	30	7,00	1,84
TPTO35035	TX-15	3,50	35	7,00	1,84
TPTO35040	TX-15	3,50	40	7,00	1,84
TPTO35045	TX-15	3,50	45	7,00	1,84
TPTO35050	TX-15	3,50	50	7,00	1,84
TPTO40015	TX-20	4,00	15	8,00	2,10
TPTO40017	TX-20	4,00	17	8,00	2,10
TPTO40020	TX-20	4,00	20	8,00	2,10
TPTO40025	TX-20	4,00	25	8,00	2,10
TPTO40030	TX-20	4,00	30	8,00	2,10
TPTO40035	TX-20	4,00	35	8,00	2,10
TPTO40040	TX-20	4,00	40	8,00	2,10
TPTO40045	TX-20	4,00	45	8,00	2,10
TPTO40050	TX-20	4,00	50	8,00	2,10
TPTO40060	TX-20	4,00	60	8,00	2,10
TPTO40070	TX-20	4,00	70	8,00	2,10
TPTO45020	TX-20	4,50	20	9,00	2,37
TPTO45025	TX-20	4,50	25	9,00	2,37
TPTO45030	TX-20	4,50	30	9,00	2,37
TPTO45035	TX-20	4,50	35	9,00	2,37
TPTO45040	TX-20	4,50	40	9,00	2,37
TPTO45045	TX-20	4,50	45	9,00	2,37
TPTO45050	TX-20	4,50	50	9,00	2,37

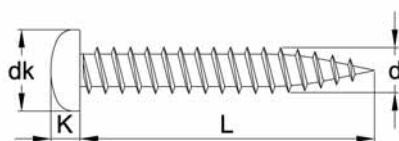
CÓDIGO CODE	PUNTA / BIT / PONTA 	MEDIDAS mm. SIZES			
		d	L	dk	K
TPTO45060	TX-20	4,50	60	9,00	2,37
TPTO45070	TX-20	4,50	70	9,00	2,37
TPTO45080	TX-20	4,50	80	9,00	2,37
TPTO50030	TX-25	5,00	30	10,00	2,66
TPTO50035	TX-25	5,00	35	10,00	2,66
TPTO50040	TX-25	5,00	40	10,00	2,66
TPTO50045	TX-25	5,00	45	10,00	2,66
TPTO50050	TX-25	5,00	50	10,00	2,66
TPTO50060	TX-25	5,00	60	10,00	2,66
TPTO50070	TX-25	5,00	70	10,00	2,66
TPTO50080	TX-25	5,00	80	10,00	2,66
TPTO50090	TX-25	5,00	90	10,00	2,66
TPTO50100	TX-25	5,00	100	10,00	2,66
TPTO50120	TX-25	5,00	120	10,00	2,66
TPTO60040	TX-30	6,00	40	12,00	3,19
TPTO60060	TX-30	6,00	60	12,00	3,19
TPTO60070	TX-30	6,00	70	12,00	3,19
TPTO60080	TX-30	6,00	80	12,00	3,19
TPTO60090	TX-30	6,00	90	12,00	3,19
TPTO60100	TX-30	6,00	100	12,00	3,19
TPTO60110	TX-30	6,00	110	12,00	3,19
TPTO60120	TX-30	6,00	120	12,00	3,19
TPTO60130	TX-30	6,00	130	12,00	3,19
TPTO60140	TX-30	6,00	140	12,00	3,19
TPTO60150	TX-30	6,00	150	12,00	3,19
TPTO60160	TX-30	6,00	160	12,00	3,19
TPTO60180	TX-30	6,00	180	12,00	3,19
TPTO60200	TX-30	6,00	200	12,00	3,19
TPTO60220	TX-30	6,00	220	12,00	3,19
TPTO60240	TX-30	6,00	240	12,00	3,19
TPTO60260	TX-30	6,00	260	12,00	3,19
TPTO60280	TX-30	6,00	280	12,00	3,19
TPTO60300	TX-30	6,00	300	12,00	3,19




Características técnicas / Technical information / Informação técnica

TR-PO

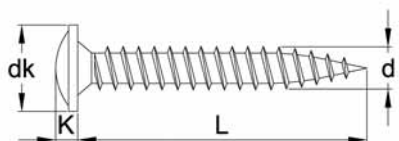
Tirafondo cabeza alomada. Filete 40°. Lubricado. Bicromatado.
Chipboard screw. Pan head. Thread 40°. Special coating. Yellow zinc plated.
Tirafond com cabeça arredondada. Filete 40°. Lubricado. Bicromatado.




CÓDIGO CODE	PUNTA / BIT / PONTA 	MEDIDAS mm. SIZES			
		d	L	dk	K
TRPO30012	PZ-1	3,0	12	6,00	2,20
TRPO30016	PZ-1	3,0	16	6,00	2,20
TRPO30020	PZ-1	3,0	20	6,00	2,20
TRPO35016	PZ-2	3,5	16	7,00	2,60
TRPO35020	PZ-2	3,5	20	7,00	2,60
TRPO35025	PZ-2	3,5	25	7,00	2,60
TRPO35030	PZ-2	3,5	30	7,00	2,60
TRPO35035	PZ-2	3,5	35	7,00	2,60
TRPO40016	PZ-2	4,0	16	8,00	2,80
TRPO40020	PZ-2	4,0	20	8,00	2,80
TRPO40025	PZ-2	4,0	25	8,00	2,80
TRPO40030	PZ-2	4,0	30	8,00	2,80
TRPO40035	PZ-2	4,0	35	8,00	2,80
TRPO40040	PZ-2	4,0	40	8,00	2,80
TRPO40050	PZ-2	4,0	50	8,00	2,80
TRPO45016	PZ-2	4,5	16	9,00	3,00
TRPO45020	PZ-2	4,5	20	9,00	3,00
TRPO45025	PZ-2	4,5	25	9,00	3,00
TRPO45030	PZ-2	4,5	30	9,00	3,00
TRPO45035	PZ-2	4,5	35	9,00	3,00
TRPO45040	PZ-2	4,5	40	9,00	3,00
TRPO45045	PZ-2	4,5	45	9,00	3,00
TRPO50020	PZ-2	5,0	20	10,00	3,20
TRPO50030	PZ-2	5,0	30	10,00	3,20
TRPO50040	PZ-2	5,0	40	10,00	3,20
TRPO50050	PZ-2	5,0	50	10,00	3,20

TT-PO

Tirafondo para tiradores. Cabeza alomada ancha con arandela. Filete 40°. Bicromatado.
Chipboard screw for handles. Pan head washer. Thread 40°. Yellow zinc plated.
Tirafond para puxadores. Cabeça arredondada, larga, com anilha. Filete 40°. Bicromatado.

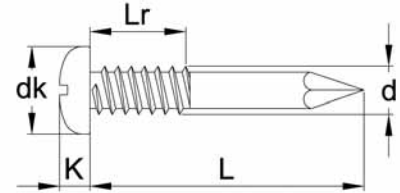
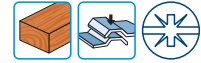


CÓDIGO CODE	PUNTA / BIT / PONTA 	MEDIDAS mm. SIZES			
		d	L	dk	K
TTPO3020	PZ-1	3,00	20	8,50	2,10
TTPO3025	PZ-1	3,00	25	8,50	2,10
TTPO3030	PZ-1	3,00	30	8,50	2,10
TTPO4020	PZ-2	4,00	20	9,00	2,70
TTPO4025	PZ-2	4,00	25	9,00	2,70
TTPO4030	PZ-2	4,00	30	9,00	2,70
TTPO4035	PZ-2	4,00	35	9,00	2,70
TTPO4040	PZ-2	4,00	40	9,00	2,70
TTPO4045	PZ-2	4,00	45	9,00	2,70

Tornillo rosca chapa con punta clavo para persianas de aluminio. Zincado.
 Nail screw for aluminium venetian blinds. Zinc plated.
 Parafuso de chapa com ponta de prego, para estores de alumínio. Zincado.

T-CLA

CÓDIGO / CODE	MEDIDAS mm. / SIZES				
	d	L	dk	K	Lr
TCLA3928	3,90	28,00	7,50	2,60	12,50



Tirafondo cabeza avellanada 90° para tapón. Filete 40°. Lubricado. Zincado.
 Chipboard screw. Countersunk 90° head with hole for cap. Thread 40°. Special coating. Zinc plated.
 Tirefond com cabeça escariada 90° para tampão. Filete 40°. Lubrificado. Zincado.

TP-TA

CÓDIGO CODE	PUNTA / BIT / PONTA 	MEDIDAS mm. SIZES			
		d	L	dk	K
TPTA40030	PZ-2	4,00	30	8,00	4,25
TPTA40040	PZ-2	4,00	40	8,00	4,25
TPTA40050	PZ-2	4,00	50	8,00	4,25
TPTA45025	PZ-2	4,50	25	9,00	4,70
TPTA45030	PZ-2	4,50	30	9,00	4,70
TPTA45035	PZ-2	4,50	35	9,00	4,70
TPTA45040	PZ-2	4,50	40	9,00	4,70
TPTA45045	PZ-2	4,50	45	9,00	4,70
TPTA45050	PZ-2	4,50	50	9,00	4,70
TPTA45060	PZ-2	4,50	60	9,00	4,70
TPTA45070	PZ-2	4,50	70	9,00	4,70
TPTA45080	PZ-2	4,50	80	9,00	4,70
TPTA50040	PZ-2	5,00	40	10,00	5,30
TPTA50050	PZ-2	5,00	50	10,00	5,30
TPTA50060	PZ-2	5,00	60	10,00	5,30
TPTA50070	PZ-2	5,00	70	10,00	5,30
TPTA50080	PZ-2	5,00	80	10,00	5,30
TPTA50090	PZ-2	5,00	90	10,00	5,30
TPTA50100	PZ-2	5,00	100	10,00	5,30

