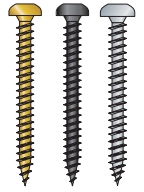


Declaration of Performance Number P 0512/14-630-1-TM

According to Regulation EUNo 305/2011

TM02 - TM05 - TM11

Manufacturer: Tecfi S.p.A. - S.S. Appia, km 193 - 81050 Pastorano (CE), Italia

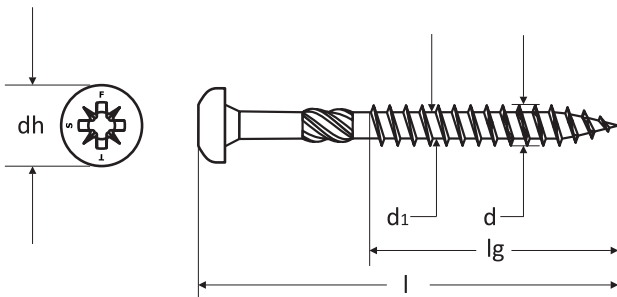


1 - Intended use

Product-type:	Fastener
Fastener type:	Timber structures - Dowel-type fasteners– Screws
Reference standard:	EN 14592:2008+A1:2012
Material:	Carbon steel
Durability:	TM02: Yellow zinc plated, 5 [µm] minimum TM05: Black zinc plated, 5 [µm] minimum TM11: inc plated, 5 [µm] minimum
Fire resistance:	No Performance Declared (NPD)
Fire reaction:	A1 according to EN13501-1
Notified test laboratory:	Zavod ZA Gradbenist Vo Slovenije, Dimiceva 12, 1000 Ljubiana, Slovenia
Initial Type Testing (ITT):	P 1210/13-630-1
AVCP System:	3

2 - Tipo di vite

Codice	Descrizione	Finitura
TM02	Pan head cross type Z recess chipboard screw with special patented thread	Yellow zinc plated and waxed
TM05	Pan head cross type Z recess chipboard screw with special patented thread	Black zinc plated and waxed
TM11	Pan head cross type Z recess chipboard screw with special patented thread	Zinc plated and waxed



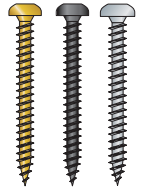
d	mm	Nominal diameter
d₁	mm	Inner thread diameter
l	mm	Overall fastener length
l_g	mm	Length of threading
d_h	mm	Head diameter
M_{y,k}	Nm	Characteristic yield moment
f_{ax,k}	N/mm ²	Characteristic withdrawal parameter
f_{head,k}	N/mm ²	Characteristic head pull-through parameter
ρ_a	N/mm ²	Associated wood density
f_{tens,k}	kN	Characteristic tensile capacity
f_{tor,k}	Nm	Characteristic torsional strength
R_{tor,k}	Nm	/ Characteristic torsional resistance to insertion into the timber

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TM02 - TM05 - TM11

Manufacturer: Tecfi S.p.A. - S.S. Appia, km 193 - 81050 Pastorano (CE), Italia



3 - TM02 / TM05 - Declared performance according to EN 14592:2008+A1:2012

Item Code	d (mm)	d ₁ (mm)	l (mm)	l _g (mm)	d _h (mm)	M _{y,k} (Nm)	f _{ax,k} (N/mm ²)	f _{head,k} (N/mm ²)	f _{tens,k} (kN)	R _{tor,k} (Nm)	f _{tor,k} (Nm)
Ø 3											
TM xx 30 012	3,00	1,80	12	8,54	5,75	1,84	21,19 (ρ _a =476)	45,71 (ρ _a =452,9)	3,08	0,27	1,84
TM xx 30 016			16	12,54							
TM xx 30 018			18	14,54							
TM xx 30 020			20	16,54							
TM xx 30 025			25	21,54							
TM xx 30 030			30	26,54							
Ø 3,5											
TM xx 35 016	3,50	2,10	16	12,14	6,80	2,14	16,94 (ρ _a =470)	53,74 (ρ _a =442,6)	3,39	0,63	2,84
TM xx 35 018			18	14,14							
TM xx 35 020			20	16,14							
TM xx 35 025			25	21,14							
TM xx 35 030			30	26,14							
TM xx 35 035			35	31,14							
TM xx 35 040	40	36,14									
Ø 4											
TM xx 40 016	4,00	2,50	16	11,57	7,80	3,07	16,17 (ρ _a =401)	46,44 (ρ _a =427,2)	5,85	0,90	3,37
TM xx 40 020			20	15,57							
TM xx 40 025			25	20,57							
TM xx 40 030			30	25,57							
TM xx 40 035			35	30,57							
TM xx 40 040			40	35,57							
TM xx 40 045			45	40,57							
TM xx 40 050			50	45,57							
TM xx 40 060	60	55,57									
Ø 4,5											
TM xx 45 020	4,50	2,70	20	15,17	8,80	3,19	14,39 (ρ _a =453)	28,34 (ρ _a =449,4)	6,66	1,10	5,03
TM xx 45 025			25	20,17							
TM xx 45 030			30	25,17							
TM xx 45 035			35	30,17							
TM xx 45 040			40	35,17							
TM xx 45 045			45	40,17							
TM xx 45 050			50	45,17							
TM xx 45 060			60	55,17							
Ø 5											
TM xx 50 020	5,00	3,00	20	14,50	9,80	5,10	15,05 (ρ _a =413)	26,27 (ρ _a =419,4)	9,09	1,65	6,86
TM xx 50 025			25	19,50							
TM xx 50 030			30	24,50							
TM xx 50 035			35	29,50							
TM xx 50 040			40	34,50							
TM xx 50 045			45	39,50							
TM xx 50 050			50	44,50							
TM xx 50 060			60	54,50							
TM xx 50 070			70	60							
TM xx 50 080			80	60							
TM xx 50 090	90	70									
Ø 6											
TM xx 60 040	6,00	3,70	40	33,15	11,25	9,88	15,25 (ρ _a =438)	20,56 (ρ _a =436,2)	13,77	3,77	12,53
TM xx 60 050			50	43,15							
TM xx 60 060			60	53,15							
TM xx 60 080			80	60							
TM xx 60 100			100	70							

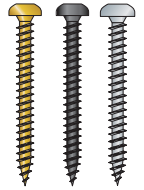
xx = TM02 / TM05

Declaration of Performance Number P 0512/14-630-1-TM

According to Regulation EUNo 305/2011

TM02 - TM05 - TM11

Manufacturer: Tecfi S.p.A. - S.S. Appia, km 193 - 81050 Pastorano (CE), Italia



3 - TM11 - Declared performance according to EN 14592:2008+A1:2012

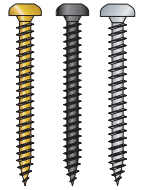
Item Code	d (mm)	d ₁ (mm)	l (mm)	l _g (mm)	d _h (mm)	M _{y,k} (Nm)	f _{ax,k} (N/mm ²)	f _{head,k} (N/mm ²)	f _{tens,k} (kN)	R _{tor,k} (Nm)	f _{tor,k} (Nm)
Ø 5											
TM 11 50 020	5,00	3,00	20	14,50	9,80	5,10	15,05 (ρ _a =413)	26,27 (ρ _a =419,4)	9,09	1,65	6,86
TM 11 50 025			25	19,50							
TM 11 50 030			30	24,50							
TM 11 50 035			35	29,50							
TM 11 50 040			40	34,50							
TM 11 50 045			45	39,50							
TM 11 50 050			50	44,50							
TM 11 50 060			60	54,50							
TM 11 50 070			70	60							
TM 11 50 080			80	60							
TM 11 50 100			100	70							
TM 11 50 120			120	70							
TM 11 50 140			140	70							

Declaration of Performance Number P 0512/14-630-1-TM

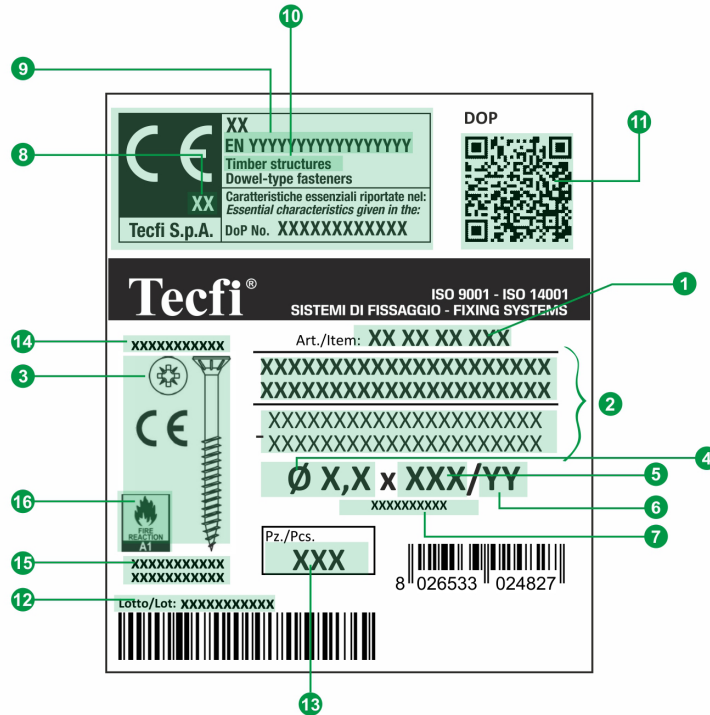
According to Regulation EUNo 305/2011

TM02 - TM05 - TM11

Manufacturer: Tecfi S.p.A. - S.S. Appia, km 193 - 81050 Pastorano (CE), Italia



4 - Label



- | | |
|---|---|
| <ul style="list-style-type: none"> 1 Codice articolo / Item Code 2 Descrizioni / Descriptions 3 Immagine / Picture 4 Diametro (d) / Diameter (d) 5 Lunghezza (L) / Length (L) 6 Spessore massimo fissabile (t_{fix}) / Maximum Thickness of fixture (t_{fix}) 7 Diametro nominale / Nominal diameter 8 Ultime due cifre dell'anno in cui il marchio è stato affisso per la prima volta / Last two digits of the year in which the marking was first affixed 9 Standard europeo applicato / European standard applied | <ul style="list-style-type: none"> 10 Uso del prodotto previsto dallo standard Europeo applicato, livello di prestazione dichiarato / Intended use of the product as laid down in the European standard applied, level of performance declared 11 Link al DoP / Link to DoP 12 Lotto / Lot Number 13 Numero di pezzi per scatola / Number of Pieces per Box 14 Misura inserto / Recess size 15 Tipo di impronta / Recess type 16 Logo Reazione al Fuoco A1 / Fire Reaction A1 Logo |
|---|---|

The performance of the product identified above is in conformity with the set of declared performances. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Name and function	Place and date of issue	Signature
President Antonio Guarino	Pastorano, June 21 st 2016	