



Declaration of Performance

TIRAFONDO

Screws for wood with hex head as DIN571 zinc plated

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Intended use or uses of the construction product according to EN14592	
Generic type	Dowel-type wood screws
Base material	Timber structures
Material	Carbon steel cl. 4.8 acc. to EN ISO898-1 - White zinc plated 5µm acc. to ISO2081
Durability	Service class 1 and 2 acc. to Eurocode 5 EN1995-1-1
Loading	Load bearing fixing on wood constructions (Ø5÷Ø6 use for based wood constructions)
Fire Reaction	A1 according to EN13501-1
No. J-30-20207-10 rev.1 issued by	SZU notified body nr.1015
On the basis of	EN14592
Under System (AVCP)	3

Declared performances according to EN14592		PERFORMANCE							
Design method Eurocode 5 - EN1995-1-1:2008 §.8.7									
ESSENTIAL CHARACTERISTICS									
d	Nominal diameter [mm]	5	6	7	8	10	12	16	
d_h	Head diameter (socket wrench) [mm]	8	10	12	13	17	19	22	
d₁	Inner thread diameter [mm]	3,4	4,1	4,8	5,5	7,0	9,0	12,0	
M_{y,k}	Characteristic yield moment [Nmm]	2299	6003	9572	16611	21495	66836	109588	
f_{ax,k}	Characteristic withdrawal parameter $\rho_k 495 \text{ kg/m}^3$ [N/mm ²]	11,5	7,7	6,5	5,1	7,4	7,4	7,0	
f_{head,k}	Characteristic head pull-through parameter $\rho_k 430 \text{ kg/m}^3$ [N/mm ²]	32,1	37,3	23,3	22,6	19,5	23,5	16,5	
f_{tens,k}	Characteristic tensile capacity [kN]	5,2	7,4	9,1	11,8	18,9	34,2	46,3	
f_{tor,k}	Characteristic torsional strength [Nm]	4	6	9	12	25	50	100	
f_{tor,k}/R_{tor,k}	Characteristic ratio torsional $\rho_k 450 \text{ kg/m}^3$ [-]	1,1	1,4	2,4	1,9	1,7	1,6	2,9	

The above performances apply for the following article numbers:

d ¹⁾ [mm]	l ²⁾ [mm]	l _R ³⁾ [mm]	Cod.	d ¹⁾ [mm]	l ²⁾ [mm]	l _R ³⁾ [mm]	Cod.	d ¹⁾ [mm]	l ²⁾ [mm]	l _R ³⁾ [mm]	Cod.	d ¹⁾ [mm]	l ²⁾ [mm]	l _R ³⁾ [mm]	Cod.
5	25	15	05200b05025	7	30	18	05200b07030	8	100	60	05200b08100	10	180	100	05200b10180
	30	18	05200b05030		40	24	05200b07040		110	66	05200b08110		200	100	05200b10200
	35	21	05200b05035		45	27	05200b07045		120	72	05200b08120		220	100	05200b10220
	40	24	05200b05040		50	30	05200b07050		130	78	05200b08130		240	100	05200b10240
	45	27	05200b05045		60	36	05200b07060		140	84	05200b08140		250	100	05200b10250
	50	30	05200b05050		70	42	05200b07070		150	90	05200b08150		260	100	05200b10260
	60	36	05200b05060		80	48	05200b07080		160	96	05200b08160		280	100	05200b10280
	70	42	05200b05070		100	60	05200b07100		180	100	05200b08180		300	100	05200b10300
6	20	12	05200b06020	8	120	72	05200b07120	10	200	100	05200b08200	12	50	30	05200b12050
	25	15	05200b06025		130	78	05200b07130		220	100	05200b08220		60	36	05200b12060
	30	18	05200b06030		140	84	05200b07140		240	100	05200b08240		70	42	05200b12070
	35	21	05200b06035		150	90	05200b07150		250	100	05200b08250		80	48	05200b12080
	40	24	05200b06040		160	96	05200b07160		260	100	05200b08260		90	54	05200b12090
	45	30	05200b06045		170	100	05200b07170		280	100	05200b08280		100	60	05200b12100
	50	30	05200b06050		180	100	05200b07180		300	100	05200b08300		110	66	05200b12110
	60	36	05200b06060		190	100	05200b07190		40	24	05200b10040		120	72	05200b12120
	70	42	05200b06070	200	100	05200b07200	50	30	05200b10050	130	78	05200b12130			
	80	48	05200b06080	210	100	05200b07210	60	36	05200b10060	140	84	05200b12140			
	90	54	05200b06090	220	100	05200b07220	70	42	05200b10070	150	90	05200b12150			
	100	60	05200b06100	25	15	05200b08025	80	48	05200b10080	160	96	05200b12160			
	110	66	05200b06110	30	18	05200b08030	90	54	05200b10090	180	100	05200b12180			
	120	72	05200b06120	35	21	05200b08035	100	60	05200b10100	200	100	05200b12200			
	130	78	05200b06130	40	24	05200b08040	110	66	05200b10110	220	100	05200b12220			
	140	84	05200b06140	50	30	05200b08050	120	72	05200b10120	240	100	05200b12240			
150	90	05200b06150	60	36	05200b08060	130	78	05200b10130	250	100	05200b12250				
160	96	05200b06160	70	42	05200b08070	140	84	05200b10140	260	100	05200b12260				
180	100	05200b06180	80	48	05200b08080	150	90	05200b10150	280	100	05200b12280				
200	100	05200b06200	90	54	05200b08090	160	96	05200b10160	300	100	05200b12300				

¹⁾ Nominal diameter; ²⁾ Length; ³⁾ Thread length.

d ¹⁾ [mm]	l ²⁾ [mm]	l _g ³⁾ [mm]	Cod.
12	320	100	05200b12320
	340	100	05200b12340
	360	100	05200b12360
	380	100	05200b12380
	400	100	05200b12400
16	120	72	05200b16120
	140	84	05200b16140
	160	96	05200b16160
	180	100	05200b16180
	200	100	05200b16200
	220	100	05200b16220

¹⁾ Nominal diameter; ²⁾ Length; ³⁾ Thread length.

We inform you that Friulsider is classified in the [EC 1907/2006 Reach Directive](#) as a Downstream-user of substances.

The product supplied does not contain substances classified as SVHC according to the Candidate List in a concentration equal or greater than 0.1% (weight / weight). Article 31 is not applicable to the present product.

The performances of the product identified by the above identification code are in conformity with the declared performance.

This declaration of performance is issued under the sole responsibility of **Friulsider SpA**.

Signed for and behalf of the manufacturer by:

Name and functions	Place and date of issue	Signature
Eng. Vittorio Pilla General Director	San Giovanni al Natisone, 04-11-2013	