

EC DECLARATION OF PERFORMANCE

No. 202405052

According to

Construction Products Regulation : (EU) No. 305/2011

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Declare under our sole responsibility that the product:

Product: Chipboard screws

Intended use: For timber structure load.

Order number: PI-202405052/ O-N2401156

Product identification and the initial-type findings: Refer to Annex I (Page 2)

To which this declaration relates is in conformity with

System 3 of (EU) No. 305/2011 and EN 14592:2008+A1:2012

and are tested by

STROJÍRENSKÝ ZKUŠEBNÍ ÚSTAV, s. p. (Notified Body No. 1015)

The reference test report no.:

ϕ 2.5mm / No. 30-10054/1 ϕ 3.0mm / No. 30-10054/2 ϕ 3.5mm / No. 30-10054/3
 ϕ 4.0mm / No. 30-10054/4 ϕ 4.5mm / No. 30-10054/5 ϕ 5.0mm / No. 30-10054/6
 ϕ 6.0mm / No. 30-10054/7 ϕ 8.0mm / No. 30-10054/8 ϕ 10.0mm / No. 30-10054/9

Essential characteristics	Performance	Harmonised technical specification
Mechanical resistance and stability	Reference to Annex 1	EN 14592:2008+A1:2012
Safety in case of fire	A1	EN 13501-1:2007+A1:2009
Hygiene, health and the environment	NPD	-
Safety and accessibility in use	NPD	-
Protection against noise	NPD	-
Energy economy and heat retention	NPD	-
Sustainable use of natural resources	NPD	-



Date: 2024/10/04

Position: Q.C. MANAGER

Signature: Thomas Chen

ANNEX I Product identification and the initial-type testing findings

Table 1:

Product	Length	Characteristic yield moment $M_{y,k} [Nmm]$		characteristic withdrawal parameter $f_{ax,k} [N/mm^2]$		Characteristic head pull-through parameter $f_{head,k} [N/mm^2]$	Characteristic tensile capacity $f_{tens,k} [kN]$	Characteristic torsional ratio	
				Loading across the fibre	Loading along the fibre				
Screw ϕ 2.5 mm	10-40 mm	1 470		16,71	13,27	See Table 2	2,80	3,04	
Screw ϕ 3.0 mm	12-50 mm	2 583		17,00	11,09		3,69	2,82	
Screw ϕ 3.5 mm	14-60 mm	2 736		17,40	12,05		5,37	2,39	
Screw ϕ 4.0 mm	16-80 mm	4 252		17,13	14,31		6,38	2,85	
Screw ϕ 4.5 mm	18-90 mm	5 692		17,51	13,76		7,93	3,02	
Screw ϕ 5.0 mm	20-150 mm	7 718		17,32	12,12		9,41	3,34	
Screw ϕ 6.0 mm	24-300 mm	12 773		17,73	11,59		14,67	3,23	
Screw ϕ 8.0 mm	32-600 mm	30 672		15,11	11,98		24,80	3,26	
Screw ϕ 10.0 mm	40-600 mm	Thread section	Smooth section	14,73	10,23		See Table 2	32,56	3,66
		42 574	74 386						
Material	Carbon Steel SAE1018/SAE1022								
Corrosion resistance	Zinc plated / yellow zinc plated (service class 1 acc. to EN 1995-1-1)								

Table 2:

Characteristic head pull-through parameter $f_{head,k}[N/mm^2]$			
Head Type	Double Flat	pan	Oval
Screw ϕ 2.5 mm	25,29	29,29	24,74
Screw ϕ 3.0 mm	24,23	28,04	24,36
Screw ϕ 3.5 mm	24,14	29,77	23,79
Screw ϕ 4.0 mm	22,07	27,46	22,57
Screw ϕ 4.5 mm	22,73	25,98	23,10
Screw ϕ 5.0 mm	21,23	26,54	20,58
Screw ϕ 6.0 mm	23,66	27,75	23,44
Screw ϕ 8.0 mm	22,70	~	~
Screw ϕ 10.0 mm	22,02	~	~