

DECLARATION OF PERFORMANCE

Nr DoP-EN14592-R-DSX-A2

1. Unique identification code of the product type: R-DSX-A2

2. Intended use: Wood construction products. Fasteners for structural wood products (wood screws).

3. Producer: RAWLPLUG S.A., ul. Kwidzyńska 6, 51-416 Wrocław, Polska

4. System(s) of assessment and verification of constancy of performance: System 3

5. Harmonized standard EN 14592+A:2011; 2012-08-01

Raport number: LZKO2-0232811 6lR83NZK

6. Declared performance characteristics:

Characteristic yiel	d moment			
Screw marking	Measurement data is based on a test report no.	Characteristic yield moment M _{y,k} [Nmm]	Expanded measurement uncertainty U _{Mv,k} [Nmm]	
R-DSX-40-A2	UP-1	5162	229	
R-DSX-45-A2	UP-2	7064	278	
R-DSX-50-A2	UP-3	9345	331	
Notes: calculation	model adopted in ac	cordance with PN-I	EN 1995-1-1:2010	
Extraction resistan	ce (perpendicular to	o fibers)		
Screw marking	Measurement data is based on a test report no.	Characteristic perpendicular extraction resistance f _{ax,k} [N/mm 2]	Expanded measurement uncertainty U _{fax,k} [N/mm 2]	
R-DSX-40-A2	WP-1	24,12	2,14	
R-DSX-45-A2	WP-2	22,05	2,26	
R-DSX-50-A2	WP-3	20,67	1,64	
kg/m3, which was o dimensions: 120x4 ⁻ introduced using a	ere performed on C2 conditioned at 20°C of 1x41 ÷ 150x55x55 m power screwdriver, accordance with PN	and 65% humidity, m, number of samp testing time: 90 to	wood sample les: 10, samples were	
Withdrawal streng	th (parallel to fibers			
Screw marking	Measurement data is based on a test report no.	Characteristic parallel withdrawal strength f _{ax,k} [N/mm 2]	Expanded measurement uncertainty U _{fax,k} [N/mm 2]	
R-DSX-40-A2	WR-1	17,12	1,41	
R-DSX-45-A2	WR-2	14,00	0,95	
R-DSX-50-A2	WR-3	11,79	0,87	



Characteristic yield moment Notes: the tests were performed on C27 timber with a density of pk = 370kg/m3, which was conditioned at 20°C and 65% humidity, wood sample dimensions: 60x40x62 ÷ 75x50x85 mm, number of samples: 10, samples were introduced using a power screwdriver, testing time: 90 to 110 s, the samples were distributed in accordance with PN-EN 1382:2000, calculations were based on the diameter d = 4; 4.5; 5 mm and the length of lp = 21; 24; 30 mm Characteristic head pull-through strength Measurement Characteristic Expanded data head pull-through measurement Screw marking is based on a test strength $f_{head,k}$ uncertainty U_{fhead.k} report no. [N/mm 2] [N/mm 2] R-DSX-40-A2 P-1 30.64 2,85 R-DSX-45-A2 P-2 31,64 3,94 R-DSX-50-A2 P-3 37.61 4.05 Notes: the tests were performed on C24 timber with a density of pk = 350kg/m3, which was conditioned at 20°C and 65% humidity, wood sample dimensions: 112x112x28 ÷ 140x140x35 mm, number of samples: 10, samples were introduced using a power screwdriver, testing time: 90 to 110 s, the samples were distributed in accordance with PN-EN 1383:2000, calculations were based on the diameter d = 4; 4.5; 5 mm and the diameter of head dh = 6; 6.7; 7.6 mm Characteristic tensile strength Expanded Measurement Characteristic data tensile strength measurement Screw marking uncertainty U_{ftens k} is based on a test f tens,k [kN] report no. [kN] R-DSX-40-A2 R-1 6,64 0,22 0,36 R-DSX-45-A2 R-2 7,55 R-DSX-50-A2 R-3 9,29 0,28 Notes: testing time: 10 ± 5 s Characteristic torsional strength Measurement Characteristic Expanded torsional strength measurement data Screw marking uncertainty f is based on a test $\mathbf{f}_{tor,k}$ report no. [Nm][Nm] R-DSX-40-A2 0,20 M-1 3,43 R-DSX-45-A2 M-2 5,20 0,28 R-DSX-50-A2 M-3 6,68 0,49 Characteristic screw-in resistance Characteristic Measurement Expanded Characteristic screw-in data measurement torqueresistance resistance Screw marking uncertainty R_{tor.k} is based on a test ratio $R_{tor,k}$ [Nm] $f_{tor,k}/R_{tor.k}$ report no. [MM] R-DSX-40-A2 O-1 1,39 0,16 2,5 R-DSX-45-A2 2,33 0,18 2,2

Notes: the tests were performed on C27 timber with a density of pk = 370 kg/m3, which was conditioned at

0,29

2,6

2,59

20°C and 65% humidity, samples were introduced using a power screwdriver

0-2

0-3

R-DSX-50-A2

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

Sławomir Jagła Wrocław, 2016-09-20

PEŁNOMOCNIK SYSTEMU ZARZĄDZANIA JAKOŚCIĄ O.O.O.O. mgr Sławomir Jagla

