

OPTIMAXX[®]

OPTIMUM DESIGN, MAXIMUM PERFORMANCE

UK
CA

DECLARATION OF PERFORMANCE



Unique 24 grooves self countersink into all materials without the need to counter bore

Double reinforced collar strengthens underside of the head



SHARP SAWTOOTH

Sharp saw-tooth formation cut out of the bottom threads enable fast penetration without a pilot hole



WIDE DEEP THREAD

Sharp, wide, deep thread formation coated with a unique lubricant facilitates fast continuous insertion



RAZOR SHARP POINT

Razor sharp point with the thread starting at the very tip gives you an immediate start even in the hardest, smoothest surfaces



24 SLOT COUNTERSINK



WIDE DEEP THREAD



SHARP SAWTOOTH



RAZOR SHARP POINT

EXTREME PERFORMANCE WOOD SCREWS

DECLARATION OF PERFORMANCE

in accordance with the Construction Products Regulations

DoP Ref; GF201331223-1/1

Release: 001



Product Type: Optimaxx High Performance Woodscrews 3-6mm Diameter

Identification: Bright zinc plated and yellow passivated

Intended Use: General light construction and joinery in particular timber to timber applications

Manufacturer/ Importer: ROYD
Saxon House,
23 Springfield Lyons Approach,
Springfield,
Chelmsford,
CM2 5LB

**Notified Testing Body:
for ITT** Zavod ZA1404
Gradbenistvo
Slovenije

Slovenian National building & Civil
Engineering institute

Tested To: EN14592:2008+A1:2012
Test values not specific to fastener length

Essential characteristic		Performance						Harmonized Technical Specification
		M3.0 flat	M3.5 flat	M4.0 flat	M4.5 flat	M5.0 flat	M6.0 flat	
Geometry	d[mm]	2.90	3.42	3.92	4.41	4.91	5.90	EN
	L[mm]	30-40	30-50	30-80	30-80	30-120	40-200	
Material		C1022						EN 10083-2
Characteristic yield moment $M_{y,k}$ [NM]		1.32	1.80	2.93	4.61	4.53	7.26	EN 409:2009
Characteristic withdrawal parameter $f_{ax,k}$ [N/mm ²]		20.43 $\rho=654$ kg/m ³	29.25 $\rho=653$ kg/m ³	22.82 $\rho=419$ kg/m ³	31.73 $\rho=544$ kg/m ³	28.25 $\rho=374$ kg/m ³	34.91 $\rho=530$ kg/m ³	EN 1382:1999
Characteristic head pull-through parameter $f_{head,k}$ [N/mm ²]		36.70 $\rho=453$ kg/m ³	39.54 $\rho=430$ kg/m ³	35.67 $\rho=420$ kg/m	19.70 $\rho=343$ kg/m	30.45 $\rho=327$ kg/m ³	17.37 $\rho=351$ kg/m ³	EN 1383:1999
Characteristic tensile capacity $f_{tens,k}$ [kN]		4.08	4.43	6.23	8.33	8.87	13.70	EN 1383:1999
Characteristic torsional ratio		1.96	1.50	1.50	1.50	1.51	1.89	EN
Corrosion protection		Fe/Zn 12c						EN 1995-1-1

ROYD No.10345480

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OPTIMAXX HIGH PERFORMANCE WOOD SCREWS 3.0mm, 3.5mm, 4.0mm, 4.5mm, 5.0mm, 6.0mm

Have been tested by the following independent testing organisation:

- Notified Body 1404

Slovenian National building, & Civil Engineering institute 1404

And that they have performed initial type testing under system 3, Annex V of the regulation (EU) no. 305/2011 (Construction Products Regulation), with the reference to the harmonised European standard (hEN) BS EN 14592:2008+A1:2012 (Timber structures - Dowel type fasteners - Requirements) for nails intended for the use in "load bearing timber structures"

This declaration of conformity is valid until there is a significant change in the product and declared characteristics. i.e. raw material or change in production process.

OPTIMAXX HIGH PERFORMANCE WOOD SCREWS

Diameter 3.0mm, 3.5mm, 4.0mm, 4.5mm, 5.0mm, 6.0mm.

Signed By:

A handwritten signature in black ink, appearing to be 'N. Shimwell', written over a light blue background.

Name: Norman Shimwell

Position: Sales Director

Review Date: 24/06/2022

Test Date: 18/12/2013

Saxon House, 23 Springfield Lyons Approach, Springfield, Chelmsford CM2 5LB
Reg: 10345480

ROYD No.10345480