



# RED HORSE

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*Joinery Woodscrew Range*

ZYTEC™ Woodscrews

## DECLARATION OF PERFORMANCE



**COASTAL**

*Shaping the future.*

# RED HORSE ZYTEC™ WOODSCREWS

## DECLARATION OF PERFORMANCE



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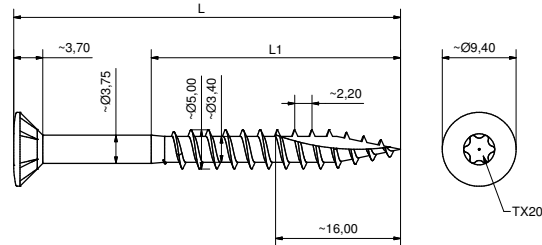
*Shaping the future.*

**MG/PG 066078**

**RED HORSE®**

**PRODUCT DATA**

Technical data	
Head:	Ø9.4 mm counter sunk head with ribs and TX20 recess
Shaft:	L - L1
Material:	Hardened steel
Surface treatment:	ZYTEC™+
Corrosivity category:	C3 according to EN ISO 12944-2



**DESIGN RESISTANCE**

The design resistance of the screw is determined in accordance with initial type test (ITT) 902 8376 000/2 and EN 1995-1-1+A1:2012.

The resistance when loaded in tension,  $N_{Rd}$ , appears from the table on the right and is the minimum value of the pull-out resistance of the supporting object, the pull-through resistance of the fixed object, and the tension resistance of the screw.

Design resistance when loaded in tension, $N_{Rd}$ [kN]							
L	50	60	70	80	90	100	110
t	0,93	0,93	0,93	0,93	0,93	0,93	0,93
20	-	0,93	0,93	0,93	0,93	0,93	0,93
24	-	-	0,93	0,93	0,93	0,93	0,93
28	-	-	-	0,93	0,93	0,93	0,93
32	-	-	-	-	0,93	0,93	0,93
36	-	-	-	-	-	0,93	0,93
40	-	-	-	-	-	-	0,93
50	-	-	-	-	-	-	0,93

The theoretical values must be considered indicative since the conditions of the construction site may vary. Practical tests of the specific application are recommended for verification of the listed values.

Assumptions:

Supporting object: Structural timber, C24 ( $\rho_k = 350 \text{ kg/m}^3$ )  
 Fixed object: Steel S280GD - EN 10346

L = Length of the screw [mm]  
 t = Thickness of the fixed object [mm]

All resistances are stated in kN (1 kN  $\approx$  100 kg)  
 Safety factor:  $\gamma_M = 1.35$ ,  $k_{mod} = 0.90$

**CE MARKING**

CE approval is carried out in accordance with the harmonized standard for dowel-type fasteners – Timber structures: EN 14592:2008+A1:2012.

The initial type test (ITT) is performed by a certified third-party institute, also documented factory product control (FPC), as required in the European standard above.

Mechanical strengths and stiffness (characteristic)			
Yield moment	$M_{y,k}$	[Nm]	6.6
Withdrawal parameter	$f_{w,k}$	[N/mm <sup>2</sup> ]	15.2
Head pull-through parameter	$f_{thead,k}$	[N/mm <sup>2</sup> ]	15.8
Tensile capacity	$f_{tens,k}$	[kN]	9.0
Torsional ratio	$f_{tor,k} / R_{tor,k} \geq 1,5$		

Vers. 171121  
No liability for printing errors

TECHNICAL DATA SHEET

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**MG/PG 066078**

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## DECLARATION OF PERFORMANCE

In compliance with 'REGULATION (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 laying down harmonised conditions for the marketing of construction products' (the Construction Products Regulation or CPR), it is stated that the performance of the construction product identified below is in conformity with the declared performance.

Fastening screws for use in load bearing timber structures:

**MG:06 PG:6078 | SPS CSH-R 5.0 X L/L1 TX20 TC**

(Main Group # Product Group # | Item name)

The screws mentioned above are packed in branded cartons clearly marked with CE according to EN 14592:2008+A1:2012. For specification of the intended use and declared performance of the product please refer to the technical data sheet.

Placed on the market by:

**RED HORSE | dissing as**

Niels Bohrs Vej 25-27, Stilling  
DK-8660 Skanderborg, Denmark

(Name / address)

Harmonised standard: EN 14592:2008+A1:2012  
ITT report: 902 8376 000/2  
Notified body no.: 0672  
System of AVCP: System 3

This declaration of performance is issued under the sole responsibility of the manufacturer identified above.



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Company stamp  
RED HORSE | dissing as

2014-11-01

Date of issue

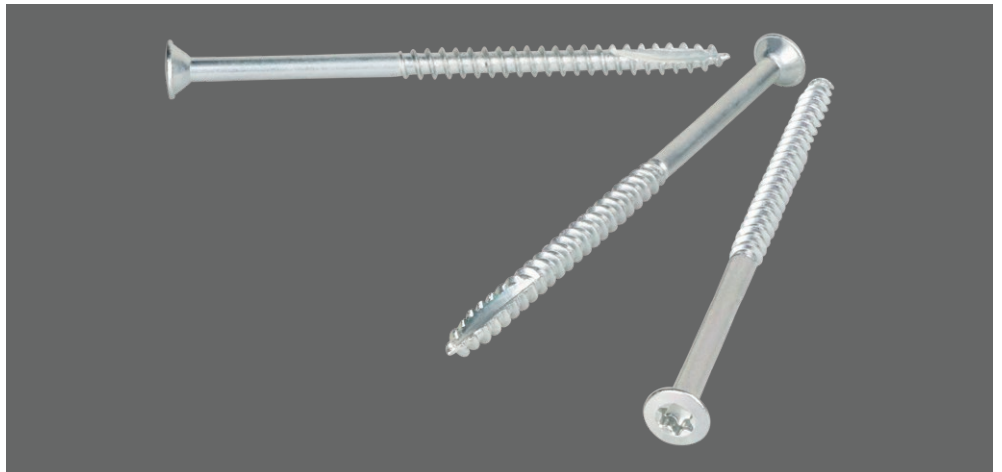
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DECLARATION OF PERFORMANCE

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