

Red Horse[®] Timber Screws

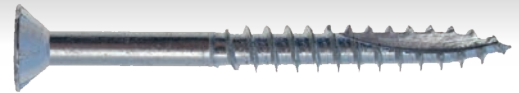
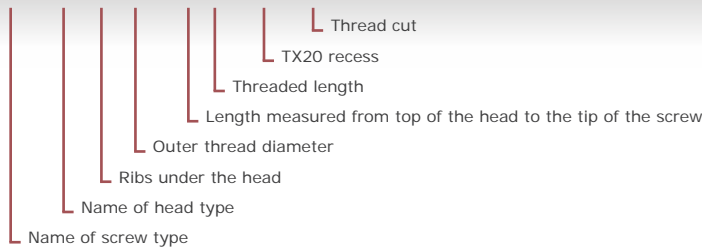
Zytec[™] Finish

Declaration of Performance



RED HORSE[®]

SPS CSH-R 5.0 X L/L1 TX20 TC



Effective length



Hexhead Recess



Steel quality

PRODUCT RANGE

Part Number	Item Name	Thread (mm)	Length L (mm)	Shaft (mm)	Head (mm)
FX-RHF550-ZY	SPS CSH-R 5.0x50/30 TX20	Ø5.0	50	20	Ø9.4 TX20
FX-RHF560-ZY	SPS CSH-R 5.0x60/36 TX20		60	24	
FX-RHF570-ZY	SPS CSH-R 5.0x70/42 TX20		70	28	
FX-RHF580-ZY	SPS CSH-R 5.0x80/48 TX20		80	32	
FX-RHF590-ZY	SPS CSH-R 5.0x90/54 TX20		90	36	
FX-RHF5100-ZY	SPS CSH-R 5.0x100/60 TX20		100	40	
FX-RHF5110-ZY	SPS CSH-R 5.0x110/60 TX20		110	50	

ADVANTAGES

- Point with special thread cut for better threading in hard wood
- Slightly raised countersunk head with ribs (CSH-R)
- Surface treated with ZYTEC[™]+ for good corrosion protection



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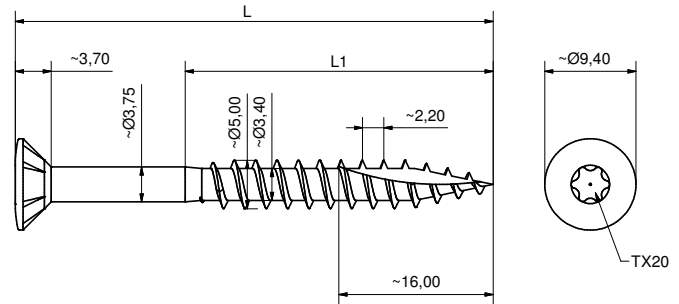


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PRODUCT DATA

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.

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: $\gamma_M = 1.35$, $k_{mod} = 0.90$

Design resistance when loaded in tension, N_{Rd} [kN]							
t \ L	50	60	70	80	90	100	110
20	0.93	0.93	0.93	0.93	0.93	0.93	0.93
24	-	0.93	0.93	0.93	0.93	0.93	0.93
28	-	-	0.93	0.93	0.93	0.93	0.93
32	-	-	-	0.93	0.93	0.93	0.93
36	-	-	-	-	0.93	0.93	0.93
40	-	-	-	-	-	0.93	0.93
50	-	-	-	-	-	-	0.93

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	$f_{ax,k}$	[N/mm ²]	15.2
Head pull-through parameter	$f_{head,k}$	[N/mm ²]	15.8
Tensile capacity	$f_{tens,k}$	[kN]	9.0
Torsional ratio	$f_{tor,k} / R_{tor,k} \geq 1,5$		

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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.

Allan Klingenberg Larsen
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RED HORSE®

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2014-11-01

Date of issue

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