



**Document no: CE-2002142-A3**

Wood Screw Countersunk Impreg®+ is for outdoor use. The screw has a serrated thread which will reduce the resistances when mounting. It has a cut point which prevents cracking. Screws in diameter 5 & 6 mm, from 80 mm or longer has an additional milling thread to further reduce the resistances.

**Dimensions:**

d 4,5 mm L 25 - 70 mm  
d 5,0 mm L 50 - 120 mm  
d 6,0 mm L 60 - 180 mm

**Material:**

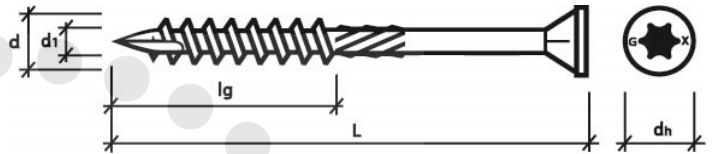
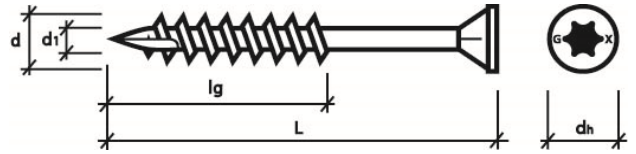
EN ISO 16120

**Treatment:**

Impreg®+ min. 12 µm acc. to SC0204-11, Corrosion Class C4

**Socket in screw head:**

TX20 - TX25


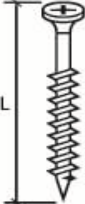
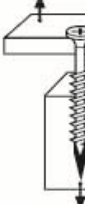
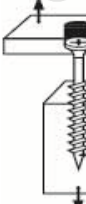




## DIMENSIONS

IMPREG®+					
Name	Nominal diameter d [mm]	Inner threaded diameter d <sub>1</sub> [mm]	Total length L [mm]	Threaded length l <sub>g</sub> [mm]	Head diameter d <sub>h</sub> [mm]
4,5x25	4,5	2,8	25,0	20,0	8,4
4,5x30			30,0	25,0	
4,5x40			40,0	35,0	
4,5x50			50,0	30,0	
4,5x60			60,0	35,0	
4,5x70			70,0	40,0	
5,0x50			5,0	3,2	
5,0x60	60,0	35,0			
5,0x70	70,0	40,0			
5,0x80	80,0	40,0			
5,0x90	90,0	45,0			
5,0x100	100,0	60,0			
5,0x120	120,0	60,0			
6,0x60	6,0	3,8			60,0
6,0x70			70,0	40,0	
6,0x80			80,0	40,0	
6,0x90			90,0	45,0	
6,0x100			100,0	60,0	
6,0x120			120,0	70,0	
6,0x140			140,0	70,0	
6,0x160			160,0	70,0	
6,0x180			180,0	70,0	

# CHARACTERISTIC LOAD CAPACITY

IMPREG <sup>®</sup> +							
Name	Nominal diameter d [mm]	Total length L [mm]	Withdrawal parameter $f_{ax,k}$ [N/mm <sup>2</sup> ]*	Head pull-through parameter $f_{head,k}$ [N/mm <sup>2</sup> ]*	Yield moment $M_{y,k}$ [Nmm]	Tensile capacity $f_{tens,k}$ [kN]	Torsional ratio $F_{tor,k}/R_{tor,k} \geq 1,5$
4,5x25	4,5	25,0	16,4	14,4	5753	6,8	2,7
4,5x30							
4,5x40							
4,5x50							
4,5x60							
4,5x70							
4,5x80							
5,0x50	5,0	50,0	10,9	15,4	7800	9,9	3,3
5,0x60							
5,0x70							
5,0x80							
5,0x90							
5,0x100							
5,0x120							
6,0x60	6,0	60,0	14,9	17,1	14109	14,5	3,3
6,0x70							
6,0x80							
6,0x90							
6,0x100							
6,0x120							
6,0x140							
6,0x160							
6,0x180							

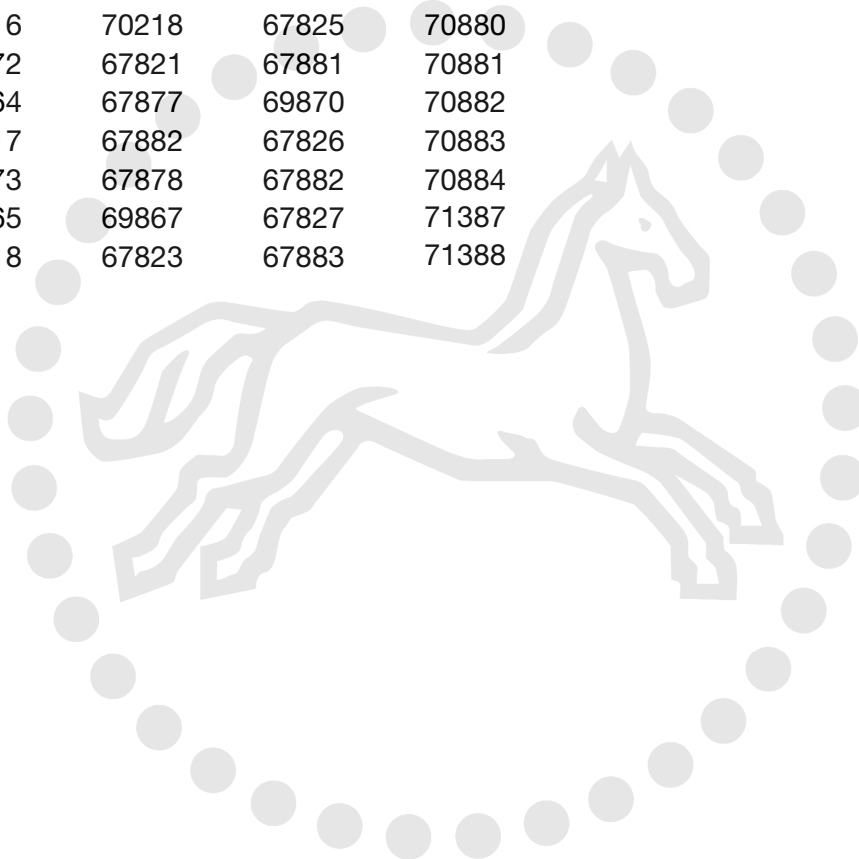
\* The withdrawal parameter  $f_{ax,k}$  and the head pull-through parameter  $f_{head,k}$  is tested in wood with a characteristic density of  $\rho_k=350$  kg/m<sup>3</sup> (C24). When wood with another density is used values shall be multiplied with  $\rho_k/350$ .

## PRODUCT IDENTIFICATION

Following articles which are sold in the brand name GUNNEBO FASTENING are covered by this Declaration of Performance:

### ARTICLE NUMBER

67784	67814	67874	67879	67847	71389
67862	67870	69866	69868	67848	71391
67785	67815	67819	67824	70877	71390
67865	67871	67875	67880	70878	71392
67810	69863	67820	69869	70879	
67866	67816	70218	67825	70880	
67811	67872	67821	67881	70881	
67867	69864	67877	69870	70882	
67812	67817	67882	67826	70883	
67868	67873	67878	67882	70884	
67813	69865	69867	67827	71387	
67869	67818	67823	67883	71388	



**The manufacturer declares for:**

**Wood screw countersunk, Impreg<sup>®</sup>+, diameter 4,5 & 5,0 & 6,0 mm**

1. Product is in accordance with EN 14592:2008 "Timber Structures – Dowel-type fasteners – Requirements".
2. Initial Type Testing was performed to confirm essential characteristic values in accordance to table ZA.1 in EN 14592. Declared values accompanies with the CE mark on each package and in this technical document.
3. Initial Type testing is performed by  
  
DTI, Danish Technological Institute. Notified body 1235  
DK 474099  
  
Strojirensky Zkusebni Ustav s.p. Notified body 1015  
30-9836/13  
30-9836/19
4. For this product the compliance with the conditions of the Annex ZA in EN 14592 are accomplished.
5. A FPC system is established and maintained under the responsibilities of the manufacturer.

**Impreg<sup>®</sup>+ min. 12 µm, type 1. Corrosion class C4.**

The system of attestation of conformity for Timber fasteners used for structural timber products is 3.

This declaration of conformity is valid until any changes in the product, the raw material or the production process is performed, which would significantly change the declared characteristics.

*Gunnebo 2013-02-01, revised 2014-09-16*



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Head of Operation, Claes Arnesson



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