

ANCHOR SCREW

ELECTRO GALVANIZED/ IMPREG®+



Declaration of Performance



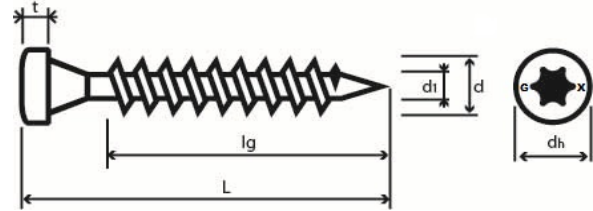
Document no: CE-200004-A1
Used for fitting wood connectors.

Dimensions:
d: 5,0 mm L: 31 - 45 mm

Material:
EN ISO 16120-2

Treatment:
Electro galvanized: min. 20 µm
Impreg®+: SC0204-11, min. 12 µm (corrosion class C4)

Screw head:
TX20



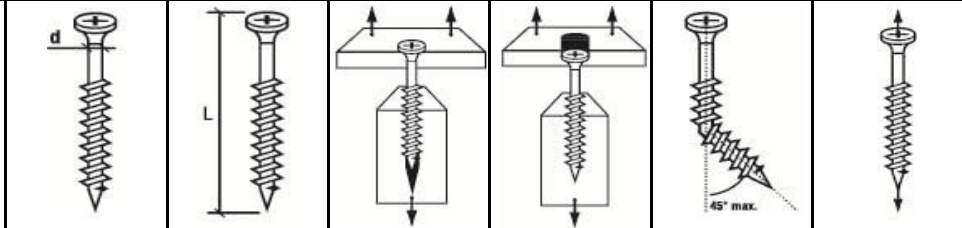
DIMENSIONS

ELECTRO GALVANIZED / IMPREG®+						
Name	Nominal diameter d [mm]	Total length L [mm]	Threaded length lg [mm]	Inner threaded diameter d ₁ [mm]	Head diameter d _h [mm]	Head thickness t [mm]
5,0x31*	4,9	33,4	26,0	3,4	8,0	2,4
5,0x35		37,4	30,0			
5,0x40		42,4	35,0			
5,0x45		47,4	40,0			
5,0x50		52,4	45,0			

* Marked dimension is not CE marked. It does not meet the requirement $l_g \geq 6d$ (EN 14592)

CHARACTERISTIC LOAD CAPACITY

ELECTRO GALVANIZED / IMPREG®+							
Name	Nominal diameter d [mm]	Total length L [mm]	Withdrawal parameter $f_{ax,k}$ [N/mm ²] ^{***}	Head pull-through parameter $f_{head,k}$ [N/mm ²] ^{***}	Yield moment $M_{y,k}$ [Nmm]	Tensile capacity $f_{tens,k}$ [kN]	Torsional ratio $F_{tor,k}/R_{tor,k} \geq 1,5$
5,0x31*	4,9	33,4	10,9	NPD**	6800	8,3	2,4
5,0x35		37,4	9,8				
5,0x40		42,4	10,3				
5,0x45		47,4	9,8				
5,0x50		52,4	9,8				



* Dimension is not CE marked. It does not meet the requirement $l_g \geq 6d$ (SS-EN 14592)

** "No Performance Declared"

*** 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/m³ (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

7254	7256
7255	7257

The manufacturer declares for:

Anchor screw, electro galvanized 20 µm, diameter 4,9 mm

- Product is in accordance with EN 14592:2008 "Timber Structures – Dowel-type fasteners – Requirements".
- 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.
- Initial Type Testing is performed by DTI, Danish Technological Institute.
 $f_{tens,k}$: report DK 426382-1, Taastrup, 2011-04-29.
 $f_{tor,k}$ and $R_{tor,k}$: report DK 426382-2, Taastrup, 2011-04-29.
 $M_{y,k}$: report DK 426382-3, Taastrup, 2011-05-05.
 $f_{ax,k}$: Report DK 432630-2, and report DK 426382-4, Taastrup, 2011-05-12.
 $f_{u,k}$: report DK 1302213, Taastrup, 2011-06-27
- For this product the compliance with the conditions of the Annex ZA in EN 14592 are accomplished.
- A FPC system is established and maintained under the responsibilities of the manufacturer.

Electro galvanized min. 20 µm. Service Class 2

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 2012-11-28, revised 2013-02-01

Head of Operation, Claes Arnesson



GBO Fastening systems AB
Bruksvägen 2
SE 590 93 Gunnebo
Sweden



PRODUCT IDENTIFICATION

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

ARTICLE NUMBER

69836
69815
69817

The manufacturer also declares for:

Anchor screw, Impreg®+, corrosion class C4, diameter 4,9 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.
 $f_{tens,k}$: report DK 426382-1, Taastrup, 2011-04-29.
 $f_{tor,k}$ and $R_{tor,k}$: report DK 426382-2, Taastrup, 2011-04-29.
 $M_{y,k}$: report DK 426382-3, Taastrup, 2011-05-05.
 $f_{ax,k}$: Report DK 432630-2, and report DK 426382-4, Taastrup, 2011-05-12.
 $f_{u,k}$: report DK 1302213, Taastrup, 2011-06-27
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®+, min 12 µm

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.

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