

## PRODUCT IDENTIFICATION

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

Article number

**HL25AAAF**

**HL27AABF**

**HL29APBF**

**HL29AABF**

**HL29ASBFR**

**HL59AABSR**

**HL59ASBSR**

The manufacturer declares for:

**Round cross-section ring shank nail, diameter 3,1 mm up to 90 mm**

Product is in accordance with EN 14592:2008 + A1:2012 "Timber Structures - Dowel-type fasteners - Requirements"

Initial Type Testing was performed to confirm essential characteristic values in accordance to table ZA.1 in EN 14592:2008 + A1:2012. Declared values accompanies with the CE mark in this technical document.

Initial Type Testing is performed by notified body: **1686**

For this product the compliance with the conditions of the Annex ZA in EN 14592 are accomplished.

Treatment:

Bright Basic - Service Class 1

Electro galvanized - Service Class 1

Electro galvanized 12 µm - Service Class 1,2

Hot dipped galvanized 55 µm - Service Class 1, 2, 3

Stainless Steel A2 - Service Class 1, 2, 3



## Dimensions

Bright Basic				
Length	Diameter (mm)	Shank type	Length of threaded part (mm)	Length of point (mm)
90mm	3,1	Ring	63	4
Electro galvanized / Electro galvanized 12 µm				
Length	Diameter (mm)	Shank type	Length of threaded part (mm)	Length of point (mm)
65mm	3,1	Ring	38	4,04
75mm			54	
90mm			63	
90mm			62	4
Hot dipped galvanized				
Length	Diameter (mm)	Shank type	Length of threaded part (mm)	Length of point (mm)
90mm	3,1	Ring	63	4,04
90mm			62	4

## Mechanical strenght and stiffness

Bright Basic						
Length	Characteristic yield moment (Nmm)	Characteristic withdrawal parameter (N/mm²)*,**	Characteristic head pull through parameter (N/mm²)	Characteristic tensile strenght (N/mm²)	Coating length (mm)	Head cross sectional (mm²)
90mm	2640	3,9	38,16	621	61,5	37
Electro galvanized / Electro galvanized 12 µm						
Length	Characteristic yield moment (Nmm)	Characteristic withdrawal parameter (N/mm²)*,**	Characteristic head pull through parameter (N/mm²)	Characteristic tensile strenght (N/mm²)	Coating length (mm)	Head cross sectional (mm²)
65mm	2640	3,9	38,16	621	49,5	37
75mm					55,5	
90mm					61,5	
Hot dipped galvanized						
Length	Characteristic yield moment (Nmm)	Characteristic withdrawal parameter (N/mm²)*,**	Characteristic head pull through parameter (N/mm²)	Characteristic tensile strenght (N/mm²)	Coating length (mm)	Head cross sectional (mm²)
90mm	2640	3,9	38,16	621	61,5	37

\* The withdrawal parameter  $f_{ax,k}$  is tested in wood with characteristic density of  $\rho_k=350\text{kg/m}^3$

\*\* Coating type 3

System of assessment and verification of constancy of performance for timber fasteners used for structural products is 3.

A Factory Production Control system is established and maintained under responsibilities of the manufacturer:

Name and contact address of the manufacturer

**Verpa Senco B.V.**

**Pascallaan 88**

**8218 NJ Lelystad, The Netherlands**

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

June 14, 2013

Lelystad, The Netherlands



Fred van Gerven,  
Technical Manager

Document no: VS-CPR-201305-S014