KYOCERA SENCO Netherlands B.V.
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DECLARATION OF PERFORMANCE

DOP# SSETA-8100

CE

SENCO Staples N, Q, S & SP 12 µm Zinc, with Type 3 coating.

Product type, intended use/ uses and identification of the construction product	
Generic type	Dowel-type fastener with resin coating
Intended use	Load-bearing connections in wooden structures for withdrawal and shear loads in short, medium, long-term, and permanent duration.
Unique Identification	SSETA-8100
Wire material	Non-alloy steel acc. EN 16120 with deformed circular cross-section
ETA 21/0078 issued by	DIBT
On the basis of technical specification	EAD 130019-00-0603
AVCP System	3
Notified body	1503

Declared performances						
Essential Characteristics			**Performance**			
Type			**N**	**Q**	**S**	**SP**
d	Nominal diameter	*[mm]*	1,54	1,80	2,03	2,03
b	Width of staple crown	*[mm]*	10,6	11,26	11,8	27
l	Length	*[mm]*	28 – 100	32 – 115	36 – 172	36 - 172
t_3	Minimum coated length	*[mm]*	≥ 0,5 x l			
$M_{y,k}$ ($M_{y,Rk}$)	Characteristic Yield Moment (1 staple leg)	*[Nm]*	0,72	0,94	1,56	1,56
$f_{ax,k}$	Characteristic Withdrawal parameter, short & medium term loads [1]	*[N/mm²]*	4,91	4,97	5,54	5,54
$R_{ax,d}$	Design value of withdrawel under long-term & permanent loads [1]	*N*	70			
$f_{head,k}$	Characteristic head pull-through parameter [1]	*[N/mm²]*	41	32	29	39
$f_{head,k}$	Characteristic head pull-through parameter for wood fiber insulation [2]		-	-	-	9,36
f_u	Minimum tensile strength of wire	*[N/mm²]*	900			
Reaction to fire			A1			
Durability against corrosion			Zinc Plated 12 µm, Service Class 1 & 2 acc. Eurocode 1992-1-1			
Durability of type 3 coating			Compliant with EAD 130019-00-0603: 2.2.9 $f_{ax,k} \geq 4,9\ N/mm^2$			

1) $\rho_k \geq 350\ kg/m^3$

2) Mean density ≥ 200 kg/m³ with $t_{1,min} \geq 60$ mm

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Declared performances *(continued)*						
Essential Characteristics			**Performance**			
Type			N	Q	S	SP
$t_{1,max}$	Maximum thickness: Solid wood of soft wood *(pk ≤ 400 kg/m³)*	*[mm]*	80			
$t_{1,max}$	Maximum thickness: Wood-based panels and hard- and softwood (400 < p_k ≤ 650 kg/m³)	*[mm]*	60			
$t_{1,max}$	Maximum thickness: Wood-based panels and gypsum boards *(650 < p_k ≤ 900 kg/m³)*	*[mm]*	40			
$t_{1,max}$	Maximum thickness: Hard-boards, gypsum fiberboards, cement bonded particle board *(650 < p_k ≤ 900 kg/m³)*	*[mm]*	25			
$t_{1,max}$	Maximum thickness: Highly compressed gypsum fiberboards *(1200 < p_k ≤ 1600 kg/m³)*	*[mm]*	20			
$t_{1,min}$	Minimum thickness of solid timber (softwood) [2) 3)]	*[mm]*	24			
$t_{1,min}$	Minimum thickness of Solid Wood Panels [2) 3)]	*[mm]*	10,78	12,60	14,21	14,21
$t_{1,min}$	Minimum thickness of Plywood [2) 3)]	*[mm]*	6			
$t_{1,min}$	Minimum thickness of Oriented Stand Boards OSB [2) 3)]	*[mm]*	8			
$t_{1,min}$	Minimum thickness of Resin-bonded particleboards [2) 3)]	*[mm]*	8			
$t_{1,min}$	Minimum thickness of Cement-bonded particleboards [2) 3)]	*[mm]*	8			

[2)] $\rho_k \geq 350$ kg/m³

[3)] If the staple crown is countersunk into material: $t_{1,min}$ must be increased with 2 mm.

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of Kyocera Senco Netherlands B.V by:

Place and date of issue: Lelystad, 03-01-2022

Lars Aa. Mortensen
Technical Manager, KYOCERA SENCO EMEA