



# EXPANDET®



®

Svedebuen 2-6 DK-3230  
 Tlf.: +45 70227979  
 expandet@expandet.dk

## Declaration of Performance

No. DEW990010

### Expandet Extra Panhead Woodscrew, Ceramic Coated 1000h

**Intended use or uses of the construction product according to EN 14592+ A1:2012**

Generic type	Self-tapping woodscrews for use in load bearing timber structures.
Material	Carbon steel acc. ASTM 510A Ceramic Coated 1000h
Durability	Service class 1,2 & 3 acc. Eurocode EN 1995-1-1
Surface coating	Type 1 & 2
Fire Reaction	A1 according to EN13501-1
Notified Body (ITT)	Danish Technological Institute (Notified Body 1235)
Under AVCP System	3

**Declared performances according to EN 14592 + A1:2012**

Essential Characteristics			Performance			
Nominal diameter (d)			3,5 mm	4,0 mm	5,0 mm	6,0 mm
$d_h$	Head Diameter	[mm]	7,0	8,0	10,0	12
$d_1$	Inner thread diameter	[mm]	2,1	2,4	3,0	3,6
$M_{y,k}$ ( $M_{y,Rk}$ )	Characteristic Yield Moment	[Nmm]	1600	3200	6100	9600
$f_{ax,k}$	Characteristic Withdrawal parameter ( $\rho_a = 350 \text{ kg/m}^3$ )	[N/mm <sup>2</sup> ]	9,5		10	
$f_{head,k}$	Characteristic head pull-through parameter ( $\rho_a = 390 \text{ kg/m}^3$ )	[N/mm <sup>2</sup> ]	14			
$f_{tens,k}$	Characteristic tensile capacity	[N]	3500	4800	7400	11000
$f_{tor,k}$	Characteristic torsional strength	[Nm]	1,6	2,5	5,1	9,3
$f_{tor,k} / R_{tor,k}$	Torsional ratio ( $\rho_a = 477 \text{ kg/m}^3$ )	[-]	> 1,5			
Durability			Ceramic Coated 1000h, Service Class 1,2 & 3 acc. Eurocode 1992-1-1			

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 the manufacturer by:

Date and place: 12-05-2014, Græsted

Peter van der Wel, Managing Director