Declaration of Performance LE026D

according to Regulation (EU) no. 305/2011

General data	
Unique identification code of the product-type	**LE026D, RAPID® Hardwood, RAPID® Hardwood CS, RAPID® Hardwood WH**
Intended use	**Screws as timber fasteners for load-carrying timber structures**
Manufacturer	Schmid Schrauben Hainfeld GmbH, A-3170 Hainfeld, Landstal 10, www.schrauben.at
AVCP - System	3
European assessment document	EAD 130118-01-0603 of Februar 2019
European technical assessment	**ETA-12/0373 of 29.12.2025**
European technical assessment body	Austrian Institute of Construction Engineering (OIB)
Notified body	NB 1379

Declared performances					
Essential characteristics		**Unit**	**Performance** (ρ_k = 350 kg/m³ e.g. C24)	**Performance** ($\rho_{k,D50}$ = 620 kg/m³)	**Performance** ($\rho_{k,LVL-BE}$ = 730 kg/m³)
Dimension d		mm	**Ø 8.0**		
Tensile strength $f_{tens,k}$		kN	32.8		
Yield moment $M_{y,k}$		Nm	42.8		
Bending angle		°	>45°		
Withdrawal parameter $f_{ax,k}$	$f_{ax,k,90°}$	N/mm²	13.1	38.3	49.2
	$f_{ax,k,0°}$		3.9	11.5	14.8
Yield strength $f_{y,k}$		N/mm²	950		
Torsional strength $f_{tor,k}$		Nm	39.5		
Insertion moment ($f_{tor,k}/R_{tor,mean}$)		-	>1,5		
Withdrawal strength (ε = 90°) $f_{w,k}$		N/mm²	4.55	14.57	18.75
Factor for withdrawal strength (ε = 90°) k_{screw}		N/mm²	9.04	28.94	37.24
Slip modulus K_{ser}		N/mm	according to ETA-12/0373 A.6.1.7 (axial) and A.6.2.4 (lateral)		
Reaction to fire		-	A1		
Nutzungsklasse Korrosionsschutz		Service class	II		
CS (Countersunk-head) head diameter d_k		mm	**Ø 15.0**	**Ø 15.0**	**Ø 15.0**
Head pull-through parameter $f_{head,k}$		N/mm²	12.4	40.4	46.0
WH (Washer-head) head diameter d_k		mm	**Ø 22.0**	**Ø 22.0**	**Ø 22.0**
Head pull-through parameter $f_{head,k}$		N/mm²	20.4	53.8	60.8

The performance of the above-mentioned products is in conformity with the performance declared.
The above-mentioned manufacturer is solely responsible for the preparation of the declaration of performance in accordance with Regulation (EU) No 305/2011.

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Declared performances

Minimum spacings and distances of screws		**Axial loaded screws**		**Shear and axial loaded or only shear loaded screws**		
		Softwood, hardwood, wood-based materials (predrilled, not-predrilled)		Cross laminated timber (CLT)		Softwood, hardwood, wood-based materials (predrilled, not-predrilled)
		end-grain and side-grain		wide face	narrow face	end-grain and side-grain
Requirement	$a_1 \times a_2$	$\geq 25 \times d^2$	$\geq 21 \times d^2$	-	-	-
Spacings //	a_1	5 x d	7 x d	4 x d	10 x d	Analogous to predrilled nails or analogous to not-predrilled nails according to EN1995-1-1, table 8.2
End distances //	$a_{1,c}$	5 x d		-	-	
Spacings ⊥	a_2	2,5 x d	3 x d	2.5 x d	3 x d	
Edge distances ⊥	$a_{2,c}$	4 x d		-	-	
End distances // loaded	$a_{3,t}$	-	-	6 x d	12 x d	
End distances // unloaded	$a_{3,c}$	-	-	6 x d	7 x d	
Edge distances ⊥ loaded	$a_{4,t}$	-	-	6 x d	5 x d	
Edge distances ⊥ unloaded	$a_{4,c}$	-	-	2,5 x d	3 x d	
Spacing between crossing screws	a_{cross}	1,5 x d				

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Signed for the manufacturer on the manufacturer's behalf:

DI (FH) Andreas Gebert
CEO Schmid Schrauben Hainfeld
Hainfeld, 31.3.2026
en

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