

# Declaration of Performance LE005D

according to Regulation (EU) no. 305/2011

General data										
Unique identification code of the product-type	LE005D, RAPID® FT, RAPID® FT CS, RAPID® FT CL, RAPID® T-Lift, RAPID® Ductile									
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	<b>ETA-12/0373</b> of 29.12.2025									
European technical assessment body	Austrian Institute of Construction Engineering (OIB)									
Notified body	NB 1379									
Declared performances										
Essential characteristics		Unit	Performance ( $\rho_k = 350 \text{ kg/m}^3$ , e.g. C24)							
product-type / product name		-	RAPID® FT, LE005D				RAPID® T-Lift		RAPID® Ductile	
Dimension d		mm	Ø 6.0	Ø 8.0	Ø 10.0	Ø 12.0	Ø 16.0	Ø 12.0	Ø 16.0	Ø 12.0
Tensile strength $f_{tens,k}$	carbon steel	kN	12.5	24.1	40.0	46.7	88.6	45.0	88.6	55.7
	stainless steel		-	13.5	18.5	-	-	-	-	-
Yield moment $M_{y,k}$	carbon steel	Nm	10.0	20.3	36.7	48.5	112.9	48.5	112.9	77.3
	stainless steel		-	12.4	21.6	-	-	-	-	-
Bending angle		°	>45°	>45°	>45°	>45°	>45°	>45°	>45°	>45°
Withdrawal parameter $f_{ax,k,90°}$		N/mm²	13.5	13.1	12.5	11.2	11.0	11.2	11.0	11.8
Yield strength $f_{y,k}$	carbon steel	N/mm²	950	950	950	950	950	950	950	950
	stainless steel		-	500	500	-	-	-	-	-
Torsional strength $f_{tor,k}$	carbon steel	Nm	10.5	25.8	55.0	73.0	194.7	73.0	194.7	100.5
	stainless steel		-	17.5	27.0	-	-	-	-	-
Insertion moment ( $f_{tor,k} / R_{tor,mean}$ )		-	>1,5	>1,5	>1,5	>1,5	>1,5	>1,5	>1,5	>1,5
Withdrawal strength ( $\epsilon = 90°$ ) $f_{w,k}$		N/mm²	4.91	4.55	4.34	3.89	3.89	3.89	3.89	4.10
Factor for withdrawal strength ( $\epsilon = 90°$ ) $k_{screw}$		N/mm²	8.87	9.04	9.28	8.83	9.71	8.83	9.71	9.30
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							
Corrosion protection	carbon steel	Service class	II	II	II	II	II	II	II	II
	stainless steel		-	III	III	-	-	-	-	-
CS (Countersunk-head) head diameter $d_k$		mm	Ø 12.0	Ø 15.0	Ø 18.5	Ø 21.0	Ø 26.0	-	-	Ø 21.0
Head pull-through parameter $f_{head,k}$		N/mm²	14.6	12.4	12.2	10.3	-	-	-	10.3
DUAL (Dual-head) head diameter $d_k = SW$		mm	SW 9.0	SW 12.0	SW 15.0	SW 17.0	SW 24.0	SW 17.0	SW 24.0	SW 17.0
Head pull-through parameter $f_{head,k}$		N/mm²	16.0	16.5	16.7	17.1	16.9	17.1	16.9	17.1
CL (Cylinder-head) head diameter $d_k$		mm	Ø 8.0	Ø 10.2	Ø 13.4	Ø 14.2	-	-	-	Ø 14.2
Head pull-through parameter $f_{head,k}$		N/mm²	-	-	-	-	-	-	-	-
SSF (Supersenkfix-head) head diameter $d_k$		mm	Ø 13.0	Ø 19.0	Ø 24.0	-	-	-	-	-
Head pull-through parameter $f_{head,k}$		N/mm²	19.7	22.9	12.3	-	-	-	-	-
WH (Washer-head) head diameter $d_k$		mm	Ø 14.0	Ø 20.0	Ø 25.0	Ø 27.0	Ø 25.0	-	Ø 25.0	Ø 27.0
Head pull-through parameter $f_{head,k}$		N/mm²	16.7	17.6	15.2	14.5	15.2	-	15.2	14.5

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	$a_1 \times a_2$	$\geq 25 \times d^2$	$\geq 21 \times d^2$	$d > 8 \text{ mm}$ without HSP	-	-	-
Spacings //	$a_1$	5 x d	7 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		10 x d	-	-	
Spacings I	$a_2$	2,5 x d	3 x d	5 x d	2,5 x d	3 x d	
Edge distances I	$a_{2,c}$	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 I loaded	$a_{4,t}$	-	-	-	6 x d	5 x d	
Edge distances I unloaded	$a_{4,c}$	-	-	-	2,5 x d	3 x d	
Spacing between crossing screws	$a_{\text{cross}}$	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  
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