

## Declaration of Performance LE005C

according to Regulation (EU) no. 305/2011

General data												
Unique identification code of the product-type	RAPID® fullthread, RAPID® fullthread PLUS, 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 / UK assessment document	EAD 130118-01-0603 of February 2019						UKAD 130118-01-0603					
European / UK technical assessment	ETA-12/0373 of 30.03.2022						UKTA-0836-22/6490 of 18.11.2022					
European / UK technical assessment body	Austrian Institute of Construction Engineering (OIB)						British Board of Agrément (BBA)					
Notified body	NB 1379						NB 0836					
Declared performances												
Essential characteristics		Unit	Performance (pk = 350 kg/m³, e.g. C24)									
identification code		-	RAPID® fullthread				RAPID® fullthread PLUS		RAPID® T-Lift		RAPID® Ductile	
Dimension d		mm	Ø 6,0	Ø 8,0	Ø 10,0	Ø 12,0	Ø 16,0	Ø 8,0	Ø 12,0	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	32,8	61,2	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	42,8	77,3	48,5	112,9	77,3
	stainless steel		-	12,4	21,6	-	-	-	-	-	-	-
Bending angle		°	>45°	>45°	>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	13,1	11,8	11,2	11,0	11,8
Yield strength $f_{y,k}$	carbon steel	N/mm²	950	950	950	950	950	950	950	950	950	950
	stainless steel		-	-	-	-	-	-	-	-	-	-
Torsional strength $f_{tor,k}$	carbon steel	Nm	10,5	25,8	55,0	73,0	194,7	39,5	100,5	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	>1,5	>1,5
Slip modulus $K_{ser}$ for mainly axially loaded screws		-	$K_{ser} = 25 \cdot d \cdot l_{ef} \dots$ in N/mm for softwood; $K_{ser} = 53 \cdot d \cdot l_{ef} \dots$ in N/mm for LVL-beech									
Reaction to fire		-	A1									
Corrosion protection		Service class	II	II	II	II	II	II	II	II	II	II
Countersunk-head head diameter $d_k$		mm	Ø 12,0	Ø 15,0	Ø 18,5	Ø 21,0	Ø 26,0	Ø 15,0	Ø 21,0	-	-	Ø 21,0
Head pull-through parameter $f_{head,k}$		N/mm²	14,6	12,4	12,2	10,3	-	12,4	10,3	-	-	10,3
Dual-head head diameter $d_k = SW$		mm	SW 9,0	SW 12,0	SW 15,0	SW 17,0	SW 24,0	SW 12,0	SW 17,0	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	16,5	17,1	17,1	16,9	17,1
Cylinder-head head diameter $d_k$		mm	Ø 8,0	Ø 10,2	Ø 13,4	Ø 14,2	-	Ø 10,2	Ø 14,2	-	-	Ø 14,2
Head pull-through parameter $f_{head,k}$		N/mm²	-	-	-	-	-	-	-	-	-	-
Washer-head head diameter $d_k$		mm	Ø 14,0	Ø 20,0	Ø 25,0	Ø 27,0	Ø 25,0	Ø 20,0	Ø 27,0	-	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	17,6	14,5	-	15,2	14,5

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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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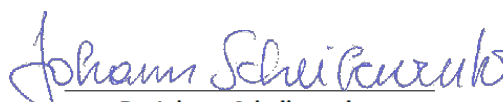
according to Regulation (EU) no. 305/2011


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Declared performances						
Minimum spacings of screws		Axial loaded screws		Shear and axial loaded or only shear loaded screws		
		Softwood and softwood-based materials (predrilled, not-predrilled) and Hardwood (predrilled)		Cross laminated timber		Softwood and softwood-based materials (predrilled, not-predrilled) and Hardwood (predrilled)
		end-grain and side-grain		wide face	narrow face	end-grain and side-grain
Requirement	a1 x a2	≥ 25 x d <sup>2</sup>	≥ 21 x d <sup>2</sup>	-	-	-
Spacings //	a1	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  LVL-beech analogous nails, not-pre-drilled according to EN1995-1-1, table 8.2
Edge distances //	a1, c	5 x d		-	-	
Spacings ⊥	a2	2,5 x d	3 x d	2,5 x d	3 x d	
Edge distances ⊥	a2, c	4 x d		-	-	
Edge distances // loaded	a3, t	-	-	6 x d	12 x d	
Edge distances // unloaded	a3, c	-	-	6 x d	7 x d	
Edge distances ⊥ loaded	a4, t	-	-	6 x d	5 x d	
Edge distances ⊥ unloaded	a4, 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:

  
Dr. Johann Scheibenreiter

  
Dr. Johann Scheibenreiter

Hainfeld, 30.3.2022

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Supplement UKCA, values from 30.3.2022 are unchanged

Hainfeld, 18.11.2022

