

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/m ³ , 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/mm ²	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/mm ²	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 * d * l _{ef} ... in N/mm for softwood; K _{ser} = 53 * d * l _{ef} ... 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/mm ²	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 22,0	SW 12,0	SW 17,0	SW 17,0	SW 22,0	SW 17,0
Head pull-through parameter f _{head,k}		N/mm ²	16.0	16.5	16.7	17.1	20.4	16.5	17.1	17.1	20.4	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/mm ²	-	-	-	-	-	-	-	-	-	-
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/mm ²	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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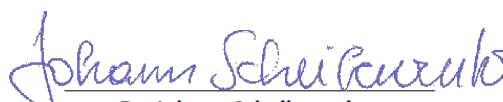
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Declared performances						
Minimum spacings of screws		Axial loaded screws		Shear and axial loaded or only shear loaded screws		
		Softwood and softwood-based materials (predrilled, not-predrilled) and Hardwood (predrilled)		Cross laminated timber		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 ²	≥ 21 x d ²	-	-	-
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

