

Declaration of Performance LE003C

according to Regulation (EU) no. 305/2011

General data									
Unique identification code of the product-type	RAPID® countersunk-head, RAPID® washer-head, RAPID® PT DUAL, RAPID® SuperSenkFix, RAPID® Komplex								
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)						
Dimension d		mm	Ø 4,0	Ø 4,5	Ø 5,0	Ø 6,0	Ø 8,0	Ø 10,0	Ø 12,0
Tensile strength f _{tens,k}	carbon steel	kN	5.0	7.0	8.8	13.1	23.3	35.0	42.0
	stainless steel		-	-	-	-	13.5	21.0	-
Yield moment M _{y,k}	carbon steel	Nm	3.1	4.2	5.9	10.7	22.6	33.6	46.9
	stainless steel		-	-	-	-	14.1	26.3	-
Bending angle		°	>45°	>45°	>45°	>45°	>45°	>45°	>45°
Withdrawal parameter f _{ax,k,90°}		N/mm ²	14.3	13.3	13.6	13.0	10.9	11.0	11.2
Yield strength f _{y,k}	carbon steel	N/mm ²	900	900	900	900	900	900	900
	stainless steel		-	-	-	-	-	-	-
Torsional strength f _{tor,k}	carbon steel	Nm	3.5	4.9	6.6	10.9	28.0	52.5	59.6
	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
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		I	II	II	II	II	II	II
Countersunk-head head diameter d _k	mm		Ø 8,0	Ø 9,0	Ø 10,0	Ø 12,0	Ø 15,0	Ø 18,5	Ø 21,0
Head pull-through parameter f _{head,k}	N/mm ²		17.1	17.6	14.6	14.6	12.4	12.2	10.3
Dual-head head diameter d _k = SW	mm		-	-	-	SW 9,0	SW 12,0	SW 15,0	SW 17,0
Head pull-through parameter f _{head,k}	N/mm ²		-	-	-	16.0	16.5	16.7	17.1
Supersenkfix-head head diameter d _k	mm		-	-	-	Ø 13,0	Ø 19,0	Ø 24,0	-
Head pull-through parameter f _{head,k}	N/mm ²		-	-	-	19.7	22.9	12.3	-
Washer-head head diameter d _k	mm		-	-	Ø 12,5	Ø 14,0	Ø 20,0	Ø 25,0	-
Head pull-through parameter f _{head,k}	N/mm ²		-	-	16.4	16.7	17.6	15.2	-
Komplex Washer-head head diameter d _k	mm		-	-	Ø 14,0	Ø 17,0	Ø 22,0	Ø 27,0	-
Head pull-through parameter f _{head,k}	N/mm ²		-	-	16.7	17.1	20.4	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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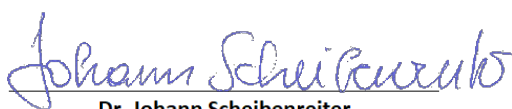
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Notified body	NB 1379			NB 0836		
Declared performances						
Minimum spacings of screws		Axial loaded screws		Shear and axial loaded or only shear loaded screws		
		Softwood and softwood-based materials (predrilled, not-predrilled) and Hardwood (predrilled)		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

Hainfeld, 30.3.2022

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Dr. Johann Scheibenreiter

Supplement UKCA, values from 30.3.2022 are unchanged

Hainfeld, 18.11.2022

