



SWG

Declaration of Performance

DoP HXSK_210768_VZ

- | | |
|--|--|
| 1. Unique identification code of the product- type | HOX Screws
(Range of Art. No. 1790...) |
| 2. Intended use(es) | Screws for use in timber constructions |
| 3. Manufacturer | SWG Schraubenwerk Gaisbach GmbH
Am Bahnhof 50
DE-74638 Waldenburg
www.swg.de info@swg.de |
| 4. Authorized representative | Not relevant |
| 5. System(s) of AVCP | System 3 |
| 6. a) Harmonized standard | - |
| Notified body(ies) | - |
| b) European Assessment Document | EAD 130118-01-0603 February 2019 |
| European Technical Assessment | ETA-21/0768 07.06.2024 |
| Technical Assessment Body | ETA-Danmark A/S |
| Notified Body(ies) | NB 0769 |



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7. Declared Performances

Essential Characteristics		Declared Performance	Harmonised Technical Specification
Nominal diameter	[mm]	3,0	EAD 130118-01-0603
Outer thread diameter	d [mm]	2,80 – 3,00	---
Inner thread diameter	d1 [mm]	1,75 – 2,10	---
Shank diameter	ds [mm]	NPD	---
Head diameter	dh [mm]	5,80	---
Thread pitch	p [mm]	NPD	---
Length	L [mm]	14 – 45	---
Thread length	Lg [mm]	12 – 43	---
Yield moment	M _{y,k} [Nm]	1,7	EAD 130118-01-0603
Bending angle	BW [°]	NPD	EAD 130118-01-0603
Characteristic withdrawal parameter at 350 kg/m³	f _{ax,k} [N/mm²]	13	EAD 130118-01-0603
Characteristic head pull-through parameter at 350 kg/m³ t < 12 mm (F _{ax,Rk} ≤ 400 N) 12 ≤ t ≤ 20 mm T > 20 mm	f _{head,k} [N/mm²]	8 8 9,4	EAD 130118-01-0603
Characteristic tensile strength	f _{tens,k} [kN]	3,4	EAD 130118-01-0603
Characteristic yield strength	R _{p0,2,k} [N/mm²]	NPD	EAD 130118-01-0603
Characteristic torsional strength	f _{tor,k} [Nm]	1,5	EAD 130118-01-0603
Insertion moment	R _{tor,k} [Nm]	NPD	EAD 130118-01-0603
Torsional ratio	f _{tor,k} /R _{tor,avg}	≥ 1.5	EAD 130118-01-0603
Spacing end and edge distances and minimum thickness of timber	For cross laminated timber according to ETA: In the plane surface: a ₁ =4·d a ₂ =2,5·d a _{3,c} =6·d a _{3,t} =6·d a _{4,c} =2,5·d a _{4,t} =6·d In the edge surface: a ₁ =10·d a ₂ =4·d a _{3,c} =7·d a _{3,t} =12·d a _{4,c} =3·d a _{4,t} =6·d For all other applications and for minimum thickness see EN 1995-1-1		EAD 130118-01-0603 EN 1995-1-1
Slip modulus	K _{ser} [N/mm]	NPD	EAD 130118-01-0603
Durability	Service class	2	EN 1995-1-1
Reaction to fire	class	A1	EAD 130118-01-0603



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Essential Characteristics		Declared Performance	Harmonised Technical Specification
Nominal diameter	[mm]	3,5	EAD 130118-01-0603
Outer thread diameter	d [mm]	3,30 – 3,50	---
Inner thread diameter	d1 [mm]	2,00 – 2,25	---
Shank diameter	ds [mm]	NPD	---
Head diameter	dh [mm]	6,80	---
Thread pitch	p [mm]	NPD	---
Length	L [mm]	16 – 50	---
Thread length	Lg [mm]	14 – 48	---
Yield moment	M _{y,k} [Nm]	2,3	EAD 130118-01-0603
Bending angle	BW [°]	NPD	EAD 130118-01-0603
Characteristic withdrawal parameter at 350 kg/m³	f _{ax,k} [N/mm²]	13	EAD 130118-01-0603
Characteristic head pull-through parameter at 350 kg/m³ t < 12 mm (F _{ax,Rk} ≤ 400 N) 12 ≤ t ≤ 20 mm T > 20 mm	f _{head,k} [N/mm²]	8 8 9,4	EAD 130118-01-0603
Characteristic tensile strength	f _{tens,k} [kN]	4,1	EAD 130118-01-0603
Characteristic yield strength	R _{p0,2,k} [N/mm²]	NPD	EAD 130118-01-0603
Characteristic torsional strength	f _{tor,k} [Nm]	2,1	EAD 130118-01-0603
Insertion moment	R _{tor,k} [Nm]	NPD	EAD 130118-01-0603
Torsional ratio	f _{tor,k} /R _{tor,avg}	≥ 1.5	EAD 130118-01-0603
Spacing end and edge distances and minimum thickness of timber	For cross laminated timber according to ETA: In the plane surface: a ₁ =4·d a ₂ =2,5·d a _{3,c} =6·d a _{3,t} =6·d a _{4,c} =2,5·d a _{4,t} =6·d In the edge surface: a ₁ =10·d a ₂ =4·d a _{3,c} =7·d a _{3,t} =12·d a _{4,c} =3·d a _{4,t} =6·d For all other applications and for minimum thickness see EN 1995-1-1		EAD 130118-01-0603 EN 1995-1-1
Slip modulus	K _{ser} [N/mm]	NPD	EAD 130118-01-0603
Durability	Service class	2	EN 1995-1-1
Reaction to fire	class	A1	EAD 130118-01-0603

Essential Characteristics		Declared Performance	Harmonised Technical Specification
Nominal diameter	[mm]	4,0	EAD 130118-01-0603
Outer thread diameter	d [mm]	3,90 – 4,10	---
Inner thread diameter	d1 [mm]	2,40 – 2,60	---
Shank diameter	ds [mm]	NPD	---
Head diameter	dh [mm]	7,80	---
Thread pitch	p [mm]	NPD	---
Length	L [mm]	19 – 80	---
Thread length	Lg [mm]	16 – 60	---
Yield moment	M _{y,k} [Nm]	3,4	EAD 130118-01-0603
Bending angle	BW [°]	NPD	EAD 130118-01-0603
Characteristic withdrawal parameter at 350 kg/m ³	f _{ax,k} [N/mm ²]	13	EAD 130118-01-0603
Characteristic head pull-through parameter at 350 kg/m ³ t < 12 mm (F _{ax,Rk} ≤ 400 N) 12 ≤ t ≤ 20 mm T > 20 mm	f _{head,k} [N/mm ²]	8 8 9,4	EAD 130118-01-0603
Characteristic tensile strength	f _{tens,k} [kN]	5,0	EAD 130118-01-0603
Characteristic yield strength	R _{p0,2,k} [N/mm ²]	NPD	EAD 130118-01-0603
Characteristic torsional strength	f _{tor,k} [Nm]	3,2	EAD 130118-01-0603
Insertion moment	R _{tor,k} [Nm]	NPD	EAD 130118-01-0603
Torsional ratio	f _{tor,k} /R _{tor,avg}	≥ 1.5	EAD 130118-01-0603
Spacing end and edge distances and minimum thickness of timber	For cross laminated timber according to ETA: In the plane surface: a ₁ =4·d a ₂ =2,5·d a _{3,c} =6·d a _{3,t} =6·d a _{4,c} =2,5·d a _{4,t} =6·d In the edge surface: a ₁ =10·d a ₂ =4·d a _{3,c} =7·d a _{3,t} =12·d a _{4,c} =3·d a _{4,t} =6·d For all other applications and for minimum thickness see EN 1995-1-1		EAD 130118-01-0603 EN 1995-1-1
Slip modulus	K _{ser} [N/mm]	NPD	EAD 130118-01-0603
Durability	Service class	2	EN 1995-1-1
Reaction to fire	class	A1	EAD 130118-01-0603



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Essential Characteristics		Declared Performance	Harmonised Technical Specification
Nominal diameter	[mm]	4,5	EAD 130118-01-0603
Outer thread diameter	d [mm]	4,40 – 4,60	---
Inner thread diameter	d1 [mm]	2,60 – 2,80	---
Shank diameter	ds [mm]	NPD	---
Head diameter	dh [mm]	8,80	---
Thread pitch	p [mm]	NPD	---
Length	L [mm]	15 – 100	---
Thread length	Lg [mm]	18 – 70	---
Yield moment	M _{y,k} [Nm]	4,7	EAD 130118-01-0603
Bending angle	BW [°]	NPD	EAD 130118-01-0603
Characteristic withdrawal parameter at 350 kg/m³	f _{ax,k} [N/mm²]	13	EAD 130118-01-0603
Characteristic head pull-through parameter at 350 kg/m³ t < 12 mm (F _{ax,Rk} ≤ 400 N) 12 ≤ t ≤ 20 mm T > 20 mm	f _{head,k} [N/mm²]	8 8 9,4	EAD 130118-01-0603
Characteristic tensile strength	f _{tens,k} [kN]	6,9	EAD 130118-01-0603
Characteristic yield strength	R _{p0,2,k} [N/mm²]	NPD	EAD 130118-01-0603
Characteristic torsional strength	f _{tor,k} [Nm]	4,3	EAD 130118-01-0603
Insertion moment	R _{tor,k} [Nm]	NPD	EAD 130118-01-0603
Torsional ratio	f _{tor,k} /R _{tor,avg}	≥ 1.5	EAD 130118-01-0603
Spacing end and edge distances and minimum thickness of timber	For cross laminated timber according to ETA: In the plane surface: a ₁ =4·d a ₂ =2,5·d a _{3,c} =6·d a _{3,t} =6·d a _{4,c} =2,5·d a _{4,t} =6·d In the edge surface: a ₁ =10·d a ₂ =4·d a _{3,c} =7·d a _{3,t} =12·d a _{4,c} =3·d a _{4,t} =6·d For all other applications and for minimum thickness see EN 1995-1-1		EAD 130118-01-0603 EN 1995-1-1
Slip modulus	K _{ser} [N/mm]	NPD	EAD 130118-01-0603
Durability	Service class	2	EN 1995-1-1
Reaction to fire	class	A1	EAD 130118-01-0603



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Essential Characteristics		Declared Performance	Harmonised Technical Specification
Nominal diameter	[mm]	5,0	EAD 130118-01-0603
Outer thread diameter	d [mm]	4,80 – 5,10	---
Inner thread diameter	d1 [mm]	3,10 – 3,30	---
Shank diameter	ds [mm]	NPD	---
Head diameter	dh [mm]	9,80	---
Thread pitch	p [mm]	NPD	---
Length	L [mm]	23 – 120	---
Thread length	Lg [mm]	20 – 76	---
Yield moment	M _{y,k} [Nm]	5,7	EAD 130118-01-0603
Bending angle	BW [°]	NPD	EAD 130118-01-0603
Characteristic withdrawal parameter at 350 kg/m ³	f _{ax,k} [N/mm ²]	13	EAD 130118-01-0603
Characteristic head pull-through parameter at 350 kg/m ³ t < 12 mm (F _{ax,Rk} ≤ 400 N) 12 ≤ t ≤ 20 mm T > 20 mm	f _{head,k} [N/mm ²]	8 8 9,4	EAD 130118-01-0603
Characteristic tensile strength	f _{tens,k} [kN]	8,0	EAD 130118-01-0603
Characteristic yield strength	R _{p0,2,k} [N/mm ²]	NPD	EAD 130118-01-0603
Characteristic torsional strength	f _{tor,k} [Nm]	6,0	EAD 130118-01-0603
Insertion moment	R _{tor,k} [Nm]	NPD	EAD 130118-01-0603
Torsional ratio	f _{tor,k} /R _{tor,avg}	≥ 1.5	EAD 130118-01-0603
Spacing end and edge distances and minimum thickness of timber	For cross laminated timber according to ETA: In the plane surface: a ₁ =4·d a ₂ =2,5·d a _{3,c} =6·d a _{3,t} =6·d a _{4,c} =2,5·d a _{4,t} =6·d In the edge surface: a ₁ =10·d a ₂ =4·d a _{3,c} =7·d a _{3,t} =12·d a _{4,c} =3·d a _{4,t} =6·d For all other applications and for minimum thickness see EN 1995-1-1		EAD 130118-01-0603 EN 1995-1-1
Slip modulus	K _{ser} [N/mm]	NPD	EAD 130118-01-0603
Durability	Service class	2	EN 1995-1-1
Reaction to fire	class	A1	EAD 130118-01-0603



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Essential Characteristics		Declared Performance	Harmonised Technical Specification
Nominal diameter	[mm]	6,0	EAD 130118-01-0603
Outer thread diameter	d [mm]	5,85 – 6,15	---
Inner thread diameter	d1 [mm]	3,70 – 3,90	---
Shank diameter	ds [mm]	NPD	---
Head diameter	dh [mm]	11,75	---
Thread pitch	p [mm]	NPD	---
Length	L [mm]	30 – 300	---
Thread length	Lg [mm]	24 – 76	---
Yield moment	M _{y,k} [Nm]	10,5	EAD 130118-01-0603
Bending angle	BW [°]	NPD	EAD 130118-01-0603
Characteristic withdrawal parameter at 350 kg/m³	f _{ax,k} [N/mm²]	11	EAD 130118-01-0603
Characteristic head pull-through parameter at 350 kg/m³ t < 12 mm (F _{ax,Rk} ≤ 400 N) 12 ≤ t ≤ 20 mm T > 20 mm	f _{head,k} [N/mm²]	8 8 9,4	EAD 130118-01-0603
Characteristic tensile strength	f _{tens,k} [kN]	12,4	EAD 130118-01-0603
Characteristic yield strength	R _{p0,2,k} [N/mm²]	NPD	EAD 130118-01-0603
Characteristic torsional strength	f _{tor,k} [Nm]	10,5	EAD 130118-01-0603
Insertion moment	R _{tor,k} [Nm]	NPD	EAD 130118-01-0603
Torsional ratio	f _{tor,k} /R _{tor,avg}	≥ 1.5	EAD 130118-01-0603
Spacing end and edge distances and minimum thickness of timber	For cross laminated timber according to ETA: In the plane surface: a ₁ =4·d a ₂ =2,5·d a _{3,c} =6·d a _{3,t} =6·d a _{4,c} =2,5·d a _{4,t} =6·d In the edge surface: a ₁ =10·d a ₂ =4·d a _{3,c} =7·d a _{3,t} =12·d a _{4,c} =3·d a _{4,t} =6·d For all other applications and for minimum thickness see EN 1995-1-1		EAD 130118-01-0603 EN 1995-1-1
Slip modulus	K _{ser} [N/mm]	NPD	EAD 130118-01-0603
Durability	Service class	2	EN 1995-1-1
Reaction to fire	class	A1	EAD 130118-01-0603



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8. Appropriate technical documentation and/or specific technical documentation: not relevant

The performance of the product identified above is in conformity with the set of declared performance(s). This declaration of performance is issued, in accordance with Regulation (EU) No. 305/2011, under the sole responsibility of the manufacturer identified above.

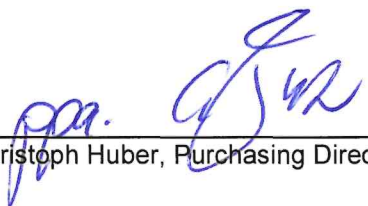
Signed for and on behalf of the manufacturer by:

Waldenburg, 24.02.25
Place, date



Gösta Pietsch, CEO

Waldenburg, 24.02.25
Place, date



Christoph Huber, Purchasing Director