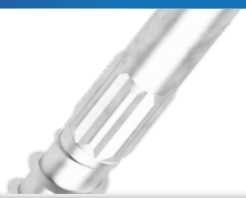
RAPID® Hardwood

Ready for the future today

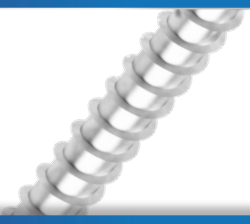
schmid schrauben hainfeld

Milling pockets

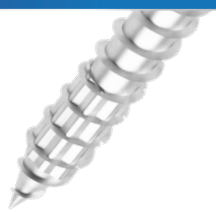
New friction part



Single thread



Compactor tip



> No Pre-Drilling
> World first
> Made in AUSTRIA

Dimensions

Stocked sizes:
Ø 8 x 120mm
Ø 8 x 160mm (also washer head)
Ø 8 x 200mm
Ø 8 x 240mm
On request: Ø 8 x 60mm to
Ø 8 x 240mm

BlueWin 700+

Cr(VI) Free

HOLZFORSCHUNG AUSTRIA GEPRÜFT NR 1801

Detailed Info

RAPID® Hardwood

Specially hardened, slide coating, BlueWin 700+

Straight friction part

The new optimised friction section considerably reduces screw resistance:

> Less force required when screwing in
> Fast screwing
> Improved battery life of the drill/driver unit

Single thread

> Minimised blast effect
> Improved pull-out values
> Quicker screwing

Milling pockets

Underhead milling pockets for optimal countersink:

> Smooth
> Gentle on material
> Also ideal for fittings

New compression tip

Improved patented tip:

> Improved bite in of the screw
> Lower splitting effect

Highlights of the product

RAPID® Hardwood is the first to offer a hardwood screw fitting without pre-drilling:

> One step operation saves time
> ETA approval
> Low impact on materials
> Higher core diameter - so that the tensile strength for 8mm is comparable with conventional 10mm wood screw

ETA-12/0373

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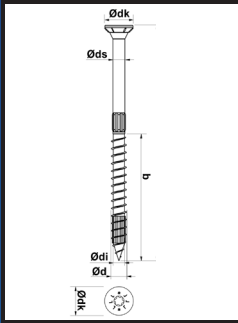
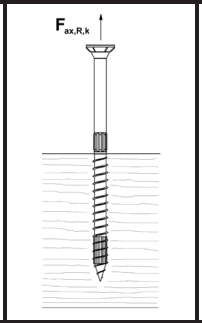
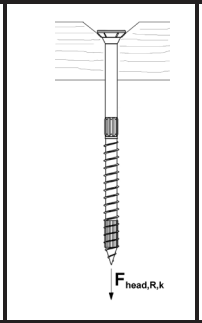
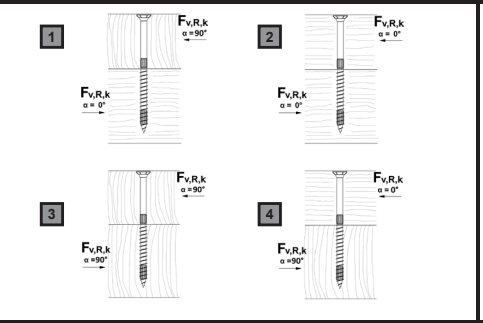
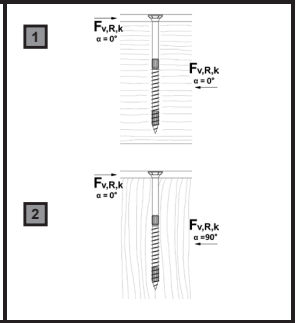
Characteristic	Unit	Ø 8,0
Head diameter *)	d_k [mm]	15,0
Core diameter	d_i [mm]	6,1
Shaft diameter	d_s [mm]	6,4
Drive	TX	40
Tensile load	$f_{tens,k}$ [kN]	32,8
Yield moment	$M_{y,k}$ [Nm]	42,8

*) Values for further head geometries are available on request

Values are applied for construction beech (density ρk: 730 kg/m³)

Dimensions		Extraction resistance		Head traction resistance		Wood - wood shearing					Steel - wood shearing		
													
d x L [mm]	b [mm]	R_{ASD} [kN]	$F_{ax,R,k}$ [kN]	R_{ASD} [kN]	$F_{head,R,k}$ [kN]	R_{ASD} [kN] α=0°…90°	1. $F_{v,R,k}$ [kN] α_{AD}=90° α_{ET}=0°	2. $F_{v,R,k}$ [kN] α=0°	3. $F_{v,R,k}$ [kN] α=90°	4. $F_{v,R,k}$ [kN] α_{AD}=0° α_{ET}=90°	R_{ASD} [kN] α=0°…90°	1. $F_{v,R,k}$ [kN] α=0°	2. $F_{v,R,k}$ [kN] α=90°
Ø 8,0													
8,0 x 60	50	-	19,82	-	-	-	a)	a)	a)	a)	-	14,94	12,77
8,0 x 80	70	-	27,75	-	-	-	a)	a)	a)	a)	-	16,92	15,31
8,0 x 100	70	-	27,75	-	9,47	-	7,27	8,38	6,98	7,96	-	16,92	15,31
8,0 x 120	100	-	39,65	-	9,47	-	a)	a)	a)	a)	-	18,18	16,58
8,0 x 140	100	-	39,65	-	9,47	-	8,09	9,42	7,77	8,78	-	18,18	16,58
8,0 x 160	100	-	39,65	-	9,47	-	8,09	9,42	7,77	8,78	-	18,18	16,58
8,0 x 180	100	-	39,65	-	9,47	-	8,09	9,42	7,77	8,78	-	18,18	16,58
8,0 x 200	100	-	39,65	-	9,47	-	8,09	9,42	7,77	8,78	-	18,18	16,58
8,0 x 220	100	-	39,65	-	9,47	-	8,09	9,42	7,77	8,78	-	18,18	16,58
8,0 x 240	100	-	39,65	-	9,47	-	8,09	9,42	7,77	8,78	-	18,18	16,58

Values are applied for solid hardwood (density ρk: 620 kg/m³, D50 according to EN338)

Dimensions		Extraction resistance		Head traction resistance		Wood - wood shearing					Steel - wood shearing		
d x L [mm]	b [mm]	R_{ASD} [kN]	$F_{ax,R,k}$ [kN]	R_{ASD} [kN]	$F_{head,R,k}$ [kN]	R_{ASD} [kN] α=0°…90°	1. $F_{v,R,k}$ [kN] α_{AD}=90° α_{ET}=0°	2. $F_{v,R,k}$ [kN] α=0°	3. $F_{v,R,k}$ [kN] α=90°	4. $F_{v,R,k}$ [kN] α_{AD}=0° α_{ET}=90°	R_{ASD} [kN] α=0°…90°	1. $F_{v,R,k}$ [kN] α=0°	2. $F_{v,R,k}$ [kN] α=90°
Ø 8,0													
8,0 x 60	50	-	15,38	-	-	-	a)	a)	a)	a)	-	13,04	12,88
8,0 x 80	70	-	21,53	-	-	-	a)	a)	a)	a)	-	14,58	14,49
8,0 x 100	70	-	21,53	-	9,41	-	7,59	7,65	7,57	7,63	-	14,58	14,49
8,0 x 120	100	-	30,76	-	9,41	-	a)	a)	a)	a)	-	16,89	16,80
8,0 x 140	100	-	30,76	-	9,41	-	8,57	8,66	8,55	8,63	-	16,89	16,80
8,0 x 160	100	-	30,76	-	9,41	-	8,57	8,66	8,55	8,63	-	16,89	16,80
8,0 x 180	100	-	30,76	-	9,41	-	8,57	8,66	8,55	8,63	-	16,89	16,80
8,0 x 200	100	-	30,76	-	9,41	-	8,57	8,66	8,55	8,63	-	16,89	16,80
8,0 x 220	100	-	30,76	-	9,41	-	8,57	8,66	8,55	8,63	-	16,89	16,80
8,0 x 240	100	-	30,76	-	9,41	-	8,57	8,66	8,55	8,63	-	16,89	16,80