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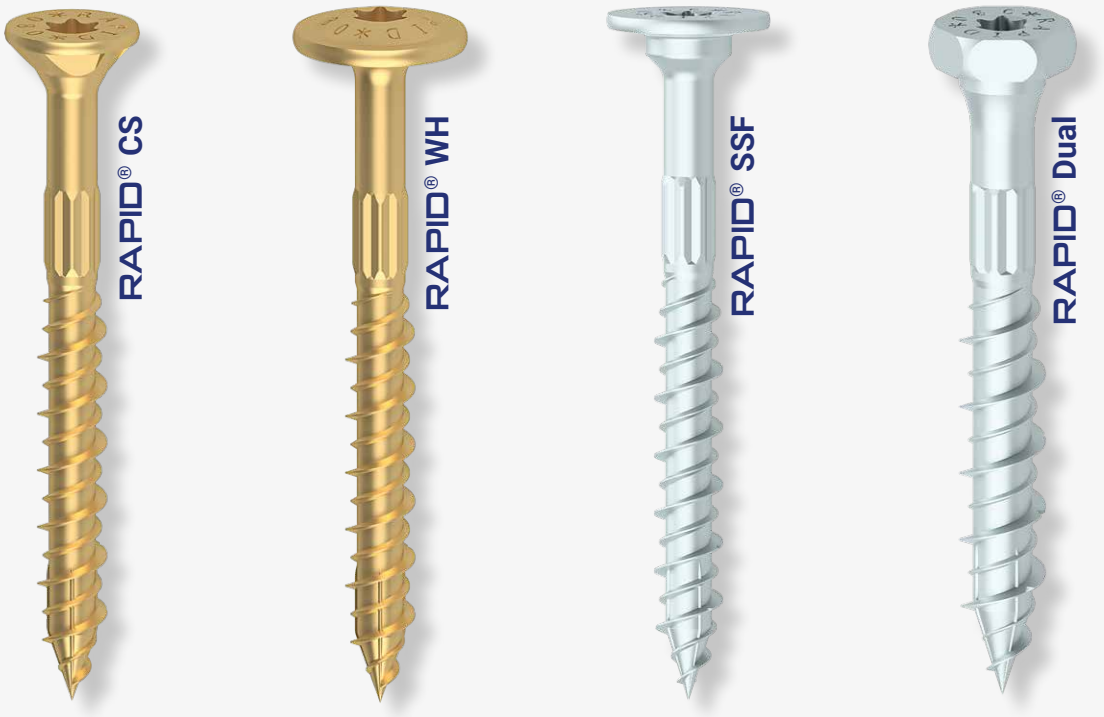
RAPID® partial thread

Timber to timber and metal to timber connections

Quality Made in Austria

RAPID® partial thread

Quality Made in Austria



RAPID® CS

90° countersunk head

> Countersinks fully into the timber and fits well in metal
> Milling pockets reduce tearing and splitting in the timber
> Milling ribs for optimum sinking into the timber
> YellWin 500+ surface, Cr[VI] free

RAPID® WH

Washer head

> Highest permissible head pull-through values for sturdy joints pulled tightly together
> No additional washers required, resulting in faster and more cost-effective processing
> YellWin 500+ surface, Cr[VI] free

RAPID® SSF

SuperSenkFix head

> Innovative countersunk and washer head connections for the perfect fit in metal plates
> Clean, flush countersinking in connections with high pull-through values - optimal for visible screwed connections
> BlueWin 700+ surface, Cr[VI] free

RAPID® Dual

Dual head

> The external hexagon enables high power transmission, fits in combination with impact/ pulse screwdrivers
> Using the T-drive saves time when working with different screws
> BlueWin surface, Cr[VI] free

AUSTRIA ETA-12/0373 UK CA ICC ES

Thread geometry

Minimised effort

> With hardwood screw development innovations
> Significantly reduced turning resistance from the friction part
> Longer battery life for screwdriver

Fastest screwing processes

> HiLo thread is a double thread with high and low flanks
> The very high thread pitch enables very fast screwing and saves time - compared to conventional timber construction screws
> The highest technical values guarantee a secure hold, even for oblique and cross grained timber screw connections

Low splitting, less resistance

> The cutting groove on the flanks reduces the splitting effect and the turning resistance by cutting the fibres.

Patented tip – no pre-drilling necessary

> Self-drilling tip with ridged core
> Saves time by biting precisely and instantly, even with oblique and end grain screw connections
> Much less splitting and lower screw-in resistance compared to conventional timber construction screws

Design Guide Eurocode
All technical specifications for our RAPID® screws:
www.schmid-screw.com/downloads

Box includes adapted, customised bit

Photos © Wiehag photographer James Silverman, World of Volvo

Dimensions

RAPID® CS

dimension [mm]		drive
Ø *d*	length	
3.0	16 to 45	T10
3.5	16 to 50	T20
4.0	20 to 70	T20
4.5	20 to 80	T20
5.0	20 to 120	T25 / T20 carpentry line
6.0	50 to 300	T30
8.0	80 to 500	T40
10.0	80 to 500	T50
12.0	100 to 400	T50

Washer CS

Washers for timber construction screws	
Ø *d* [mm]	Surface
6.0	yellow galvanised
8.0	yellow galvanised
10.0	yellow galvanised
12.0	yellow galvanised

RAPID® WH

dimension [mm]		drive
Ø *d*	length	
6.0	60 to 300	T30
8.0	80 to 500	T40
10.0	100 to 500	T50

RAPID® SSF

dimension [mm]		drive
Ø *d*	length	
6.0	80 to 200	T30
8.0	80 to 400	T40
10.0	120 to 400	T50

RAPID® Dual

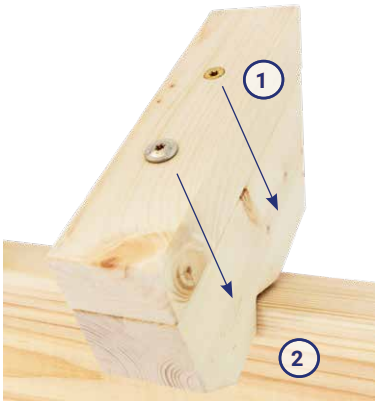
dimension [mm]		drive	
Ø *d*	length		
8.0	50 to 400	T30	SW 12
10.0	60 to 400	T40	SW 15
12.0	80 to 400	T50	SW 17

Photos © Expo Austria

Applications

DOUBLING RAFTERS (1)

The doubling to reinforce the rafter is usually done at the top or side of the rafter. This is where the countersunk head comes in, which can be sunk effortlessly.



RAFTERS (2)

Partially threaded screws, e.g. RAPID® WH, transfer the wind suction load and shear forces to the substructure via the screw heads.

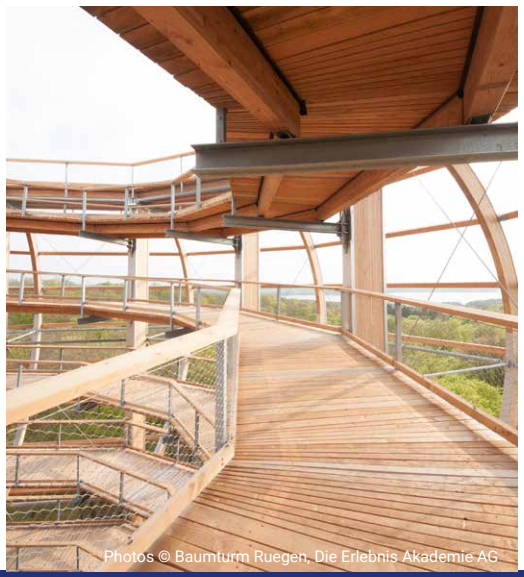
METAL SHEETS AND SHAPED SHEET METAL PARTS

RAPID® Dual - and RAPID® SSF screws are optimal for metal plates and shaped sheet metal parts. These screws have an underhead shoulder which allows them to be optimally centred and to fit perfectly in the metal.

CLT WALLS AND FLOORS

Cross-laminated timber (CLT) – ceiling panel screw connection to the walls with RAPID® SuperSenkFix. Schmid timber construction screws are approved for all applications in side and end grain (0° and 90°) as well as in CLT side and narrow surfaces.

Corner and wall screw connections are pulled tightly together and securely screwed with RAPID® SuperSenkFix.



Photos © Baumturm Ruegen, Die Erlebnis Akademie AG

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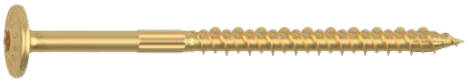
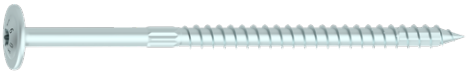
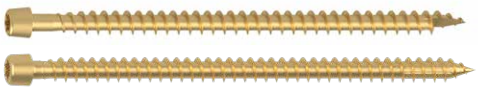
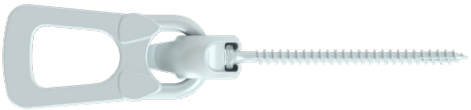
Product range overview

Product		Ø *d* [mm]	Application examples
RAPID® CS (countersunk head)		3.0 | 3.5 | 4.0 4.5 | 5.0 | 6.0 8.0 | 10.0 | 12.0	• Carpentry – interior fittings • Shell construction – formwork • CLT construction (solid timber walls • Traditional roof trusses • Solid timber floors
RAPID® WH (washer head)		6.0 | 8.0 | 10.0	
RAPID® SSF (SuperSenkFix)		6.0 | 8.0 | 10.0	• Timber to timber connections • Screw press bonding • Metal to timber connections • CLT construction (solid timber walls)
RAPID® Dual		8.0 | 10.0 | 12.0	• Metal to timber connections • Timber to timber connections • Connections in roof structures (rafters on purlins. Ø 12 mm)
StarDrive GPR CS (countersunk head)		4.0 | 4.5 | 5.0 6.0 | 8.0 | 10.0	• Carpentry / Interior design • Timber construction • Carpentry • Ø 8 mm available in stainless steel
StarDrive GPR WH (washer head)		6.0 | 8.0 | 10.0	
RAPID® Hardwood CS (countersunk head)		8.0	• First timber construction screw approved for use without pre-drilling in all hardwoods • Approved for use in side and end grain (90° to 0°) as well as in the side and narrow surface of FSH beech plywood (BauBuche)
RAPID® Hardwood WH (washer head)			
RAPID® FT CL (fullthread cylinder head)		6.0 | 8.0 | 10.0	• Glued laminated timber construction • CLT construction (solid wood walls • Reinforcements
RAPID® FT CS (fullthread countersunk head)		8.0 | 10.0 | 12.0	
RAPID® T-Lift		12.0 / 1.3 t 16.0 / 2.5 t	• Lifting prefabricated roof. wall and ceiling elements. in timber panel construction for the prefabricated house industry. solid wood panels such as cross-laminated timber and similar materials • for metal to timber connections
RAPID® T-Con		8.0	• Timber-concrete composite • Renovation and new construction
RAPID® Top-2-Roof		8.0	• Roof and facade insulation
StarDrive GPR PS		8.0	• Post screw • Metal to timber connections

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