

ASSY® 4 CSMP universal screw Steel zinc plated full thread countersunk milling pocket head

Universal full-thread screw for fast, permanent fixing of wood-wood connections or metal-wood fastening in furniture construction, interior construction or wood construction in indoor dry or sheltered areas

Ideal power transmission thanks to RW drive

- More power due to larger contact area at the bit
- More stability, one-handed working, precise positioning due to the tight-fit recess and perfect fit of the bit
- Fewer bit changes, one bit for many screw diameters
- Compatibility with previous AW drive

No over-tightening or stripping and high feed

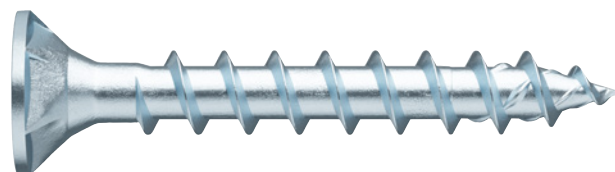
- Higher power transmission in hardwoods due to reinforced, asymmetrical thread flank geometry of the coarse thread
- Better anchoring thanks to higher thread flanks

Smooth thread start ensures optimised recessing and biting of the screw

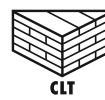
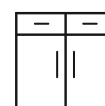
- Reduced splitting effect due to displacement effect of the dome-shaped milling elements in the tip
- Friction-reduced thread rotation allows reduction of the screw-in force to be applied

High strength values and ductility

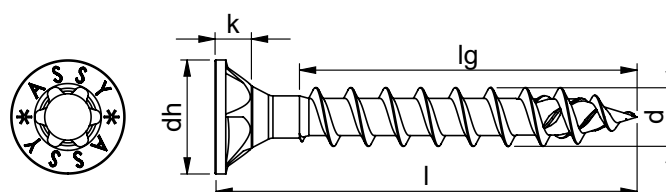
- Adjusted heat treatment guarantees high strength values and high ductility



ASSY® 



Material	Hardened steel
Surface	Zinc plated
RoHS-compliant	Yes



Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (dh)	Head height (k)	Internal drive	Art. no.	P. Qty.
5 mm	25 mm	20 mm	9.6 mm	3.2 mm	RW20	0190 050 25	500
5 mm	30 mm	25 mm	9.6 mm	3.2 mm	RW20	0190 050 30	500
5 mm	35 mm	30 mm	9.6 mm	3.2 mm	RW20	0190 050 35	500
5 mm	40 mm	32 mm	9.6 mm	3.2 mm	RW20	0190 050 40	500
5 mm	45 mm	37 mm	9.6 mm	3.2 mm	RW20	0190 050 45	250
5 mm	50 mm	42 mm	9.6 mm	3.2 mm	RW20	0190 050 50	250
5 mm	55 mm	47 mm	9.6 mm	3.2 mm	RW20	0190 050 55	250
5 mm	60 mm	52 mm	9.6 mm	3.2 mm	RW20	0190 050 60	250
5 mm	70 mm	62 mm	9.6 mm	3.2 mm	RW20	0190 050 70	200

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Head height (k)	Internal drive	Art. no.	P. Qty.
5 mm	80 mm	72 mm	9.6 mm	3.2 mm	RW20	0190 050 80	100
6 mm	30 mm	24 mm	12 mm	4.4 mm	RW40	0190 060 30	250
6 mm	40 mm	32 mm	12 mm	4.4 mm	RW40	0190 060 40	250
6 mm	45 mm	37 mm	12 mm	4.4 mm	RW40	0190 060 45	250
6 mm	50 mm	42 mm	12 mm	4.4 mm	RW40	0190 060 50	250
6 mm	55 mm	45 mm	12 mm	4.4 mm	RW40	0190 060 55	250
6 mm	60 mm	50 mm	12 mm	4.4 mm	RW40	0190 060 60	200
6 mm	70 mm	60 mm	12 mm	4.4 mm	RW40	0190 060 70	200
6 mm	80 mm	70 mm	12 mm	4.4 mm	RW40	0190 060 80	100

Can be stored neatly in ORSY racks or ORSYMAT vending machines

Details/Application

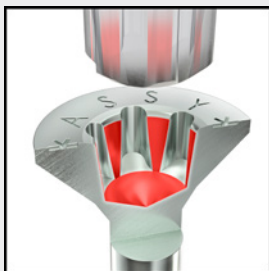
For steel-wood connections designed for tensile forces

The full thread starting immediately below the head allows for e.g. fitting-wood or sheet material-wood connections designed for tensile forces with high load-bearing capacity. Greater screw pull-out force is achieved by the maximum thread length.

For applications in utilisation class 1 and utilisation class 2 (from Ø > 4 mm)

- High-quality surface protection zinc blue passivated chromium(VI)-free, up to Ø 4 mm A2K 5 µm, from Ø 4.5 mm A3K 8 µm layer thickness
- Suitable for use in utilisation class 1 (interior) and from a Ø > 4 mm in utilisation class 2 (covered outdoor area) according to EN 1995-1-1:2010-12 + DIN SPEC 1052-100:2013-08
- For screws from Ø 4.5 mm with zinc layer thickness 8 µm with Cr(III) passivation, the requirement of classification T2/C2 is fulfilled in accordance with prEN 14592:2017 (D)

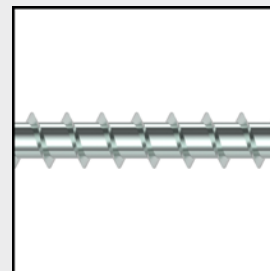
RW drive



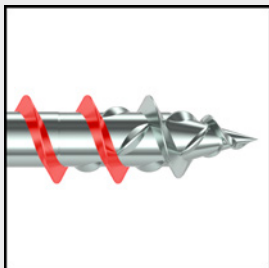
Countersunk head with milled pockets



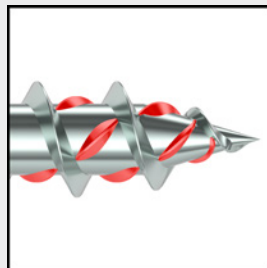
Full thread



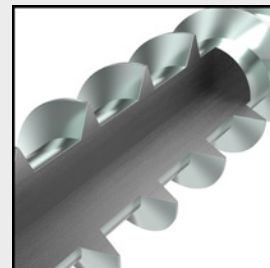
Asymmetrical high-performance thread (coarse)



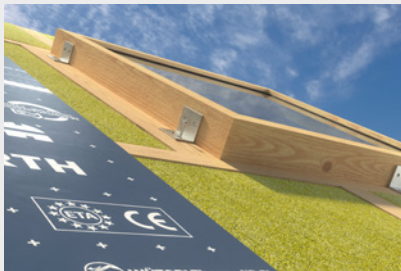
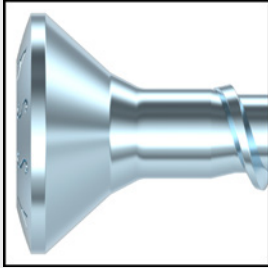
Tip with milling ribs



Hardened steel



Zinc-plated/A2K or A3K



Instructions

- ASSY screws are approved for quasi-static loads
- For optimum use of the screw, the right-size RW bit must be used
- Full-thread screws are suitable for secure mounting of fittings or thin materials. The screw length to be selected should be less than the plate thickness of substrate the screw is to be driven in

Proof of performance

ETA-11/0190 approved



Notice

- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- Do not use the screw in applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas. If used outdoors and in rooms that are constantly exposed to high humidity, please use ASSY 4 A2 or A4 stainless steel screws and, if atmosphere contains chlorine, HCR stainless steel screws
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

The requirements of the European Technical Approval (ETA) must be observed