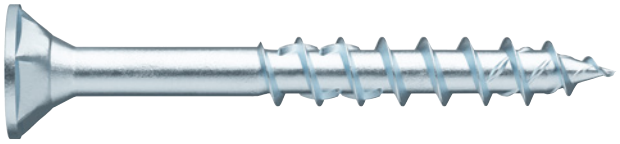
ASSY® 4 CSMP universal screw Steel zinc plated partial thread countersunk milling pocket head

Universal partial-thread screw for fast, gap-free fastening of wood-wood connections in furniture construction, interior fitting or wood construction in indoor dry or sheltered areas



Ideal power transmission thanks to RW recess

- 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, 1 bit for many screw diameters
- Compatibility with previous AW drive

Significant reduction in the amount of force required when screwing in the screw

- Low gap effect when immersing the shank due to the displacement milling effect of the milling shank
- Minimised risk of screw breakage due to high breaking torque
- Reduced risk of injury from protruding metal chips due to the integration of the milling shank into the thread
- High protection of the application tools

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 anchorage thanks to higher thread flanks

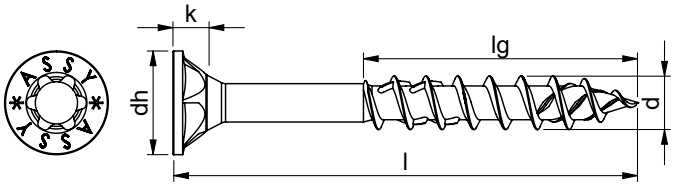
Smooth thread start ensures optimised recessing and biting of the screw

- Low gap 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

Material	Hardened steel
Surface	Zinc plated
RoHS-compliant	Yes



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Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d_h)	Head height (k)	Internal drive	Art. no.	P. Qty.
3 mm	20 mm	12 mm	5.9 mm	1.9 mm	RW10	**0190 130 20**	1000
3 mm	25 mm	17 mm	5.9 mm	1.9 mm	RW10	**0190 130 25**	1000
3 mm	30 mm	17 mm	5.9 mm	1.9 mm	RW10	**0190 130 30**	1000
3 mm	35 mm	22 mm	5.9 mm	1.9 mm	RW10	**0190 130 35**	1000
3 mm	40 mm	25 mm	5.9 mm	1.9 mm	RW10	**0190 130 40**	500
3.5 mm	20 mm	12 mm	7 mm	2.3 mm	RW20	**0190 135 20**	1000
3.5 mm	25 mm	17 mm	7 mm	2.3 mm	RW20	**0190 135 25**	1000
3.5 mm	30 mm	18 mm	7 mm	2.3 mm	RW20	**0190 135 30**	1000
3.5 mm	35 mm	21 mm	7 mm	2.3 mm	RW20	**0190 135 35**	1000
3.5 mm	40 mm	25 mm	7 mm	2.3 mm	RW20	**0190 135 40**	500
3.5 mm	45 mm	30 mm	7 mm	2.3 mm	RW20	**0190 135 45**	500
3.5 mm	50 mm	30 mm	7 mm	2.3 mm	RW20	**0190 135 50**	500
4 mm	20 mm	12 mm	8 mm	2.5 mm	RW20	**0190 140 20**	1000
4 mm	25 mm	18 mm	8 mm	2.5 mm	RW20	**0190 140 25**	1000
4 mm	30 mm	18 mm	8 mm	2.5 mm	RW20	**0190 140 30**	500
4 mm	35 mm	21 mm	8 mm	2.5 mm	RW20	**0190 140 35**	500
4 mm	40 mm	24 mm	8 mm	2.5 mm	RW20	**0190 140 40**	500
4 mm	45 mm	29 mm	8 mm	2.5 mm	RW20	**0190 140 45**	500
4 mm	50 mm	33 mm	8 mm	2.5 mm	RW20	**0190 140 50**	500
4 mm	55 mm	34 mm	8 mm	2.5 mm	RW20	**0190 140 55**	250
4 mm	60 mm	34 mm	8 mm	2.5 mm	RW20	**0190 140 60**	250
4 mm	70 mm	34 mm	8 mm	2.5 mm	RW20	**0190 140 70**	200
4.5 mm	35 mm	21 mm	8.9 mm	2.8 mm	RW20	**0190 145 35**	500
4.5 mm	40 mm	26 mm	8.9 mm	2.8 mm	RW20	**0190 145 40**	500
4.5 mm	45 mm	26 mm	8.9 mm	2.8 mm	RW20	**0190 145 45**	500
4.5 mm	50 mm	28 mm	8.9 mm	2.8 mm	RW20	**0190 145 50**	250
4.5 mm	60 mm	33 mm	8.9 mm	2.8 mm	RW20	**0190 145 60**	250
4.5 mm	70 mm	38 mm	8.9 mm	2.8 mm	RW20	**0190 145 70**	200
4.5 mm	80 mm	43 mm	8.9 mm	2.8 mm	RW20	**0190 145 80**	200
4.5 mm	100 mm	48 mm	8.9 mm	2.8 mm	RW20	**0190 145 100**	100
5 mm	30 mm	20 mm	9.6 mm	3.2 mm	RW20	**0190 150 30**	500
5 mm	35 mm	20 mm	9.6 mm	3.2 mm	RW20	**0190 150 35**	500
5 mm	40 mm	25 mm	9.6 mm	3.2 mm	RW20	**0190 150 40**	500
5 mm	45 mm	30 mm	9.6 mm	3.2 mm	RW20	**0190 150 45**	250
5 mm	50 mm	30 mm	9.6 mm	3.2 mm	RW20	**0190 150 50**	250
5 mm	55 mm	32 mm	9.6 mm	3.2 mm	RW20	**0190 150 55**	250
5 mm	60 mm	37 mm	9.6 mm	3.2 mm	RW20	**0190 150 60**	250
5 mm	70 mm	42 mm	9.6 mm	3.2 mm	RW20	**0190 150 70**	200
5 mm	80 mm	42 mm	9.6 mm	3.2 mm	RW20	**0190 150 80**	100
5 mm	90 mm	47 mm	9.6 mm	3.2 mm	RW20	**0190 150 90**	100
5 mm	100 mm	52 mm	9.6 mm	3.2 mm	RW20	**0190 150 100**	100
5 mm	110 mm	52 mm	9.6 mm	3.2 mm	RW20	**0190 150 110**	100
5 mm	120 mm	62 mm	9.6 mm	3.2 mm	RW20	**0190 150 120**	100
6 mm	40 mm	24 mm	12 mm	4.4 mm	RW30	**0190 160 41**	250
6 mm	50 mm	32 mm	12 mm	4.4 mm	RW30	**0190 160 51**	250
6 mm	60 mm	37 mm	12 mm	4.4 mm	RW30	**0190 160 61**	200
6 mm	70 mm	42 mm	12 mm	4.4 mm	RW30	**0190 160 71**	200
6 mm	80 mm	50 mm	12 mm	4.4 mm	RW30	**0190 160 81**	100
6 mm	90 mm	50 mm	12 mm	4.4 mm	RW30	**0190 160 91**	100
6 mm	100 mm	60 mm	12 mm	4.4 mm	RW30	**0190 160 101**	100
6 mm	110 mm	70 mm	12 mm	4.4 mm	RW30	**0190 160 111**	100
6 mm	120 mm	70 mm	12 mm	4.4 mm	RW30	**0190 160 121**	100
6 mm	130 mm	70 mm	12 mm	4.4 mm	RW30	**0190 160 131**	100
6 mm	140 mm	70 mm	12 mm	4.4 mm	RW30	**0190 160 141**	100

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Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d_h)	Head height (k)	Internal drive	Art. no.	P. Qty.
6 mm	150 mm	70 mm	12 mm	4.4 mm	RW30	**0190 160 151**	100
6 mm	160 mm	70 mm	12 mm	4.4 mm	RW30	**0190 160 161**	100
6 mm	180 mm	70 mm	12 mm	4.4 mm	RW30	**0190 160 181**	100
6 mm	200 mm	70 mm	12 mm	4.4 mm	RW30	**0190 160 201**	100
6 mm	220 mm	70 mm	12 mm	4.4 mm	RW30	**0190 160 221**	100
6 mm	240 mm	70 mm	12 mm	4.4 mm	RW30	**0190 160 241**	100
6 mm	260 mm	70 mm	12 mm	4.4 mm	RW30	**0190 160 261**	100
6 mm	280 mm	70 mm	12 mm	4.4 mm	RW30	**0190 160 281**	100
6 mm	300 mm	70 mm	12 mm	4.4 mm	RW30	**0190 160 301**	100
6 mm	40 mm	24 mm	12 mm	4.4 mm	RW40	**0190 160 40**	250
6 mm	50 mm	32 mm	12 mm	4.4 mm	RW40	**0190 160 50**	250
6 mm	60 mm	37 mm	12 mm	4.4 mm	RW40	**0190 160 60**	200/1000
6 mm	70 mm	42 mm	12 mm	4.4 mm	RW40	**0190 160 70**	200
6 mm	80 mm	50 mm	12 mm	4.4 mm	RW40	**0190 160 80**	100
6 mm	90 mm	50 mm	12 mm	4.4 mm	RW40	**0190 160 90**	100
6 mm	100 mm	60 mm	12 mm	4.4 mm	RW40	**0190 160 100**	100
6 mm	110 mm	70 mm	12 mm	4.4 mm	RW40	**0190 160 110**	100
6 mm	120 mm	70 mm	12 mm	4.4 mm	RW40	**0190 160 120**	100
6 mm	130 mm	70 mm	12 mm	4.4 mm	RW40	**0190 160 130**	100
6 mm	140 mm	70 mm	12 mm	4.4 mm	RW40	**0190 160 140**	100
6 mm	150 mm	70 mm	12 mm	4.4 mm	RW40	**0190 160 150**	100
6 mm	160 mm	70 mm	12 mm	4.4 mm	RW40	**0190 160 160**	100
6 mm	180 mm	70 mm	12 mm	4.4 mm	RW40	**0190 160 180**	100
6 mm	200 mm	70 mm	12 mm	4.4 mm	RW40	**0190 160 200**	100
6 mm	220 mm	70 mm	12 mm	4.4 mm	RW40	**0190 160 220**	100
6 mm	240 mm	70 mm	12 mm	4.4 mm	RW40	**0190 160 240**	100
6 mm	260 mm	70 mm	12 mm	4.4 mm	RW40	**0190 160 260**	100
6 mm	280 mm	70 mm	12 mm	4.4 mm	RW40	**0190 160 280**	100
6 mm	300 mm	70 mm	12 mm	4.4 mm	RW40	**0190 160 300**	100
7 mm	80 mm	50 mm	13.7 mm	4.7 mm	RW40	**0190 170 80**	100
7 mm	90 mm	50 mm	13.7 mm	4.7 mm	RW40	**0190 170 90**	100
7 mm	100 mm	60 mm	13.7 mm	4.7 mm	RW40	**0190 170 100**	100
7 mm	120 mm	70 mm	13.7 mm	4.7 mm	RW40	**0190 170 120**	100
7 mm	140 mm	70 mm	13.7 mm	4.7 mm	RW40	**0190 170 140**	100
7 mm	160 mm	85 mm	13.7 mm	4.7 mm	RW40	**0190 170 160**	100
7 mm	180 mm	85 mm	13.7 mm	4.7 mm	RW40	**0190 170 180**	100
7 mm	200 mm	85 mm	13.7 mm	4.7 mm	RW40	**0190 170 200**	100
7 mm	220 mm	85 mm	13.7 mm	4.7 mm	RW40	**0190 170 220**	100
7 mm	240 mm	85 mm	13.7 mm	4.7 mm	RW40	**0190 170 240**	100
7 mm	260 mm	85 mm	13.7 mm	4.7 mm	RW40	**0190 170 260**	100
7 mm	280 mm	85 mm	13.7 mm	4.7 mm	RW40	**0190 170 280**	100
7 mm	300 mm	85 mm	13.7 mm	4.7 mm	RW40	**0190 170 300**	100
8 mm	80 mm	50 mm	15 mm	4.9 mm	RW40	**0190 180 80**	*75*
8 mm	100 mm	60 mm	15 mm	4.9 mm	RW40	**0190 180 100**	*75*
8 mm	120 mm	80 mm	15 mm	4.9 mm	RW40	**0190 180 120**	*75*
8 mm	140 mm	80 mm	15 mm	4.9 mm	RW40	**0190 180 140**	*75*
8 mm	160 mm	80 mm	15 mm	4.9 mm	RW40	**0190 180 160**	*75*
8 mm	180 mm	80 mm	15 mm	4.9 mm	RW40	**0190 180 180**	*75*
8 mm	200 mm	80 mm	15 mm	4.9 mm	RW40	**0190 180 200**	*75*
8 mm	220 mm	100 mm	15 mm	4.9 mm	RW40	**0190 180 220**	*75*
8 mm	240 mm	100 mm	15 mm	4.9 mm	RW40	**0190 180 240**	*75*
8 mm	260 mm	100 mm	15 mm	4.9 mm	RW40	**0190 180 260**	*75*
8 mm	280 mm	100 mm	15 mm	4.9 mm	RW40	**0190 180 280**	*75*
8 mm	300 mm	100 mm	15 mm	4.9 mm	RW40	**0190 180 300**	*75*

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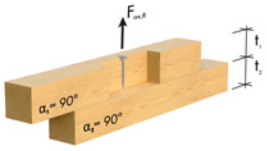
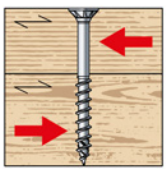
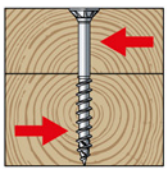
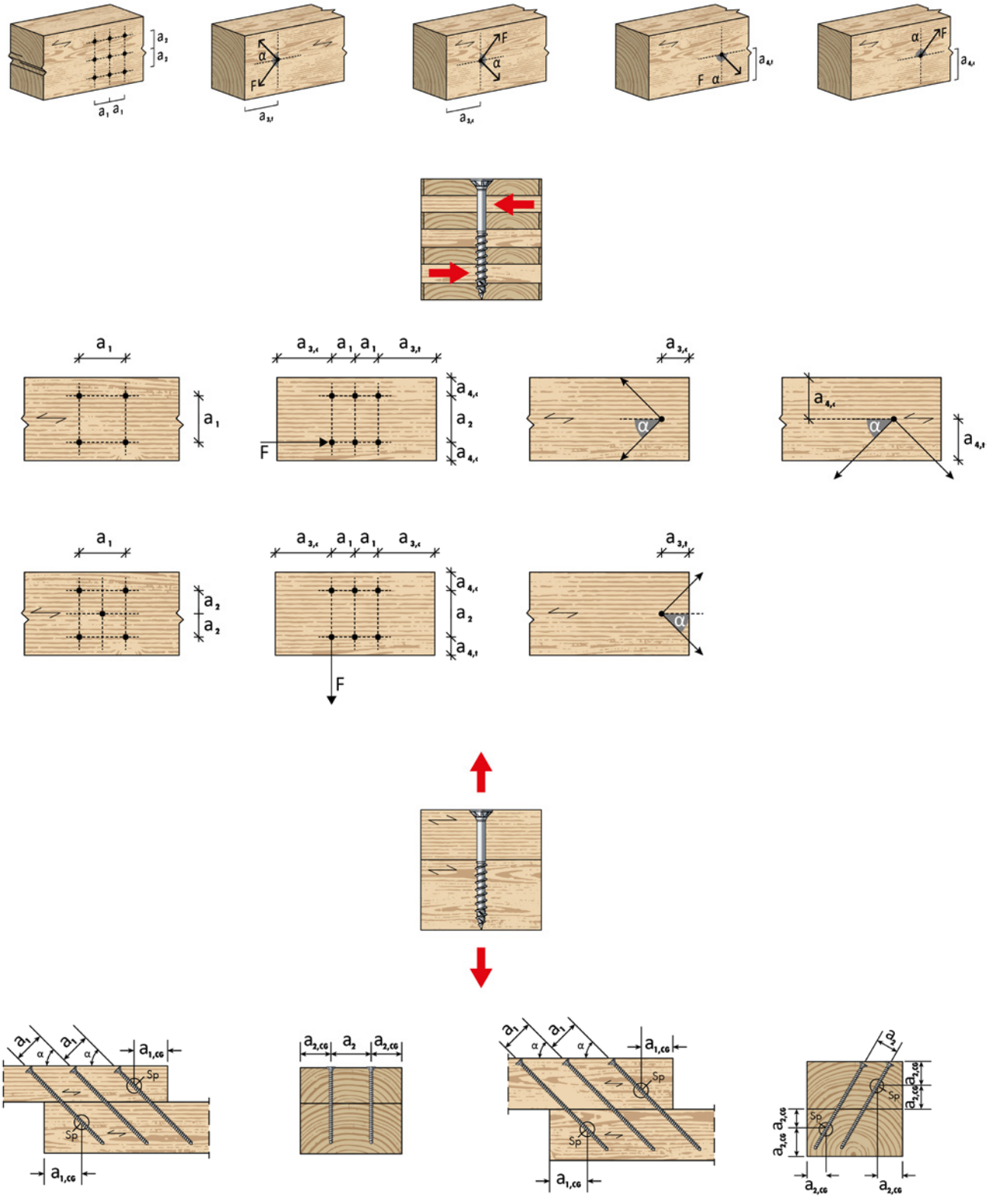
Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d_h)	Head height (k)	Internal drive	Art. no.	P. Qty.
8 mm	320 mm	100 mm	15 mm	4.9 mm	RW40	**0190 180 320**	100
8 mm	340 mm	100 mm	15 mm	4.9 mm	RW40	**0190 180 340**	100
8 mm	360 mm	100 mm	15 mm	4.9 mm	RW40	**0190 180 360**	100
8 mm	380 mm	100 mm	15 mm	4.9 mm	RW40	**0190 180 380**	100
8 mm	400 mm	100 mm	15 mm	4.9 mm	RW40	**0190 180 400**	100
10 mm	80 mm	50 mm	18.5 mm	5.8 mm	RW40	**0190 110 80**	50
10 mm	100 mm	60 mm	18.5 mm	5.8 mm	RW40	**0190 110 100**	50
10 mm	120 mm	80 mm	18.5 mm	5.8 mm	RW40	**0190 110 120**	50
10 mm	140 mm	80 mm	18.5 mm	5.8 mm	RW40	**0190 110 140**	50
10 mm	160 mm	100 mm	18.5 mm	5.8 mm	RW40	**0190 110 160**	50
10 mm	180 mm	100 mm	18.5 mm	5.8 mm	RW40	**0190 110 180**	50
10 mm	200 mm	100 mm	18.5 mm	5.8 mm	RW40	**0190 110 200**	50
10 mm	220 mm	100 mm	18.5 mm	5.8 mm	RW40	**0190 110 220**	50
10 mm	240 mm	100 mm	18.5 mm	5.8 mm	RW40	**0190 110 240**	50
10 mm	260 mm	100 mm	18.5 mm	5.8 mm	RW40	**0190 110 260**	50
10 mm	280 mm	100 mm	18.5 mm	5.8 mm	RW40	**0190 110 280**	50
10 mm	300 mm	100 mm	18.5 mm	5.8 mm	RW40	**0190 110 300**	50
10 mm	320 mm	120 mm	18.5 mm	5.8 mm	RW40	**0190 110 320**	50
10 mm	340 mm	120 mm	18.5 mm	5.8 mm	RW40	**0190 110 340**	50
10 mm	360 mm	120 mm	18.5 mm	5.8 mm	RW40	**0190 110 360**	50
10 mm	380 mm	120 mm	18.5 mm	5.8 mm	RW40	**0190 110 380**	50
10 mm	400 mm	120 mm	18.5 mm	5.8 mm	RW40	**0190 110 400**	50

Can be stored neatly in ORSY racks or ORSYMAT vending machines









Details/Application

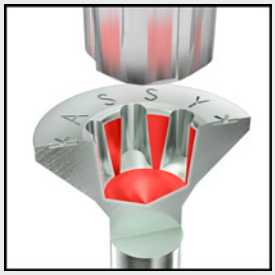
For wood-wood connections designed to pull together

The partial thread starting immediately below the shank allows for wood-wood connections designed to pull together. The screw thread is positioned entirely in the lower component once screwed in.

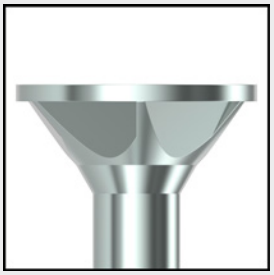
For applications in utilisation class 1 and utilisation class 2 (from Ø > 4 mm)

- 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)

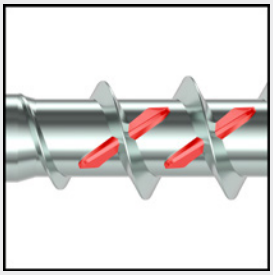
RW drive



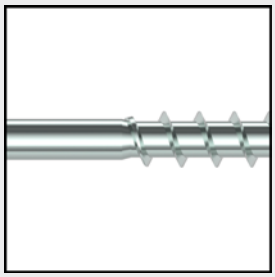
Countersunk head with milled pockets



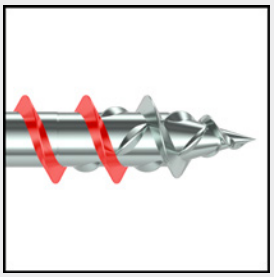
Integrated milling shank from Ø 5 mm and length 70 mm



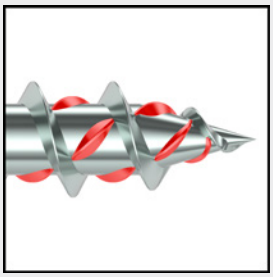
Partial thread



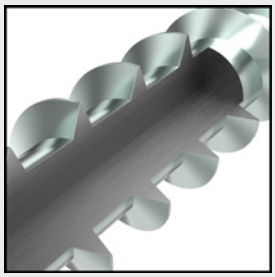
Asymmetrical high-performance thread (coarse)



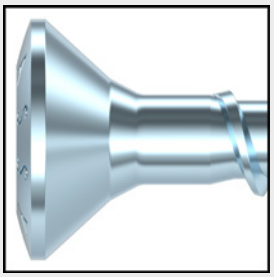
Tip with milling ribs



Hardened steel



Zinc-plated/A2K or A3K



Instructions

- To increase the joining effect or head pull-through resistance, combining with perfectly fitting washers for ASSY 4 is recommended
- ASSY screws are approved for quasi-static loads
- For optimum use of the screw, the right-size RW bit must be used
- Partial-thread screws are ideal for connecting wooden components. To achieve optimum assembly of the components, the components to be fixed must not be thicker than the length of the shank

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

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