

SLEEVE ANCHORS



Bremick Sleeve Anchors are one piece, preassembled, torque controlled, mechanical anchors consisting of a threaded plow bolt with a cold formed coned end assembled with a pressed carbon steel expansion sleeve. During setting the cone is drawn into the anchor sleeve which provides sufficient expansion force to provide a lock to the base material through a combination of friction and base material deformation. Pretension in the installed anchor is preserved by pre engineered deformations in the sleeve that are designed to crush during the installation process.

Also available in galvanised and stainless steel finishes along with flush head, eye, hook and suspension formats.

All dimensions in mm

Hole Size	Thread Length	Anchor Depth	Hole Size	Max Mat. Thick	Pack Size	Product Code
6.5	M5	25	21	41	100	ASNMZ060252
		35	30	5		ASNMZ060352
		55	40	15		ASNMZ060552
		75	55	20		ASNMZ060752
8	M6	40	25	15	100	ASNMZ080402
		65	35	30		ASNMZ080652
		85	50	35	50	ASNMZ080852
10	M8	40	35	5	50	ASNMZ100402
		50	40	10		ASNMZ100502
		60	50	10		ASNMZ100602
		75	55	20		ASNMZ100752
		100	60	40	25	ASNMZ101002
12	M10	125	75	50		ASNMZ101252
		60	40	20	25	ASNMZ120602
		60	40	20	100	ASNMZ12060B
		75	50	25	25	ASNMZ120752
		100	60	40	20	ASNMZ121002
16	M12	130	80	50		ASNMZ12130
		65	55	10	20	ASNMZ160652
		110	70	40	10	ASNMZ161102
		145	95	50		ASNMZ161452
20*	M16	75	60	15	10	ASNMZ200752
		105	80	25	5	ASNMZ201052
		150	100	50		ASNMZ201502

SLEEVE ANCHOR HEX FLANGE NUT



- Metric
- SS 316



SLEEVE ANCHOR CSK



- Metric
- SS 316



SLEEVE ANCHOR FLUSH HEAD



- Metric
- SS 316



STUD ANCHOR



- Metric
- SS 316



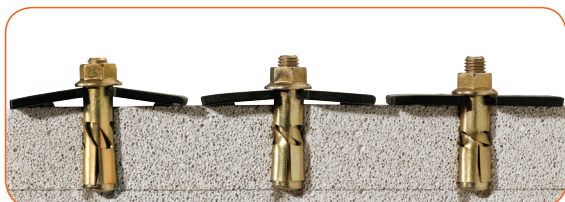
DROP IN ANCHOR



- Metric
- SS 316



DynaBolt™ PLUS SLEEVE ANCHOR



DynaBolt™ PLUS SLEEVE ANCHORS HEX BOLT

Description

The DynaBolt™ Plus Sleeve Anchor is a medium duty, torque setting expansion anchor. Patented sleeve crushes to close gaps up to 5 mm and pulls down to induce clamp load.

Features & Benefits

- The DynaBolt™ Plus patented expansion sleeve closes gaps of up to 5mm, pulling down on the fixture to induce clamp load and provide improved security.
- The DynaBolt™ Plus is a fully assembled through fixture anchor. Therefore, assembly, marking out and re-positioning of fixtures is eliminated making installation fast and easy.

DynaBolt™ PLUS SLEEVE ANCHOR HEX NUT - ZINC, GALVANISED & STAINLESS STEEL



Product Codes & Specifications

Material	Item Code	Thread Size	Anchor Length(mm)	Drilled Hole Ø (mm)	Max Fixture Thickness (mm)	Fixture Hole Ø (mm)	Pack Qty
●	D6026	M4.5	26	6	3	8	100
●	DP06040	M4.5	38	6	12	8	100
◆	DP06040SS	M4.5	38	6	12	8	100
●	DP06060	M4.5	57	6	30	8	100
◆	DP06060SS	M4.5	57	6	30	8	100
●	DP08040	M6	40	8	6	10	100
◆	DP08040SS	M6	40	8	6	10	100
●	DP08065	M6	66	8	25	10	50
◆	DP08065SS	M6	66	8	25	10	50
●	DP08090	M6	92	8	50	10	50
●	DP10040	M8	41	10	3	12	50
■	DP10040GH	M8	41	10	3	12	50
●	DP10050	M8	49	10	20	12	50
■	DP10050GH	M8	49	10	20	12	50
◆	DP10050SS	M8	49	10	20	12	50
●	DP10075	M8	76	10	30	12	50
■	DP10075GH	M8	76	10	30	12	50
◆	DP10075SS	M8	76	10	30	12	50
●	DP10100	M8	103	10	50	12	25
■	DP10100GH	M8	103	10	50	12	25
◆	DP10100SS	M8	103	10	50	12	25
●	DP10125	M8	124	10	80	12	25
●	DP12060	M10	55	12	10	15	25
■	DP12060GH	M10	55	12	10	15	25
◆	DP12060SS	M10	55	12	10	15	25
●	DP12070	M10	70	12	15	15	25
■	DP12070GH	M10	70	12	15	15	25
◆	DP12070SS	M10	70	12	15	15	25
●	DP12100	M10	98	12	45	15	20
■	DP12100GH	M10	98	12	45	15	20
◆	DP12100SS	M10	98	12	45	15	20
●	DP12125	M10	126	12	70	15	20
■	DP12125GH	M10	126	12	70	15	20
●	DP16065	M12	62	16	6	19	20
■	DP16065GH	M12	62	16	6	19	20
●	DP16110	M12	106	16	35	19	10
■	DP16110GH	M12	106	16	35	19	10
●	DP16140	M12	140	16	65	19	10
■	DP16140GH	M12	140	16	65	19	10
●	DP20080	M16	81	20	8	24	10
●	DP20115	M16	113	20	25	24	5
●	DP20160	M16	157	20	70	24	5



Multiple Head Styles for a variety of applications are also available

Patented Expansion Sleeve provides "pull-down" onto fixture

Trades & Applications

Applications	Carpenter	Construction Contractor	Window Installer	Racking Installer
Bottom plates	✓			
Hand rails		✓		
Window frames			✓	
Pallet racking				✓

- Carbon Steel Zinc Plated
- ◆ Stainless Steel 316
- ◆ Galvanised

TruBolt™ STUD ANCHORS STAINLESS STEEL

Description

The TruBolt™ Stud Anchor is a true-to-size, heavy duty, torque controlled expansion anchor, for permanent anchoring into concrete.

Features & Benefits

The TruBolt™ diameter equals the required hole diameter providing maximum shear capacity for hole size and making drill bit selection simple. Its cold forged construction ensures superior strength and reliability.



Trades & Applications

Applications	Steel Fabricator	Elevator Installer	Construction Contractor	Seating Contractor	Racking Installer
Handrails, balustrades & safety barriers	✓				
Anchoring elevator guide rails		✓	✓		
Anchoring structural steel column/beams	✓				
Stadium seating				✓	
Pallet racking					✓

Product Codes & Specifications

Material	Item Code	Thread Diameter	Drill Diameter	Total anchor length	Hole depth minus fixture thickness	Minimum Drilling depth	Maximum fixture thickness	Maximum tightening Torque	Pack Qty
◆	T06055SSA	ø6	ø6	55mm	70mm	65mm	15mm	20Nm	100
◆	T08055SSA	ø8	ø8	55mm	70mm	65mm	5mm	20Nm	100
◆	T08070SSA	ø8	ø8	70mm	85mm	65mm	20mm	20Nm	100
◆	T08090SSA	ø8	ø8	90mm	105mm	65mm	40mm	20Nm	50
◆	T08130SSA	ø8	ø8	130mm	145mm	65mm	80mm	20Nm	50
◆	T10065SSA	ø10	ø10	65mm	83mm	78mm	5mm	35Nm	50
◆	T10075SSA	ø10	ø10	75mm	93mm	78mm	15mm	35Nm	50
◆	T10095SSA	ø10	ø10	95mm	113mm	78mm	35mm	35Nm	50
◆	T10120SSA	ø10	ø10	120mm	138mm	78mm	60mm	35Nm	25
◆	T12080SSA	ø12	ø12	80mm	100mm	95mm	5mm	50Nm	25
◆	T12100SSA	ø12	ø12	100mm	120mm	95mm	25mm	50Nm	25
◆	T12115SSA	ø12	ø12	115mm	135mm	95mm	40mm	50Nm	25
◆	T12140SSA	ø12	ø12	140mm	160mm	95mm	65mm	50Nm	25
◆	T16125SSA	ø16	ø16	125mm	147mm	117mm	30mm	100Nm	25
◆	T16150SSA	ø16	ø16	150mm	172mm	117mm	55mm	100Nm	10
◆	T16170SSA	ø16	ø16	170mm	192mm	117mm	75mm	100Nm	10

- Carbon Steel Zinc Plated
- ◆ Stainless Steel 316
- ◆ Galvanised

WEDGE ANCHOR - ETA APPROVED



Through bolt anchor for heavy loads in concrete and un-cracked concrete.

DIAMETER	LENGTH
8mm	75mm/95mm
10mm	90mm/115mm
12mm	80mm-180mm
16mm	145mm-175mm
20mm	170mm



DROP IN ANCHOR- ETA APPROVED



A drop in Anchor designed for medium duty application in solid concrete of 25MPa or greater where female socket fixing is required.

Diameters Available:
8mm | 10mm | 12mm



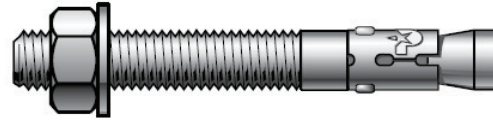
THROUGH BOLT - ZINC



- Three-piece, heavy-duty steel expander sleeve for efficient high-slip loading
- Extra-long thread for fixture adjustment and packing
- ETA Option 1 approval for uncracked concrete (Where noted in desc)

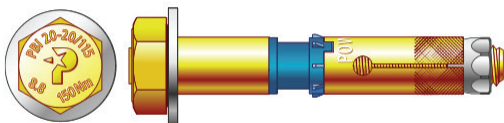
Material Number	Description
69294-PWR	PTB-ETA1-PRO M6X85
PTB06120-PWR	Through Bolt M6X120
69308-PWR	PTB1-8X85
69314-PWR	PTB1-8X105
69334-PWR	PTB1-10X90
69340-PWR	PTB1-10X120
69358-PWR	PTB1-12X90
69360-PWR	PTB1-12X100
69366-PWR	PTB1-12X135
69372-PWR	PTB1-12X185
69388-PWR	PTB1-16X115
69390-PWR	PTB1-16X125
69392-PWR	PTB1-16X150
69398-PWR	PTB1-16X210
PTB20125-PWR	Through Bolt M20X125
69411-PWR	PTB-ETA1-PRO M20X160
69415-PWR	PTB-ETA1-PRO M20X200

THROUGH BOLT - GALV



Material Number	Description
PTB0885G-PWR	PTB-G-ETA1-PRO 8/30X85MM GAL X100
PTB08105G-PWR	PTB-G-ETA1-PRO 8/50X105MM GAL X100
PTB08130G-PWR	PTB-G-ETA1-PRO 8/75X130MM GAL X50
PTB1060G-PWR	PTB-G-PRO 10/5X60MM GAL X100
PTB1090G-PWR	PTB-G-ETA1-PRO 10/10X90MM GAL X50
PTB10120G-PWR	PTB-G-ETA1-PRO 10/40X120MM GAL X50
PTB1280G-PWR	PTB-G-PRO 12/5X80MM GAL X50
PTB12100G-PWR	PTB-G-ETA1-PRO 12/15X100MM GAL X50
PTB12135G-PWR	PTB-G-ETA1-PRO 12/50X135MM GAL X25
PTB16100G-PWR	PTB-G-PRO 16/5X100MM GAL X25
PTB16125G-PWR	PTB-G-ETA1-PRO 16/15X125MM GAL X20
PTB16150G-PWR	PTB-G-ETA1-PRO 16/40X150MM GAL X20
PTB16210G-PWR	PTB-G-ETA1-PRO 16/100X210MM GAL X10

PBI - PANEL BRACING ANCHOR



Material Number	Description
PBI20-20/115LH-PWR	Pbi Large Head (30Mm) 20/M14X 115Mm

HLS ANCHOR



Expansion Anchor used for structural steel connection to concrete where a high degree of safety is required.

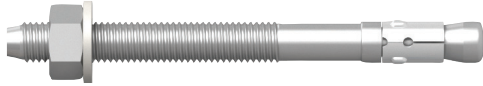
DIAMETER	LENGTH	CODE
20mm	120mm	HLS1420BA



CONCRETE ANCHORING AND ACCESSORIES

CLAWBOLT® WEDGE ANCHOR MAW58YCM

- Zinc Yellow Passivated
- HEC
- Class 5.8



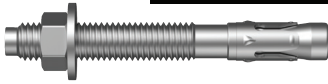
H-IT™ MUSHROOM ANCHOR MHAHTMMM

- Mechanical Galvanised
- HEC
- Carbon Steel



CLAWBOLT® PRO WEDGE ANCHOR EAWMSGD

- Mechanically Galvanised
- M8-M20
- ETA rated in accordance with AS5216



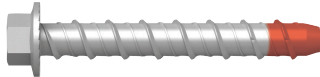
H-IT™ MINI SPLICE WEDGE MHWMSZSM

- Zinc Plated
- HEC
- Carbon Steel



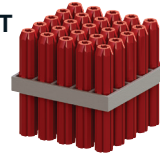
XBolt® HEX FLANGE HEAD MXHMSYM

- Zinc Yellow Passivated
- HEC
- Carbon Steel



WALL PLUG TAPERED POINT MWPFR

- PVC
- For 8-9G Screws
- Red



XBolt® COUPLER MXCMSGM

- Mechanical Galvanised
- HEC
- Carbon Steel



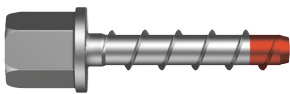
TygaBolt® SLEEVE ANCHOR MTBMSGM

- Mechanical Galvanised
- HEC
- Carbon Steel



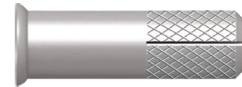
XBolt® VERTICAL HANGER MVXMSZIM

- Zinc Plated
- HEC
- Carbon Steel



DROP IN ANCHOR WITH LIP MDLMSYCM

- Zinc Yellow Passivated
- HEC
- Carbon Steel



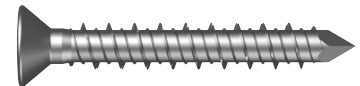
XBolt® PRO SCREW ANCHOR EXHMSR

- R1000 Hours protective coating
- M6-M14
- ETA rated in accordance with AS5216



TX-CON SCREW ANCHOR MTXTRCP

- R1000 Hours protective coating
- M6-M14
- ETA rated in accordance with AS5216



NAIL IN ANCHOR ROUND MNRSM

- Nylon
- HEC
- SS 304 Pin



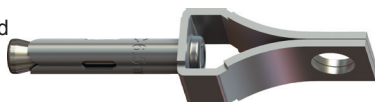
TRADE PAX™ CONXTRACT® ANCHORS FSM

- Clawbolt® Anchors
- Tygabolt® Anchors
- Xbolt® Anchors
- Nail-in Anchors
- Suspension Anchors
- Pantha Plug®



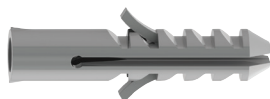
SUSPENSION ANCHOR MSAMSYM

- Zinc Yellow Passivated
- HEC
- Carbon Steel



UNIVERSAL WALL PLUG TAPERED POINT MWPNUG

- Nylon
- HEC
- Grey



WEDGE ANCHORS

The Macsim Wedge Anchor is a one piece, expansion anchor designed to fix a component to concrete and offers the advantage of needing the same clearance hole diameter as the drill hole, to eliminate hole potting of layout. The design gives high tensile and shear performance, with simple installation and instantaneous load capacity.

ETA Approval for use in cracked concrete.



MACSIM®

MASONBOLTS

The Macsim Masonbolt is a medium duty expansion sleeve anchor, with a pull down mechanism designed for fixing timber & steel to brick, block or concrete.

HEAD	FINISH	DRILL SIZE
Hex	YZP/ GAL	6.5mm - 20mm
	316 SS	6.5mm - 12mm
Csk.	YZP/ 316 SS	6.5mm - 10mm
Flush	YZP/ 316 SS	8mm - 16mm
Round	YZP	6.5mm



MACSIM®

NAIL IN PLUGS

The Macsim Nylon Nail in plug has an assembled nail & comes in 3 different head types (Mushroom, Round, Countersunk.) The Nail in Plug is expanded by hammering the nail into the plug. It is designed for quick location fixing into solid brick or concrete.

HEAD	FINISH	DRILL SIZE
CSK	YZP	5mm-6.5mm
Mushroom	YZP/ 304 SS	5mm-6.5mm
Round	YZP	5mm-6.5mm
	304 SS	5mm



MACSIM®

FRAME ANCHORS

The Macsim Nylon Frame Anchor is a one piece plug with the screw guide. The plug is expanded by turning the screw into the plug after through fixing the entire assembly. The anchor is designed for the fixing of door/window frames to prevent distortion.

HEAD	SCREW FINISH	LENGTH SIZE
Hex	YZP	60mm - 200mm
	Galvanised	60mm - 160mm
Csk.	YZP	80mm - 160mm



MACSIM®

SCREWBOLTS

The Macsim Screwbolt is a one piece, medium duty anchor designed to fit a component to concrete, creating its own thread path, by screwing into the concrete. The design gives pull out and shear performance, with simple installation and instantaneous load capacity.

HEAD	FINISH	DRILL SIZE
Hex	YZP/ GAL	5mm - 16mm
	316 SS	6mm - 12mm
CSK	YZP	6mm - 7.5mm
	GAL	6mm - 12mm



MACSIM®

SPLITZ ANCHORS

The Macsim Splitz Anchor is a one piece anchor designed to fix a component to concrete. This knock-in product offers a secure, permanent and tamper proof solution. The design gives pull out and shear performance, with simple installation and instantaneous load capacity.

HEAD	FINISH	DRILL SIZE
CSK	Zinc Plated	6mm
	GAL	6mm
	316 SS	6mm
Mushroom	Zinc Plated	6mm
	GAL	6mm



MACSIM®

HOLLOW WALL ANCHORS

The Macsim Hollow Wall Anchor is a four/five arm metal cavity wall anchor, which gives maximum possible strength by unfolding and keying on to a large area behind plaster or wall board. Choose the correct size to suit the wall thickness and diameter of the screw required. The strength is largely dependant on the wall board.

TYPE	FINISH	DRILL
Hollow Wall	Yellow Zinc Plated	8mm-13mm
Crown	Aluminium	6.5mm
Hammerdrive	YZP	8mm



MACSIM®

PLASTERMATES

The Macsim Plastermate is a Threaded Plug which self drills and taps into plasterboard. The plug splits on insertion of the screw, giving superior holding power.

TYPE	FINISH	HOLD
Ultra	Nylon	20Kg
Standard	Nylon/ Zinc/ Gold Zinc	10Kg
Mini	Nylon/ Zinc/ Gold Zinc	5Kg



MACSIM®

BLUE TIP SCREWBOLT - HEX ZINC



- One-piece design
- Low installation torque
- Approved for very small edge distances
- ETA Option 1 approval for cracked and uncracked concrete



Suitable base materials:

• Concrete • Lightweight Concrete • Solid Brick • Hollow Brick

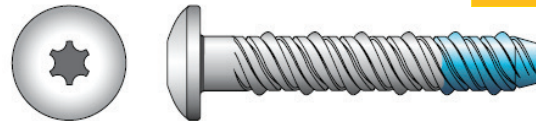
Material Number	Description
PBT635-PWR	Blue-Tip 2 Hex Zinc 6X35
PBT650-PWR	Blue-Tip 2 Hex Zinc 6X50
PBT680-PWR	Blue-Tip 2 Hex Zinc 6X80
PBT6100-PWR	Blue-Tip 2 Hex Zinc 6X100
PBT855-PWR	Blue-Tip 2 Hex Zinc 8X55
PBT865-PWR	Blue-Tip 2 Hex Zinc 8X65
PBT875-PWR	Blue-Tip 2 Hex Zinc 8X75
PBT8100-PWR	Blue-Tip 2 Hex Zinc 8X100
PBT1060-PWR	Blue-Tip 2 Hex Zinc 10X60
PBT1080-PWR	Blue-Tip 2 Hex Zinc 10X80
PBT10100-PWR	Blue-Tip 2 Hex Zinc 10X100
PBT10120-PWR	Blue-Tip 2 Hex Zinc 10X120
PBT1280-PWR	Blue-Tip 2 Hex Zinc 12X80
PBT12100-PWR	Blue-Tip 2 Hex Zinc 12X100
PBT12150-PWR	Blue-Tip 2 Hex Zinc 12X150
PBT16100-PWR	Blue-Tip 2 Hex Zinc 16X100
PBT16150-PWR	Blue-Tip 2 Hex Zinc 16X150

BLUE TIP SCREWBOLT - CSK ZINC



Material Number	Description
PBTCSKG680-PWR	Blue-Tip 2 CSK Gal 6X80
PBTCSKG875-PWR	Blue-Tip 2 CSK Gal 8X75
PBTCSKG8100-PWR	Blue-Tip 2 CSK Gal 8X100
PBTCSKG1075-PWR	Blue-Tip 2 CSK Gal 10X75
PBTCSKG10100-PWR	Blue-Tip 2 CSK Gal 10X100
PBTCSKG12100-PWR	Blue-Tip 2 CSK Gal 12X100

BLUE TIP SCREWBOLT - DOME HEAD GALV



Material Number	Description
PBTDG650-PWR	Blue-Tip 2 Dome Gal 6X50
PBTDG660-PWR	Blue-Tip 2 Dome Gal 6X60
PBTDG680-PWR	Blue-Tip 2 Dome Gal 6X80

BLUE TIP SCREWBOLT - HEX GALV



Material Number	Description
PBTG635-PWR	Blue-Tip 2 Hex Gal 6X35
PBTG650-PWR	Blue-Tip 2 Hex Gal 6X50
PBTG680-PWR	Blue-Tip 2 Hex Gal 6X80
PBTG6100-PWR	Blue-Tip 2 Hex Gal 6X100
PBTG855-PWR	Blue-Tip 2 Hex Gal 8X55
PBTG865-PWR	Blue-Tip 2 Hex Gal 8X65
PBTG875-PWR	Blue-Tip 2 Hex Gal 8X75
PBTG8100-PWR	Blue-Tip 2 Hex Gal 8X100
PBTG1060-PWR	Blue-Tip 2 Hex Gal 10X60
PBTG1080-PWR	Blue-Tip 2 Hex Gal 10X80
PBTG10100-PWR	Blue-Tip 2 Hex Gal 10X100
PBTG10120-PWR	Blue-Tip 2 Hex Gal 10X120
PBTG1280-PWR	Blue-Tip 2 Hex Gal 12X80
PBTG12100-PWR	Blue-Tip 2 Hex Gal 12X100
PBTG12150-PWR	Blue-Tip 2 Hex Gal 12X150
PBTG16100-PWR	Blue-Tip 2 Hex Gal 16X100
PBTG16150-PWR	Blue-Tip 2 Hex Gal 16X150

SCREWBOLT - ETA APPROVED



Medium Duty Anchor, for use in solid substrates. Ideal for close to edge or close to anchor installation without damaging base material.

Diameters Available:
6mm | 8mm | 10mm | 12mm

Lengths Available:
45mm | 55mm | 60mm | 65mm | 72mm | 75mm | 80mm | 90mm | 100mm | 112mm | 120mm | 140mm | 150mm

Head Types:
Hex | Truss | CSK | Rod Hanger

Finish:
GAL | CSK | Bi-Metal | Stainless Steel



DBZ METAL ANCHOR - ETA APPROVED



A versatile, light duty metal masonry anchor for use in concrete and solid masonry materials where a flush finish is required.

DIAMETER	LENGTH
6mm	35mm



BLUE TIP SCREWBOLT - EYE BOLT ZINC



Material Number	Description
PBTEYE855-PWR	Blue-Tip 2 Eye Bolt Zinc 8X55
PBTEYE1065-PWR	Blue-Tip 2 Eye Bolt Zinc 10X65
PBTEYE1275-PWR	Blue-Tip 2 Eye Bolt Zinc 12X75

Description

The WERCS AnkaScrew™ Screw-In Anchor is a totally removable, medium duty, rotation setting, thread forming anchor, ideal for either temporary or permanent anchoring into substrates such as concrete, brick, hollow brick or block. The WERCS AnkaScrew™ is particularly well suited to close-to-edge or close-to-anchor fixing as it does not expand and burst the surrounding substrate.

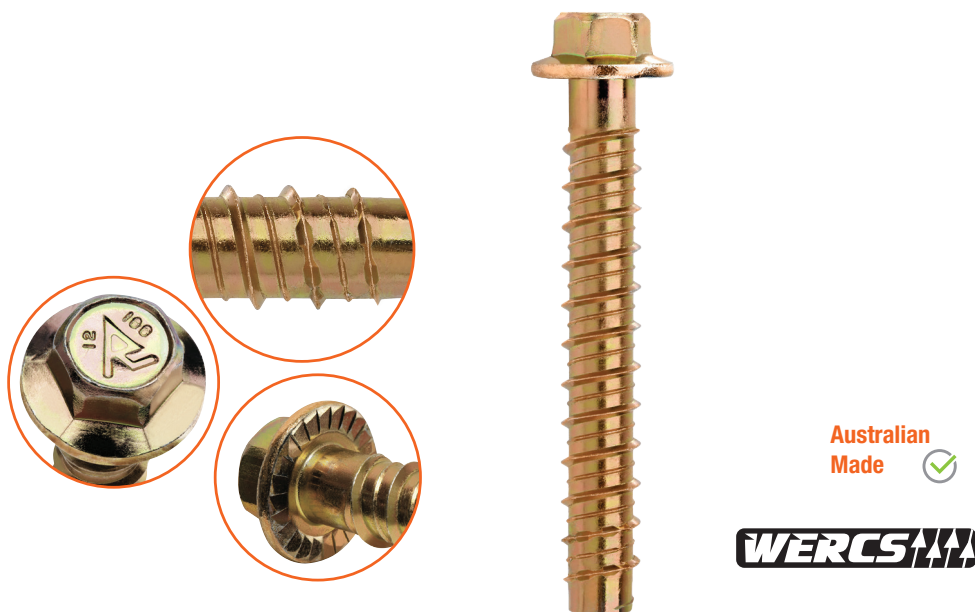
Features & Benefits

High thread engagement increases clamp force and holding capacity over a wide range of loading.

The WERCS AnkaScrew™ is ideal for close-to-edge and close-to-anchor installation as its self-tapping, rotation setting method of installation is subject to low expansion pressure, therefore does not burst the substrate.

For concrete, brick & block (solid & hollow).

The WERCS AnkaScrew™ thread design provides clearance for rapid removal of material and reduces jamming.



Product Codes & Specifications

- Carbon Steel Zinc Plated
- ◆ Stainless Steel 316
- ◆ Galvanised

Material	Item Code	Thread Size	Anchor Length (mm)	Drilled Hole Ø (mm)	Max Fixture Thickness (mm)	Fixture Hole Ø (mm)	Socket Size (mm)	Pack Qty
●	AS06050W	6	50	6	20	8	10	50
◆	AS06050WGM	6	50	6	20	8	10	50
●	AS06075W	6	75	6	45	8	10	50
◆	AS06075WGM	6	75	6	45	8	10	50
●	AS06100W	6	100	6	70	8	10	50
◆	AS06100WGM	6	100	6	70	8	10	50
●	AS08060W	8	60	8	20	10	13	50
◆	AS08060WGM	8	60	8	20	10	13	50
●	AS08075W	8	75	8	35	10	13	50
◆	AS08075WGM	8	75	8	35	10	13	50
●	AS08100W	8	100	8	60	10	13	50
◆	AS08100WGM	8	100	8	60	10	13	50
●	AS10060W	10	60	10	10	13	15	25
◆	AS10060WGM	10	60	10	10	13	15	25
●	AS10075W	10	75	10	25	13	15	25
◆	AS10075WGM	10	75	10	25	13	15	25
●	AS10100W	10	100	10	50	13	15	25
◆	AS10100WGM	10	100	10	50	13	15	25
●	AS12075W	12	75	12	15	15	16	25
◆	AS12075WGM	12	75	12	15	15	16	25
●	AS12100W	12	100	12	40	15	16	20
◆	AS12100WGM	12	100	12	40	15	16	20
●	AS12150W	12	150	12	90	15	16	20
◆	AS12150WGM	12	150	12	90	15	16	20