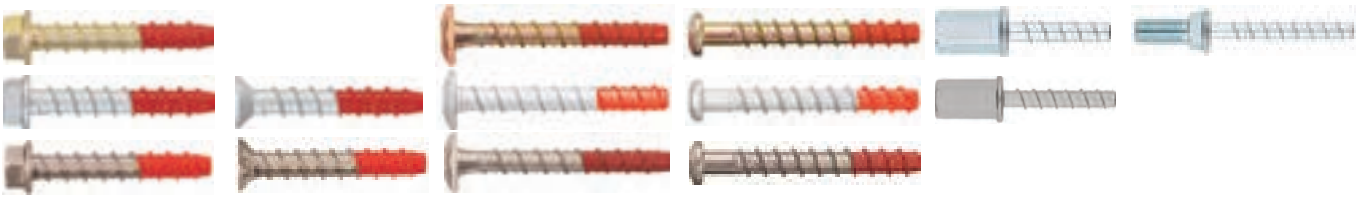


FEATURES & BENEFITS

- Optimum high-performance concrete and masonry screw-bolt anchor
- AS 5216:2021 compliant
- ETA assessed for cracked concrete and fire performance
- Flanged hex head design with "lightning bolt" locking serrations for a secure fix
- Also available in CSK, internal thread, external thread, pan and truss head designs
- Stamped head markings for easy identification and traceability
- Zinc, galvanised, Stainless Steel and corrosion resistant Nautilus® C coating options (refer to offering)
- Fast installation at reduced torque
- No expansion, ideal for close to edge applications
- Suitable for installation with impact drivers
- Removable
- Tamperproof option
- Available on ICCONS Design Pro AS 5216:2021 compliant software

APPLICATIONS

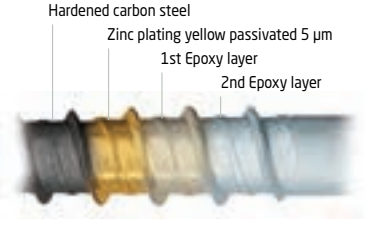
- Structural fixings in cracked and uncracked concrete.
- Glazing, windows and storefronts
- Racking and shelving
- Attaching railings, handrails and balustrades
- Timber frame construction to concrete
- Steel frame construction to concrete
- Facades, scaffolding. Stadium seating
- HVAC and fire services

ETA 20/0902-Option 1
ETA 20/0901 (RNSS)
RNSS = Redundant Non-Structural Systems

RANGE IDENTIFICATION

Code	Size	Description	Material
SXTB _ _ _ _ _ _ _	**Ø5 - Ø18**	Hexagonal head with flange Screw-Bolt anchor	Carbon Steel Zinc Yellow Coating ≥ 5 µm plus Red Tip
SXTB _ _ _ _ _ _ _ G	**Ø5 - Ø18**	Hexagonal head with flange Screw-Bolt anchor	Carbon Steel NAUTILUS®C Coating plus Red Tip
SXTBCS _ _ _ _ _ _ G	**Ø6 - Ø12**	Countersunk Screw-Bolt anchor	Carbon Steel NAUTILUS®C Coating plus Red Tip
SXTBP _ _ _ _ _ _	**Ø8**	Pan Head Screw-Bolt anchor	Carbon steel zinc yellow coating ≥ 5 µm plus Red Tip
SXTBP_ _ _ _ _ _G	**Ø8**	Pan Head Screw-Bolt anchor	Carbon Steel NAUTILUS®C Coating plus Red Tip
SXTBTR _ _ _ _ _ _	**Ø6**	Truss Head Screw-Bolt anchor	Carbon steel zinc yellow coating ≥ 5 µm plus Red Tip
SXTBTR _ _ _ _ _ _ G	**Ø6**	Truss Head Screw-Bolt anchor	Carbon Steel NAUTILUS®C Coating plus Red Tip
SXTB-IM _ _ _ _ _ _	**Ø6 - Ø8**	Rod hanger internal thread Screw-Bolt anchor	Carbon steel, zinc clear plated coating ≥ 5 µm
SXTB-IM _ _ _ _ _ _ G	**Ø6 - Ø8**	Rod hanger internal thread Screw-Bolt anchor	Carbon Steel Mechanical Galvanised Zinc Coating ≥ 40 microns (min.) (45 microns average)
SXTB-B _ _ _ _ _ _	**Ø6**	Rod hanger external thread Screw-Bolt anchor	Carbon steel, zinc clear plated coating ≥ 5 µm
SXTB _ _ _ _ _ _ _SS	**Ø6 - Ø12**	Hexagonal head with flange Screw-Bolt anchor	Shaft and Head-316 (A4) & Tip- Hardened carbon steel
SXTBCS _ _ _ _ _ _ SS	**Ø6 - Ø12**	Countersunk Screw-Bolt anchor	Shaft and Head-316 (A4) & Tip- Hardened carbon steel
SXTBP _ _ _ _ _ _ SS	**Ø8**	Pan Head Screw-Bolt anchor	Shaft and Head-316 (A4) & Tip- Hardened carbon steel
SXTBTR _ _ _ _ _ _ SS	**Ø6**	Truss Head Screw-Bolt anchor	Shaft and Head-316 (A4) & Tip- Hardened carbon steel

ICCONS Nautilus® C corrosion resistant coating



Nautilus® C corrosion resistant coating is a multi layered corrosion resistant coating designed for indoor applications as well as outdoor applications based on urban and industrial atmospheres, moderate sulfur dioxide pollution and coastal areas with low salinity. This is typically covered in EN ISO 12944-2, corrosivity category environment C3 and durability range HIGH according to EN ISO 12944-1. Under these conditions the Nautilus® C coating offers a typical minimum life expectancy of between 15 to 25 yrs. This information is based on testing in accordance with EN ISO 12944.6 and provides average life expectancy data for typical applications. The final decision on coating suitability should be made by the customer/design professional responsible for the application and based on local specific environmental conditions.

Thunderbolt®PRO Hex Head

Ceiling Angle Bracket
Refer to ICCONS product guide (IPG) for further details.

1/2" Impact Sockets
Refer to ICCONS product guide (IPG) for further details.

Zinc Yellow - Internal Use

Part No.	Description	Drill Diameter (mm)	Min. Drill Depth (mm)	Min. Anchor Embedment (mm)	Max. Fixture Thickness (mm)	Clearance Hole in Fixture (mm)	Head Size (mm)	Socket Part No.	Max. Impact Tool Torque Tmax (Nm)	ETA Option	SEISMIC Assessment	qty	qty
SXTB05050	5 x 50mm	5	45	35	15	8	8	BTISS0838	250	RNSS	n/a	100	1600
SXTB06040	6 x 40mm	6	45	35	5	9	10	BTISS1038	250	Option 1 & RNSS	n/a	100	1200
SXTB06045	6 x 45mm		50	40	5					Option 1	C1	100	1200
SXTB06050	6 x 50mm				10							100	1200
SXTB06060	6 x 60mm		65	55	5					Option 1 & RNSS		100	600
SXTB06075	6 x 75mm				20							100	600
SXTB06100	6 x 100mm				45							100	600
SXTB08055	8 x 55mm	8	60	50	5	12	13	BTISS1338	350	Option 1	C1 & C2	100	600
SXTB08060	8 x 60mm				10							100	600
SXTB08070	8 x 70mm				20							100	400
SXTB08075	8 x 75mm				25							100	400
SXTB08100	8 x 100mm		75	65	35							100	400
SXTB08140	8 x 140mm				75							25	150
SXTB10060	10 x 60mm	10	65	55	5	14	17	BTISS1738	600	Option 1	n/a	50	300
SXTB10075	10 x 75mm				20							50	300
SXTB10090	10 x 90mm		95	85	5						C1 & C2	50	200
SXTB10100	10 x 100mm				15							50	200
SXTB10120	10 x 120mm				35							50	200
SXTB10150	10 x 150mm				65							25	100
SXTB10200	10 x 200mm				115							25	100
SXTB12080	12 x 80mm	12	90	75	5	16	19	BTISS1938	600	Option 1	n/a	50	200
SXTB12100	12 x 100mm				25							50	100
SXTB12120	12 x 120mm		120	105	15						C1 & C2	25	150
SXTB12150	12 x 150mm				45							25	100
SXTB12200	12 x 200mm				95							20	80
SXTB14080	14 x 80mm	14	90	75	5	18	21	BTISS2138	600	Option 1	n/a	25	150
SXTB14100	14 x 100mm				25							25	150
SXTB14130	14 x 130mm		130	115	15						C1 & C2	25	100
SXTB14150	14 x 150mm				35							25	100
SXTB16100	16 x 100mm	16	100	80	20	20	24	BTISS2440	600	Option 1	Pending	15	90
SXTB16150	16 x 150mm				70							15	60
SXTB16200	16 x 200mm		140	120	80							10	40
SXTB18100	18 x 100mm	18	110	90	10	22	26	BTISS2643	600	Option 1	n/a	20	80
SXTB18150	18 x 150mm		160	140							C1 & C2	15	60
SXTB18170	18 x 170mm				30							15	60
SXTB18200	18 x 200mm				60							10	40
SXTB18300	18 x 300mm				160							5	20

Max. power output of impact screw gun | RNSS = ETA Redundant non-structural systems | Option 1 = ETA Option 1 = AS 5216 Compliant
Excessive torque during installation may damage the anchor. Training, expertise and good judgment is required. Always adhere to anchor installation max. impact torque tool settings.
C1 Seismic assessment only valid for the following embedment depths: Anchor size 6 - 40 & 55mm / Anchor size 8 – 50mm & 65mm / Anchor size 10 - 85mm / Anchor size 12 - 105mm / Anchor size 14 -115mm / Anchor size 18 - 140mm C2 Seismic assessment only valid for the following embedment depths: Anchor size 8 – 50mm & 65mm / Anchor size 10 - 85mm / Anchor size 12 - 105mm / Anchor size 14 -115mm/Anchor size 18 - 140mm

Thunderbolt®PRO Hex Head

Ceiling Angle Bracket
Refer to ICCONS product guide (IPG) for further details.

1/2" Impact Sockets
Refer to ICCONS product guide (IPG) for further details.

Nautilus® C - External Use

Part No.	Description	Drill Diameter (mm)	Min. Drill Depth (mm)	Min. Anchor Embedment (mm)	Max. Fixture Thickness (mm)	Clearance Hole in Fixture (mm)	Head Size (mm)	Socket Part No.	Max. Impact Tool Torque Tmax (Nm)	ETA Option	SEISMIC Assessment	qty	qty
SXTB05050G	5 x 50mm	5	45	35	15	8	8	BTISS0838	250	RNSS	n/a	100	1600
SXTB06040G	6 x 40mm	6	45	35	5	9	10	BTISS1038	250	Option 1 & RNSS	n/a	100	1200
SXTB06045G	6 x 45mm		50	40	5					Option 1	C1	100	1200
SXTB06050G	6 x 50mm				10							100	1200
SXTB06060G	6 x 60mm		65	55	5					Option 1 & RNSS		100	600
SXTB06075G	6 x 75mm				20							100	600
SXTB06100G	6 x 100mm				45							100	600
SXTB06150G*	6 x 150mm				95							50	300
SXTB08055G	8 x 55mm	8	60	50	5	12	13	BTISS1338	350	Option 1	C1 & C2	100	600
SXTB08060G	8 x 60mm				10							100	600
SXTB08070G	8 x 70mm				20							100	400
SXTB08075G	8 x 75mm				25							100	400
SXTB08100G	8 x 100mm		75	65	35							100	400
SXTB08140G	8 x 140mm				75							25	150
SXTB10060G	10 x 60mm	10	65	55	5	14	17	BTISS1738	600	Option 1	n/a	50	300
SXTB10075G	10 x 75mm				20							50	300
SXTB10090G	10 x 90mm		95	85	5						C1 & C2	50	200
SXTB10100G	10 x 100mm				15							50	200
SXTB10120G	10 x 120mm				35							50	200
SXTB10150G	10 x 150mm				65							25	100
SXTB10200G	10 x 200mm				115							25	100
SXTB12080G	12 x 80mm	12	90	75	5	16	19	BTISS1938	600	Option 1	n/a	50	200
SXTB12100G	12 x 100mm				25							50	100
SXTB12110G	12 x 110mm		120	105	5						C1 & C2	25	150
SXTB12120G	12 x 120mm				15							25	150
SXTB12150G	12 x 150mm				45							25	100
SXTB12200G	12 x 200mm				95							20	80
SXTB14080G	14 x 80mm	14	90	75	5	18	21	BTISS2138	600	Option 1	n/a	25	150
SXTB14100G	14 x 100mm				25							25	150
SXTB14130G	14 x 130mm		130	115	15						C1 & C2	25	100
SXTB14150G	14 x 150mm				35							25	100
SXTB16100G	16 x 100mm	16	100	80	20	20	24	BTISS2440	600	Option 1	Pending	15	90
SXTB16150G	16 x 150mm				70							15	60
SXTB16200G	16 x 200mm		140	120	80							10	40
SXTB18100G	18 x 100mm	18	110	90	10	22	26	BTISS2643	600	Option 1	n/a	20	80
SXTB18150G	18 x 150mm		160	140							C1 & C2	15	60
SXTB18170G	18 x 170mm				30							15	60
SXTB18200G	18 x 200mm				60							10	40
SXTB18300G	18 x 300mm				160							5	20

Max. power output of impact screw gun | RNSS = ETA Redundant non-structural systems | Option 1 = ETA Option 1 = AS 5216 Compliant
Excessive torque during installation may damage the anchor. Training, expertise and good judgment is required. Always adhere to anchor installation max. impact torque tool settings.
C1 Seismic assessment only valid for the following embedment depths: Anchor size 6 - 40 & 55mm / Anchor size 8 – 50mm & 65mm / Anchor size 10 - 85mm / Anchor size 12 - 105mm / Anchor size 14 -115mm / Anchor size 18 - 140mm C2 Seismic assessment only valid for the following embedment depths: Anchor size 8 – 50mm & 65mm / Anchor size 10 - 85mm / Anchor size 12 - 105mm / Anchor size 14 -115mm/Anchor size 18 - 140mm

* Available in New Zealand

Thunderbolt®PRO Hex Head Stainless Steel

Ceiling Angle Bracket
Refer to ICCONS product guide (IPG) for further details.

1/2" Impact Sockets
Refer to ICCONS product guide (IPG) for further details.

316 SS (A4) - Stainless Steel - External Use

Part No.	Description	Drill Diameter (mm)	Min. Drill Depth (mm)	Min. Anchor Embedment (mm)	Max. Fixture Thickness (mm)	Clearance Hole in Fixture (mm)	Head Size (mm)	Socket Part No.	Max. Impact Tool Torque Tmax (Nm)	ETA Option	SEISMIC Assessment	qty	qty
SXTB06045SS	6 x 45mm	6	50	40	5	9	10	BTISS1038	250	Option 1	C1	100	1200
SXTB06050SS	6 x 50mm				10							100	600
SXTB06060SS	6 x 60mm		65	55	5							100	600
SXTB06075SS	6 x 75mm				20							100	600
SXTB06100SS	6 x 100mm				45							100	600
SXTB08055SS	8 x 55mm	8	60	50	5	12	13	BTISS1338	600	Option 1	C1	100	600
SXTB08070SS	8 x 70mm		75	65	5							100	400
SXTB08075SS	8 x 75mm				10							100	400
SXTB08090SS	8 x 90mm				25							100	400
SXTB08100SS	8 x 100mm				35							100	400
SXTB10060SS	10 x 60mm	10	65	55	5	14	17	BTISS1738	600	Option 1	C1	50	300
SXTB10075SS	10 x 75mm				20							50	200
SXTB10080SS	10 x 80mm				25							50	200
SXTB10090SS	10 x 90mm		95	85	5							50	200
SXTB10100SS	10 x 100mm				15							50	200
SXTB10110SS	10 x 110mm				25							50	200
SXTB10120SS	10 x 120mm				35							50	200
SXTB12080SS	12 x 80mm	12	90	75	5	16	19	BTISS1938	600	Option 1	C1	50	200
SXTB12100SS	12 x 100mm				25							50	100
SXTB12120SS	12 x 120mm		120	105	15							25	150
SXTB12150SS*	12 x 150mm				45							25	100

Max. power output of impact screw gun | Option 1 = ETA Option 1 = AS 5216 Compliant
Excessive torque during installation may damage the anchor. Training, expertise and good judgment is required. Always adhere to anchor installation max. impact torque tool settings.
C1 Seismic assessment only valid for the following embedment depths: Anchor size 6 - 40 & 55mm / Anchor size 8 – 50mm & 65mm / Anchor size 10 - 55 & 85mm / Anchor size 12 - 75 & 105mm

***** Available in New Zealand

Thunderbolt®PRO Countersunk Head

T30 | T45 | T50 | T55
Torx Impact Driver
Refer to ICCONS product guide (IPG) for further details.

FASTDRIVE
Refer to ICCONS product guide (IPG) for further details.

Nautilus® C - External Use

Part No.	Description	Drill Diameter (mm)	Min. Drill Depth (mm)	Min. Anchor Embed. (mm)	Max. Fixture in Fixture (mm)	Clearance Hole in Fixture (mm)	Dia. of CSK Drill Size (mm)	CSK Head Height (mm)	Drive Type Driver (Torx)	Torx Impact Tool Torque Part No.	Max. Impact Tmax (Nm)	ETA Option	SEISMIC Assessment	qty	qty
SXTBCS06050G	6 x 50mm	6	50	40	10	9	15	4.5	T30	BTI050T30	250	Option 1 & RNSS	C1	100	1200
SXTBCS06075G	6 x 75mm		65	55	20									100	600
SXTBCS06100G	6 x 100mm				45									100	600
SXTBCS08060G	8 x 60mm	8	60	50	10	12	21	6.5	T45	BTI050T45	350	Option 1	C1 & C2	100	600
SXTBCS08075G	8 x 75mm				25									100	400
SXTBCS08100G	8 x 100mm				50									100	400
SXTBCS08130G	8 x 130mm		75	65	65									50	200
SXTBCS10060G	10 x 60mm	10	65	55	5	14	24.5	7.3	T50	BTI050T50	600	Option 1	n/a	50	200
SXTBCS10065G	10 x 65mm				10									50	200
SXTBCS10075G	10 x 75mm				20									50	200
SXTBCS10100G	10 x 100mm		95	85	15								C1 & C2	50	200
SXTBCS12085G	12 x 85mm	12	90	75	10	16	28	8	T55	BTI050T55	600	Option 1	n/a	50	200
SXTBCS12100G	12 x 100mm				25									50	200
SXTBCS12150G	12 x 150mm		120	105	45								C1 & C2	20	120

Max. power output of impact screw gun | RNSS = ETA Redundant non-structural systems | Option 1 = ETA Option 1 = AS 5216 Compliant
Excessive torque during installation may damage the anchor. Training, expertise and good judgment is required. Always adhere to anchor installation max. impact torque tool settings.
C1 Seismic assessment only valid for the following embedment depths: Anchor size 6 - 40 & 55mm / Anchor size 8 – 50mm & 65mm / Anchor size 10 - 85mm / Anchor size 12 - 105mm
C2 Seismic assessment only valid for the following embedment depths: Anchor size 8 – 50mm & 65mm / Anchor size 10 - 85mm / Anchor size 12 - 105mm

Thunderbolt®PRO
Countersunk Head - Stainless Steel

T30 | T45 | T50 | T55
Torx Impact Driver
Refer to ICCONS product guide (IPG) for further details.

FASTDRIVE
Refer to ICCONS product guide (IPG) for further details.

316 SS (A4) - Stainless Steel - External Use

Part No.	Description	Drill Diameter (mm)	Min. Drill Depth (mm)	Min. Anchor Embed. (mm)	Max. Fixture in Fixture (mm)	Clearance Hole in Fixture (mm)	Dia. of CSK Drill Size (mm)	CSK Head Height (mm)	Drive Type Driver (Torx)	Torx Impact Tool Torque Part No.	Max. Impact Tmax (Nm)	ETA Option	SEISMIC Assessment	qty	qty
SXTBCS06050SS	Ø6 x 50	6	50	40	10	9	15	4.5	TX30	BTI050T30	250	Option 1	C1	100	1200
SXTBCS06075SS	Ø6 x 75		65	55	20									100	600
SXTBCS06100SS	Ø6 x 100				45									100	600
SXTBCS08075SS	Ø8 x 75	8	60	50	25	12	21	6.5	TX45	BTI050T45	600	Option 1	C1	100	400
SXTBCS08100SS	Ø8 x 100		75	65	35									100	400
SXTBCS10075SS	Ø10 x 75	10	65	55	20	14	24.5	7.3	TX50	BTI050T50	600	Option 1	C1	50	200
SXTBCS10100SS	Ø10 x 100		95	85	15									50	200
SXTBCS12100SS	Ø12 x 100	12	90	75	25	16	28	8	TX55	BTI050T55	600	Option 1	C1	50	200
SXTBCS12150SS	Ø12 x 150		120	105	45									20	120

Max. power output of impact screw gun | Option 1 = ETA Option 1 = AS 5216 Compliant
Excessive torque during installation may damage the anchor. Training, expertise and good judgment is required. Always adhere to anchor installation max. impact torque tool settings.
C1 Seismic assessment only valid for the following embedment depths: Anchor size 6 - 40 & 55mm / Anchor size 8 – 50mm & 65mm / Anchor size 10 - 55 & 85mm / Anchor size 12 - 75 & 105mm

Thunderbolt®PRO Pan Head

Ceiling Angle Bracket
Refer to ICCONS product guide (IPG) for further details.

T45 Torx Impact Driver
Refer to ICCONS product guide (IPG) for further details.

FASTDRIVE
Refer to ICCONS product guide (IPG) for further details.

Zinc Yellow - Internal Use

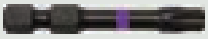
Part No.	Description	Drill Diameter (mm)	Min. Drill Depth (mm)	Min. Anchor Embed. (mm)	Max. Fixture Thickness (mm)	Clearance Hole in Fixture (mm)	Drive Type (Torx)	Torx Impact Driver Part No.	Max. Impact Tool Torque Tmax (Nm)	ETA Option	SEISMIC Assessment	qty	qty
SXTBP08060	8 x 60mm	8	60	50	10	12	T45	BTI050T45	350	Option 1	C1 & C2	100	600
SXTBP08080	8 x 80mm				30							50	200
SXTBP08100	8 x 100mm		75	65	35							50	200

Max. power output of impact screw gun | Option 1 = ETA Option 1 = AS 5216 Compliant
Excessive torque during installation may damage the anchor. Training, expertise and good judgment is required. Always adhere to anchor installation max. impact torque tool settings.
C1 Seismic assessment only valid for the following embedment depths: Anchor size 8 – 50mm & 65mm
C2 Seismic assessment only valid for the following embedment depths: Anchor size 8 – 50mm & 65mm

Thunderbolt®PRO Pan Head

Ceiling Angle Bracket
Refer to ICCONS product guide (IPG) for further details.

T45 Torx Impact Driver
Refer to ICCONS product guide (IPG) for further details.



FASTDRIVE
Refer to ICCONS product guide (IPG) for further details.

NAUTILUS® C - External Use

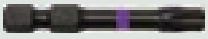
Part No.	Description	Drill Diameter (mm)	Min. Drill Depth (mm)	Min. Anchor Embed. (mm)	Max. Fixture Thickness (mm)	Clearance Hole in Fixture (mm)	Drive Type (Torx)	Torx Impact Driver Part No.	Max. Impact Tool Torque Tmax (Nm)	ETA Option	SEISMIC Assessment	qty	qty
SXTBP08060G	8 x 60mm	8	60	50	10	12	T45	BTI050T45	350	Option 1	C1 & C2	100	600
SXTBP08080G	8 x 80mm				30							50	200
SXTBP08100G	8 x 100mm		75	65	35							50	200

Max. power output of impact screw gun | Option 1 = ETA Option 1 = AS 5216 Compliant
Excessive torque during installation may damage the anchor. Training, expertise and good judgment is required. Always adhere to anchor installation max. impact torque tool settings.
C1 Seismic assessment only valid for the following embedment depths: Anchor size 8 – 50mm & 65mm
C2 Seismic assessment only valid for the following embedment depths: Anchor size 8 – 50mm & 65mm

Thunderbolt®PRO Pan Head

Ceiling Angle Bracket
Refer to ICCONS product guide (IPG) for further details.

T45 Torx Impact Driver
Refer to ICCONS product guide (IPG) for further details.



FASTDRIVE
Refer to ICCONS product guide (IPG) for further details.

Stainless Steel - External Use

RANGE COMING SOON

Part No.	Description	Drill Diameter (mm)	Min. Drill Depth (mm)	Min. Anchor Embed. (mm)	Max. Fixture Thickness (mm)	Clearance Hole in Fixture (mm)	Drive Type (Torx)	Torx Impact Driver Part No.	Max. Impact Tool Torque Tmax (Nm)	ETA Option	SEISMIC Assessment	qty	qty
SXTBP08060SS	8 x 60mm	8	60	50	10	12	T45	BTI050T45	600	Option 1	C1	100	600
SXTBP08080SS	8 x 80mm				30							50	200
SXTBP08100SS	8 x 100mm		75	65	35							50	200

Max. power output of impact screw gun | Option 1 = ETA Option 1 = AS 5216 Compliant
Excessive torque during installation may damage the anchor. Training, expertise and good judgment is required. Always adhere to anchor installation max. impact torque tool settings.
C1 Seismic assessment only valid for the following embedment depths: Anchor size 8 - 50mm & 65mm

Thunderbolt®PRO Truss Head

Ceiling Angle Bracket
Refer to ICCONS product guide (IPG) for further details.

T30 Torx Impact Driver
Refer to ICCONS product guide (IPG) for further details.

Zinc Yellow - Internal Use

Part No.	Description	Drill Diameter (mm)	Min. Drill Depth (mm)	Min. Anchor Embed. (mm)	Max. Fixture Thickness (mm)	Clearance Hole in Fixture (mm)	Drive Type (Torx)	Torx Impact Driver Part No.	Max. Impact Tool Torque Tmax (Nm)	ETA Option	SEISMIC Assessment	qty	qty
SXTBTR06045	6 x45mm	6	50	40	5	9	T30	BTI050T30	250	Option 1 & RNSS	C1	100	1200
SXTBTR06060	6 x60mm		65	55	5							100	600
SXTBTR06080	6 x80mm				25							100	600
SXTBTR06100	6 x100mm				45							100	600

Max. power output of impact screw gun | RNSS = ETA Redundant non-structural systems | Option 1 = ETA Option 1 = AS 5216 Compliant
Excessive torque during installation may damage the anchor. Training, expertise and good judgment is required. Always adhere to anchor installation max. impact torque tool settings.
C1 Seismic assessment only valid for the following embedment depths: Anchor size 6 - 40 & 55mm

Thunderbolt®PRO Truss Head

Ceiling Angle Bracket
Refer to ICCONS product guide (IPG) for further details.

T30 Torx Impact Driver
Refer to ICCONS product guide (IPG) for further details.

NAUTILUS® C - External Use

Part No.	Description	Drill Diameter (mm)	Min. Drill Depth (mm)	Min. Anchor Embed. (mm)	Max. Fixture Thickness (mm)	Clearance Hole in Fixture (mm)	Drive Type (Torx)	Torx Impact Driver Part No.	Max. Impact Tool Torque Tmax (Nm)	ETA Option	SEISMIC Assessment	qty	qty
SXTBTR06045G	6 x45mm	6	50	40	5	9	T30	BTI050T30	250	Option 1 & RNSS	C1	100	1200
SXTBTR06060G	6 x60mm		65	55	5							100	600
SXTBTR06080G	6 x80mm				25							100	600
SXTBTR06100G	6 x100mm				45							100	600

Max. power output of impact screw gun | RNSS = ETA Redundant non-structural systems | Option 1 = ETA Option 1 = AS 5216 Compliant
Excessive torque during installation may damage the anchor. Training, expertise and good judgment is required. Always adhere to anchor installation max. impact torque tool settings.
C1 Seismic assessment only valid for the following embedment depths: Anchor size 6 - 40 & 55mm

Thunderbolt®PRO Truss Head

Ceiling Angle Bracket
Refer to ICCONS product guide (IPG) for further details.

T30 Torx Impact Driver
Refer to ICCONS product guide (IPG) for further details.

Stainless Steel - External Use **RANGE COMING SOON**

Part No.	Description	Drill Diameter (mm)	Min. Drill Depth (mm)	Min. Anchor Embed. (mm)	Max. Fixture Thickness (mm)	Clearance Hole in Fixture (mm)	Drive Type (Torx)	Torx Impact Driver Part No.	Max. Impact Tool Torque Tmax (Nm)	ETA Option	SEISMIC Assessment	qty	qty
SXTBTR06045SS	6 x45mm	6	50	40	5	9	T30	BTI050T30	250	Option 1	C1	100	1200
SXTBTR06060SS	6 x60mm		65	55	5							100	600
SXTBTR06080SS	6 x80mm				25							100	600
SXTBTR06100SS	6 x100mm				45							100	600

Max. power output of impact screw gun | Option 1 = ETA Option 1 = AS 5216 Compliant
Excessive torque during installation may damage the anchor. Training, expertise and good judgment is required. Always adhere to anchor installation max. impact torque tool settings.
C1 Seismic assessment only valid for the following embedment depths: Anchor size 6 - 40 & 55mm

Thunderbolt®PRO Rod Hangerz™

Each bucket contains 3 x Socket Drivers (HZCM10-D) and 3 x 6mm Drill Bits

Socket Driver
Refer to ICCONS product guide (IPG) for further details.

Carbon Steel Zinc Clear - Internal Use

Part No.	Description	Drill Diameter (mm)	Drill Depth (mm)	Head / Socket Size (mm)	Internal Thread (metric)	Socket Part No.	Max. Impact Tool Torque Tmax (Nm)	ETA Option	SEISMIC Assessment	qty	qty
SXTB-IM06035	6 X 35 Rod Hanger (M8/M10)	6	45	13	M8/ M10	HZCM10-D	250	Option 1 & RNSS	n/a	50	400
SXTB-IM06035-BK	6 X 35 Rod Hanger (M8/M10) Bucket									500	nla
SXTB-IM06040-M10	6 X 40 Rod Hanger (M10)		50		M10			Option 1	C1	100	400
SXTB-IM06040-M10-BK	6 X 40 Rod Hanger (M10) Bucket									500	nla
SXTB-IM06055	6 X 55 Rod Hanger (M8/M10)		65		M8/ M10			Option 1 & RNSS		50	400
SXTB-IM06055-BK	6 X 55 Rod Hanger (M8/M10) Bucket									500	n/a
SXTB-IM08050-M10	8 X 50 Rod Hanger (M10)	8	60	13	M10	HZCM10-D	350	Option 1	C1 & C2	100	400
SXTB-IM08050-M12	8 X 50 Rod Hanger (M12)			17	M12	BTIDS1778				100	400

RNSS = ETA Redundant non-structural systems | Option 1 = ETA Option 1 = AS 5216 Compliant
Excessive torque during installation may damage the anchor. Training, expertise and good judgment is required. Always adhere to anchor installation impact tool torque guidelines.

Thunderbolt®PRO Rod Hangerz™

Socket Driver
Refer to ICCONS product guide (IPG) for further details.

Mechanical Galvanised - External Use

Part No.	Description	Drill Diameter (mm)	Drill Depth (mm)	Head / Socket Size (mm)	Internal Thread (metric)	Socket Part No.	Max. Impact Tool Torque Tmax (Nm)	ETA Option	SEISMIC Assessment	qty	qty
SXTB-IM06040G-M10	6 X 40 ETA Rod Hanger (M10)	6	50	13	M10	HZCM10-D	250	Option 1	C1	100	400
SXTB-IM08050G-M10	8 X 50 ETA Rod Hanger (M10)	8	60	13	M10	HZCM10-D	350	Option 1	C1 & C2	100	400
SXTB-IM08050G-M12	8 X 50 ETA Rod Hanger (M12)	8	60	17	M12	BTIDS1778	350	Option 1	C1 & C2	100	400

Option 1 = ETA Option 1 = AS 5216 Compliant
Excessive torque during installation may damage the anchor. Training, expertise and good judgment is required. Always adhere to anchor installation impact tool torque guidelines.

Thunderbolt®PRO Hangerz™

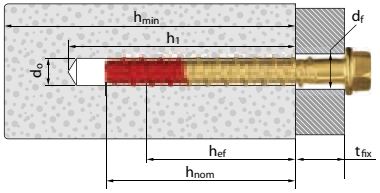
1/2" Impact Sockets
Refer to ICCONS product guide (IPG) for further details.

Carbon Steel Zinc Clear - External Thread

Part No.	Description	Drill Diameter (mm)	Drill Depth (mm)	Head / Socket Size (mm)	External Thread (metric)	Socket Part No.	Max. Impact Tool Torque Tmax (Nm)	ETA Option	SEISMIC Assessment	qty	qty
SXTB-B06040-M10	6 X 40 External Thread Hanger	6	50	13	M10	BTIDS1378	250	Option 1	C1	100	400

Option 1 = ETA Option 1 = AS 5216 Compliant
Excessive torque during installation may damage the anchor. Training, expertise and good judgment is required. Always adhere to anchor installation impact tool torque guidelines.

For Thunderbolt®PRO Hex Head
Zinc Yellow and NAUTILUS® C

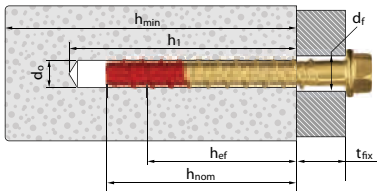


d_0: Nominal diameter of drill bit
d_f: Fixture clearance hole diameter
h_{ef}: Effective anchorage depth
h_1: Depth of drilled hole
h_{nom}: Overall fastener embedment depth in the concrete
h_{min}: Minimum thickness of concrete member
t_{fix}: Fixture thickness

General Installation parameters									Standard Installation depth ($h_{ef,\ std}$)									Reduced Installation depth ($h_{ef,\ red}$)								
Thunderbolt®PRO Part No	Size [-]	Assessed ETA	Drill bit diameter d_0 (mm)	Fixture clearance hole d_f (mm)	Spanner SW/Tx [-]	Impact tool torque T_{max} [Nm]	Minimum allowable spacing S_{min} (mm)	Minimum allowable edge distance C_{min} (mm)	Minimum concrete thickness h_{min} (mm)	Depth of drill hole h_1 (mm)	Installation depth h_{nom} (mm)	Effective anchorage depth h_{ef} (mm)	Thickness of fixture t_{fix} (mm)	Critical spacing (concrete cone) $S_{cr,N}$ (mm)	Critical edge distance (cone) $C_{cr,N}$ (mm)	Critical spacing (splitting) $S_{cr,sp}$ (mm)	Critical edge distance (splitting) $C_{cr,sp}$ (mm)	Minimum concrete thickness h_{min} (mm)	Depth of drill hole h_1 (mm)	Installation depth h_{nom} (mm)	Effective anchorage depth h_{ef} (mm)	Thickness of fixture t_{fix} (mm)	Critical spacing (concrete cone) $S_{cr,N}$ (mm)	Critical edge distance (cone) $C_{cr,N}$ (mm)	Critical spacing (splitting) $S_{cr,sp}$ (mm)	Critical edge distance (splitting) $C_{cr,sp}$ (mm)
SXTB05050/G	Ø5 x 50	RNSS ✓	5	8	SW 8	250	35	35	80	55	45	35.0	5	105	53	105	53	80	45	35	26.5	15	80	40	80	40
SXTB06040/G	Ø6 x 40	✓	6	9	SW 10	250	35	35	-	-	-	-	-	-	-	-	-	100	45	35	26.0	5	78	39	90	45
SXTB06045/G	Ø6 x 45	✓							-	-	-	-	-	-	-	-	-					10				
SXTB06050/G	Ø6 x 50	✓							-	-	-	-	-	-	-	-	-					15				
SXTB06060/G	Ø6 x 60	✓							100	65	55	43.0	5	129	65	170	85					25				
SXTB06075/G	Ø6 x 75	✓											20									40				
SXTB06100/G	Ø6 x 100	✓											45									65				
SXTB08055/G	Ø8 x 55	✓	8	12	SW 13	350	35	35	-	-	-	-	-	-	-	-	-	100	60	50	37.5	5	113	57	130	65
SXTB08060/G	Ø8 x 60	✓							-	-	-	-	-	-	-	-	-					10				
SXTB08070/G	Ø8 x 70	✓							100	75	65	50.5	5	152	76	200	100					20				
SXTB08075/G	Ø8 x 75	✓											10									25				
SXTB08100/G	Ø8 x 100	✓											35									50				
SXTB08140/G	Ø8 x 140	✓											75									90				
SXTB10060/G	Ø10 x 60	✓	10	14	SW 17	600	50	40	-	-	-	-	-	-	-	-	-	100	65	55	41.5	5	125	63	140	70
SXTB10075/G	Ø10 x 75	✓							-	-	-	-	-	-	-	-	-					20				
SXTB10090/G	Ø10 x 90	✓							135	95	85	67.0	5	201	101	210	105					35				
SXTB10100/G	Ø10 x 100	✓											15									45				
SXTB10120/G	Ø10 x 120	✓											35									65				
SXTB10150/G	Ø10 x 150	✓											65									95				
SXTB10200/G	Ø10 x 200	✓											115									145				

Note: Add **"G"** to the part no for Nautilus® C option. e.g. **SXTB05050G**,

For Thunderbolt®PRO Hex Head Zinc Yellow and NAUTILUS® C

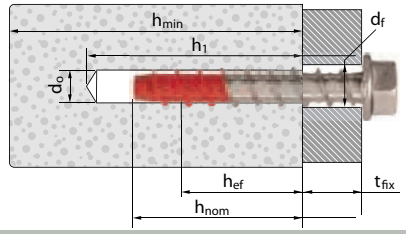


d_0: Nominal diameter of drill bit
d_f: Fixture clearance hole diameter
h_{ef}: Effective anchorage depth
h_1: Depth of drilled hole
h_{nom}: Overall fastener embedment depth in the concrete
h_{min}: Minimum thickness of concrete member
t_{fix}: Fixture thickness

General Installation parameters									Standard Installation depth ($h_{ef,\ std}$)									Reduced Installation depth ($h_{ef,\ red}$)								
Thunderbolt®PRO Part No	Size [-]	Assessed ETA	Drill bit diameter d_0 (mm)	Fixture clearance hole d_f (mm)	Spanner SW/Tx [-]	Impact tool torque T_{max} [Nm]	Minimum allowable spacing S_{min} (mm)	Minimum allowable edge distance C_{min} (mm)	Minimum concrete thickness h_{min} (mm)	Depth of drill hole h_1 (mm)	Installation depth h_{nom} (mm)	Effective anchorage depth h_{ef} (mm)	Thickness of fixture t_{fix} (mm)	Critical spacing (concrete cone) $S_{cr,N}$ (mm)	Criticial edge distance (cone) $C_{cr,N}$ (mm)	Critical spacing (splitting) $S_{cr,sp}$ (mm)	Critical edge distance (splitting) $C_{cr,sp}$ (mm)	Minimum concrete thickness h_{min} (mm)	Depth of drill hole h_1 (mm)	Installation depth h_{nom} (mm)	Effective anchorage depth h_{ef} (mm)	Thickness of fixture t_{fix} (mm)	Critical spacing (concrete cone) $S_{cr,N}$ (mm)	Criticial edge distance (cone) $C_{cr,N}$ (mm)	Critical spacing (splitting) $S_{cr,sp}$ (mm)	Critical edge distance (splitting) $C_{cr,sp}$ (mm)
SXTB12080/G	Ø12 x 80	✓	12	16	SW 19	600	75	45	-	-	-	-	-	-	-	-	-	120	90	75	58.0	5	174	87	190	95
SXTB12100/G	Ø12 x 100	✓							-	-	-	-	-	-	-	-	-					25				
SXTB12110G	Ø12 x 110	✓							170	120	105	83.5	5	251	126	220	110					35				
SXTB12120/G	Ø12 x 120	✓											15									45				
SXTB12150/G	Ø12 x 150	✓											45									75				
SXTB12200/G	Ø12 x 200	✓											95									125				
SXTB14080/G	Ø14 x 80	✓	14	18	SW 21	600	80	50	-	-	-	-	-	-	-	-	-	120	90	75	58.0	5	174	87	190	95
SXTB14100/G	Ø14 x 100	✓							-	-	-	-	-	-	-	-	-					25				
SXTB14130/G	Ø14 x 130	✓							185	130	115	92.0	15	276	138	230	115					55				
SXTB14150/G	Ø14 x 150	✓											35									75				
SXTB16100/G	Ø16 x 100	✓	16	20	SW 24	600	80	50	-	-	-	-	-	-	-	-	-	115	100	80	58	20	174	87	180	90
SXTB16150/G	Ø16 x 150	✓							185	140	120	92.0	30	276	138	280	140					70				
SXTB16200/G	Ø16 x 200	✓											80									120				
SXTB18100/G	Ø18 x 100	✓	18	22	SW 26	600	90	55	-	-	-	-	-	-	-	-	-	140	110	90	69.5	10	209	105	230	115
SXTB18150/G	Ø18 x 150	✓							225	160	140	112.0	10	336	168	350	175					60				
SXTB18170/G	Ø18 x 170	✓											30									80				
SXTB18200/G	Ø18 x 200	✓											60									110				
SXTB18300/G	Ø18 x 300	✓											160									210				

Note: Add **"G"** to the part no for Nautilus® C option. e.g. **SXTB12080G**,

For Thunderbolt PRO
Stainless Steel 316 SS (A4) - HEX

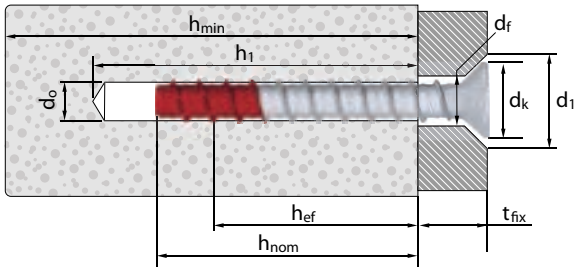


d_0: Nominal diameter of drill bit
d_f: Fixture clearance hole diameter
h_{ef}: Effective anchorage depth
h_1: Depth of drilled hole
h_{nom}: Overall fastener embedment depth in the concrete
h_{min}: Minimum thickness of concrete member
t_{fix}: Fixture thickness

General Installation parameters									Standard Installation depth ($h_{ef,\ std}$)									Reduced Installation depth ($h_{ef,\ red}$)								
Thunderbolt®PRO Part No	Size [-]	Assessed ETA	Drill bit diameter d_0 (mm)	Fixture clearance hole d_f (mm)	Spanner SW/Tx [-]	Impact tool torque T_{max} [Nm]	Minimum allowable spacing S_{min} (mm)	Minimum allowable edge distance C_{min} (mm)	Minimum concrete thickness h_{min} (mm)	Depth of drill hole h_1 (mm)	Installation depth h_{nom} (mm)	Effective anchorage depth h_{ef} (mm)	Thickness of fixture t_{fix} (mm)	Critical spacing (concrete cone) $S_{cr,N}$ (mm)	Critical edge distance (cone) $C_{cr,N}$ (mm)	Critical spacing (splitting) $S_{cr,sp}$ (mm)	Critical edge distance (splitting) $C_{cr,sp}$ (mm)	Minimum concrete thickness h_{min} (mm)	Depth of drill hole h_1 (mm)	Installation depth h_{nom} (mm)	Effective anchorage depth h_{ef} (mm)	Thickness of fixture t_{fix} (mm)	Critical spacing (concrete cone) $S_{cr,N}$ (mm)	Critical edge distance (cone) $C_{cr,N}$ (mm)	Critical spacing (splitting) $S_{cr,sp}$ (mm)	Critical edge distance (splitting) $C_{cr,sp}$ (mm)
SXTB06045SS	Ø6 x 45	✓	6	9	SW 10	250	35	35	-	-	-	-	-	-	-	-	-	80	45	35	26.0	10	78	39	90	45
SXTB06050SS	Ø6 x 50	✓							-	-	-	-	-	-	-	-	-					15				
SXTB06060SS	Ø6 x 60	✓							80	65	55	43.0	5	129	65	190	95					25				
SXTB06075SS	Ø6 x 75	✓											20									40				
SXTB06100SS	Ø6 x 100	✓											45									65				
SXTB08055SS	Ø8 x 55	✓	8	12	SW 13	600	35	35	-	-	-	-	-	-	-	-	-	80	60	50	37.5	5	113	57	130	65
SXTB08070SS	Ø8 x 70	✓							80	75	65	50.5	5	152	76	220	110					20				
SXTB08075SS	Ø8 x 75	✓											10									25				
SXTB08090SS	Ø8 x 90	✓											25									40				
SXTB08100SS	Ø8 x 100	✓											35									50				
SXTB10060SS	Ø10 x 60	✓	10	14	SW 17	600	50	40	-	-	-	-	-	-	-	-	-	80	65	55	41.5	5	125	63	140	70
SXTB10075SS	Ø10 x 75	✓							-	-	-	-	-	-	-	-	-					20				
SXTB10080SS	Ø10 x 80	✓							-	-	-	-	-	-	-	-	-					25				
SXTB10090SS	Ø10 x 90	✓							100	95	85	67	5	201	101	230	115					35				
SXTB10100SS	Ø10 x 100	✓											15									45				
SXTB10110SS	Ø10 x 110	✓											25									55				
SXTB10120SS	Ø10 x 120	✓											35									65				
SXTB12080SS	Ø12 x 80	✓	12	16	SW 19	600	75	45	-	-	-	-	-	-	-	-	-	120	90	75	58.0	5	174	87	190	95
SXTB12100SS	Ø12 x 100	✓							-	-	-	-	-	-	-	-	-					25				
SXTB12120SS	Ø12 x 120	✓							160	120	105	83.5	15	251	126	240	120					45				
SXTB12150SS	Ø12 x 150	✓											45									75				

INSTALLATION DATA

For Thunderbolt®PRO Countersunk Head NAUTILUS® C

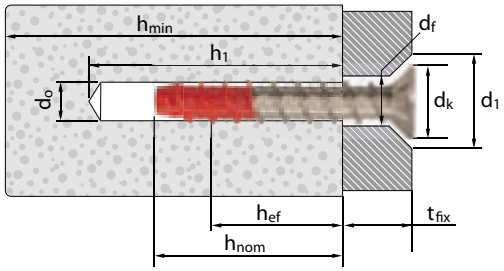


d_k: Diameter of CSK head
d_0: Nominal diameter of drill bit
d_f: Fixture clearance hole diameter
h_{ef}: Effective anchorage depth
h_1: Depth of drilled hole
h_{nom}: Overall fastener embedment depth in the concrete
h_{min}: Minimum thickness of concrete member
t_{fix}: Fixture thickness
d_1: Diameter of CSK drill size

General Installation parameters											Standard Installation depth ($h_{ef,\ std}$)									Reduced Installation depth ($h_{ef,\ red}$)								
Thunderbolt®PRO Part No	Size [-]	Assessed ETA	Drill bit diameter d_0 (mm)	Fixture clearance hole d_f (mm)	Diameter of CSK Head d_k (mm)	Diameter of CSK drill hole d_1 (mm)	Spanner SW/Tx [-]	Impact tool torque T_{max} [Nm]	Minimum allowable spacing S_{min} (mm)	Minimum allowable edge distance C_{min} (mm)	Minimum concrete thickness h_{min} (mm)	Depth of drill hole h_1 (mm)	Installation depth h_{nom} (mm)	Effective anchorage depth h_{ef} (mm)	Thickness of fixture t_{fix} (mm)	Critical spacing (concrete cone) $S_{cr,N}$ (mm)	Criticial edge distance (cone) $C_{cr,N}$ (mm)	Critical spacing (splitting) $S_{cr,sp}$ (mm)	Critical edge distance (splitting) $C_{cr,sp}$ (mm)	Minimum concrete thickness h_{min} (mm)	Depth of drill hole h_1 (mm)	Installation depth h_{nom} (mm)	Effective anchorage depth h_{ef} (mm)	Thickness of fixture t_{fix} (mm)	Critical spacing (concrete cone) $S_{cr,N}$ (mm)	Criticial edge distance (cone) $C_{cr,N}$ (mm)	Critical spacing (splitting) $S_{cr,sp}$ (mm)	Critical edge distance (splitting) $C_{cr,sp}$ (mm)
SXTBCS06050G	Ø6 x 50	✓	6	9	12.4	15	TX30	250	35	35	-	-	-	-	-	-	-	-	-	100	45	35	26.0	15	78	39	90	45
SXTBCS06075G	Ø6 x 75	✓									100	65	55	43.00	20	129	65	170	85					40				
SXTBCS06100G	Ø6 x 100	✓													45									65				
SXTBCS08060G	Ø8 x 60	✓	8	12	18	21	TX45	350	35	35	-	-	-	-	-	-	-	-	-	100	60	50	37.5	10	113	57	130	65
SXTBCS08075G	Ø8 x 75	✓									100	75	65	50.5	10	152	76	200	100					25				
SXTBCS08100G	Ø8 x 100	✓													35									50				
SXTBCS08135G	Ø8 x 135	✓													70									85				
SXTBCS10060G	Ø10 x 60	✓	10	14	21	24.5	TX50	600	50	40	-	-	-	-	-	-	-	-	-	100	65	55	41.5	5	125	63	140	70
SXTBCS10065G	Ø10 x 65	✓									-	-	-	-	-	-	-	-	-					10				
SXTBCS10075G	Ø10 x 75	✓									-	-	-	-	-	-	-	-	-					20				
SXTBCS10100G	Ø10 x 100	✓									135	95	85	67.0	15	201	101	210	105					45				
SXTBCS12085G	Ø12 x 85	✓	12	16	24	28	TX55	600	75	45	-	-	-	-	-	-	-	-	-	120	90	75	58	10	174	87	190	95
SXTBCS12100G	Ø12 x 100	✓									-	-	-	-	-	-	-	-	-					25				
SXTBCS12150G	Ø12 x 150	✓									170	120	105	83.5	45	251	126	220	110					75				

INSTALLATION DATA

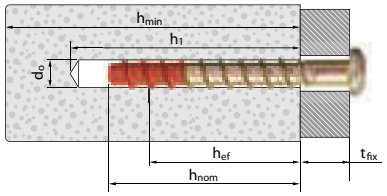
For Thunderbolt PRO Countersunk Head Stainless Steel 316 SS (A4)



d_k: Diameter of CSK head
d_0: Nominal diameter of drill bit
d_f: Fixture clearance hole diameter
h_{ef}: Effective anchorage depth
h_1: Depth of drilled hole
h_{nom}: Overall fastener embedment depth in the concrete
h_{min}: Minimum thickness of concrete member
t_{fix}: Fixture thickness
d_1: Diameter of CSK drill size

General Installation parameters												Standard Installation depth ($h_{ef,\ std}$)									Reduced Installation depth ($h_{ef,\ red}$)								
Thunderbolt®PRO Part No	Size [-]	Assessed ETA	Drill bit diameter d_0 (mm)	Fixture clearance hole d_f (mm)	Diameter of CSK Head d_k (mm)	Diameter of CSK drill hole d_1 (mm)	Spanner SW/Tx [-]	Impact tool torque T_{max} [Nm]	Minimum allowable spacing S_{min} (mm)	Minimum allowable edge distance C_{min} (mm)	Minimum concrete thickness h_{min} (mm)	Depth of drill hole h_1 (mm)	Installation depth h_{nom} (mm)	Effective anchorage depth h_{ef} (mm)	Thickness of fixture t_{fix} (mm)	Critical spacing (concrete cone) $S_{cr,N}$ (mm)	Criticial edge distance (cone) $C_{cr,N}$ (mm)	Critical spacing (splitting) $S_{cr,sp}$ (mm)	Critical edge distance (splitting) $C_{cr,sp}$ (mm)	Minimum concrete thickness h_{min} (mm)	Depth of drill hole h_1 (mm)	Installation depth h_{nom} (mm)	Effective anchorage depth h_{ef} (mm)	Thickness of fixture t_{fix} (mm)	Critical spacing (concrete cone) $S_{cr,N}$ (mm)	Criticial edge distance (cone) $C_{cr,N}$ (mm)	Critical spacing (splitting) $S_{cr,sp}$ (mm)	Critical edge distance (splitting) $C_{cr,sp}$ (mm)
SXTBCS06050SS	Ø6 x 50	✓	6	9	12.4	15	TX30	250	35	35	-	-	-	-	-	-	-	-	-	80	45	35	26	15	78	39	90	45
SXTBCS06075SS	Ø6 x 75	✓									80	65	55	43	20	129	65	190	95					40				
SXTBCS06100SS	Ø6 x 100	✓													45									65				
SXTBCS08075SS	Ø8 x 75	✓	8	12	18	21	TX45	600	35	35	80	75	65	50.5	10	152	76	220	110	80	60	50	37.5	25	113	57	130	65
SXTBCS08100SS	Ø8 x 100	✓													35									50				
SXTBCS10075SS	Ø10 x 75	✓	10	14	21	24.5	TX50	600	50	40	-	-	-	-	-	-	-	-	-	80	65	55	41.5	20	125	63	140	70
SXTBCS10100SS	Ø10 x 100	✓									100	95	85	67	15	201	101	230	115					45				
SXTBCS12100SS	Ø12 x 100	✓	12	16	24	28	TX55	600	75	45	-	-	-	-	-	-	-	-	-	120	90	75	58	25	174	87	190	95
SXTBCS12150SS	Ø12 x 150	✓									160	120	105	83.5	45	251	126	240	120					75				

INSTALLATION DATA for Thunderbolt®PRO Pan Head Zinc Yellow and NAUTILUS® C



d_0: Nominal diameter of drill bit
d_f: Fixture clearance hole diameter
h_{ef}: Effective anchorage depth
h_1: Depth of drilled hole
h_{nom}: Overall fastener embedment depth in the concrete
h_{min}: Minimum thickness of concrete member
t_{fix}: Fixture thickness

General Installation parameters									Standard Installation depth ($h_{ef,\ std}$)									Reduced Installation depth ($h_{ef,\ red}$)								
Thunderbolt®PRO Part No	Size [-]	Assessed ETA	Drill bit diameter d_0 (mm)	Fixture clearance hole d_f (mm)	Drive type Torx [-]	Impact tool torque T_{max} [Nm]	Minimum allowable spacing S_{min} (mm)	Minimum allowable edge distance C_{min} (mm)	Minimum concrete thickness h_{min} (mm)	Depth of drill hole h_1 (mm)	Installation depth h_{nom} (mm)	Effective anchorage depth h_{ef} (mm)	Thickness of fixture t_{fix} (mm)	Critical spacing (concrete cone) $S_{cr,N}$ (mm)	Critical edge distance (cone) $C_{cr,N}$ (mm)	Critical spacing (splitting) $S_{cr,sp}$ (mm)	Critical edge distance (splitting) $C_{cr,sp}$ (mm)	Minimum concrete thickness h_{min} (mm)	Depth of drill hole h_1 (mm)	Installation depth h_{nom} (mm)	Effective anchorage depth h_{ef} (mm)	Thickness of fixture t_{fix} (mm)	Critical spacing (concrete cone) $S_{cr,N}$ (mm)	Critical edge distance (cone) $C_{cr,N}$ (mm)	Critical spacing (splitting) $S_{cr,sp}$ (mm)	Critical edge distance (splitting) $C_{cr,sp}$ (mm)
SXTBP08060/G	Ø8 x 60	✓	8	12	T45	350	35	35	-	-	-	-	-	-	-	-	-	100	60	50	37.5	10	113	57	130	65
SXTBP08080/G	Ø8 x 80	✓							100	75	65	50.5	15	152	76	200	100					30				
SXTBP08100/G	Ø8 x 100	✓											35									50				

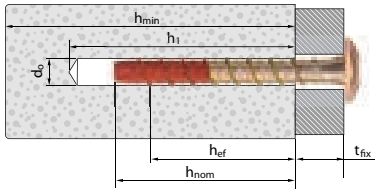
Note: Add **"G"** to the part no for Nautilus® C option. e.g. **SXTBP08080G**,

INSTALLATION DATA for Thunderbolt PRO Pan Head SS

RANGE COMING SOON

General Installation parameters									Standard Installation depth ($h_{ef,\ std}$)									Reduced Installation depth ($h_{ef,\ red}$)								
Thunderbolt®PRO Part No	Size [-]	Assessed ETA	Drill bit diameter d_0 (mm)	Fixture clearance hole d_f (mm)	Drive type Torx [-]	Impact tool torque T_{max} [Nm]	Minimum allowable spacing S_{min} (mm)	Minimum allowable edge distance C_{min} (mm)	Minimum concrete thickness h_{min} (mm)	Depth of drill hole h_1 (mm)	Installation depth h_{nom} (mm)	Effective anchorage depth h_{ef} (mm)	Thickness of fixture t_{fix} (mm)	Critical spacing (concrete cone) $S_{cr,N}$ (mm)	Critical edge distance (cone) $C_{cr,N}$ (mm)	Critical spacing (splitting) $S_{cr,sp}$ (mm)	Critical edge distance (splitting) $C_{cr,sp}$ (mm)	Minimum concrete thickness h_{min} (mm)	Depth of drill hole h_1 (mm)	Installation depth h_{nom} (mm)	Effective anchorage depth h_{ef} (mm)	Thickness of fixture t_{fix} (mm)	Critical spacing (concrete cone) $S_{cr,N}$ (mm)	Critical edge distance (cone) $C_{cr,N}$ (mm)	Critical spacing (splitting) $S_{cr,sp}$ (mm)	Critical edge distance (splitting) $C_{cr,sp}$ (mm)
SXTBP08060SS	Ø8 x 60	✓	8	12	T45	600	35	35	-	-	-	-	-	-	-	-	-	80	60	50	37.5	10	113	57	130	65
SXTBP08080SS	Ø8 x 80	✓							80	75	65	50.5	15	152	76	200	100					30				
SXTBP08100SS	Ø8 x 100	✓											35									50				

INSTALLATION DATA for Thunderbolt®PRO Truss Head Zinc Yellow and NAUTILUS® C



d_0: Nominal diameter of drill bit
d_f: Fixture clearance hole diameter
h_{ef}: Effective anchorage depth
h_1: Depth of drilled hole
h_{nom}: Overall fastener embedment depth in the concrete
h_{min}: Minimum thickness of concrete member
t_{fix}: Fixture thickness

General Installation parameters									Standard Installation depth ($h_{ef,\ std}$)									Reduced Installation depth ($h_{ef,\ red}$)								
Thunderbolt®PRO Part No	Size [-]	Assessed ETA	Drill bit diameter d_0 (mm)	Fixture clearance hole d_f (mm)	Drive type Torx [-]	Impact tool torque T_{max} [Nm]	Minimum allowable spacing S_{min} (mm)	Minimum allowable edge distance C_{min} (mm)	Minimum concrete thickness h_{min} (mm)	Depth of drill hole h_1 (mm)	Installation depth h_{nom} (mm)	Effective anchorage depth h_{ef} (mm)	Thickness of fixture t_{fix} (mm)	Critical spacing (concrete cone) $S_{cr,N}$ (mm)	Critical edge distance (cone) $C_{cr,N}$ (mm)	Critical spacing (splitting) $S_{cr,sp}$ (mm)	Critical edge distance (splitting) $C_{cr,sp}$ (mm)	Minimum concrete thickness h_{min} (mm)	Depth of drill hole h_1 (mm)	Installation depth h_{nom} (mm)	Effective anchorage depth h_{ef} (mm)	Thickness of fixture t_{fix} (mm)	Critical spacing (concrete cone) $S_{cr,N}$ (mm)	Critical edge distance (cone) $C_{cr,N}$ (mm)	Critical spacing (splitting) $S_{cr,sp}$ (mm)	Critical edge distance (splitting) $C_{cr,sp}$ (mm)
SXTBTR06045/G	Ø6 x 45	✓	6	9	T30	250	35	35	-	-	-	-	-	-	-	-	-	100	45	35	26	10	78	39	90	45
SXTBTR06060/G	Ø6 x 60	✓							100	65	55	43	5	129	65	170	85					25				
SXTBTR06080/G	Ø6 x 80	✓											25									45				
SXTBTR06100/G	Ø6 x 100	✓											45									65				

Note: Add "G" to the part no for Nautilus® C option. e.g. **SXTBTR06080G**,

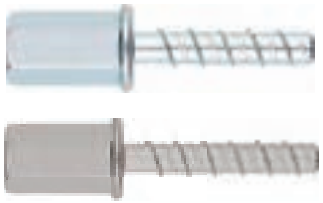
INSTALLATION DATA for Thunderbolt PRO Truss Head SS

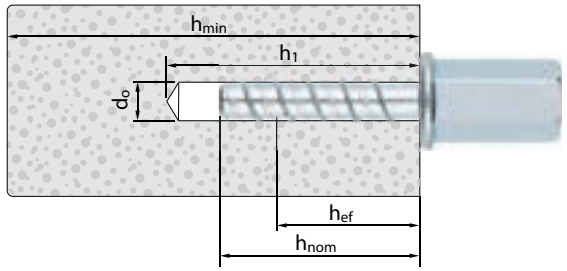
RANGE COMING SOON

General Installation parameters									Standard Installation depth ($h_{ef,\ std}$)									Reduced Installation depth ($h_{ef,\ red}$)								
Thunderbolt®PRO Part No	Size [-]	Assessed ETA	Drill bit diameter d_0 (mm)	Fixture clearance hole d_f (mm)	Drive type Torx [-]	Impact tool torque T_{max} [Nm]	Minimum allowable spacing S_{min} (mm)	Minimum allowable edge distance C_{min} (mm)	Minimum concrete thickness h_{min} (mm)	Depth of drill hole h_1 (mm)	Installation depth h_{nom} (mm)	Effective anchorage depth h_{ef} (mm)	Thickness of fixture t_{fix} (mm)	Critical spacing (concrete cone) $S_{cr,N}$ (mm)	Critical edge distance (cone) $C_{cr,N}$ (mm)	Critical spacing (splitting) $S_{cr,sp}$ (mm)	Critical edge distance (splitting) $C_{cr,sp}$ (mm)	Minimum concrete thickness h_{min} (mm)	Depth of drill hole h_1 (mm)	Installation depth h_{nom} (mm)	Effective anchorage depth h_{ef} (mm)	Thickness of fixture t_{fix} (mm)	Critical spacing (concrete cone) $S_{cr,N}$ (mm)	Critical edge distance (cone) $C_{cr,N}$ (mm)	Critical spacing (splitting) $S_{cr,sp}$ (mm)	Critical edge distance (splitting) $C_{cr,sp}$ (mm)
SXTBTR06045SS	Ø6 x 45	✓	6	9	T30	250	35	35	-	-	-	-	-	-	-	-	-	80	45	35	26	10	78	39	90	45
SXTBTR06060SS	Ø6 x 60	✓							80	65	55	43	5	129	65	190	95					25				
SXTBTR06080SS	Ø6 x 80	✓											25									45				
SXTBTR06100SS	Ø6 x 100	✓											45									65				

INSTALLATION DATA

For Thunderbolt®PRO Rod Hangerz™
Zinc clear and Galvanised - INTERNAL Thread





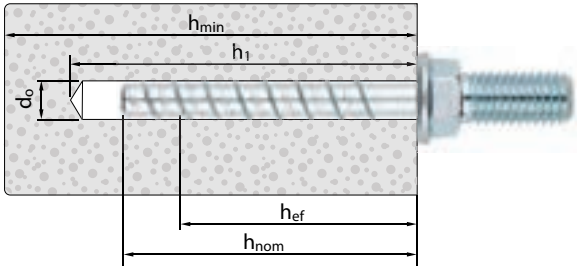
d_0: Nominal diameter of drill bit
h_{ef}: Effective anchorage depth
h_1: Depth of drilled hole
h_{nom}: Overall fastener embedment depth in the concrete
h_{min}: Minimum thickness of concrete member

General Installation parameters								Standard Installation depth ($h_{ef,std}$)							
Thunderbolt®PRO Part No	Size [-]	Assessed ETA	Drill bit diameter d_0 (mm)	Spanner SW/Tx [-]	Impact tool torque T_{max} [Nm]	Minimum allowable spacing S_{min} (mm)	Minimum allowable edge distance C_{min} (mm)	Minimum concrete thickness h_{min} (mm)	Depth of drill hole h_1 (mm)	Installation depth h_{nom} (mm)	Effective anchorage depth h_{ef} (mm)	Critical spacing (concrete cone) $S_{cr,N}$ (mm)	Critical edge distance (cone) $C_{cr,N}$ (mm)	Critical spacing (splitting) $S_{cr,sp}$ (mm)	Critical edge distance (splitting) $C_{cr,sp}$ (mm)
SXTB-IM06035	Ø6 x 35 (M8-M10)	✓	6	SW 13	250	35	35	100	45	35	26.0	78	39	90	45
SXTB-IM06040/G-M10	Ø6 x40 (M10)	✓						100	50	40	30.0	90	45	90	45
SXTB-IM06055	Ø6 x 55 (M8-M10)	✓						100	65	55	43.0	129	65	170	85
SXTB-IM08050/G-M10	Ø8 x 50 (M10)	✓	8	SW 13	350	35	35	100	60	50	37.5	113	57	130	65
SXTB-IM08050/G-M12	Ø8 x 50 (M12)	✓		SW 17											

Note: Add **"G"** to the part no for Galvanised option. e.g. **SXTB-IM06040G-M10**,

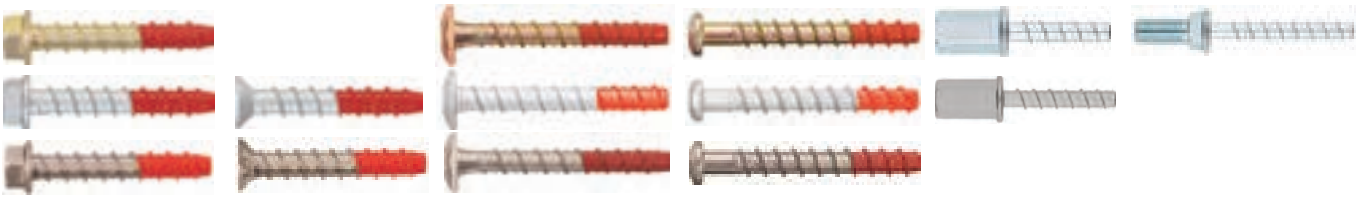
INSTALLATION DATA

For Thunderbolt®PRO Hangerz™ Zinc clear - External Thread



d_0: Nominal diameter of drill bit
h_{ef}: Effective anchorage depth
h_1: Depth of drilled hole
h_{nom}: Overall fastener embedment depth in the concrete
h_{min}: Minimum thickness of concrete member

General Installation parameters								Standard Installation depth ($h_{ef,std}$)							
Thunderbolt®PRO Part No	Size [-]	Assessed ETA	Drill bit diameter d_0 (mm)	Spanner SW/Tx [-]	Impact tool torque T_{max} [Nm]	Minimum allowable spacing S_{min} (mm)	Minimum allowable edge distance C_{min} (mm)	Minimum concrete thickness h_{min} (mm)	Depth of drill hole h_1 (mm)	Installation depth h_{nom} (mm)	Effective anchorage depth h_{ef} (mm)	Critical spacing (concrete cone) $S_{cr,N}$ (mm)	Criticial edge distance (cone) $C_{cr,N}$ (mm)	Critical spacing (splitting) $S_{cr,sp}$ (mm)	Critical edge distance (splitting) $C_{cr,sp}$ (mm)
SXTB-B06040-M10	Ø6 x40 (M10)	✓	6	SW 13	250	35	35	100	50	40	30.0	90	45	90	45



THUNDERBOLT®PRO Performance in accordance with AS 5216

Parameters: Qualification based on AS 5216
Concrete: 20 MPa
Conditions: Single anchor, no edge distance, min recommended concrete thickness

Design Resistance Capacities

Diameter (mm)	Installation Depth h_{nom} (mm)	Effective Depth h_{ef} (mm)	Uncracked concrete Tension N_{Rd} (kN)	Cracked concrete Tension N_{Rd} (kN)	Uncracked Concrete Shear V_{Rd} (kN)	Cracked concrete Shear V_{Rd} (kN)
6	35	26.0	2.8	2.5	8.4	6.2
	40	30.0	4.5	3.1	7.8	5.4
	55	43.0	9.2	6.5	8.4	7.4
8	50	37.5	6.3	4.4	13.0	9.5
	65	50.5	11.8	8.2	13.0	10.5
10	55	41.5	8.8	6.1	17.1	12.0
	75	58.5	14.7	10.3	18.3	13.6
	85	67.0	18.0	12.6	18.3	18.3
12	75	58.0	14.5	10.1	24.8	23.6
	105	83.5	25.0	17.5	24.8	24.8
14	75	58.0	14.5	10.1	35.1	25.9
	115	92.0	28.9	20.3	35.1	35.1
16	80	58.0	14.5	10.1	32.6	22.8
	120	92.0	28.9	20.3	41.5	40.5
18	90	69.5	19.0	13.3	50.5	35.4
	140	112.0	38.9	27.2	53.9	53.9

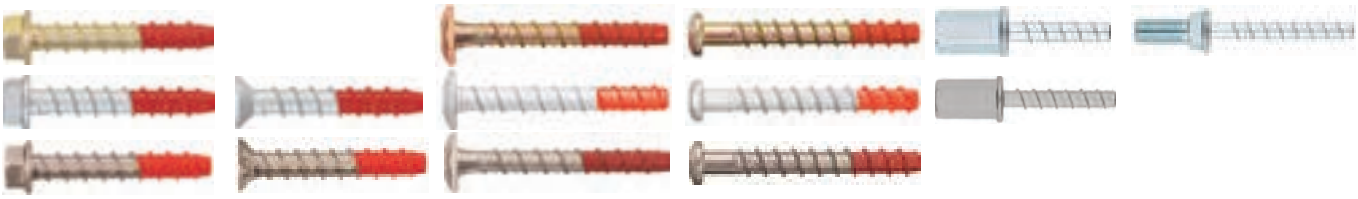
Information presented in the above table has been derived from the product ETA (ETA 20/0902) and in accordance with AS 5216:2021. Data is based on single anchor with no edge or spacing influence. For detailed calculations incorporating multiple anchors please download the ICCONS anchor software program for assistance, this download is available via the ICCONS website www.iccons.com.au

Performance for use in redundant non-structural systems - 20 MPa

Design Resistance Capacities

Diameter (mm)	Installation Depth h_{nom} (mm)	Effective Depth h_{ef} (mm)	Uncracked concrete Tension N_{Rd} (kN)	Cracked concrete Tension N_{Rd} (kN)	Uncracked Concrete Shear V_{Rd} (kN)	Cracked concrete Shear V_{Rd} (kN)
5	35	26.5	4.5	3.1	4.5	3.1
	45	35.0	6.8	4.8	5.5	4.8
6	35	26.0	3.6	2.5	4.3	3.0
	55	43.0	9.2	6.5	8.4	6.5

Information presented in the above table has been derived from the product ETA (ETA 20/0901) and in accordance with AS 5216:2021 for redundant non-structural systems. Redundant non-structural systems incorporate multiple fixings and fixing points please refer to product ETA and AS 5216:2021 for further details.

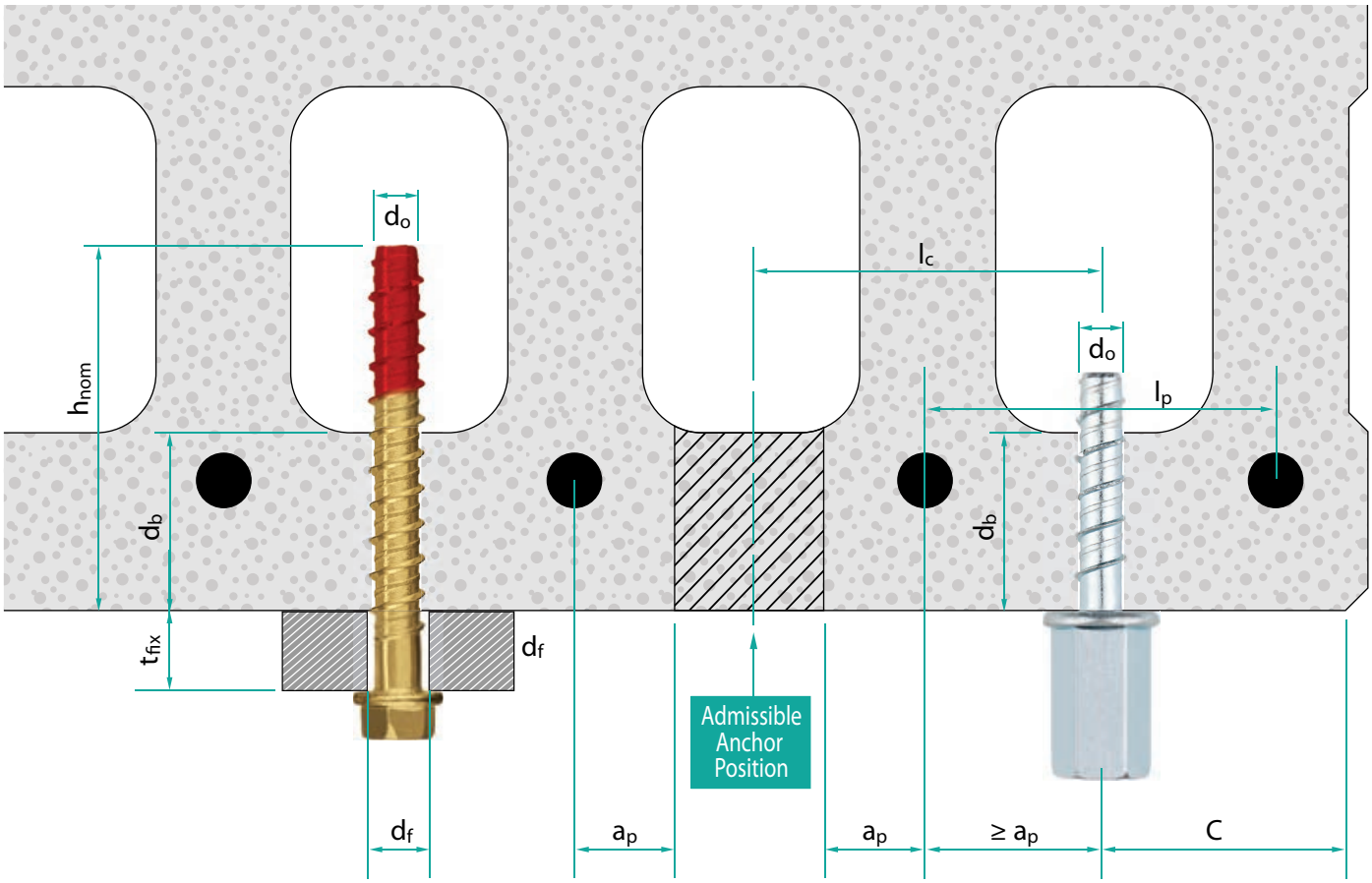


Thunderbolt®PRO Performance for use in redundant non-structural systems - prestressed hollow core slabs (C30/37 to C50/60)

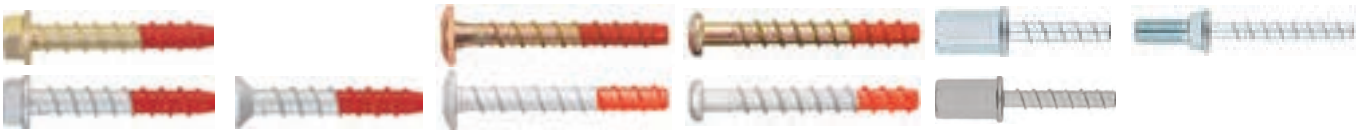
Design Resistance Capacities

Diameter d_o (mm)	Min. Bottom Flange Thickness d_b (mm)	Effective Depth h_{ef} (mm)	Uncracked Concrete Tension N_{Rd} (kN)	Uncracked Concrete Shear V_{Rd} ((kN)
5	25	20.0	2.4	2.4
	30	22.0	2.8	2.8
	40	26.5	3.7	3.7
6	25	20.0	2.4	2.4
	30	22.0	2.8	2.8
	40	26.0	3.6	3.6

Information presented in the above table has been derived from the product ETA (ETA 20/0901) and in accordance with AS 5216:2021 for redundant non-structural systems. Redundant non-structural systems incorporate multiple fixings and fixing points please refer to product ETA and AS 5216:2021 for further details.



d_0: Nominal diameter of drill bit
d_f: Fixture clearance hole diameter
d_b: Bottom flange thickness
a_p: Distance between anchor position and prestressing steel ≥ 50 mm
l_c: Core spacing distance ≥ 100 mm
l_p Steel reinforcement spacing distance ≥ 100 mm
t_{fix}: Fixture thickness
C: Edge distance



Thunderbolt®PRO Seismic Performance in accordance with AS 5216:2021
Thunderbolt®PRO Seismic C1

Design Resistance Capacities - 20 MPa (a_{gap} = 1.0)

SXTB Screw-Bolt size	Embed. Depth (mm)	Effective Depth (min.)	Tension $N_{Rd,seis}$ (kN)	Shear $V_{Rd,seis}$ (kN)
6	40	30.0	2.8	3.9
6	55	43.0	3.3	6.3
8	50	37.5	3.4	5.8
8	65	50.5	5.9	7.8
10	85	67.0	9.8	12.8
12	105	83.5	12.1	15.7
14	115	92.0	15.5	21.1
18	140	112.0	23.1	29.4

→ a_{seis} = 0.85 for tension → a_{seis} = 0.85 for shear concrete pryout

Thunderbolt®PRO Seismic Performance in accordance with AS 5216:2021
Thunderbolt®PRO Seismic C2

Design Resistance Capacities - 20 MPa (a_{gap} = 1.0)

SXTB Screw-Bolt size	Embed. Depth (mm)	Effective Depth (min.)	Tension $N_{Rd,seis}$ (kN)	Shear $V_{Rd,seis}$ (kN)
8	50	37.5	1.3	5.6
8	65	50.5	2.3	7.8
10	85	67.0	4.6	12.8
12	105	83.5	7.0	15.7
14	115	92.0	10.2	21.1
18	140	112.0	21.0	29.4

→ a_{seis} = 0.85 for tension → a_{seis} = 0.85 for shear concrete pryout

Information presented in the above tables has been derived from the product ETA (ETA 20/0902) and in accordance with AS 5216:2021. Data is based on single anchor with no edge or spacing influence. For detailed calculations incorporating multiple anchors please download the ICCONS® anchor software program for assistance, this download is available via the ICCONS® website www.iccons.com.au.

THUNDERBOLT® PRO Stainless Steel (A4) Performance in accordance with AS 5216

Parameters: Qualification based on AS 5216
Concrete: 20 MPa
Conditions: Single anchor, no edge distance, min recommended concrete thickness

Design Resistance Capacities

Diameter (mm)	Installation Depth h_{nom} (mm)	Effective Depth h_{ef} (mm)	Uncracked concrete Tension N_{Rd} (kN)	Cracked concrete Tension N_{Rd} (kN)	Uncracked Concrete Shear V_{Rd} (kN)	Cracked concrete Shear V_{Rd} (kN)
6	35	26.0	3.1	0.6	6.1	4.3
	40	30.0	4.5	1.4	7.0	6.3
	55	43.0	6.7	5.4	7.0	5.7
8	50	37.5	5.6	4.4	10.7	7.5
	65	50.5	9.8	6.9	11.7	9.5
10	55	41.5	7.3	5.1	13.4	9.4
	85	67.0	15.0	10.5	19.2	19.2
12	75	58.0	12.1	8.5	26.4	18.5
	105	83.5	25.0	17.5	27.9	27.9

Information presented in the above table has been derived from the product ETA (ETA 20/0902) and in accordance with AS 5216:2021. Data is based on single anchor with no edge or spacing influence. For detailed calculations incorporating multiple anchors please download the ICCONS anchor software program for assistance, this download is available via the ICCONS website www.iccons.com.au

Thunderbolt Pro Stainless Steel (A4) Seismic Performance in accordance with AS 5216:2021

Thunderbolt Pro Stainless Steel Seismic C1

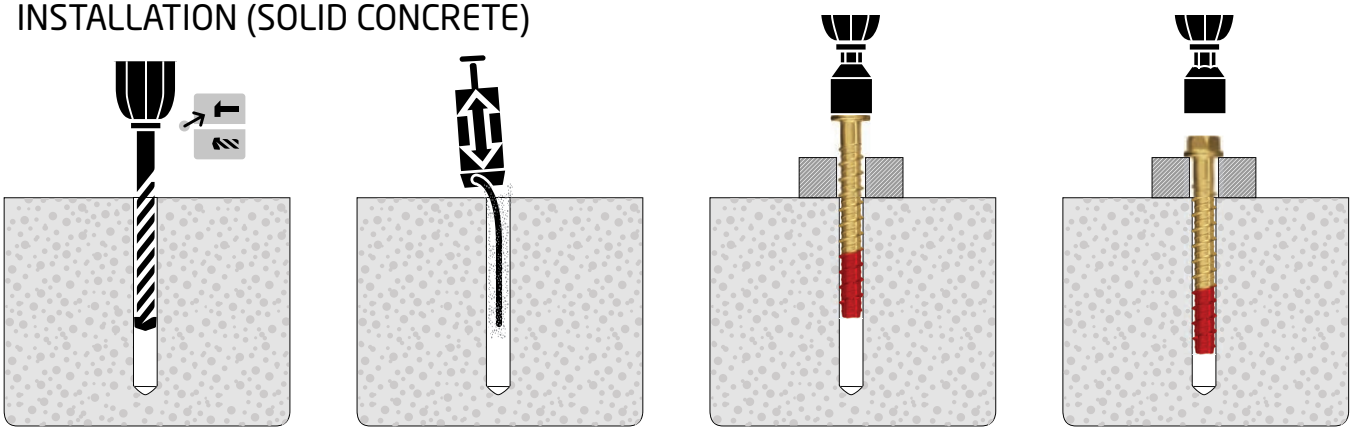
Design Resistance Capacities - 20 MPa (a_{gap} = 1.0)

SXTB Screw-Bolt size	Embed. Depth (mm)	Effective Depth (min.)	Tension $N_{Rd,seis}$ (kN)	Shear $V_{Rd,seis}$ (kN)
6	40	30.0	1.2	3.9
6	55	43.0	3.2	4.8
8	50	37.5	2.0	5.4
8	65	50.5	4.9	6.7
10	55	41.5	3.7	8.0
10	85	67.0	7.1	13.2
12	75	58.0	5.5	15.7
12	105	83.5	14.4	20.5

→ a_{seis} = 0.85 for tension → a_{seis} = 0.85 for shear concrete pryout

Information presented in the above tables has been derived from the product ETA (ETA 20/0902) and in accordance with AS 5216:2021. Data is based on single anchor with no edge or spacing influence. For detailed calculations incorporating multiple anchors please download the ICCONS® anchor software program for assistance, this download is available via the ICCONS® website www.iccons.com.au.

INSTALLATION (SOLID CONCRETE)



1. DRILL HOLE
With the correct diameter carbide drill bit, drill a hole into the base material to the correct depth using a hammer drill in rotary and hammer mode.

2. BLOW AND CLEAN
Using a hand pump, compressed air or a vacuum system, remove dust and debris from the drilled hole.

3. INSTALL
Use a correct powered impact driver or a torque wrench that does not exceed the maximum torque $T_{impact,\,max}$ or $T_{inst,\,max}$ respectively. Attach an appropriately sized hex socket or six lob bit to the impact driver. Mount the screw anchor head in the socket / bit.

4. APPLY TORQUE
Drive the screw anchor with an impact driver or a torque wrench through the fixture and into the drilled hole until the anchor head is seated against the fixture. The anchor must be snug tight after installation. Do not spin the socket off the anchor to disengage.

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ICCONS® PTY LTD

VICTORIA - HEAD OFFICE
383 Frankston Dandenong Rd,
Dandenong South,
Vic, 3175
P: **03 9706 4344**

NSW Branch
Unit A, 17 Seddon Street,
Bankstown,
New South Wales, 2200
P: **02 9791 6869**

QLD Branch
42-44 Nealdon Dr
Meadowbrook,
Queensland, 4131
P: **07 3200 6455**

FNQ Branch
41 Corporate Cresent
Garbutt,
Queensland, 4814
P: **07 2111 3453**

S.A Branch
29-31 Weaver Street,
Edwardstown,
South Australia 5039
P: **08 8234 5535**

W.A. Branch
90 Christable Way,
Landsdale,
Western Australia, 6065
P: **08 6305 0008**

NORTHERN TERRITORY
Unit 1, 14 Menmuir Street,
Winnellie,
Northern Territory 0820
P: **08 8947 2758**

NEW ZEALAND

Sesto Fasteners
5E Piermark Drive,
Rosedale, Auckland,
New Zealand, 0632
P: **+64 9415 8564**
E: **sestofasteners@gmail.com**

THAILAND

ICCONS® (Thailand) Co. Ltd.
55 Phetkasem 62/3, Bangkhae,
Bangkok 0160
P: **+ 66 2 801 0764**
F: **+ 66 2 801 0764**
M: **+ 66 8 1 710 8745**
E: **icconsthailand@iccons.com.au**