



# PRO THUNDERBOLT®



5 | 6 | 8 | 10 | 12 | 14 | 18 MM



## 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 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

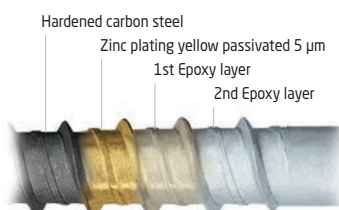
ETA 20/0901 (RNSS)

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 NAUTILUS®C Coating
SXTB-B _____	Ø6		Rod hanger external thread Screw-Bolt anchor	Carbon steel, zinc clear plated coating ≥ 5 µm

## 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.



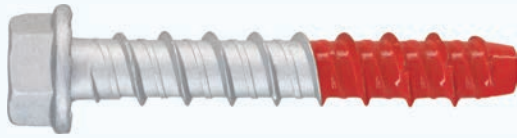
### Zinc Yellow - Internal Use

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							100	1200									
SXTB06050	6 x 50mm		10	5	100							1200										
SXTB06060	6 x 60mm		5	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	250	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	35				100	400															
SXTB08140	8 x 140mm	75				65	35	100	400													
SXTB10060	10 x 60mm	10				65	55	5	14	17	BTISS1738	250							Option 1	n/a	50	300
SXTB10075	10 x 75mm		20	50	300																	
SXTB10090	10 x 90mm		5	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				15							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	15	25	100																		
SXTB14150	14 x 150mm	35	25	100																		
SXTB16100	16 x 100mm	16	110	90		10	19	24	BTISS2440	600	Pending			Pending							15	90
SXTB16150	16 x 150mm					60															15	60
SXTB16200	16 x 200mm					100															10	40
SXTB18100	18 x 100mm	18	110	90	10	22	26	BTISS2643	600	Option 1	n/a	20	80									
SXTB18150	18 x 150mm				30							15	60									
SXTB18170	18 x 170mm				60							15	60									
SXTB18200	18 x 200mm				160							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							100	1200									
SXTB06050G	6 x 50mm		10	100	1200																	
SXTB06060G	6 x 60mm		5	100	600																	
SXTB06075G	6 x 75mm		20	100	600																	
SXTB06100G	6 x 100mm		45	100	600																	
SXTB08055G	8 x 55mm		8	60	50							5	12	13	BTISS1338	250	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	35				100	400															
SXTB08140G	8 x 140mm	75				65	75	25	150													
SXTB10060G	10 x 60mm	10				65	55	5	14	17	BTISS1738	250							Option 1	n/a	50	300
SXTB10075G	10 x 75mm		20	50	300																	
SXTB10090G	10 x 90mm		5	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									
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	15	25	100																		
SXTB14150G	14 x 150mm	35	25	100																		
SXTB16100G	16 x 100mm	16	110	90		10	19	24	BTISS2440	600	Pending			Pending							15	90
SXTB16150G	16 x 150mm					60															15	60
SXTB16200G	16 x 200mm					100															10	40
SXTB18100G	18 x 100mm				18	110						90	10		22	26	BTISS2643	600	Option 1	n/a	20	80
SXTB18150G	18 x 150mm												15								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



## SCREW-BOLT ANCHOR

TDS | 1032.7



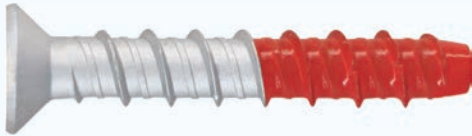
T30 | T45 | T50 | T55  
Torx Impact Driver  
Refer to ICCONS product guide (IPG) for further details.



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



## Thunderbolt® PRO Countersunk Head



### 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	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		65	55	45									100	600
SXTBCS08060G	8 x 60mm	8	60	50	10	12	21	6.5	T45	BTI050T45	250	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	50
SXTBCS10060G	10 x 60mm	10	65	55	5	14	24.5	7.3	T50	BTI050T50	250	Option 1	n/a	50	200
SXTBCS10065G	10 x 65mm				10									50	200
SXTBCS10075G	10 x 75mm				20									50	200
SXTBCS10100G	10 x 100mm				15									C1 & C2	50
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				45									C1 & C2	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  
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 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
<b>SXTBP08060</b>	8 x 60mm	8	60	50	10	12	T45	BTI050T45	250	Option 1	C1 & C2	100	600
<b>SXTBP08080</b>	8 x 80mm		30	50	50							200	
<b>SXTBP08100</b>	8 x 100mm		75	65	35							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
<b>SXTBP08060G</b>	8 x 60mm	8	60	50	10	12	T45	BTI050T45	250	Option 1	C1 & C2	100	600
<b>SXTBP08080G</b>	8 x 80mm		30	50	50							200	
<b>SXTBP08100G</b>	8 x 100mm		75	65	35							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 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
<b>SXTBTR06045</b>	6 x45mm	6	50	40	5	9	T30	BTI050T30	250	Option 1 & RNSS	C1	100	1200
<b>SXTBTR06060</b>	6 x60mm		5	100	600								
<b>SXTBTR06080</b>	6 x80mm		25	100	600								
<b>SXTBTR06100</b>	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
<b>SXTBTR06045G</b>	6 x45mm	6	50	40	5	9	T30	BTI050T30	250	Option 1 & RNSS	C1	100	1200
<b>SXTBTR06060G</b>	6 x60mm		5	100	600								
<b>SXTBTR06080G</b>	6 x80mm		25	100	600								
<b>SXTBTR06100G</b>	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 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

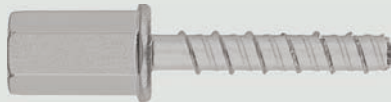
Part No.	Description	Drill Diameter (mm)	Drill Depth (mm)	Head / Socket Size (mm)	Internal Thread (metric)	Socket Part No.	Max. Impact Tool Torque Tmax (Nm)	ETA Option	SEISMIC Assessment	qty	qty
SXTB-IM06035	6 X 35 Rod Hanger (M8/M10)	6	45	13	M8/M10	HZCM10-D	250	Option 1 & RNSS	n/a	50	400
SXTB-IM06035-BK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

\* AVAILABLE SOON

## Thunderbolt® PRO Rod Hangerz™



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



### NAUTILUS® C - 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 & RNSS	C1	100	400
SXTB-IM08050G-M10*	8 X 50 ETA Rod Hanger (M10)	8	60	13	M10	HZCM10-D	250	Option 1	C1 & C2	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.

\* AVAILABLE SOON

## Thunderbolt® PRO Rod 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 & RNSS	C1	100	400

RNSS = ETA Redundant non-structural systems | Option 1 = ETA Option 1 = AS 5216 Compliant

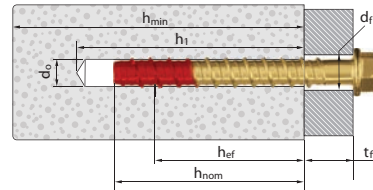
Excessive torque during installation may damage the anchor. Training, expertise and good judgment is required. Always adhere to anchor installation impact tool torque guidelines.

\* AVAILABLE SOON





For Thunderbolt® PRO Hex Head  
Zinc Yellow and Galvanised



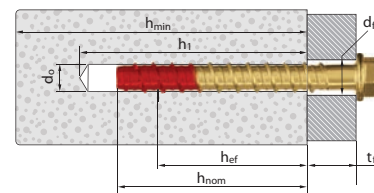
- $d_0$ : Nominal diameter of drill bit
- $d_f$ : Fixture clearance hole diameter
- $h_{ef}$ : Effective anchorage depth
- $h_1$ : Depth of drilled hole
- $h_{nom}$ : Overall fastener embedment depth in the concrete
- $h_{min}$ : Minimum thickness of concrete member
- $t_{fix}$ : Fixture thickness

General Installation parameters									Standard Installation depth ( $h_{ef, std}$ )								Reduced Installation depth ( $h_{ef, red}$ )									
Thunderbolt® PRO	Size	Assessed	Drill bit diameter	Fixture clearance hole	Spanner	Impact tool torque	Minimum allowable spacing	Minimum allowable edge distance	Minimum concrete thickness	Depth of drill hole	Installation depth	Effective anchorage depth	Thickness of fixture	Critical spacing (concrete cone)	Critical edge distance (cone)	Critical spacing (splitting)	Critical edge distance (splitting)	Minimum concrete thickness	Depth of drill hole	Installation depth	Effective anchorage depth	Thickness of fixture	Critical spacing (concrete cone)	Critical edge distance (cone)	Critical spacing (splitting)	Critical edge distance (splitting)
Part No	[-]	ETA	$d_0$ (mm)	$d_f$ (mm)	SW/Tx [-]	$T_{max}$ [Nm]	$S_{min}$ (mm)	$C_{min}$ (mm)	$h_{min}$ (mm)	$h_1$ (mm)	$h_{nom}$ (mm)	$h_{ef}$ (mm)	$t_{fix}$ (mm)	$S_{cr,N}$ (mm)	$C_{cr,N}$ (mm)	$S_{cr,sp}$ (mm)	$C_{cr,sp}$ (mm)	$h_{min}$ (mm)	$h_1$ (mm)	$h_{nom}$ (mm)	$h_{ef}$ (mm)	$t_{fix}$ (mm)	$S_{cr,N}$ (mm)	$C_{cr,N}$ (mm)	$S_{cr,sp}$ (mm)	$C_{cr,sp}$ (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	✓							25																	
SXTB06075/G	Ø6 x 75	✓							40																	
SXTB06100/G	Ø6 x 100	✓							65																	
SXTB08055/G	Ø8 x 55	✓	8	12	SW 13	250	35	35	-	-	-	-	-	-	-	-	-	100	60	50	37.5	5	113	57	130	65
SXTB08060/G	Ø8 x 60	✓							10																	
SXTB08070/G	Ø8 x 70	✓							20																	
SXTB08075/G	Ø8 x 75	✓							25																	
SXTB08100/G	Ø8 x 100	✓							50																	
SXTB08140/G	Ø8 x 140	✓							90																	
SXTB10060/G	Ø10 x 60	✓	10	14	SW 17	250	50	40	-	-	-	-	-	-	-	-	-	100	65	55	41.5	5	125	63	140	70
SXTB10075/G	Ø10 x 75	✓							20																	
SXTB10090/G	Ø10 x 90	✓							35																	
SXTB10100/G	Ø10 x 100	✓							45																	
SXTB10120/G	Ø10 x 120	✓							65																	
SXTB10150/G	Ø10 x 150	✓							95																	
SXTB10200/G	Ø10 x 200	✓	145																							

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



For Thunderbolt® PRO Hex Head  
Zinc Yellow and Galvanised



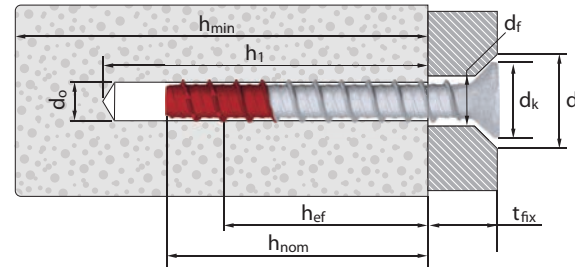
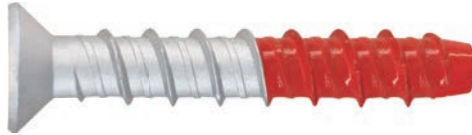
- $d_0$ : Nominal diameter of drill bit
- $d_f$ : Fixture clearance hole diameter
- $h_{ef}$ : Effective anchorage depth
- $h_1$ : Depth of drilled hole
- $h_{nom}$ : Overall fastener embedment depth in the concrete
- $h_{min}$ : Minimum thickness of concrete member
- $t_{fix}$ : Fixture thickness

General Installation parameters									Standard Installation depth ( $h_{ef, std}$ )								Reduced Installation depth ( $h_{ef, red}$ )									
Thunderbolt® PRO	Size	Assessed	Drill bit diameter	Fixture clearance hole	Spanner	Impact tool torque	Minimum allowable spacing	Minimum allowable edge distance	Minimum concrete thickness	Depth of drill hole	Installation depth	Effective anchorage depth	Thickness of fixture	Critical spacing (concrete cone)	Critical edge distance (cone)	Critical spacing (splitting)	Critical edge distance (splitting)	Minimum concrete thickness	Depth of drill hole	Installation depth	Effective anchorage depth	Thickness of fixture	Critical spacing (concrete cone)	Critical edge distance (cone)	Critical spacing (splitting)	Critical edge distance (splitting)
Part No	[-]	ETA	$d_0$ (mm)	$d_f$ (mm)	SW/Tx [-]	$T_{max}$ [Nm]	$S_{min}$ (mm)	$C_{min}$ (mm)	$h_{min}$ (mm)	$h_1$ (mm)	$h_{nom}$ (mm)	$h_{ef}$ (mm)	$t_{fix}$ (mm)	$S_{cr,N}$ (mm)	$C_{cr,N}$ (mm)	$S_{cr,sp}$ (mm)	$C_{cr,sp}$ (mm)	$h_{min}$ (mm)	$h_1$ (mm)	$h_{nom}$ (mm)	$h_{ef}$ (mm)	$t_{fix}$ (mm)	$S_{cr,N}$ (mm)	$C_{cr,N}$ (mm)	$S_{cr,sp}$ (mm)	$C_{cr,sp}$ (mm)
SXTB12080/G	Ø12 x 80	✓	12	16	SW 19	600	75	45	-	-	-	-	-	-	-	-	-	120	90	75	580	5	174	87	190	95
SXTB12100/G	Ø12 x 100	✓							25																	
SXTB12120/G	Ø12 x 120	✓							45	15	251	126	220	110												
SXTB12150/G	Ø12 x 150	✓							75	45	251	126	220	110												
SXTB12200/G	Ø12 x 200	✓							125	95	251	126	220	110												
SXTB14080/G	Ø14 x 80	✓	14	18	SW 21	600	80	50	-	-	-	-	-	-	-	-	-	120	90	75	580	5	174	87	190	95
SXTB14100/G	Ø14 x 100	✓							25																	
SXTB14130/G	Ø14 x 130	✓							55	15	276	138	230	115												
SXTB14150/G	Ø14 x 150	✓							75	35	276	138	230	115												
SXTB18100/G	Ø18 x 100	✓							10	-	-	-	-	-												
SXTB18150/G	Ø18 x 150	✓	60	-	-	-	-	-	140	110	90	695	209	105	230	115										
SXTB18170/G	Ø18 x 170	✓	80	30	336	168	350	175																		
SXTB18200/G	Ø18 x 200	✓	110	60	336	168	350	175																		
SXTB18300/G	Ø18 x 300	✓	210	160	336	168	350	175																		

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

### INSTALLATION DATA

For Thunderbolt® PRO Countersunk Head  
NAUTILUS® C Galvanised

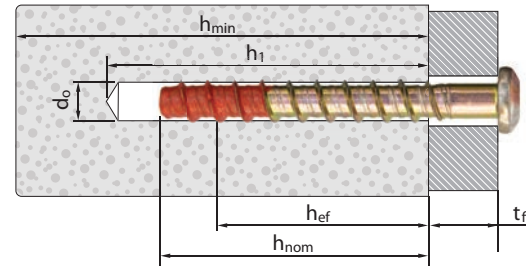
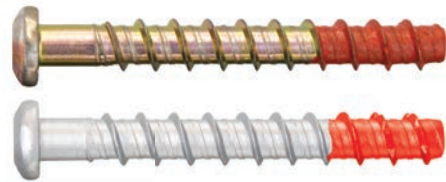


- $d_k$ : Diameter of CSK head
- $d_0$ : Nominal diameter of drill bit
- $d_f$ : Fixture clearance hole diameter
- $h_{ef}$ : Effective anchorage depth
- $h_1$ : Depth of drilled hole
- $h_{nom}$ : Overall fastener embedment depth in the concrete
- $h_{min}$ : Minimum thickness of concrete member
- $t_{fix}$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

### INSTALLATION DATA

For Thunderbolt® PRO Pan Head  
Zinc Yellow and Galvanised



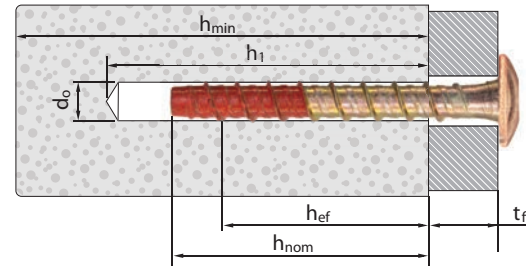
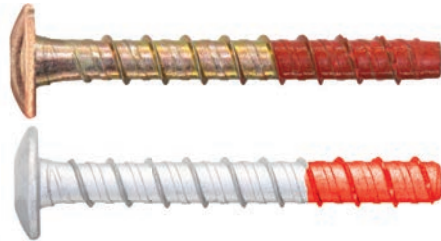
- $d_0$ : Nominal diameter of drill bit
- $d_f$ : Fixture clearance hole diameter
- $h_{ef}$ : Effective anchorage depth
- $h_1$ : Depth of drilled hole
- $h_{nom}$ : Overall fastener embedment depth in the concrete
- $h_{min}$ : Minimum thickness of concrete member
- $t_{fix}$ : Fixture thickness

General Installation parameters									Standard Installation depth ( $h_{ef, std}$ )								Reduced Installation depth ( $h_{ef, red}$ )									
Thunderbolt® PRO	Size	Assessed	Drill bit diameter	Fixture clearance hole	Drive type	Impact tool torque	Minimum allowable spacing	Minimum allowable edge distance	Minimum concrete thickness	Depth of drill hole	Installation depth	Effective anchorage depth	Thickness of fixture	Critical spacing (concrete cone)	Critical edge distance (cone)	Critical spacing (splitting)	Critical edge distance (splitting)	Minimum concrete thickness	Depth of drill hole	Installation depth	Effective anchorage depth	Thickness of fixture	Critical spacing (concrete cone)	Critical edge distance (cone)	Critical spacing (splitting)	Critical edge distance (splitting)
Part No	[-]	ETA	$d_0$ (mm)	$d_f$ (mm)	Torx [-]	$T_{max}$ [Nm]	$S_{min}$ (mm)	$C_{min}$ (mm)	$h_{min}$ (mm)	$h_1$ (mm)	$h_{nom}$ (mm)	$h_{ef}$ (mm)	$t_{fix}$ (mm)	$S_{cr,N}$ (mm)	$C_{cr,N}$ (mm)	$S_{cr,sp}$ (mm)	$C_{cr,sp}$ (mm)	$h_{min}$ (mm)	$h_1$ (mm)	$h_{nom}$ (mm)	$h_{ef}$ (mm)	$t_{fix}$ (mm)	$S_{cr,N}$ (mm)	$C_{cr,N}$ (mm)	$S_{cr,sp}$ (mm)	$C_{cr,sp}$ (mm)
SXTBP08060/G	Ø8 x 60	✓							-	-	-	-	-	-	-	-	-					10				
SXTBP08080/G	Ø8 x 80	✓	8	12	T45	250	35	35	100	75	65	50.5	15	152	76	200	100	100	60	50	37.5	30	113	57	130	65
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 Truss Head  
Zinc Yellow and Galvanised



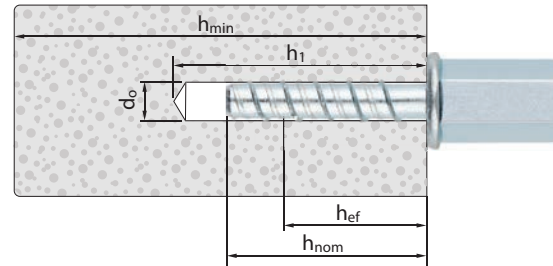
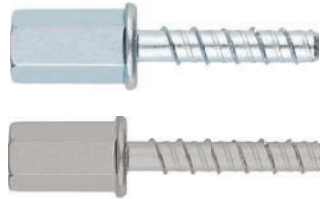
- $d_0$ : Nominal diameter of drill bit
- $d_f$ : Fixture clearance hole diameter
- $h_{ef}$ : Effective anchorage depth
- $h_1$ : Depth of drilled hole
- $h_{nom}$ : Overall fastener embedment depth in the concrete
- $h_{min}$ : Minimum thickness of concrete member
- $t_{fix}$ : Fixture thickness

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

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

### INSTALLATION DATA

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



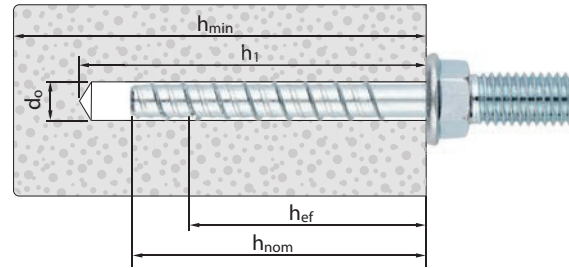
- $d_0$ : Nominal diameter of drill bit
- $h_{ef}$ : Effective anchorage depth
- $h_1$ : Depth of drilled hole
- $h_{nom}$ : Overall fastener embedment depth in the concrete
- $h_{min}$ : Minimum thickness of concrete member

General Installation parameters								Standard Installation depth ( $h_{ef, std}$ )							
Thunderbolt® PRO	Size	Assessed	Drill bit diameter	Spanner	Impact tool torque	Minimum allowable spacing	Minimum allowable edge distance	Minimum concrete thickness	Depth of drill hole	Installation depth	Effective anchorage depth	Critical spacing (concrete cone)	Critical edge distance (cone)	Critical spacing (splitting)	Critical edge distance (splitting)
Part No	[-]	ETA	$d_0$ (mm)	SW/Tx [-]	$T_{max}$ [Nm]	$S_{min}$ (mm)	$C_{min}$ (mm)	$h_{min}$ (mm)	$h_1$ (mm)	$h_{nom}$ (mm)	$h_{ef}$ (mm)	$S_{cr,N}$ (mm)	$C_{cr,N}$ (mm)	$S_{cr,sp}$ (mm)	$C_{cr,sp}$ (mm)
SXTB-IM06035	Ø6 x 35 (M8-M10)	✓	6	SW13	250	35	35	100	45	35	26.0	78	39	90	45
SXTB-IM06040/G-M10	Ø6 x 40 (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					100	60	50	37.5	113	57	130	65

Note: Add "G" to the part no for Nautilus® C option. e.g. **SXTB-IM06040G-M10**.

### INSTALLATION DATA

For Thunderbolt® PRO Rod 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	Size	Assessed	Drill bit diameter	Spanner	Impact tool torque	Minimum allowable spacing	Minimum allowable edge distance	Minimum concrete thickness	Depth of drill hole	Installation depth	Effective anchorage depth	Critical spacing (concrete cone)	Critical edge distance (cone)	Critical spacing (splitting)	Critical edge distance (splitting)
Part No	[-]	ETA	$d_0$ (mm)	SW/Tx [-]	$T_{max}$ [Nm]	$s_{min}$ (mm)	$c_{min}$ (mm)	$h_{min}$ (mm)	$h_1$ (mm)	$h_{nom}$ (mm)	$h_{ef}$ (mm)	$s_{cr,N}$ (mm)	$c_{cr,N}$ (mm)	$s_{cr,sp}$ (mm)	$c_{cr,sp}$ (mm)
<b>SXTB-B06040-M10</b>	Ø6 x40 (M10)	✓	6	SW13	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

## Thunderbolt®PRO

### Design Resistance Capacities - 20 MPa

Diameter	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	2.78	2.54	8.35	6.24
	40	30.0	4.49	3.14	7.76	5.43
	55	43.0	9.25	6.47	8.35	7.44
8	50	37.5	6.28	4.39	13.05	9.49
	65	50.5	11.77	8.24	13.05	10.46
10	55	41.5	8.77	6.14	17.10	11.97
	75	58.5	14.67	10.27	18.27	13.56
	85	67.0	17.99	12.59	18.27	18.27
12	75	58.0	14.49	10.14	24.83	23.63
	105	83.5	25.02	17.52	24.83	24.83
14	75	58.0	14.49	10.14	35.15	25.86
	115	92.0	28.94	20.26	35.15	35.15
18	90	69.5	19.00	13.30	50.54	35.38
	140	112.0	38.87	27.21	53.85	53.85

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](http://www.iccons.com.au)

## Thunderbolt®PRO Performance for use in redundant non-structural systems

### Design Resistance Capacities - 20 MPa

Diameter	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	4.47	3.13	4.47	3.13
	45	35.0	6.79	4.75	5.46	4.75
6	35	26.0	3.62	2.54	4.35	3.04
	55	43.0	9.25	6.47	8.35	6.47

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.



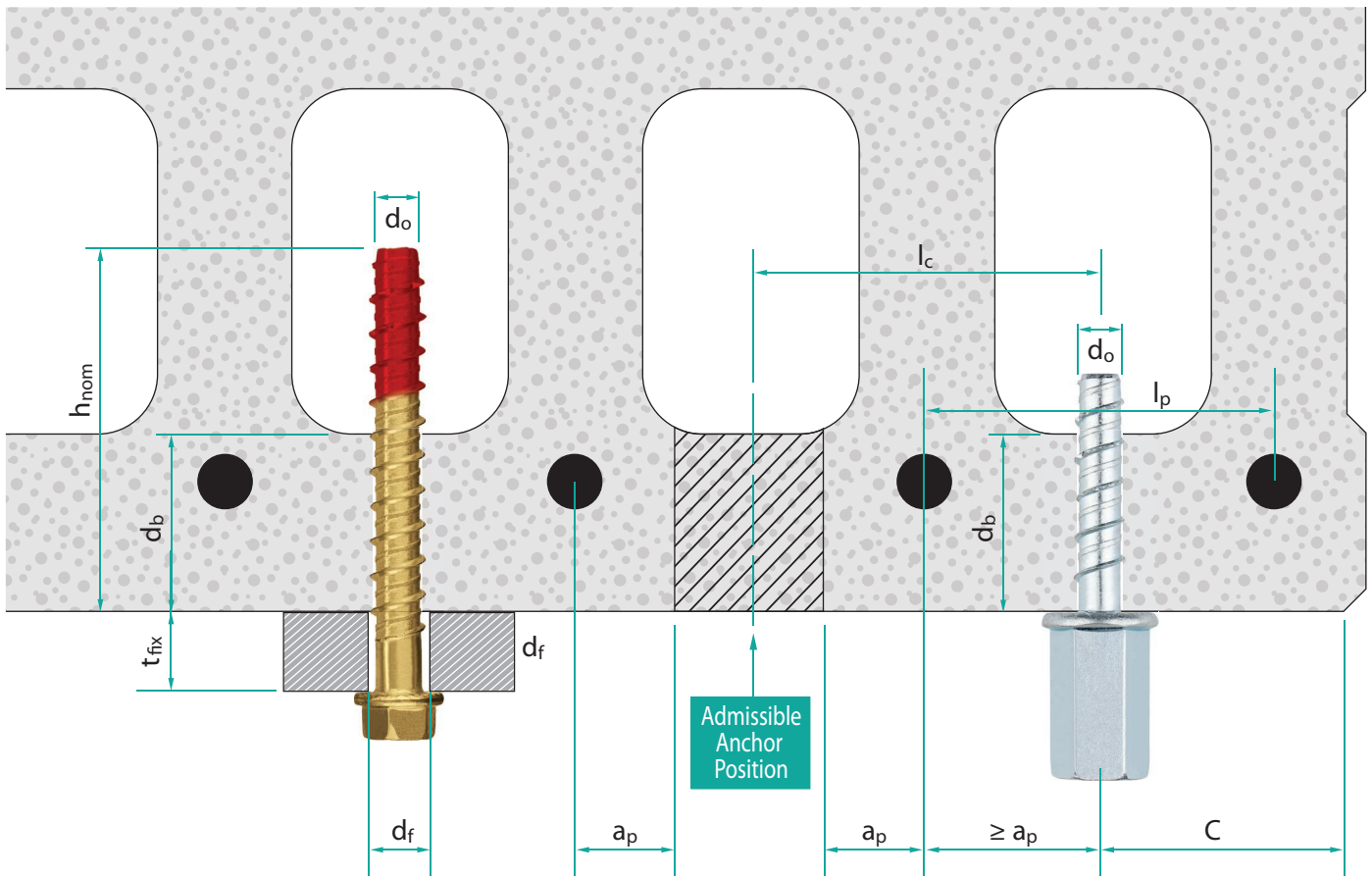


## Thunderbolt® PRO Performance for use in redundant non-structural systems - prestressed hollow core slabs (C30/37 to C50/60)

### Design Resistance Capacities

Diameter $d_o$	Min. Bottom Flange Thickness $d_b$ (mm)	Effective Depth $h_{ef}$ (mm)	Tension $N_{Rd}$ (kN)	Shear $V_{Rd}$ (kN)
5	25	20.0	2.44	2.44
	30	22.0	2.82	2.82
	40	26.5	3.73	3.73
6	25	20.0	2.44	2.44
	30	22.0	2.82	2.82
	40	26.0	3.62	3.62

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.



- $d_o$ : 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  $\geq 50$  mm

- $l_c$ : Core spacing distance  $\geq 100$  mm
- $l_p$ : Steel reinforcement spacing distance  $\geq 100$  mm
- $t_{fix}$ : Fixture thickness
- C: Edge distance



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

### Thunderbolt®PRO Seismic C1

Design Resistance Capacities (Uncracked & cracked concrete)- 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 C2

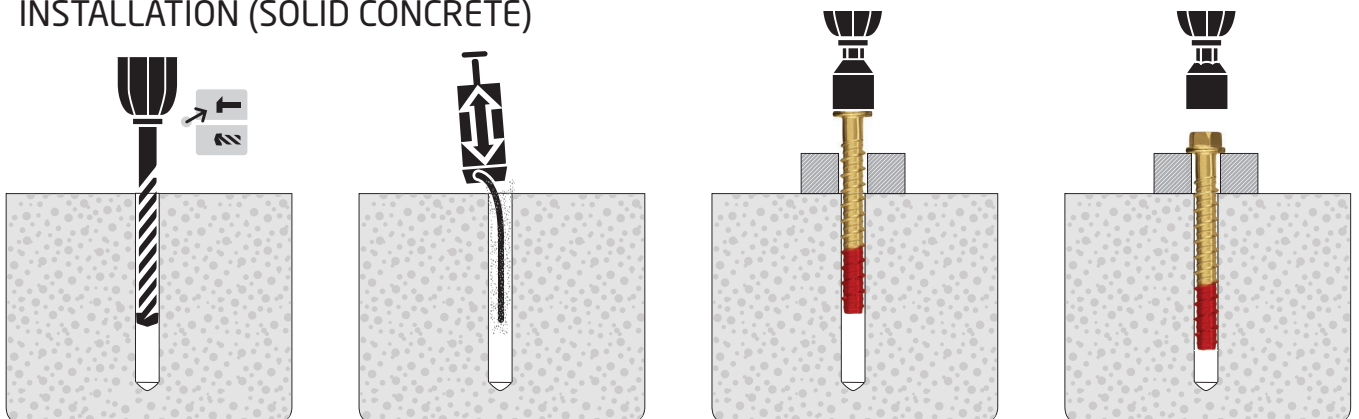
Design Resistance Capacities (Uncracked & cracked concrete)- 20 MPa ( $a_{gap} = 1.0$ )

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](http://www.iccons.com.au).

## INSTALLATION (SOLID CONCRETE)



1. **Drilling** - Check the concrete is well compacted and without significant porosity. Suitable for dry, wet and flooded holes. Use drill in hammer mode. Drill according to specified depths in previous tables.

2. **Blow and clean** - Clean the hole from dust and concrete remains. Use blow pump and brush.

3. **Install** - Select a powered impact wrench or a torque wrench that does not exceed the maximum torque indicated in previous tables. Attach an appropriate size hex socket to the wrench. Mount the Screw-Bolt anchor head in the socket.

4. **Apply torque** - Drive the anchor with an impact driver or a torque wrench through the fixture and into the hole until the anchor head washer comes in contact with the fixture. The anchor must be snug after installation. Do not spin the hex socket off the anchor to disengage.

# ICCONS®

AS 5216:2021  
Serious Connections®

# DESIGN PRO

ADVANCED ANCHOR DESIGN SOFTWARE



# Download DesignPRO

**AS5216:2021 COMPLIANT NCC ANCHOR DESIGN**

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# Thunderbolt® PRO

SCREW-BOLT ANCHOR



**ICCONS®**  
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TDS | 1032.7

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