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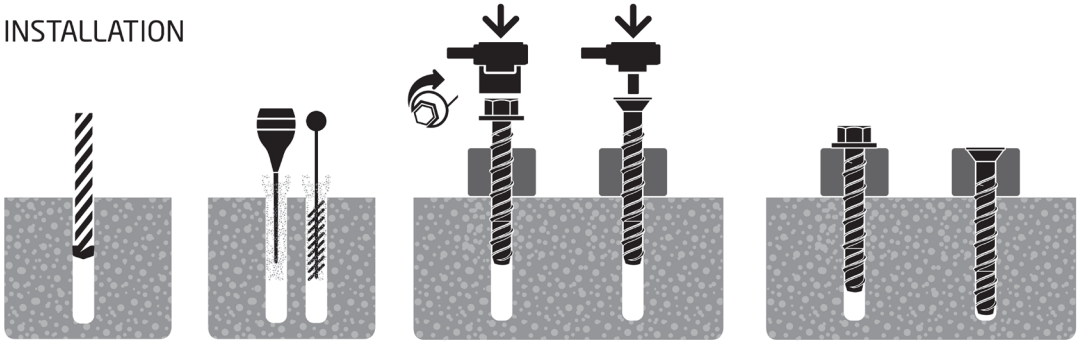
ICCONS Black-Tip Thunderbolt & ICCONS Thunderbolt PRO

Clamping Torque for self-tapping concrete and masonry anchors

Self-tapping concrete and masonry anchors like the ICCONS Black-Tip Thunderbolt & ICCONS Thunderbolt PRO cut a thread in the base material drilled hole during installation and ***do not*** require an ***installation torque setting*** to ensure proper installation (refer to instructions below). A **clamping torque** is recommended for the ICCONS Black-Tip Thunderbolt & Thunderbolt PRO to ensure that the fixture being fastened is tight against the base material surface. Exceeding the values below may damage the fixture and over stress the anchor in the drilled hole.

If using an impact screw driver to install the ICCONS Black-tip Thunderbolt & Thunderbolt PRO always take care to ensure you do not overstress the anchor and fixture. Always use an impact screw driver that has a Max. Torque Guide which corresponds to the anchor size in the table below.

INSTALLATION



With the correct diameter drill bit, drill a hole to the depth of at least one diameter of the anchor deeper than the required embedment.

Clean dust and other material from the hole.

Install with either a socket or cordless impact driver. Apply pressure against the fixing and rotate to engage the first thread. Continue to tighten the anchor until flanged head is firmly seated against fixture.

Installation complete!

Maximum Clamping Torque Guide Values (Nm)

Base Material	Black-Tip Thunderbolt & Thunderbolt PRO Size					
	5	6	8	10	12	16
Concrete	5-15	15-25	30-40	50-60	70-80	80-100
Masonry	5	10	20	25	45	80

Note: Base materials may vary greatly on site and the above values should be used as a guide only. Site tests may be required to verify specific clamping torque values.

Impact Screw Driver – Max. Torque Guide (Nm)

Impact Screw Driver	Black-Tip Thunderbolt & Thunderbolt PRO Size					
	5	6	8	10	12	16
Max. Torque Capacity (Nm)	160	160	300	400	650	650

Note: Max. Torque Capacity relates to the capacity of the Impact Screw Driver NOT the Max. Clamping Torque applied to the anchor. Excessive torque during installation may damage the anchor. Training, expertise and good judgement is required.