

Hilti S-BT HL Screw-in

Studs Submission Folder

Product Information	
S-BT HLScrew-in Stud	2
Letters	
Country of Origin	16

Recycling one ton of paper saves 17 trees and 7000 gallons of water. Please consider your environmental responsibility before using the hard copy version!

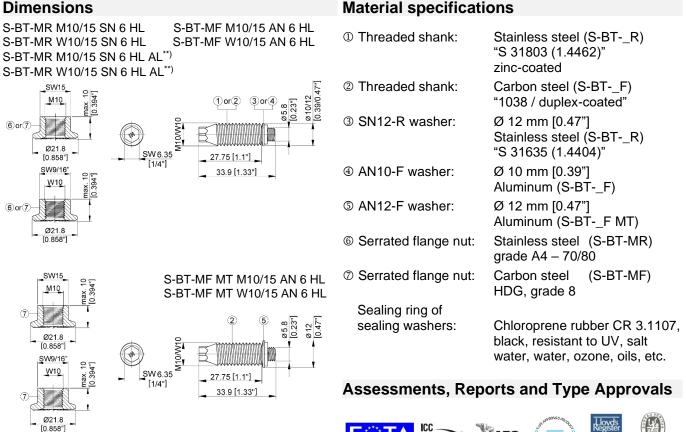




S-BT HL screw-in stainless steel and carbon steel threaded studs

Product data

Dimensions

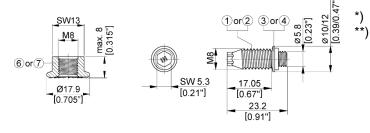


ABS

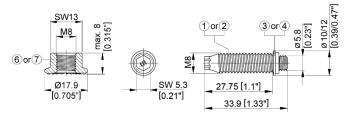
package does not include serrated flange nuts

for use in aluminum base material

S-BT-MF M8/7 AN 6 HL S-BT-MR M8/7 SN 6 HL S-BT-MR M8/7 SN 6 HL AL**) S-BT-GF M8/7 AN 6 HL*) S-BT-GR M8/7 SN 6 HL*) S-BT-GR M8/7 SN 6 HL AL*) **)



S-BT-MR M8/15 SN 6 HL S-BT-MF M8/15 AN 6 HL S-BT-MR M8/15 SN 6 HL AL**)



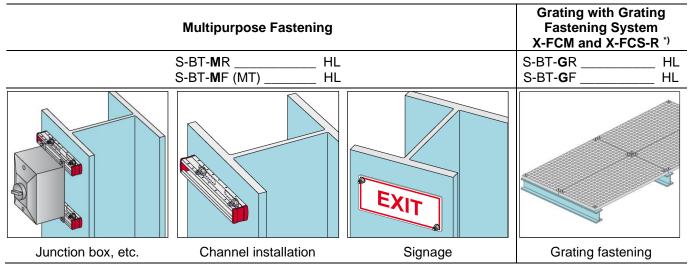
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Applications

Examples



⁹ Load data, application requirements, corrosion information, fastener selection, system recommendation, material specification and coating refer to the Hilti Product Data Sheets (PDS) of X-FCM Grating Fastening System, or X-FCS-R Grating Fastening System.

Load data

Recommended loads

	S-BT-MR HL and S-BT-GR HL made of stainless steel				
Base material thickness ¹⁾		t _{II} ≥ 5 mm [0.20"]		3 mm [0.12"] ≤	t _{ll} < 5 mm [0.20"]
Base material type	Steel S235 S280GD A36	Steel S355 to S500 S390GD to S550GD Grade 50	Aluminum f _u ≥ 270 MPa	Steel S235 S280GD A36	Steel S355 to S500 S390GD to S550GD Grade 50
Tension, N_{rec} [kN/lb]	3.6 / 810	4.3 / 970	2.1 / 470	2.3 / 520	2.8 / 625
Shear, V_{rec} [kN/lb] For edge distance $c \ge 6 mm [0.24"]$	4.1 / 920		3.0 / 675	4.0	/ 895
Moment, Mrec [Nm/lbft]	11.1 / 8.0				

	S-BT-MF HL and S-BT-GF HL made of duplex coated carbon steel				
Base material thickness ¹⁾		t _{ll} ≥ 5 mm [0.20"]			t _{ll} < 5 mm [0.20"]
Base material type	Steel S235 S280GD A36	Steel S355 to S500 S390GD to S550GD Grade 50	Aluminum f _u ≥ 270 MPa	Steel S235 S280GD A36	Steel S355 to S500 S390GD to S550GD Grade 50
Tension, N _{rec} [kN/lb]	4.0 / 900	4.8 / 1080	n.a.	2.3 / 520	2.8 / 625
Shear, V _{rec} [kN/lb] For edge distance c ≥ 6 mm [0.24"]	2.8 / 625		n.a.	2.8	/ 625
Moment, M rec [Nm/lbft]	6.7	/ 5.0	n.a.	6.7	/ 5.0

¹⁾ For base material thickness 3 mm $[0.12^n] \le t_{II} \le 6$ mm $[0.24^n]$ rework of the coating on the back side of the plate / profile may be needed.





	S-BT-MF MT M10/15 (W10/15) AN 6 HL made of duplex coated carbon steel				
Base material thickness ¹⁾		t _{II} ≥ 5 mm [0.20"]		3 mm [0.12"] ≤	t⊫ < 5 mm [0.20"]
Base material type	Steel S235 S280GD A36	Steel S355 to S500 S390GD to S550GD Grade 50	Aluminum f _u ≥ 270 MPa	Steel S235 S280GD A36	Steel S355 to S500 S390GD to S550GD Grade 50
Tension, N _{rec} [kN/lb]	4.0 / 900	4.8 / 1080	n.a.	2.3 / 520	2.8 / 625
Shear, V_{rec} [kN/lb] For edge distance $c \ge 6 mm [0.24"]$	4.0 / 900		n.a.	4.0	/ 900
Moment, M_{rec} [Nm/lbft]	6.7	/ 5.0	n.a.	6.7	/ 5.0

¹⁾ For base material thickness 3 mm $[0.12"] \le t_{ii} < 6$ mm [0.24"] rework of the coating on the back side of the plate / profile may be needed.

Design loads

	S-BT-MR HL and S-BT-GR HL made of stainless steel				
Base material thickness ¹⁾		t _{II} ≥ 5 mm [0.20"]		3 mm [0.12"] ≤	t _∥ < 5 mm [0.20"]
Base material type	Steel \$235 \$280GD A36	Steel S355 to S500 S390GD to S550GD Grade 50	Aluminum f _u ≥ 270 MPa	Steel S235 S280GD A36	Steel S355 to S500 S390GD to S550GD Grade 50
Tension, N_{Rd} [kN/lb]	5.1 / 1145	6.1 / 1370	3.0 / 670	3.3 / 740	3.9 / 875
Shear, V _{Rd} [kN/lb] For edge distance c ≥ 6 mm [0.24"]	5.7 /	1280	4.2 / 940	5.6 /	1255
Moment, M _{Rd} [Nm/lbft]	15.6 / 12.0				

	S-BT-MF HL and S-BT-GF HL made of duplex coated carbon steel				
Base material thickness ¹⁾		t _{ll} ≥ 5 mm [0.20"]			t _{ll} < 5 mm [0.20"]
Base material type	Steel S235 S280GD A36	Steel S355 to S500 S390GD to S550GD Grade 50	Aluminum f _u ≥ 270 MPa	Steel S235 S280GD A36	Steel S355 to S500 S390GD to S550GD Grade 50
Tension, N_{Rd} [kN/lb]	5.7 / 1280	6.8 / 1525	n.a.	3.3 / 740	3.9 / 875
Shear, V_{Rd} [kN/lb] For edge distance $c \ge 6 mm [0.24"]$	3.9 / 875		n.a.	3.9	/ 875
Moment, M _{Rd} [Nm/lbft]	9.4	/ 7.0	n.a.	9.4	/ 7.0

	S-BT-MF MT M10/15 (W10/15) AN 6 HL made of duplex coated carbon steel				
Base material thickness ¹⁾		t _{II} ≥ 5 mm [0.20"]		3 mm [0.12"] ≤ 1	t _{ll} < 5 mm [0.20"]
Base material type	Steel S235 S280GD A36	Steel S355 to S500 S390GD to S550GD Grade 50	Aluminum f _u ≥ 270 MPa	Steel \$235 \$280GD A36	Steel S355 to S500 S390GD to S550GD Grade 50
Tension, N_{Rd} [kN/lb]	5.7 / 1280	6.8 / 1525	n.a.	3.3 / 740	3.9 / 875
Shear, V _{Rd} [kN/lb] For edge distance c ≥ 6 mm [0.24"]	5.6 / 1255		n.a.	5.6 /	1255
Moment, M_{Rd} [Nm/lbft]	9.4	/ 7.0	n.a.	9.4	/ 7.0

¹⁾ For base material thickness 3 mm $[0.12"] \le t_{II} < 6$ mm [0.24"] rework of the coating on the back side of the plate / profile may be needed.



Conditions for recommended loads and design loads:

- Use S-BT-MR HL and S-BT-MF (MT) HL (multipurpose fastening) only with the supplied Hilti serrated flange nuts M8, M10, W10 ([®] or [®] as per according to General Information Material specifications)
- Minimum edge distance = 6 mm [0.24"], minimum spacing ≥ 18 mm [0.709"]
- Effect of base metal vibration and stress (e.g. areas with tensile stress) considered.
- Redundancy (multiple fastening) must be provided.
- If eccentric loading exists (e.g. use of an angle clip), moments caused by off-center loading must be considered.

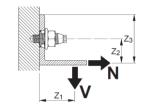
Cyclic loading

S-BT threaded studs are only to be used for fastenings subject to static or quasi-static loading. Inquire at Hilti for test data if cyclic loading has to be considered in the design.

Recommended interaction formula for combined loading

V–N (shear and tension)	$rac{V}{V_{rec}} + rac{N}{N_{rec}} \le 1.0$ with $rac{V}{V_{rec}} \le 1.0$ and $rac{N}{N_{rec}} \le 1.0$
V–M (shear and bending)	$rac{V}{V_{rec}} + rac{M}{M_{rec}} \le 1.0 ext{ with } rac{V}{V_{rec}} \le 1.0 ext{ and } rac{M}{M_{rec}} \le 1.0$
N–M (tension and bending)	$\frac{N}{N_{rec}} + \frac{M}{M_{rec}} \le 1.0$
V-N-M (shear, tension and bending)	$\frac{\textbf{V}}{\textbf{V}_{\text{rec}}} + \frac{\textbf{N}}{\textbf{N}_{\text{rec}}} + \frac{\textbf{M}}{\textbf{M}_{\text{rec}}} \leq 1.0$



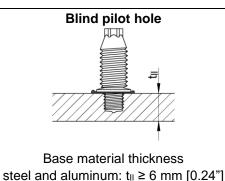


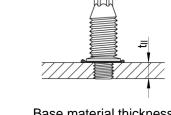




Application Requirements

Base material thickness t_{II} and type of bore hole

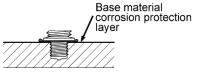




Drill through pilot hole

 $\begin{array}{l} \text{Base material thickness} \\ \text{steel: } 3 \text{ mm} \left[0.12" \right] \leq t_{II} < 6 \text{ mm} \left[0.24" \right] \\ \text{aluminum: } 5 \text{ mm} \left[0.20" \right] \leq t_{II} < 6 \text{ mm} \left[0.24" \right] \end{array}$

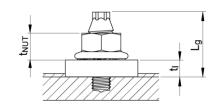
Thickness of base material corrosion protection layer ≤ 0.8 mm [0.031"]. When installing S-BT HL studs with Hilti SBT 6-22 cordless drill driver, the thickness of the base material corrosion protection layer is ≤ 1.0 mm [0.039"].



Thickness of fastened material t

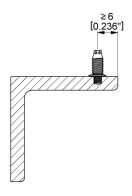
S-BT	/7
S-BT	/15

1.6 mm $[0.063"] \le t_i \le 7.0$ mm [0.28"]1.6 mm $[0.063"] \le t_i \le 15.0$ mm [0.59"]

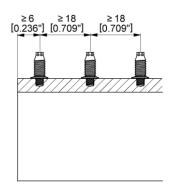


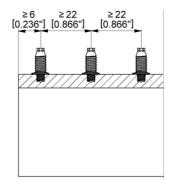
Spacing and edge distance

Edge distance: ≥ 6 mm [0.24"]



Spacing: ≥ 18 mm [0.709"] for all S-BT M8 HL ≥ 22 mm [0.866"] for all S-BT M10 HL and S-BT W10 HL









Corrosion information

The S-BT HL stainless steel fasteners are made from the duplex stainless steel type 1.4462, which is equivalent to AISI 316L (A4) and 318LN steel grade. This grade of stainless steel is classified in the corrosion resistance class IV according to DIN EN 1993-1-4:2015, which makes the material suitable for aggressive environments like in coastal and offshore applications.

The microstructures of duplex stainless steels consist of a mixture of austenite and ferrite phases. Compared to the austenitic stainless steel grades, duplex stainless steels are magnetic. The surface of the S-BT stainless steel fasteners is zinc-coated (anti-friction coating) in order to reduce the thread forming torque when the stud is screwed in into the base material.

The coating of the carbon steel S-BT HL fasteners consists of an electroplated Zn-alloy for cathodic protection and a top coat for chemical resistance (Duplex-coating). The use of this coating is limited to the corrosion category C1, C2 and C3 according the standard EN ISO 9223. For higher corrosion categories stainless steel fasteners should be used.

In case of a drill through hole or a pilot hole in thin base material, rework of the coating on the back side of the plate / profile may be needed.

Note: ETA allows the use of carbon steel threaded studs with duplex coating only in dry indoor environment (C1 acc. to EN ISO 9223).

	S-BT-MF HL, S-BT-MF MT HL, S-BT-GF HL		S-BT-MR HL,	S-BT-GR HL	
Corrosivity category C	C3 medium co	C3 medium corrosive C		C5 very high corrosive	
Drill hole type and base material thickness t _{ll} 1)	Topside protection	Backside Protection	Topside protection	Backside Protection	
Drill through pilot hole 3 mm [0.12"] $\leq t_{II} < 6 mm [0.24"]$	\checkmark	x ²⁾	\checkmark	x ²⁾	
Blind pilot hole t _{ll} ≥ 6 mm [0.24"]	\checkmark	\checkmark	~	\checkmark	

¹⁾ Real base material thickness, not nominal material thickness or material thickness with coating.

²⁾ Damage of the coating on the back side of the plate / profile require a rework of the coating.





Application limit

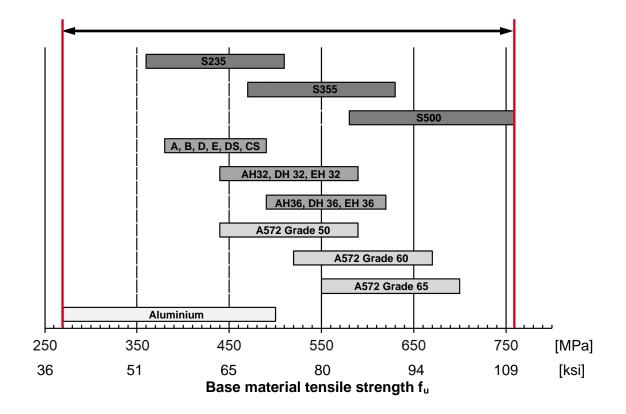
The base material is limited to steel grade with a maximum tensile strength $f_u = 760$ MPa [110 ksi].

The minimum tensile strength of steel is $f_u \ge 360$ MPa [52 ksi].

The minimum tensile strength of aluminum is $f_u \ge 270$ MPa [39 ksi].

Minimum thickness of base material t_{II} : refer to section "Application Requirements"

Maximum thickness of base material t_{II}: no limits







Fastener selection and system recommendation

	Fastener	Drilling tool	Drill bit	Setting tool
	S-BT-GR M8/7 SN 6 HL	TS-BT 5.5-74 AL		SBT 4-A22 or SF 6-(A)22 +
	S-BT-GR M8/7 SN 6 HL AL		S-DG BT M8/7 Short 6	
	S-BT-MR M8/7 SN 6 HL			or SBT 6-22 + S-SH BT M8
	S-BT-MR M8/15 SN 6 HL		TS-BT 5.3-65 S	SBT 4-A22 or SF 6-(A)22 + S-DG BT M8/15 Long 6 or SBT 6-22 + S-SH BT M8
	S-BT-MR M10/15 SN 6 HL	SBT 4-A22 or SBT 6-22 w/ drill		SBT 4-A22 or SF 6-(A)22 +
s Steel	S-BT-MR W10/15 SN 6 HL			S-DG BT M10-W10/15 Long 6 or SBT 6-22 + S-SH BT M10/W10
Stainless	S-BT-MR M8/7 SN 6 HL AL			SBT 4-A22 or SF 6-(A)22 + S-DG BT M8/7 Short 6 or SBT 6-22 + S-SH BT M8
	S-BT-MR M8/15 SN 6 HL AL			SBT 4-A22 or SF 6-(A)22 + S-DG BT M8/15 Long 6 or SBT 6-22 + S-SH BT M8
	S-BT-MR M10/15 SN 6 HL AL	assist or		SBT 4-A22 or SF 6-(A)22 +
	S-BT-MR W10/15 SN 6 HL AL	SF 6-(A)22		S-DG BT M10-W10/15 Long 6 or SBT 6-22 + S-SH BT M10/W10
	S-BT-GF M8/7 AN 6 HL		TS-BT 5.3-95 S	SBT 4-A22 or SF 6-(A)22 +
_	S-BT-MF M8/7 AN 6 HL			S-DG BT M8/7 Short 6 or SBT 6-22 + S-SH BT M8
Carbo	S-BT-MF M8/15 AN 6 HL		TS-BT 5.3-65 S	SBT 4-A22 or SF 6-(A)22 + S-DG BT M8/15 Long 6 or SBT 6-22 + S-SH BT M8
	S-BT-MF M10/15 AN 6 HL S-BT-MF W10/15 AN 6 HL S-BT-MF MT M10/15 AN 6 HL S-BT-MF MT W10/15 AN 6 HL			SBT 4-A22 or SF 6-(A)22 + S-DG BT M10-W10/15 Long 6 or SBT 6-22 + S-SH BT M10/W10



Installation

S-BT fasteners made of stainless steel with washer-Ø 12mm (S-BT-_R HL) and S-BT fasteners made of carbon steel with washer-Ø 12mm (S-BT-MF MT HL) Fastened material hole \emptyset : 13 mm [0.51"] $\leq \emptyset \leq$ 18 mm [0.71"]

S-BT fasteners made of carbon steel with washer-Ø 10mm (S-BT-_F HL)

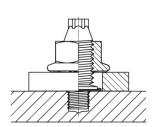
Fastened material hole \emptyset : 11 mm [0.43"] $\leq \emptyset \leq$ 14 mm [0.55"]

Important: for group fastenings subjected to shear loading the fastened material hole diameter should not exceed 14 mm [0.55"] (S-BT-_R HL and S-BT-MF MT HL) and 12 mm [0.47"] (S-BT-_F HL) respectively.

Installation with calibrated depth gauge S-DG BT.

Pre-drill with TS-BT Mark location for each Screw-in S-BT studs Fasten component or grating on base material stepped drill bit into drilled hole fastening 1 4 CLICK 2 3 A Usage of drill driver Usage of drill driver Position component or grating on S-BT studs and SBT 4-A22 or SBT 4-A22 or hold in place. Tighten the nuts or grating fastener SF 6-(A)22. Pre-drill SF 6-(A)22 in with the suited tightening torque T. until the shoulder grinds combination with the Tighten the nuts using: a shiny ring to assure calibrated depth gauge Torque wrench and wrench socket, or proper drilling depth. S-DG BT. Torque tool S-BT 1/4" - 8 Nm or Verify stud standoff h_{NVS} S-BT 1/4" - 16 Nm, or with S-CG BT or Drill driver SBT 4-A22 or SF 6-(A)22 and suitable S-CC BT 6. wrench socket S-NS hnvs Before fastener Hilti drill driver: 8 Nm 16 Nm installation: Torque setting: The drilled hole and the SBT 4-A22 7 n.a. area around the drilled SF 6-(A)22 3 4 hole must be clear of Sealing washer must be liquids and debris. properly compressed.

Important: These are abbreviated instructions which may vary by application. ALWAYS review / follow the instructions for use (IFU) accompanying the product. In case of a drill through hole, rework of the coating on the back side of the plate / profile may be needed.









Installation with Hilti SBT 6-22 cordless drill driver.

Mark location for each	Pre-drill with TS-BT	Screw-in S-BT studs	Fasten component or grating on base material
fastening	stepped drill bit	into drilled hole	
		3 CLICK	
	Usage of drill driver Hilti SBT 6-22. Using "Drill assist" mode. Set the gear selector switch to 2 and BT clutch setting. Speed of the tool reduces automatically when the hole is drilled to the correct depth. A shiny ring should be visible around the borehole after the drilling process. Before fastener installation: The drilled hole and the area around the drilled hole must be clear of liquids and debris.	Usage of drill driver Hilti SBT 6-22 in combination with the stud holder S-SH BT. Using "Fasten S-BT stud" mode. Set the gear selector switch to 1 and BT clutch setting. Insert the S-BT stud into the stud holder. The torque limiter trips when the stud reaches the correct depth. Verify stud standoff h _{NVS} with S-IC BT.	Position component or grating on S-BT studs and hold in place. Tighten the nuts or grating fastener with the suited tightening torque T. Tighten the nuts using: • Torque wrench and wrench socket, or • Torque tool S-BT 1/4" - 8 Nm or S-BT 1/4" - 16 Nm, or • Drill driver SBT 6-22 and suitable wrench socket S-NS Hilti drill driver: 8 Nm 16 Nm Clutch setting: SBT 6-22 3 4

Important: These are abbreviated instructions which may vary by application. ALWAYS review / follow the instructions for use (IFU) accompanying the product. In case of a drill through hole, rework of the coating on the back side of the plate / profile may be needed.



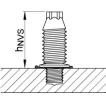


Fastening inspection in case of installation with calibrated depth gauge S-DG BT

The installer is responsible for the correct setting of the S-BT studs. For the periodical verification of the correct stud standoff the S-CG BT check gauge or S-CC BT 6 calibration card can be used.

Verify stud standoff h_{NVS} with S-CG BT or S-CC BT 6.

S-BT-____7___6 h_{NVS} = 18.6 mm to 19.1 mm [0.732" to 0.752"] **S-BT-_____15____6** h_{NVS} = 29.3 mm to 29.8 mm [1.153" to 1.173"]



S-CC BT



Design and functionality of the check gauge S-CG BT

Designation	Product name	Comment
S-DG BT M8/7 Short 6	Depth gauge	for exact setting of S-BT M8/7 HL
S-DG BT M8/15 Long 6	Depth gauge	for exact setting of S-BT M8/15 HL
S-DG BT M10-W10/15 Long 6	Depth gauge	for exact setting of S-BT M10/W10 HL
S-CC BT 6	Calibration card	for calibration of the depth gauge (short/long studs) for verification of the stand-off (short/long studs)
S-CG BT /7 Short 6	Check gauge	for verification of the stand-off for short studs (7 mm)
S-CG BT /15 Long 6	Check gauge	for verification of the stand-off for long studs (15 mm)

Fastener quality assurance in case of installation with calibrated depth gauge S-DG BT

In order to ensure the exact screw-in depth and a proper compressed sealing washer, the S-BT HL studs have to be installed with the appropriate depth gauge. With this tool the screw-in depth can be adjusted in a range of 0 - 1.5 mm (3 steps, 0.5mm per step).

The S-CC BT calibration card is needed to check the initial stand-off of the S-BT HL stud and to adjust/calibrate the S-DG BT depth gauge. After finding the right adjustment level for the S-DG BT depth gauge, the gauge can be adjusted and the studs can be installed without additional check of the S-DG BT depth gauge.

The correct stud stand-off has to be checked and, if necessary, the depth gauge has to be re-adjusted (calibrated) at following times:

- Start of the installation process
- Change of the working position (upwards, downwards, horizontal) and base material (thickness, strength, type)
 Installer change
- After each packaging respectively after the installation of 100 S-BT studs

The lifetime of the S-DG BT depth gauge is \geq 1000 settings.





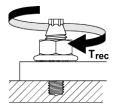


Fastener quality assurance in case of installation with SBT 6-22 and S-SH BT

In order to ensure the exact screw-in depth and a proper compressed sealing washer, the S-BT HL studs have to be installed with the SBT 6-22 tool. With this tool the screw-in depth of the S-BT HL studs is controlled.

The S-IC BT inspection card can be used to check the stand-off in cases where the washer compression of the S-BT HL is assessed as incorrect (over or under compressed). Based on the coating thickness specified, the user can see if the inspection card shows green in this region. Green indicates the stud is set within the correct embedment depth range. Orange indicates that the stud is underset. To achieve the correct embedment depth, the user can place the tool over the stud and retrigger in BT mode. This will incrementally add ¼ rotations. After each trigger the user shall check with the inspection card and stop when the inspection card shows green. If the card shows red, this indicates that the stud is overset and should not be used.

Tightening torque serrated flange nut



Tightening torque for fastening to steel base material $t_{\parallel} \ge 5 \text{ mm} [0.20"]$

	Fastener: S-BT-MF (MT) HL, S-BT-MR HL
Element: nut	16 Nm

Tightening tool recommendation for tightening with cordless drill driver

Cordless drill driver	Clutch type (stop detection)	Gear	Clutch
Hilti SF 6-(A)22	ESC (HJ)	1	4
Hilti SBT 6-22	ESC (HJ)	1	4

Tightening tool recommendation for fastening with torque tool

Hilti torque tool		
Torque tool S-BT 1/4" – 16 Nm		



Tightening torque for fastening to aluminium base material $t_{\parallel} \ge 5 \text{ mm} [0.20"]$ and to steel base material 3 mm $[0.12"] \le t_{\parallel} < 5 \text{ mm} [0.20"]$ (drill through hole)

	Fastener: S-BT-MF (MT) HL, S-BT MR HL, S-BT MR AL
Element: nut	8 Nm

Tightening tool recommendation for tightening with cordless drill driver

Cordless drill driver	Clutch type (stop detection)	Gear	Clutch
Hilti SBT 4-A22	TRC	1	7
Hilti SF 6-(A)22	ESC (HJ)	1	3
Hilti SBT 6-22	ESC (HJ)	1	3

Tightening tool recommendation for fastening with torque tool

Hilti torque tool	
Torque tool X-BT 1/4" – 8 Nm	



• Tool power level adjustment: Gear:



Clutch:

- The setting of the torque via the Hilti screwdriver with torque release coupling (TRC) can change as the clutch wears over time. The specified torque setting is only a rough guide value and applies to a new Hilti screwdriver. To ensure recommended torque is applied, Hilti recommends the use of a calibrated torque wrench or the Hilti torque tool
- The specified torque setting for the Hilti screw drivers with electronic slip clutch (ESC) is only a rough guide value as the ESC has 2 stop detections; Soft Joint (SJ) detection and Hard Joint (HJ) detection. The hard joint detection is activated due to drop in speed (fast stop) and can lead to a torque spike. The installation torque may vary depending on the user and the application. To ensure recommended torque is applied, Hilti recommends the use of a calibrated torque wrench or the Hilti torque tool.





System program

Designation	ltem no.	Product name	Comment	Application
S-BT-GF M8/7 AN 6 HL	2345766	Threaded stud	use with X-FCM grating disc	Grating
S-BT-MF M8/7 AN 6 HL	2345768	Threaded stud	package includes serrated flange nut	Multipurpose
S-BT-MF M8/15 AN 6 HL	2345769	Threaded stud	package includes serrated flange nut	Multipurpose
S-BT-MF M10/15 AN 6 HL	2346060	Threaded stud	package includes serrated flange nut	Multipurpose
S-BT-MF W10/15 AN 6 HL	2346061	Threaded stud	package includes serrated flange nut	Multipurpose
S-BT-MF MT M10/15 AN 6 HL	2350549	Threaded stud	package includes serrated flange nut	Multipurpose
S-BT-MF MT W10/15 AN 6 HL	2350880	Threaded stud	package includes serrated flange nut	Multipurpose
S-BT-GR M8/7 SN 6 HL	2345767	Threaded stud	use with X-FCM grating disc	Grating
S-BT-GR M8/7 SN 6 HL AL	2350548	Threaded stud	use with X-FCM grating disc	Grating
S-BT-MR M8/7 SN 6 HL	2346062	Threaded stud	package includes serrated flange nut	Multipurpose
S-BT-MR M8/15 SN 6 HL	2346063	Threaded stud	package includes serrated flange nut	Multipurpose
S-BT-MR M10/15 SN 6 HL	2346064	Threaded stud	package includes serrated flange nut	Multipurpose
S-BT-MR W10/15 SN 6 HL	2346065	Threaded stud	package includes serrated flange nut	Multipurpose
S-BT-MR M8/7 SN 6 HL AL	2346066	Threaded stud	package includes serrated flange nut	Multipurpose
S-BT-MR M8/15 SN 6 HL AL	2346067	Threaded stud	package includes serrated flange nut	Multipurpose
S-BT-MR M10/15 SN 6 HL AL	2346068	Threaded stud	package includes serrated flange nut	Multipurpose
S-BT-MR W10/15 SN 6 HL AL	2346069	Threaded stud	package includes serrated flange nut	Multipurpose
TS-BT 5.3-65 S	2346083	Stepped drill bit	for base material steel	
TS-BT 5.3-95 S	2346084	Stepped drill bit	for base material steel	
TS-BT 5.5-74 AL	2143138	Stepped drill bit	for base material aluminum	
TS-BT 31-74 PFP	2270470	Stepped drill bit	for base material steel	
S-SH BT M8	2361441	Stud holder	for S-BT studs M8	
S-SH BT M10/W10	2361442	Stud holder	for S-BT studs M10 and W10	
S-NS 13 C 95/3 1/4"	2149244	Nut setter	for serrated flange nut M8	
S-NS 15 C 95/3 1/4"	2149245	Nut setter	for serrated flange nut M10	
S-NS 9/16" C 95/3 1/4"	2149246	Nut setter	for serrated flange nut W10	
S-DG BT M8/7 Short 6	2279735	Depth gauge	for exact setting of the S-BT HL	
S-DG BT M8/15 Long 6	2148575	Depth gauge	for exact setting of the S-BT HL	
S-DG BT M10-W10/15 Long 6	2143261	Depth gauge	for exact setting of the S-BT HL	
S-CG BT /7 Short 6	2143262	Check gauge	for verification of the stud standoff	
S-CG BT /15 long 6	2143263	Check gauge	for verification of the stud standoff	
S-IC BT	2383883	Inspection card	for verification of the stud standoff	
S-CC BT 6	2143270	Calibration card	for calibration of the depth gauge for verification of the stud standoff	
X-BT 1/4" – 8 Nm	2119272	Torque tool	manual torque tool (8 Nm)	
	2346085	Torque tool	manual torque tool (16 Nm)	
SBT 4-A22	refer to Hilti Online	Drill driver	For drilling the pilot hole, setting in the stud and fastening an element	
SBT 6-22	refer to Hilti Online	Drill driver with drill assist and installation assist	For drilling the pilot hole, setting in the stud and fastening an element	
SF 6-A22	refer to Hilti Online	Drill driver	For drilling the pilot hole, setting in the stud and fastening an element	
SF 6-22	refer to Hilti Online	Drill driver	For drilling the pilot hole, setting in the stud and fastening an element	

S-BT HL



Attn. : To whom it may concern

 Date
 : 4 March 2024 :

 Ref.
 034/AM/DY/24

Subject : Country of Origin- Hilti S-BT HL Screw-in Studs

Dear Sir / Madam,

Enclosed please find the information of Hilti S-BT HL Screw-in Studs.

Brand Name	: Hilti
Model Name	: Hilti S-BT HL Screw-in Studs
Manufacturer	: Hilti Corporation
Address of Manufacturer	: FL-9494, Principality of Liechtenstein.
Supplier	: Hilti (Hong Kong) Ltd
Address of Supplier	: 701-704, 7/F, Tower A, Manulife Financial Centre, 223 Wai Yip Street, Kwun Tong, Kowloon, Hong Kong
Country of Origin	: Liechtenstein

Should you have further questions, please do not hesitate to contact our Technical Representatives, Customer Service Hotline at 8228-8118, or email us at hksales@hilti.com.

Yours faithfully,

Dennis Yeung Head of Product Leadership Strategy, F&P



Hilti S-BT MR HL THREADED STUD Job Reference

Year	Project Name	Customer Name	Project type
			Project type Community & Cultural
2024	WEST KOWLOON - LYRIC THEATRE - (IPS)	LI LING DECORATION ENGINEERING	Community & Cultural