DEWALT.

ANCHORS & FASTENERS

Product Submittal/Substitution Request

T0:				
PROJECT:				
PROJECT LOCATION:				
Specified Item:				
Section	Page	Paragraph	Description	
PRODUCT SUBI	WIT TAL / SUBST	ITUTION REQUESTED:		

The attached submittal package includes the product description, specifications, drawings, and performance data for use in the evaluation of the request.

SUBMITTED I	BY:	
Name:		Signature:
Company:		
Address:		
Date:	Telephone:	Fax:
FOR USE BY	THE ARCHITECT AND/OR	NEER
Approved	Approved as Noted	Not Approved
(If not approved, plea	ase briefly explain why the product was	cepted.)
By:		Date:

Remarks:

DEWALT® Screw-Bolt+ Submittal Section:

Product Pages:

- Installation Instructions



Offline version available for download at <u>www.dewaltdesignassist.com</u>.

DEWALT developed the DEWALT Design Assist (DDA) anchor software to enable users to input technical data into a dynamic model environment-to visualize, consider, and specify anchors in today's changing engineering climate.

For a demonstration of the latest version of PDA, contact us at <u>anchors@DEWALT.com</u>

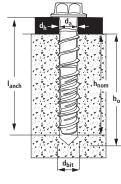


ECHANICAL ANCHORS

∎⊺≝	High Performance Screw Anchor	SCREW-BOLT+	
	9r	- ∎ - ™	

INSTALLATION SPECIFICATIONS

Screw-Bolt+ Anchor Detail



Nomenclature						
da	=	Diameter of Anchor				

h₀

- da Diameter of Drill Bit dbit =
- Diameter of Clearance Hole dh =
- = Base Material Thickness. h
- hnom = Minimum Nominal Embedment = Minimum Hole Depth



Head Marking

Legend Diameter and Length

Flat Head (countersunk) Identification Mark



. Serrated

Underside

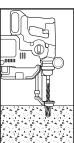
Installation Specifications for Screw-Bolt+ in Concrete and Supplemental Information

Anchor Property/ Setting Information		Notation	Units	Nominal Anchor Diameter (inch)					
				1/4	3/8	1/2	5/8	3/4	
Anchor outside diameter		d _a (d)	in.	0.250	0.375	0.500	0.625	0.750	
		ua (u)	(mm)	(6.4)	(9.5)	(12.7)	(15.9)	(19.1)	
Non	ninal drill bit diameter (ANSI)	d _{bit}	in.	1/4	3/8	1/2	5/8	3/4	
	mum diameter of hole rance in fixture	dh	in. (mm)	11/32 (8.7)	1/2 (12.7)	5/8 (15.9)	3/4 (19.1)	7/8 (22.2)	
Min	mum embedment depth ¹	hnom	in. (mm)	1 (25)	1-1/2 (38)	1-3/4 (44)	2-1/2 (64)	2-1/2 (64)	
Min	mum hole depth	h₀	in. (mm)			h _{nom} + 3/8 (9.5)			
Mini	mum member thickness	h _{min}	in. (mm)			h _{nom} + 2 (51)			
Minimum edge distance		Cmin	in. (mm)	1-1/2 (38)	1-1/2 (38)	1-3/4 (44)	1-3/4 (44)	1-3/4 (44)	
Minimum spacing		Smin	in. (mm)	1-1/2 (38)	2 (51)	2-3/4 (70)	2-3/4 (70)	3 (76)	
Max manual installation torque		T _{inst,max}	ftlbf. (N-m)	19 (26)	25 (34)	45 (61)	60 (81)	70 (95)	
Max impact wrench power (torque)		T _{impact,max}	ftlbf. (N-m)	150 (203)	300 (407)	300 (407)	700 (950)	700 (950)	
ad	Impact wrench socket size	-	in.	7/16	9/16	3/4	15/16	1-1/8	
нех неаd	Maximum head height	-	in.	21/64	3/8	31/64	37/64	43/64	
Ê	Maximum washer diameter	-	in.	37/64	3/4	1-1/16	1-1/8	1-13/32	
Ī	Driver Size	-	in.	T-30	T-50	T-55	-	-	
ead	Max head height	-	in.	13/64	21/64	11/32	-	-	
-lat Head	Max head diameter	-	in.	17/32	57/64	1	-	-	
	Countersunk angle	-	in.	82	82	82	-	-	
	ctive tensile stress area ew anchor body)	Ase	in²	0.045	0.094	0.176	0.274	0.399	
Min	mum ultimate strength	futa	psi	100,000	105,000	115,000	95,000	95,000	
Minimum yield strength		fy	psi	80,000	84,000	92,000	76,000	76,000	

1. See load capacities for Screw-Bolt+ in normal weight concrete for additional nominal embedment depths.

INSTALLATION INSTRUCTIONS

Installation Instructions for Screw-Bolt+ (Hex Head Version Illustrated, Flat Head Version Not Shown)



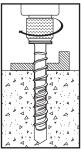




Step 2 Remove dust and debris from hole during drilling (e.g. dust extractor, hollow bit) or following drilling (e.g. suction, forced air) to extract loose particles created during drilling.



Step 3 Select a torque wrench or powered impact wrench and do not exceed the maximum torque, Tinst,max or Timpact,max respectively for the selected anchor diameter and embedment. Attach an appropriate sized hex socket/driver to the impact wrench. Mount the screw anchor head into the socket.



Step 4 Drive the anchor into the hole until the head of the anchor comes into contact with the fixture. The anchor must be snug after installation. Do not spin the hex socket off the anchor to disengage.

- REV. G

Legend Diameter and Length Hex Head Washer Identification Mark