



● Compliance with International Codes
● Compliance to State/Regional Codes

ICC-ES Evaluation Report ESR-3200

Reissued December 2021

This report is subject to renewal December 2022.

DIVISION: 04 00 00—MASONRY
Section: 04 05 19.16—Masonry Anchors

REPORT HOLDER:

DEWALT

EVALUATION SUBJECT:

AC100+ GOLD® ADHESIVE ANCHOR SYSTEM IN MASONRY (DEWALT)

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2021, 2018, 2015 and 2012 *International Building Code*® (IBC)
- 2021, 2018, 2015 and 2012 *International Residential Code*® (IRC)

For evaluation for compliance with codes adopted by Los Angeles Department of Building and Safety (LADBS), see [ESR-3200 LABC and LARC Supplement](#).

Property evaluated:

Structural

2.0 USES

The AC100+ Gold adhesive anchor system is used to anchor building components to hollow (ungROUTED) and fully grouted concrete masonry walls to resist static, wind and earthquake loads, as noted in Section 4.0 of this report.

The anchor system is an alternative to anchors described in Section 8.1.3 of TMS 402 as referenced in Section 2107 of the 2021, 2018 and 2015 IBC, and Section 2.1.4 of TMS 402 as referenced in Section 2107 of the 2012, as applicable. The anchor system may also be used where an engineered design is submitted in accordance with Section R301.1.3 of the IRC.

3.0 DESCRIPTION

3.1 General:

The AC100+ Gold Adhesive is comprised of a two-component epoxy adhesive filled in cartridges, static mixing nozzles, dispensing tools, hole cleaning equipment and stainless steel mesh screen tubes (screen tubes are for use in hollow masonry block).

The adhesive is used with continuously threaded steel rods. The AC100+ Gold Adhesive Anchor System consists of AC100+ Gold Adhesive described in the first paragraph of Section 3.1, steel threaded rods and matching washers and nuts; the anchor system is installed in pre-drilled holes into concrete masonry walls.

3.2 Materials:

3.2.1 AC100+ Gold Adhesive: AC100+ Gold is an injectable two-component adhesive. The two components are separated by means of a labeled dual-cylinder cartridge. The two components combine and react when dispensed through a static mixing nozzle, supplied by DEWALT, which is attached to the cartridge. The AC100+ Gold adhesive is available in 9.5-ounce (280 mL), 11.5-ounce (345 mL) and 28-ounce (825 mL) cartridges. Each cartridge label is marked with the adhesive expiration date. A shelf life of eighteen months, as indicated by the expiration date, applies to an unopened cartridge when stored in accordance with the manufacturer's recommendations.

3.2.2 Hole Cleaning Equipment: Hole cleaning equipment is comprised of steel wire brushes supplied by DEWALT, and a compressed air nozzle or hand pump.

3.2.3 Dispensers: AC100+ Gold adhesive must be dispensed with manual, pneumatic dispensers, or electric powered dispensers supplied by DEWALT.

3.2.4 Threaded Steel Rods, Washers and Nuts: Threaded steel rods must be clean and continuously threaded (all-thread). Carbon standard steel threaded rods must be in accordance with standard ASTM A36, ASTM F1554 Grade 36, ASTM A307, ISO 898 Class 5.8 and carbon high-strength threaded rods must be in accordance with ASTM A193 Grade B7. Stainless steel threaded rods must conform to ASTM F593 (AISI 304 / 316).

Carbon steel threaded rods may be furnished with a minimum of 0.0002-inch-thick (0.005 mm) zinc electroplated coating complying with ASTM B633, SC1; or a minimum 0.0021-inch-thick (0.053 mm) mechanically deposited zinc coating complying with ASTM B695, Class 55; or a hot dip galvanized zinc coating complying with ASTM A153, Class C or D. The stainless steel threaded rods must comply with Table 3 of this report. Steel grades and material types (carbon, stainless) of the washers and nuts must be matched to the threaded rods. Threaded steel rods must be straight and free of indentations or other defects along their

length. The embedded end may be either flat cut or cut on the bias to a chisel point. Material types of the nuts and washers must be matched to the threaded rods.

3.2.5 Screen Tubes: Stainless steel mesh screen tubes are used in hollow masonry with the adhesive and threaded steel rods. The screen tubes hold the adhesive in position in the masonry wall face during the installation of the steel threaded rods.

3.3 Masonry:

3.3.1 Grout-filled Concrete Masonry: The compressive strength of masonry, f'_m , at 28 days must be a minimum of 1,500 psi (10.3 MPa). Fully grouted masonry walls must comply with Chapter 21 of the IBC and must be constructed from the following materials:

3.3.1.1 Concrete Masonry Units (CMUs): Concrete masonry walls must be constructed from minimum light-, medium-, or normal weight closed end, concrete masonry units (CMUs) conforming to ASTM C90. The nominal CMU size is 8 inches unless noted in this report.

3.3.1.2 Grout (for Grout-filled Concrete Masonry): Grout-filled concrete masonry units must be fully grouted with grout complying with Section 2103.3 of the 2021, 2018 and 2015 IBC, Section 2103.13 of the 2012 IBC, or Section R606 of the 2021, 2018, and 2015 IRC; Section R609.1.1 of the 2012, as applicable. Alternatively, the grout must have a minimum compressive strength, when tested in accordance with ASTM C1019, equal to its specified strength, but not less than 2,000 psi (13.8 MPa).

3.3.1.3 Mortar: Mortar must be Types M, S or N prepared in accordance with Section 2103 of the IBC or Section R606.2.8 of the 2021, 2018, and 2015 IRC, Section R607.1 of the 2012 IRC, as applicable.

3.3.2 Hollow (Ungrouted) concrete masonry: The compressive strength of masonry, f'_m , at 28 days must be a minimum of 1,500 psi (10.3 MPa). Fully grouted masonry walls must comply with Chapter 21 of the IBC and must be constructed from the following materials:

3.3.2.1 Concrete Masonry Units (CMUs): Concrete masonry walls must be constructed from minimum light-, medium-, or normal weight closed end, concrete masonry units (CMUs) conforming to ASTM C90. The nominal CMU size is 8 inches unless noted in this report.

3.3.2.2 Mortar: Mortar must be Types M, S or N prepared in accordance with Section 2103.2.1 of the 2021, 2018 and 2015 IBC, Section 2103.9 of the 2012 IBC, Section 2103.8 of the 2009 IBC, or R606.2.8 of the 2021, 2018 and 2015 IRC, R607.1 of the 2012 IRC, as applicable.

4.0 DESIGN AND INSTALLATION

4.1 Allowable Stress Design:

General: The design load values for anchors described in this report are based on allowable stress design (ASD), as an alternative to Section 8.1.2 of TMS (2016 and 2013 edition), or Section 2.1.4 of TMS 402/ACI 530/ASCE 5 (2011 and 2008 editions) as referenced in Section 2107.1 of the IBC. For use under the IRC, an engineered design in accordance with R301.1.3 must be submitted to the code official. Allowable tension and shear loads for installation in grout-filled and hollow masonry walls are noted in Tables 3 through 7 of this report. The allowable tension and shear values in this report must be adjusted in accordance with Figure 1 for in-service base material temperatures in excess of 70°F (21°C). Allowable tension and shear loads based on steel strength for threaded rods are described in Table 3.

Allowable stress design tension and shear load values given in Tables 4 and 5 in grout-filled concrete masonry may be used to resist long-term loads, such as gravity loads, and short-term loads, such as wind and seismic. Use of the tension and shear load values in hollow masonry given in Table 6 may be used to resist long-term loads, such as gravity loads. The use of anchors for seismic loads in hollow masonry is beyond the scope of this report; the values may be used for short-term loading due to wind forces, however, the allowable loads may not be increased.

Critical and minimum spacing and edge distance values, with appropriate reduction values, where applicable, are given in Tables 4 and 5 for fully grouted concrete masonry and Table 6 for hollow concrete masonry.

The allowable loads for anchors installed in fully grout-filled concrete masonry or hollow masonry subjected to combined tension and shear forces must be determined by the following equation:

$$\left(\frac{P_s}{P_t}\right) + \left(\frac{V_s}{V_t}\right) \leq 1$$

where:

P_s = Applied service tension load (lbf or kN).

P_t = Allowable service tension load (lbf or kN).

V_s = Applied service shear load (lbf or kN).

V_t = Allowable service shear load (lbf or kN).

4.2 Installation:

Anchors must be installed in accordance with this report and the manufacturer's published installation instructions (MPII) represented in Figures 4 and 5. The anchors must not be installed until the base material has reached its minimum designated compressive strength. The drill bit size, hole diameter, embedment depth, spacing, edge distance and base material must comply with the requirements of this report. Installation procedures and locations must be in accordance with Tables 1, 2, 4, 5 and 6 as well as Figures 2, 3, 4, 5, 6 and 7 of this report, as applicable.

4.3 Special Inspection:

Periodic special inspections are required in accordance with IBC Section 1704 and 1705, and are also applicable for installations under the IRC. The special inspector must be on the jobsite initially during anchor installation to verify anchor type, anchor dimensions, masonry type, masonry dimensions and compressive strength, drill bit size, anchor spacing, edge distances, embedment, and adherence to the manufacturer's printed installation instructions (MPII).

The special inspector must verify that anchor installation is in compliance with this evaluation report and in accordance with the MPII. Subsequent installations of the same anchor type and size by the same construction personnel are permitted to be performed in the absence of the special inspector. Any change in the anchor product being installed or the personnel performing the installation requires an initial inspection. For ongoing installations over an extended period, the special inspector must make regular inspections to confirm correct handling and installation of the product.

5.0 CONDITIONS OF USE

The AC100+ Gold® Adhesive Anchor System described in this report and Table 1 complies with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1 The anchors must be identified and installed in accordance with this report and the MPII. In the event of a conflict between the instructions in this report and the manufacturer's instructions, this report must govern.
- 5.2 Anchor sizes, dimensions, and minimum embedment depths are as set forth in this report.
- 5.3 Anchors resisting static and wind tension and shear loads in concrete masonry must be designed in accordance with Section 4.1 of this report.
- 5.4 For installations in grouted concrete masonry, anchors are recognized to dead, live, seismic and wind tension and shear load applications. When using the basic load combinations in accordance with the 2018, 2015 and 2012 IBC Section 1605.3.1, allowable loads are not permitted to be increased for wind or seismic loading. When using the alternative basic load combinations for the 2021, 2018, 2015 and 2012 IBC, the allowable loads or load combinations for these anchors must not be adjusted.
- 5.5 For installations in hollow concrete masonry, anchors are recognized to dead, live, and wind tension and shear load applications. For installations in hollow concrete masonry under the IBC or the IRC, the use of adhesive anchors for resistance to seismic loads is beyond the scope of this report. The allowable loads or load combinations for these anchors must not be adjusted for applications subjected to wind loads.
- 5.6 Anchors must be installed in holes predrilled in substrates described in this report, using carbide-tipped drill bits complying with ANSI B21.15-1994.
- 5.7 Prior to installation, calculations demonstrating that the applied loads are less than the allowable loads described in this report must be submitted to the code official for approval. The calculations must be prepared by a registered design professional where required by the statutes of the jurisdiction in which the project is being constructed.
- 5.8 Since an ICC-ES acceptance criteria for evaluating data to determine the performance of adhesive anchors subjected to fatigue and shock loading is unavailable at this time, the use of these anchors under these conditions is beyond the scope of this report.
- 5.9 Where not otherwise prohibited by the code, anchors are permitted for installation in fire-resistance-rated construction provided at least one of the following conditions is fulfilled:
- Anchors are used to resist wind or seismic forces only.
 - Anchors that support fire-resistance-rated construction or gravity load-bearing structural elements are within a fire-resistance-rated envelope or a fire-resistance-rated membrane, are protected by approved fire-resistance-rated materials, or have been evaluated for resistance to fire exposure in accordance with recognized standards.
 - Anchors are used to support nonstructural elements.
- 5.10 Since an ICC-ES acceptance criteria for evaluating data to determine the performance of adhesive anchors in cracked masonry is unavailable at this time, the use of adhesive anchors is limited to installation in uncracked masonry. Cracking occurs when $f_t > f_r$ due to service loads or deformations.
- 5.11 The anchors may be installed in base materials having internal temperatures between 14°F (-10°C) and 104°F (40°C) at the time of installation. Installation of AC100+ Gold adhesive in base materials having temperatures beyond this range is outside the scope of this report.
- 5.12 When anchors are located where the internal base material temperature may exceed 70°F (21°C), allowable tension and shear loads indicated in this report must be adjusted for in-service temperatures in accordance with Figure 1. The use of AC100+ Gold adhesive in base materials having internal temperatures exceeding 180°F (82°C) during service life is beyond the scope of this report.
- 5.13 Use of AC100+ Gold in conjunction with uncoated or zinc electroplated carbon steel threaded rods must be limited to interior exposure. Use of stainless steel (AISI 304 or Type 316) anchors or hot-dipped galvanized anchors with zinc coating conforming to ASTM A153, Class C or D, is permitted for exterior or damp environments during service life.
- 5.14 Steel anchoring elements in contact with preservative-treated wood or fire-retardant-treated wood must be stainless steel, hot-dipped galvanized in accordance with ASTM A153, Class C or D, or mechanically galvanized in accordance with ASTM B633, Class 55.
- 5.15 Special inspection, when required, must be provided in accordance with Section 4.3 of this report.
- 5.16 During installation, the pre-drilled holes must be dry.
- 5.17 The AC100+ Gold adhesive is manufactured under a quality-control program with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

- 6.1 Data in accordance with the ICC-ES Acceptance Criteria for Adhesive anchors in Masonry Elements (AC58), dated March 2018 (editorially revised May 2021), including the following suitability requirements: sustained load (Test Series 17); in-service temperature (Test Series 18); freezing and thawing (Test Series 20); and seismic testing (Test Series 21).
- 6.2 A quality control manual.

7.0 IDENTIFICATION

- 7.1 The AC100+ Gold cartridges described in Section 3.1 of this report are identified by a label displaying the company name (DEWALT), the product name, lot number, expiration date and the evaluation report number (ESR-3200). The static mixing nozzles, dispensing tools, hole cleaning equipment, stainless steel screen tubes are identified by packaging label displaying the company name and the product name. Threaded rods, washers and nuts are standard elements and must conform to applicable national or international specifications as prescribed in Section 3.2.4.
- 7.2 The report holder's contact information is the following:
- DEWALT**
701 EAST JOPPA ROAD
TOWSON, MARYLAND 21286
(800) 524-3244
www.DEWALT.com
anchors@DEWALT.com



The DEWALT drilling systems shown below collect and remove dust with a HEPA dust extractor during the hole drilling operation in dry base materials using hammer-drills (see step 1 of the manufacturer’s published installation instructions).

FIGURE A—EXAMPLES OF DEWALT DUST REMOVAL DRILLING SYSTEMS WITH HEPA DUST EXTRACTORS FOR ILLUSTRATION

TABLE A—DESIGN TABLE INDEX¹

Adhesive	Base Material	Threaded Rod Sizes (inch)	Allowable Load Data (steel strength)	Allowable Load Data (bond strength)
AC100+ Gold	Grout-filled Concrete Masonry	$\frac{3}{8}, \frac{1}{2}, \frac{5}{8}, \frac{3}{4}$	Table 3	Tables 4 and 5
	Hollow Concrete Masonry Units	$\frac{1}{4}, \frac{3}{8}, \frac{1}{2}, \frac{5}{8}, \frac{3}{4}$	Table 3	Tables 6

¹Design must be in accordance with Section 4.1 of this report and applicable allowable load data for the given conditions, as applicable.

TABLE 1—AC100+ GOLD ADHESIVE ANCHOR INSTALLATION SPECIFICATIONS IN MASONRY¹

Grout-filled Concrete Masonry Walls							
Anchor Property / Setting Information	Notation	Units	Nominal Anchor Size (inch)				
			$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	
Nominal outside anchor diameter	d	in.	0.375	0.500	0.625	0.750	
Nominal carbide drill bit diameter	d_{bit}	in.	$\frac{7}{16}$	$\frac{9}{16}$	$\frac{11}{16}$	$\frac{7}{8}$	
Nominal steel brush size	-	in.	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{15}{16}$	
Hex nut wrench / socket size ²	in.	in.	$\frac{9}{16}$	$\frac{3}{4}$	$\frac{15}{16}$	$1\frac{1}{8}$	
Maximum torque ⁴	T_{max}	ft.-lb.	10	15	15	20	
Hollow Concrete Masonry Walls							
Anchor Property / Setting Information	Notation	Units	Nominal Anchor Size (inch)				
			$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Nominal outside anchor diameter	d	in.	0.250	0.375	0.500	0.625	0.750
Screen tube material type	-	-	Stainless	Stainless	Stainless	Stainless	Stainless
Nominal screen tube diameter ³	-	in.	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Nominal carbide drill bit diameter	d_{bit}	in.	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$
Nominal steel brush size	-	in.	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$
Hex nut wrench / socket size ²	-	in.	$\frac{7}{16}$	$\frac{9}{16}$	$\frac{3}{4}$	$\frac{15}{16}$	$1\frac{1}{8}$
Maximum torque ⁴	T_{max}	ft.-lb.	3	6	10	10	10

For SI: 1 inch = 25.4 mm, 1 ft-lb = 1.356 N-m.

¹See allowable tension and shear load tables in this report for applicable embedment depths for each nominal anchor size.

²Wrench/socket size based on nuts that conform to applicable national or international specifications matched with threaded rods.

³Minimum nominal screen tube length is the masonry face shell thickness plus one-half-inch. See Figure 5 for illustration of face shell thickness.

⁴Torque may not be applied to the adhesive anchors until the full cure time has elapsed. See Table 2 for adhesive curing times.

TABLE 2—GEL AND CURING TIMES FOR AC100+ GOLD ADHESIVE¹

Temperature of base material	Approximate gel (working) time	Full curing time
14°F -10°C	90 minutes	24 hours
23°F -5°C	90 minutes	14 hours
32°F 0°C	45 minutes	7 hours
41°F 5°C	25 minutes	2 hours
68°F 20°C	6 minutes	45 minutes
86°F 30°C	4 minutes	25 minutes
104°F 40°C	1.5 minutes	15 minutes

¹Linear interpolation to determine approximate gel and full curing times for intermediate base material temperatures is allowed.

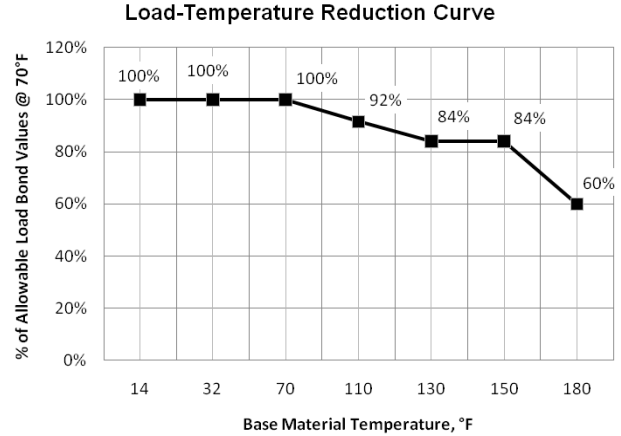


FIGURE 1—INFLUENCE OF BASE MATERIAL TEMPERATURE ON ALLOWABLE BOND LOADS FOR AC100+ GOLD ADHESIVE ANCHORS

TABLE 3—ALLOWABLE TENSION AND SHEAR LOADS BASED ON STEEL STRENGTH FOR THREADED RODS (pounds)^{1,2,3}

Anchor Diameter (inches)	Tension					Shear				
	ASTM A36, ASTM F1554 Grade 36 F _u = 58 ksi	ASTM A307 F _u = 60 ksi	ISO 898 Class 5.8 F _u = 72.5 ksi	ASTM A193 Grade B7 F _u = 125 ksi	ASTM F593 CW ⁴ (316/304) F _u = 100 ksi	ASTM A36, ASTM F1554 Grade 36 F _u = 58 ksi	ASTM A307 F _u = 60 ksi	ISO 898 Class 5.8 F _u = 72.5 ksi	ASTM A193 Grade B7 F _u = 125 ksi	ASTM F593 CW ⁴ (316/304) F _u = 100 ksi
1/4	940	970	1,175	2,025	1,620	485	500	605	1,040	835
3/8	2,115	2,185	2,640	4,555	3,645	1,090	1,125	1,360	2,345	1,875
1/2	3,755	3,885	4,700	8,100	6,480	1,935	2,000	2,420	4,170	3,335
5/8	5,870	6,075	7,340	12,655	10,125	3,025	3,130	3,780	6,520	5,215
3/4	8,455	8,750	10,570	18,225	12,390	4,355	4,505	5,445	9,390	6,385

For **SI**: 1 inch = 25.4 mm; 1 lbf = 0.0044 kN, 1 ksi = 6.894 MPa.

¹Allowable load used in the design must be the lesser of bond values and tabulated steel element values.

²Allowable tension and shear loads for threaded rods to resist short-term loads, such as wind or seismic, must be calculated in accordance with Section 4.1 of this report, as applicable.

³Allowable loads for steel strength are calculated using allowable tension and shear equal to 0.33 x F_u x A_{nom} and 0.17 x F_u x A_{nom}, respectively.

⁴For 3/4-inch-diameter rods applicable to ASTM F593 CW, F_u = 85 ksi.

TABLE 4—ALLOWABLE AC100+ GOLD ADHESIVE BOND TENSION AND SHEAR LOAD CAPACITIES FOR THREADED RODS INSTALLED INTO GROUT-FILLED CONCRETE MASONRY UNITS^{1,2,3,4,5,6,7,8,9,10,11,12,13}

TENSION LOAD										
Anchor Diameter, <i>d</i> (inches)	Minimum Embedment, <i>h_{nom}</i> (inches)	Allowable Load at <i>c_{cr}</i> and <i>s_{cr}</i> (pounds)	Spacing Distance, <i>s</i>			Edge or End Distance, <i>c₂</i> or <i>c₁</i> (see Figure 3)				
			Critical Distance, <i>s_{cr}</i> (inches)	Minimum Distance, <i>s_{min}</i> (inches)	Allowable Load Factor at <i>s_{min}</i>	Critical Distance, <i>c_{cr}</i> (inches)	Minimum Distance, <i>c_{min}</i> (inches)	Allowable Load Factor at <i>c_{min}</i>		
3/8	3	615	6	3	0.70	3	3	1.00		
1/2	4	960	8	4	0.85	12	3	0.75		
5/8	5	1,095	10	5	0.85	12	3	0.65		
3/4	6	1,160	12	6	1.00	12	4	0.65		

SHEAR LOAD										
Anchor Diameter, <i>d</i> (inches)	Minimum Embedment, <i>h_{nom}</i> (inches)	Allowable Load at <i>c_{cr}</i> and <i>s_{cr}</i> , Direction 1 & 2 (pounds) ¹⁴	Allowable Load at <i>c_{cr}</i> and <i>s_{cr}</i> , Direction 3 & 4 (pounds) ¹⁴	Spacing Distance, <i>s</i>			Edge or End Distance, <i>c₂</i> or <i>c₁</i> (see Figure 3)			
				Critical Distance, <i>s_{cr}</i> (inches)	Minimum Distance, <i>s_{min}</i> (inches)	Allowable Load Factor at <i>s_{min}</i>	Critical Distance, <i>c_{cr}</i> (inches)	Minimum Distance, <i>c_{min}</i> (inches)	Allowable Load Factor at <i>c_{min}</i>	
									Load Perpendicular to Edge (to end)	Load Parallel to Edge (⊥ to end)
3/8	3	275	340	6	3	0.45	3	3	1.00	1.00
1/2	4	1,430	1,760	8	4	0.45	12	3	0.30	0.75
5/8	5	1,530	1,880	10	5	0.45	12	3	0.30	0.75
3/4	6	1,570	1,930	12	6	0.45	12	4	0.40	0.75

For **SI**: 1 inch = 25.4 mm; 1 lbs = 0.0044 kN, 1 psi = 0.006894 MPa.

See Table 4 Notes on the Following Page

Table 4 Notes (Continued)

- ¹All values are for anchors installed in fully grouted concrete masonry with minimum masonry strength of 1,500 psi (10.3 MPa). Concrete masonry units must be light-, medium-, or normal-weight conforming to ASTM C 90. Allowable loads have been calculated using a safety factor of 5.0.
- ²Anchors are recognized to dead, live, seismic and wind tension and shear load applications. For combined loading, see Section 4.1 of this report.
- ³Anchors may be installed in any location in the face of the masonry wall (cell, web, bed joint) except within 1½-inch from the vertical mortar joint (head joint) provided the minimum edge and end distances are maintained. Anchors may be placed in the head joint if the vertical joint is mortared full-depth.
- ⁴A maximum of two anchors may be installed in a single masonry cell in accordance with the spacing and edge or end distance requirements. Embedment is measured from the outside surface of the concrete masonry unit to the embedded end of the anchor. See Figure 2 of this report.
- ⁵The critical spacing distance, s_{cr} , is the anchor spacing where full load values in the table may be used. The minimum spacing distance, s_{min} , is the minimum anchor spacing for which values are available and installation is permitted. Spacing distance is measured from the centerline to centerline between two anchors.
- ⁶The critical edge or end distance, c_{cr} , is the distance where full load values in the table may be used. The minimum edge or end distance, c_{min} , is the minimum distance for which values are available and installation is permitted. Edge or end distance is measured from anchor centerline to the closest unrestrained edge. Note: for anchors loaded in tension or shear with more than one edge distance (e.g. corner location), only one edge or end distance load factor need be applied to each anchor, as applicable.
- ⁷The tabulated values are applicable for anchors in the ends of grout-filled concrete masonry units where minimum edge distances are maintained.
- ⁸Load values for anchors installed less than s_{cr} and c_{cr} must be multiplied by the appropriate load reduction factor based on actual spacing (s) or edge distance (c). Load factors are multiplicative; both spacing and edge reduction factors must be considered.
- ⁹Linear interpolation of load values between minimum spacing (s_{min}) and critical spacing (s_{cr}) and between minimum edge or end distance (c_{min}) and critical edge or end distance (c_{cr}) is permitted.
- ¹⁰Concrete masonry width (wall thickness) must be equal to or greater than 1.5 times the anchor embedment depth (e.g. ⅜-inch- and ½-inch-diameter anchors are permitted in minimum nominally 6-inch-thick concrete masonry). The ⅝- and ¾-inch-diameter anchors must be installed in minimum nominally 8-inch-thick concrete masonry.
- ¹¹Allowable loads must be the lesser of the adjusted masonry or bond values tabulated above and the steel strength values given in Table 3.
- ¹²Tabulated allowable bond loads must be adjusted for increased in-service base material temperatures in accordance with Figure 1, as applicable.
- ¹³The tabulated allowable tension and shear load values may be increased by 4 percent (multiplied by 1.04) for installations into fully grouted concrete masonry with minimum masonry strength of 2,000 psi (13.8 MPa).
- ¹⁴See Figure 5 for illustration of shear load directions.

TABLE 5—ALLOWABLE AC100+ GOLD ADHESIVE BOND TENSION AND SHEAR LOADS FOR THREADED RODS INSTALLED INTO THE TOPS OF GROUT-FILLED CONCRETE MASONRY UNITS^{1,2,3,4,5,6,7,8,9,10}

Anchor Diameter <i>d</i> (inches)	Minimum Embedment <i>h_{nom}</i> (inches)	Minimum Spacing Distance	Minimum Edge Distance, (inches)	Minimum End Distance, (inches)	Tension Load (pounds)	Shear Load (pounds)	
						Load Perpendicular to Edge of Masonry Wall (to end)	Load Parallel to Edge of Masonry Wall (⊥ to end)
½	4	1 anchor per cell	1¾	3	520	190	300
	10	1 anchor per block	1¾	10½	1,670		
⅝	5	1 anchor per cell	1¾	3	745	240	300
	12½	1 anchor per block	2¾	10½	2,095		
¾	6	1 anchor per cell	2¾	4	1,260	410	490

For **SI**: 1 inch = 25.4 mm; 1 lbs = 0.0044 kN, 1 psi = 0.006894 MPa.

- ¹All values are for anchors installed in fully grouted concrete masonry with minimum masonry strength of 1,500 psi (10.3 MPa). Concrete masonry units must be light-, medium-, or normal-weight conforming to ASTM C 90. Allowable loads have been calculated using a safety factor of 5.0.
- ²The tabulated allowable load values may be increased by 4 percent (multiplied by 1.04) for installations into fully grouted concrete masonry with minimum masonry strength of 2,000 psi (13.8 MPa).
- ³Embedment is measured from the surface of the concrete masonry unit to the embedded end of the anchor.
- ⁴The edge and end distance is measured from the anchor centerline to the closest unrestrained edge and end of the CMU block, respectively. See Figure 3 of this report for an illustration of the top of grouted masonry walls.
- ⁵Spacing distance is measured from the centerline to centerline between two anchors.
- ⁶Anchors must be installed into the grouted cell; anchors are not permitted to be installed in a head joint, flange or web of the concrete masonry unit.
- ⁷Allowable shear loads parallel and perpendicular to the edge of a masonry wall may be applied in or out of plane. See Figure 4.
- ⁸Anchors are recognized to dead, live, seismic and wind tension and shear load applications. For combined loading, see Section 4.1 of this report.
- ⁹Allowable loads must be the lesser of the adjusted masonry or bond values tabulated above and the steel strength values given in Table 3.
- ¹⁰Tabulated allowable bond loads must be adjusted for increased in-service base material temperatures in accordance with Figure 1, as applicable.

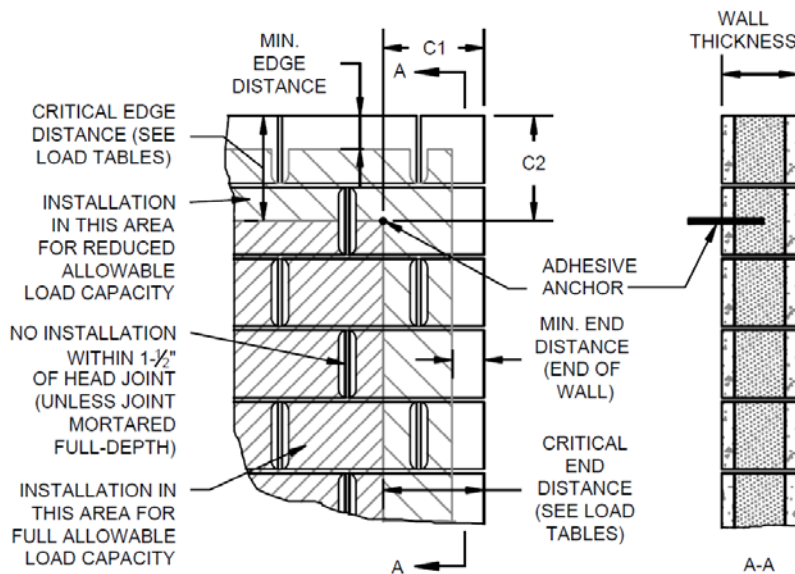


FIGURE 2—ILLUSTRATION OF AC100+ GOLD ADHESIVE ANCHORS INSTALLED INTO GROUTED CONCRETE MASONRY WALL

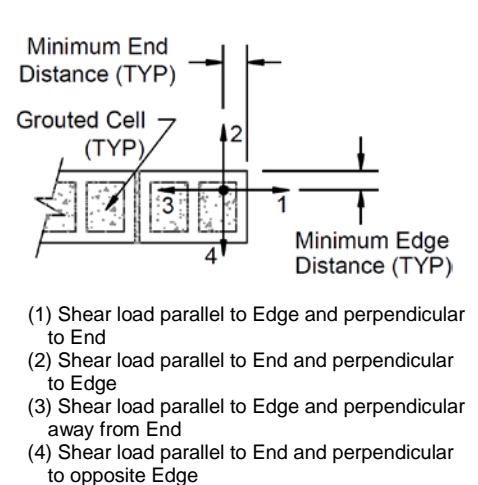


FIGURE 3—AC100+ GOLD ADHESIVE ANCHORS INSTALLED INTO THE TOP OF GROUTED CONCRETE MASONRY

TABLE 6—ALLOWABLE AC100+ GOLD ADHESIVE BOND TENSION AND SHEAR LOADS FOR THREADED RODS INSTALLED WITH STAINLESS STEEL SCREEN TUBES IN THE FACE OF HOLLOW CONCRETE MASONRY UNITS^{1,2,3,4,5,6,7,8,9,10,11,12,13}

TENSION LOAD									
Anchor Diameter, <i>d</i> (inches)	Minimum Embedment, <i>h_{nom}</i> (inches)	Allowable Load at <i>c_{cr}</i> and <i>s_{cr}</i> (pounds)	Spacing Distance, <i>s</i>			Edge or End Distance, <i>c</i> (see Figure 5)			
			Critical Distance, <i>s_{cr}</i> (inches)	Minimum Distance, <i>s_{min}</i> (inches)	Allowable Load Factor at <i>s_{min}</i>	Critical Distance, <i>c_{cr}</i> (inches)	Minimum Distance, <i>c_{min}</i> (inches)	Allowable Load Factor at <i>c_{min}</i>	
1/4	1 1/4	350	4	2	0.60	3	1 1/2	0.80	
3/8	1 1/4	400	6	3	0.60	3 3/4	1 7/8	0.80	
1/2	1 1/4	400	8	4	0.60	11 1/4	3 3/4	0.95	
5/8	1 1/4	400	8	4	0.60	11 1/4	3 3/4	0.95	
3/4	1 1/4	400	8	4	0.60	11 1/4	3 3/4	0.95	

SHEAR LOAD									
Anchor Diameter, <i>d</i> (inches)	Minimum Embedment, <i>h_{nom}</i> (inches)	Allowable Load at <i>c_{cr}</i> and <i>s_{cr}</i> , Direction 1 & 2 (pounds) ¹⁴	Allowable Load at <i>c_{cr}</i> and <i>s_{cr}</i> , Direction 3 & 4 (pounds) ¹⁴	Spacing Distance, <i>s</i>			Edge or End Distance, <i>c</i> (see Figure 5)		
				Critical Distance, <i>s_{cr}</i> (inches)	Minimum Distance, <i>s_{min}</i> (inches)	Allowable Load Factor at <i>s_{min}</i>	Critical Distance, <i>c_{cr}</i> (inches)	Minimum Distance, <i>c_{min}</i> (inches)	Allowable Load Factor at <i>c_{min}</i> , Load Perpendicular or Parallel to Edge (or ⊥ to end)
1/4	1 1/4	275	465	4	2	0.45	3	1 1/2	0.50
3/8	1 1/4	290	490	6	3	0.45	3 3/4	1 7/8	0.50
1/2	1 1/4	430	730	8	4	0.45	11 1/4	3 3/4	0.50
5/8	1 1/4	430	730	8	4	0.45	11 1/4	3 3/4	0.50
3/4	1 1/4	430	730	8	4	0.45	11 1/4	3 3/4	0.50

For **SI**: 1 inch = 25.4 mm; 1 lbs = 0.0044 kN, 1 psi = 0.006894 MPa.

¹All values are for anchors installed in hollow concrete masonry with minimum masonry strength of 1,500 psi (10.3 MPa). Concrete masonry units must be light-, medium-, or normal-weight conforming to ASTM C 90. Allowable loads have been calculated using a safety factor of 5.0.

²Anchors must be installed into the hollow cell; anchors are not permitted to be installed in a mortar joint, flange or web of the concrete masonry unit.

³A maximum of two anchors may be installed in a single masonry cell in accordance with the spacing and edge distance requirements, except as noted in the table. Embedment is measured from the outside surface of the concrete masonry to the inside surface of the cell (i.e. face shell thickness).

⁴The edge distance and end distance is measured from the anchor centerline to the unrestrained edge of the CMU block. See Figure 4 of this report.

⁵The critical spacing distance, *s_{cr}*, is the anchor spacing where full load values in the table may be used. The minimum spacing distance, *s_{min}*, is the minimum anchor spacing for which values are available and installation is permitted. Spacing distance is measured from the centerline to centerline between two anchors.

⁶The critical edge distance, *c_{cr}*, is the edge distance where full load values in the table may be used. The minimum edge distance, *c_{min}*, is the minimum edge distance for which values are available and installation is permitted. Edge distance is measured from anchor centerline to the closest unrestrained edge.

⁷Load values for anchors installed less than *s_{cr}* and *c_{cr}* must be multiplied by the appropriate load reduction factor based on actual spacing (*s*) or edge distance (*c*). Load factors are multiplicative; both spacing and edge reduction factors must be considered.

⁸Linear interpolation of load values between minimum spacing (*s_{min}*) and critical spacing (*s_{cr}*) and between minimum edge distance (*c_{min}*) and critical edge distance (*c_{cr}*) is permitted.

⁹Concrete masonry width (wall thickness) may be minimum nominal 6-inch-thick provided the minimum embedment (i.e. face shell thickness) is maintained.

¹⁰The tabulated values are applicable for anchors in the ends of hollow concrete masonry units where minimum face shell thickness, minimum edge and end distances are maintained.

¹¹Anchors are recognized to dead, live and wind tension and shear load applications. For combined loading, see Section 4.1 of this report.

¹²Allowable loads must be the lesser of the adjusted masonry or bond values tabulated above and the steel strength values given in Table 3.

¹³Tabulated allowable bond loads must be adjusted for increased in-service base material temperatures in accordance with Figure 1, as applicable.

¹⁴See Figure 5 for illustration of shear load directions.

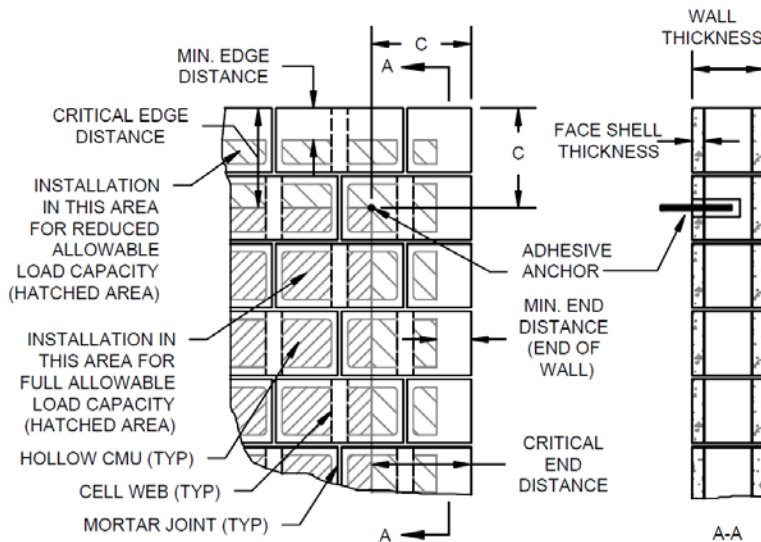


FIGURE 4—ILLUSTRATION OF AC100+ GOLD ADHESIVE ANCHORS INSTALLED INTO HOLLOW CONCRETE MASONRY WALL (WITH SCREEN TUBES)

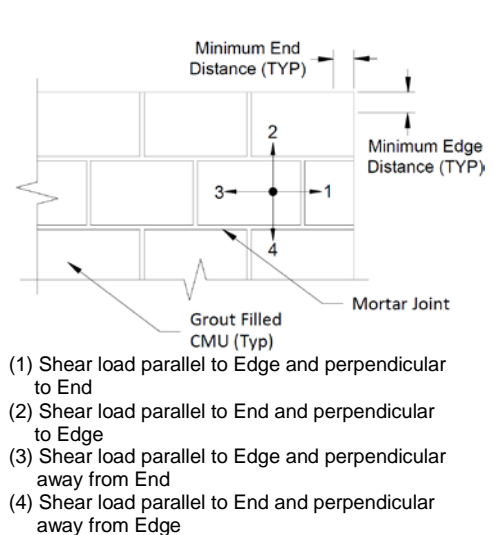
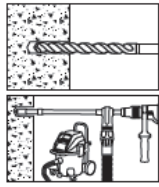


FIGURE 5—DIRECTION OF SHEAR LOADING IN RELATION TO EDGE AND END OF MASONRY WALL

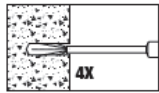
INSTALLATION INSTRUCTIONS (SOLID BASE MATERIALS)

DRILLING

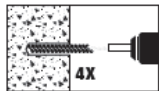


- 1- Drill a hole into the base material with rotary hammer drill (i.e. percussion drill) and a carbide drill bit to the size and embedment required by the selected steel hardware element (reference installation specifications for threaded rod and reinforcing bar). The tolerances of the carbide drill bits, including hollow bits, must meet ANSI Standard B212.15.
 - Precaution: Use suitable eye and skin protection. Avoid inhalation of dust during drilling and/or removal (see dust extraction equipment by DeWALT to minimize dust emission).
 - **Note!** In case of standing water in the drilled hole (flooded hole condition), all the water has to be removed from the hole (e.g. vacuum, compressed air, etc.) prior to cleaning.
- Drilling in dry base material is recommended when using hollow drill bits (vacuum must be on).

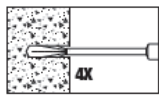
HOLE CLEANING DRY (BLOW 4X, BRUSH 4X, BLOW 4X)



- 2a- Starting from the bottom or back of the anchor hole, blow the hole clean using a compressed air nozzle (min. 90 psi) or a hand pump (supplied by DeWALT) a minimum of four times (4x).
 - Use a compressed air nozzle (min. 90 psi) or a hand pump (min. volume 25 fl. oz.) for anchor rod 3/8" to 3/4" diameter or reinforcing bar (rebar) sizes #3 to #6.
 - Use a compressed air nozzle (min. 90 psi) for anchor rod 7/8" to 1-1/4" diameter and rebar sizes #7 to #10. A hand pump shall not be used with these anchor sizes.



- 2b- Determine wire brush diameter (see installation specifications) and attach the brush with adaptor to a rotary drill tool or battery screwgun. Brush the hole with the selected wire brush a minimum of four times (4x). A brush extension (supplied by DeWALT, Cat. #08282) should be used for holes drilled deeper than the listed brush length.
 - The wire brush diameter should be checked periodically during use. The brush must be replaced if it becomes worn and does not come into contact with the sides of the drilled hole.

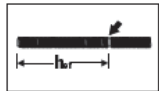


- 2c- Finally, blow the hole clean again a minimum of four times (4x).
 - Use a compressed air nozzle (min. 90 psi) or a hand pump (min. volume 25 fl. oz.) for anchor rod 3/8" to 3/4" diameter or reinforcing bar (rebar) sizes #3 to #6.
 - Use a compressed air nozzle (min. 90 psi) for anchor rod 7/8" to 1-1/4" diameter and rebar sizes #7 to #10. A hand pump shall not be used with these anchor sizes.
 - When finished the hole should be clean and free of dust, debris, ice, grease, oil or other foreign material.

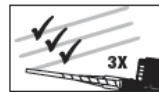
PREPARING



- 3- Check adhesive expiration date on cartridge label. Do not use expired product. Review Safety Data Sheet (SDS) before use. Cartridge temperature must be between 23°F - 95°F (-5°C - 35°C) when in use unless otherwise noted. Review gel (working) and cure time table. Consideration should be given to the reduced gel time of the adhesive in warm temperatures.
 - Attach a supplied mixing nozzle to the cartridge. Do not modify the mixer in any way and make sure the mixing element is inside the nozzle. Load the cartridge into the correct dispensing tool.
 - **Note:** Always use a new mixing nozzle with new cartridges of adhesive and also for all work interruptions exceeding the published working time of the adhesive.

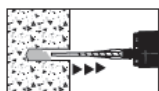


- 4- Prior to inserting the anchor rod or rebar into the filled bore hole, the position of the embedment depth has to be marked on the anchor.
 - Verify anchor element is straight and free of surface damage.



- 5- Adhesive must be properly mixed to achieve published properties. Prior to dispensing adhesive into the drilled hole, separately dispense at least three full strokes of adhesive through the mixing nozzle until the adhesive is a consistent GRAY color. Do not attach a used nozzle when changing to a new cartridge.
 - Review and note the published working and cure times (see gel time and curing time table) prior to injection of the mixed adhesive into the cleaned anchor hole.

INSTALLATION



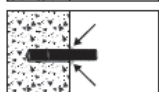
- 6- Fill the cleaned hole half to two-thirds full with mixed adhesive starting from the bottom or back of the anchor hole. Slowly withdraw the mixing nozzle as the hole fills to avoid creating air pockets or voids. For embedment depth greater than 7-1/2" an extension nozzle must be used with the mixing nozzle.
 - Piston plugs (see installation specifications) must be used with and attached to the mixing nozzle and extension tube for horizontal and overhead installations in concrete except with anchor rod 3/8" and rebar size #3. Insert piston plug to the back of the drilled hole and inject as described in the method above. During installation the piston plug will be naturally extruded from the drilled hole by the adhesive pressure.



- **Attention!** Do not install anchors overhead without proper training and installation hardware provided by DeWALT. Contact DeWALT for details prior to use.

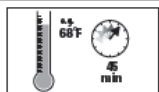


- 7- The anchor should be free of dirt, grease, oil or other foreign material. Push clean threaded rod or reinforcing bar into the anchor hole while turning slightly to ensure positive distribution of the adhesive until the embedment depth is reached. Observe the gel (working) time.



- 8- Be sure that the anchor is fully seated at the bottom of the hole and that some adhesive has flowed from the hole and all around the top of the anchor. If there is not enough adhesive in the hole, the installation must be repeated. The anchor shall not be moved after placement and during cure.

CURING AND LOADING



- 9- Allow the adhesive anchor to cure to the specified full curing time prior to applying any load (reference gel time and curing time table).
 - Do not disturb, torque or load the anchor until it is fully cured.

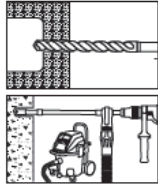


- 10- After full curing of the adhesive anchor, a fixture can be installed to the anchor and tightened up to the maximum torque (reference gel time and curing table) by using a calibrated torque wrench.
 - Take care not to exceed the maximum torque for the selected anchor.

FIGURE 6—AC100+ GOLD ADHESIVE ANCHORS INSTALLED INTO GROUTED CONCRETE MASONRY, MII FOR SOLID BASE MATERIAL

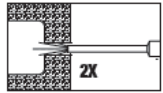
INSTALLATION INSTRUCTIONS (HOLLOW BASE MATERIALS)

DRILLING

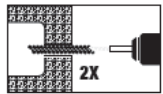


- 1- Drill a hole into the base material with a rotary drill tool to the size and embedment required by the selected screen tube size and steel anchor element (see installation specifications for threaded rod in hollow base material with screen tube supplied by DeWALT). The tolerances of the drill bit, including hollow drill bits, must meet the requirements of ANSI B212.15.
 - Precaution: Wear suitable eye and skin protection. Avoid inhalation of dust during drilling and/or removal (see dust extraction by DeWALT to minimize dust emission).
- Drilling in dry base materials is recommended when using hollow drill bits (vacuum must be on).

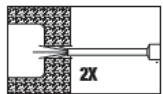
HOLE CLEANING (BLOW 2X, BRUSH 2X, BLOW 2X)



- 2- Starting from the bottom or back of the anchor hole, blow the hole clean with a hand pump (min. volume 25 fl.oz. supplied by DeWALT) or compressed air nozzle a minimum of two times (2x).



- Determine the wire brush diameter (see installation specifications) and attach the brush with adaptor to a rotary drill tool or battery screw gun. Brush the hole with the selected wire brush a minimum of two times (2x). A brush extension (supplied by DeWALT, Cat #08282) should be used for holes drilled deeper than the listed brush length.



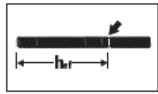
- The wire brush should be checked periodically during use. The brush must be replaced if it becomes worn and does not come in contact with sides of the drill hole.
- Finally, blow the hole clean again a minimum of two times (2x)
- When finished the hole should be clean and free of dust, debris, ice, grease, oil or other foreign material.

PREPARING

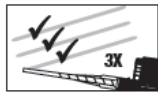


- 3- Check adhesive expiration date on cartridge label. Do not use expired product. Review Safety Data Sheet (SDS) before use. Cartridge temperature must be between 23°F - 95°F (-5°C - 35°C) when in use unless otherwise noted. Review gel (working) time and curing time table. Consideration should be given to the reduced gel (working) time of the adhesive in warm temperatures.

- Attach a supplied mixing nozzle to the cartridge. Do not modify the mixer in any way and make sure the mixing element is inside the nozzle. Load the cartridge into the correct dispensing tool.
- Note: Always use a new mixing nozzle with new cartridges of adhesive and also for all work interruptions exceeding the published working time of the adhesive.



- 4- Prior to inserting the anchor into the filled screen tube, the position of the embedment depth has to be marked on the anchor. Verify anchor element is straight and free of surface damage.



- 5- Adhesive must be properly mixed to achieve published properties. Prior to dispensing adhesive into the drilled hole, separately dispense at least three full strokes of adhesive through the mixing nozzle until the adhesive is a consistent GRAY color. Do not attach a used nozzle when changing to a new cartridge.

- Review and note the published working and cure times (see gel time and curing time table) prior to injection of the mixed adhesive into the screen tube.

INSTALLATION

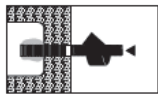


- 6- Select a screen tube of suitable length (supplied by DeWALT). Fill the screen tube full with adhesive starting from the bottom or back of the tube. Slowly withdraw the mixing nozzle as the screen fills to avoid creating air pockets or voids. A plastic extension tube supplied by DeWALT must be used with the mixing nozzle if the back of the screen tube cannot be reached.



- 7- Insert the screen tube filled with adhesive into the cleaned anchor hole. Inject additional adhesive into the screen tube as necessary to ensure the screen tube is completely filled.

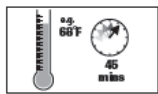
- Note: Overfilling the screen tube is acceptable but not required.



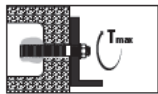
- 8- Prior to inserting the anchor rod into the screen tube inspect it to ensure that it is free of dirt, grease, oil or other foreign material.

- Push the threaded rod into the screen tube while turning slightly to ensure positive distribution of the adhesive until back of the tube is reached.
- Note: In cases where the drilled hole size is larger than specified due to rotary drilling (e.g. an elongated opening), the annular space between the screen tube and the hole at the base material surface must be filled with adhesive.

CURING AND FIXTURE



- 9- Allow the adhesive anchor to cure to the specified full curing time prior to applying any load.
 - Do not disturb, torque or load the anchor until it is fully cured (see gel time and curing time table).



- 10- After full curing of the adhesive anchor, a fixture can be installed to the anchor and tightened up to the maximum torque (see installation specifications for threaded rod in hollow base material) by using a calibrated torque wrench.
 - Take care not to exceed the maximum torque for the selected anchor.

FIGURE 7—AC100+ GOLD ADHESIVE ANCHORS INSTALLED INTO HOLLOW CONCRETE MASONRY, MPII FOR HOLLOW BASE MATERIAL

DIVISION: 04 00 00—MASONRY
Section: 04 05 19.16—Masonry Anchors

REPORT HOLDER:

DEWALT

EVALUATION SUBJECT:

AC100+ GOLD® ADHESIVE ANCHOR SYSTEM IN MASONRY (DEWALT)

1.0 REPORT PURPOSE AND SCOPE**Purpose:**

The purpose of this evaluation report supplement is to indicate that AC100+ Gold adhesive anchor system in masonry, described in ICC-ES evaluation report [ESR-3200](#), has also been evaluated for compliance with the codes noted below as adopted by Los Angeles Department of Building and Safety (LADBS).

Applicable code editions:

- 2020 *City of Los Angeles Building Code* (LABC)
- 2020 *City of Los Angeles Residential Code* (LARC)

2.0 CONCLUSIONS

The AC100+ Gold adhesive anchor system in masonry, described in Sections 2.0 through 7.0 of the evaluation report [ESR-3200](#), complies with LABC Chapter 21 and LARC, and is subjected to the conditions of use described in this supplement.

3.0 CONDITIONS OF USE

The AC100+ Gold adhesive anchor system described in this evaluation report supplement must comply with all of the following conditions:

- All applicable sections in the evaluation report [ESR-3200](#).
- The design, installation, conditions of use and labeling of the anchor system are in accordance with the 2018 *International Building Code*® (IBC) provisions noted in the evaluation report [ESR-3200](#).
- The design, installation and inspection are in accordance with additional requirements of LABC Chapters 16 and 17, as applicable.
- Under the LARC, an engineered design in accordance with LARC Section R301.1.3 must be submitted.
- The allowable and strength design values listed in the evaluation report and tables are for the connection of the anchor system to masonry substrate. The connection between the anchor system and the connected members shall be checked for capacity (which may govern).
- For use in wall anchorage assemblies to flexible diaphragm applications, anchors shall be designed per the requirements of City of Los Angeles Information Bulletin P/BC 2020-071.

This supplement expires concurrently with the evaluation report, reissued December 2021.

DIVISION: 04 00 00—MASONRY
Section: 04 05 19.16—Masonry Anchors

REPORT HOLDER:

DEWALT

EVALUATION SUBJECT:

AC100+ GOLD® ADHESIVE ANCHOR SYSTEM IN MASONRY (DEWALT)

1.0 REPORT PURPOSE AND SCOPE**Purpose:**

The purpose of this evaluation report supplement is to indicate that the AC100+ Gold® Adhesive Anchor System in Masonry, described in ICC-ES evaluation report ESR-3200, has also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2020 *Florida Building Code—Building*
- 2020 *Florida Building Code—Residential*

2.0 CONCLUSIONS

The AC100+ Gold® Adhesive Anchor System in Masonry, described in Sections 2.0 through 7.0 of the evaluation report ESR-3200, complies with the *Florida Building Code—Building* and the *Florida Building Code—Residential*, as applicable, provided the design requirements are determined in accordance with the *Florida Building Code—Building* or the *Florida Building Code—Residential*, as applicable. The installation requirements noted in the ICC-ES evaluation report ESR-3200 for the 2018 *International Building Code*® meet the requirements of the *Florida Building Code—Building* or the *Florida Building Code—Residential*, as applicable.

Use of the AC100+ Gold® Adhesive Anchor System has also been found to be in compliance with the High-Velocity Hurricane Zone provisions of the *Florida Building Code—Building* and the *Florida Building Code—Residential* with the following conditions:

- a) Design and installation must meet the requirements in Section 2122.7 of the *Florida Building Code – Building*.
- b) For anchorage of wood members, the connections subject to uplift must be designed for no less than 700 pounds (3114 N).

For products falling under Florida Rule 61G20-3, verification that the report holder's quality assurance program is audited by a quality assurance entity approved by the Florida Building Commission for the type of inspections being conducted is the responsibility of an approved validation entity (or the code official, when the report holder does not possess an approval by the Commission).

This supplement expires concurrently with the evaluation report, reissued December 2021.