

1. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER-OF-RECORD PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REBAR. HOLES SHALL BE DRILLED AND CLEANED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE SPECIFIED BELOW SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER-OF-RECORD ALONG WITH CALCULATIONS THAT ARE PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERTINENT EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE. PROVIDE CONTINUOUS SPECIAL INSPECTION FOR ALL MECHANICAL AND ADHESIVE ANCHORS PER THE APPLICABLE EVALUATION REPORT. CONTACT MANUFACTURER'S REPRESENTATIVE FOR THE INITIAL TRAINING AND INSTALLATION OF ANCHORS AND FOR PRODUCT RELATED QUESTIONS AND AVAILABILITY. CALL SIMPSON STRONG-TIE AT (800) 999-5099.

a. CONCRETE ANCHORS

- i. **MECHANICAL ANCHORS** SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193 FOR CRACKED AND UNCRACKED CONCRETE RECOGNITION. PRE-APPROVED MECHANICAL ANCHORS INCLUDE:
 - (1) **SIMPSON STRONG-TIE "TITEN-HD" AND "TITEN-HD ROD HANGER" (ICC-ES ESR-2713)**
 - (2) **SIMPSON STRONG-TIE "STRONG-BOLT" (ICC-ES ESR-1771)**
 - (3) **SIMPSON STRONG-TIE "STRONG-BOLT 2" (ICC-ES ESR-3037)**
 - (4) **SIMPSON STRONG-TIE "TORQ-CUT" (ICC-ES ESR-2705)**
- ii. **ADHESIVE ANCHORS** SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308 FOR CRACKED AND UNCRACKED CONCRETE RECOGNITION. PRE-APPROVED ADHESIVE ANCHORS INCLUDE:
 - (1) **SIMPSON STRONG-TIE "SET-XP" (ICC-ES ESR-2508)**
 - (2) **SIMPSON STRONG-TIE "AT-XP" (IAPMO-ES ER-0263)**
- iii. **POWDER AND GAS-ACTUATED FASTENERS** SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC70. PRE-APPROVED POWDER ACTUATED FASTENERS INCLUDE:
 - (1) **SIMPSON STRONG-TIE "POWER-DRIVEN FASTENERS" (ICC-ES ESR-2138)**
 - (2) **SIMPSON STRONG-TIE "GAS-ACTUATED FASTENERS" (ICC-ES ESR-2811)**

b. MASONRY ANCHORS

- i. **ANCHORAGE TO SOLID-GROUTED CONCRETE MASONRY**
 - (1) **MECHANICAL ANCHORS** SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC01 OR AC106. PRE-APPROVED MECHANICAL ANCHORS INCLUDE:
 - (a) **SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-1056)**
 - (b) **SIMPSON STRONG-TIE "STRONG-BOLT 2" (IAPMO-ES ER-0240)**
 - (c) **SIMPSON STRONG-TIE "WEDGE-ALL" (ICC-ES ESR-1396)**
 - (2) **ADHESIVE ANCHORS** SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC58. PRE-APPROVED ADHESIVE ANCHORS INCLUDE:
 - (a) **SIMPSON STRONG-TIE "AT-XP" (IAPMO-ES ER-0281)**
 - (b) **SIMPSON STRONG-TIE "SET-XP" (IAPMO-ES ER-0265)**
- ii. **ANCHORAGE TO HOLLOW CONCRETE MASONRY/UNREINFORCED CLAY BRICK MASONRY**
 - (1) **ADHESIVE ANCHORS WITH SCREEN TUBES** SHALL BE TESTED AND QUALIFIED IN ACCORDANCE WITH ICC-ES AC58 OR AC60, AS APPROPRIATE. THE APPROPRIATE SCREEN TUBE SHALL BE USED AS RECOMMENDED BY THE ADHESIVE MANUFACTURER. PRE-APPROVED ADHESIVE ANCHORS WITH SCREEN TUBES INCLUDE:
 - (a) **SIMPSON STRONG-TIE "SET" (ICC-ES ESR-1772)**
 - (b) **SIMPSON STRONG-TIE "AT" (ICC-ES ESR-1958)**

SIMPSON

Strong-Tie

PROJECT NAME
City, ST

Preferred Vendor
SOUTHWEST
FASTENER LLC
602-272-2658

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