

POST-INSTALLED ANCHORS

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 EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE. CONTACT SIMPSON STRONG-TIE AT (800) 999-5099 FOR PRODUCT RELATED QUESTIONS AND AVAILABILITY.

a. CONCRETE ANCHORS

- i. **MECHANICAL ANCHORS FOR USE IN CRACKED AND UNCRACKED CONCRETE** SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193. PRE-APPROVED MECHANICAL ANCHORS INCLUDE:
 - (1) **SIMPSON STRONG-TIE "STRONG-BOLT" (ICC-ES ESR-1771)**
 - (2) **SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-2713)**
- ii. **ADHESIVE ANCHORS FOR USE IN CRACKED AND UNCRACKED CONCRETE** SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC308. PRE-APPROVED ADHESIVE ANCHORS INCLUDE:
 - (1) **SIMPSON STRONG-TIE "SET-XP" (ICC-ES ESR-2508)**

b. MASONRY ANCHORS

- i. **ANCHORAGE TO SOLID-GROUTED CONCRETE MASONRY**
 - (1) **MECHANICAL AND CONCRETE SCREW ANCHORS FOR USE IN SOLID-GROUTED CONCRETE MASONRY** SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC01 OR AC106, RESPECTIVELY. PRE-APPROVED MECHANICAL AND CONCRETE SCREW ANCHORS INCLUDE:
 - (a) **SIMPSON STRONG-TIE "WEDGE-ALL" (ICC-ES ESR-1396)**
 - (b) **SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-1056)**
 - (2) **ADHESIVE ANCHORS FOR USE IN SOLID-GROUTED CONCRETE MASONRY** SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC58. PRE-APPROVED ADHESIVE ANCHORS INCLUDE:
 - (a) **SIMPSON STRONG-TIE "SET" (ICC-ES ESR-1772)**
 - (b) **SIMPSON STRONG-TIE "ACRYLIC-TIE" (ICC-ES ER-5791)**
- ii. **ANCHORAGE TO HOLLOW CONCRETE MASONRY/UNREINFORCED CLAY BRICK MASONRY**
 - (1) **SCREW ANCHORS FOR USE IN HOLLOW CONCRETE MASONRY** SHALL HAVE BEEN TESTED AND QUALIFIED IN ACCORDANCE WITH ICC-ES AC106. PRE-APPROVED SCREW ANCHORS INCLUDE:
 - (a) **SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-1056)**
 - (2) **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 "ACRYLIC-TIE" (ICC-ES ER-5791)**
 - (c) **SIMPSON STRONG-TIE "ET" (ICC-ES ER-4945)**