

SENERAL NOTES FOR POST -INSTALLED ANCHORS

I)EXCEPT WHERE INDICATED BY HILTI INC. CONTACT H D ON THE DRAWINGS, POST-INSTALLED ANCHORS SHALL CONSIST OF THE FOLLOWING ANCHOR TYPES AS PROVIDED HILTI AT (800) 879-8000 FOR PRODUCT RELATED QUESTIONS.

)ANCHORAGE TO CONCRETE

ADHESME ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:

(1) ADRESMES FOR CRACKED AND UNCRACKED CONCRETE USE:
(2) ADRESMES FOR CRACKED AND UNCRACKED CONCRETE USE:
(3) HILT HIT-H7 200 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT AND VACUUM WITH HAS THREAGED ROD PER ICC-ES (ESR-3187 PER 160 PER ICC-ES ESR-3814 PER 160 PER ICC-ES ESR-3817 PER 160 PER ICC-ES ESR-38187 PER 160 PER ICC-ES ESR-3818 PER 160 PER ICC-ES ESR-38187 PER 160 PER ICC-ES ESR-3814 PER 160 PER ICC-ES ESR-3818 PER 160 PER I

(2) STEEL ELEMENTS F
(a) HILTI HAS-V(b) HILTI HAS-E
(c) HILTI HAS-E
(d) HILTI HAS-R(e) HILTI HAS-R(f) HILTI HAS-R-NITS FOR USE WITH ADHESINE:
S-Y-75 GRADE 36 CARBON STEEL ROD
S-B-105 GRADE 35 CARBON STEEL ROD
S-B-105 GRADE 155 CARBON STEEL ROD
S-R-304 STANLESS STEEL ROD
T-Z-D R HIT-Z-P ROD (WITH HY 200 ONLY)

DES THE FOLLOWING DESIGN PARAMETERS:

ii)BASIS OF DESIGN INCLUI
(1) CRACKED CONCRE
(2) WATER-SATURATEL
(3) BASE MATERIAL TE
(4) ALLOWABLE WITH

EMPERATURE OF 23 TO 104 DEGREES FAHRENHEIT HAMMER-DRILL, HOLLOW DRILL BIT SYSTEM, AND CORE DRILLING METHODS

III) MEDIUM DITY MECHANICAL ANCHORS FOR CRACKED AND INCREAKED CONCRETE USE:

1) HILTI KWM. HUS-EZ (HH-EZ). KH-EZ FORC. KH-EZ SSIG. KH-EZ F. KH-EZ I, AND KH-EZ P SCREW ANCHOR SAFE SET

1) SYSTEM WITH HOLLOW DEILL BIT AND VACULUM EER NCC-ES ESR-3027.

(1) HILTI KWM. BOLI-TIZE EXPANSION ANCHORS SAFE SET SYSTEM WITH HOLLOW DRILL BIT AND VACULUM AND SI-AT-A22 TOOL WITH

ADAPTIVE TIORQUE FOR APPLICABLE SIZES PER NO-MES ESR-4266

(2) HILTI KWM. BOLI T EXPANSION ANCHORS SAFE SET SYSTEM WITH HOLLOW DRILL BIT AND VACUUM AND SI-AT-A22 TOOL WITH ADAPTIVE

TORQUE FOR APPLICABLE SIZES PER NAMO ER-678

IN) HEAVY DUTY MECHANICAL ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:

(1) HLTI HOA UNDERCUT ANCHORS PER ICC-ES ESR-1546

(2) HLTI HSL-3-R EXPANSION ANCHORS PER ICC-ES ESR-1545

(3) HLTI HSL-3-R EXPANSION ANCHORS PER ICC-ES ESR-1545

V)COLD-WEATHER ADHESIVE ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:
(1) HILTI HIT-ICE SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT AND VACUUM

)REBAR DOWELING INTO CONCRETE

) ADHESME ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:

(1) HITL HITLEY 200 SAFE SET SYSTEM WITH HILT HOLLOW DRILL BIT AND VACUUM WITH CONTINUOUSLY DEFORMED REBAR PER ICC-ES
(2) HILTI HIT-PY 500-3 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT AND VACUUM WITH CONTINUOUSLY DEFORMED REBAR PER ICC-ES
(3) HILTI HIT-PE 500-3 SAFE SET SYSTEM WITH HILTI ROUGHENING TOOL (HIT RT) WITH CONTINUOUSLY DEFORMED REBAR PER ICC-ES
(4) HILTI HIT-PE 500-3 SAFE SET SYSTEM WITH HILTI ROUGHENING TOOL (HIT RT) WITH CONTINUOUSLY DEFORMED REBAR PER ICC-ES
(5) HILTI HIT-PE 500-3 SAFE SET SYSTEM WITH HILTI ROUGHENING TOOL (HIT RT) WITH CONTINUOUSLY DEFORMED REBAR PER ICC-ES
(6) SHILTI HIT-PE 500-3 SAFE SET SYSTEM WITH HILTI ROUGHENING TOOL (HIT RT) WITH CONTINUOUSLY DEFORMED REBAR PER ICC-ES
(6) SHILTI HIT-PE 500-3 SAFE SET SYSTEM WITH HILTI ROUGHENING TOOL (HIT RT) WITH CONTINUOUSLY DEFORMED REBAR PER ICC-ES
(6) SHILTI HIT-PE 500-3 SAFE SET SYSTEM WITH HILTI ROUGHENING TOOL (HIT RT) WITH CONTINUOUSLY DEFORMED REBAR PER ICC-ES
(7) SHILTI HIT-PE 500-3 SAFE SET SYSTEM WITH HILTI ROUGHENING TOOL (HIT RT) WITH CONTINUOUSLY DEFORMED REBAR PER ICC-ES
(8) SHILTI HIT-PE 500-3 SAFE SET SYSTEM WITH HILTI ROUGHENING TOOL (HIT RT) WITH CONTINUOUSLY DEFORMED REBAR PER ICC-ES
(9) SHILTI HIT-PE 500-3 SAFE SET SYSTEM WITH HILTI ROUGHENING TOOL (HIT RT) WITH CONTINUOUSLY DEFORMED REBAR PER ICC-ES
(9) SHILTI HIT-PE 500-3 SAFE SET SYSTEM WITH HILTI ROUGHENING TOOL (HIT RT) WITH CONTINUOUSLY DEFORMED REBAR PER ICC-ES
(9) SHILTI HIT-PE 500-3 SAFE SET SYSTEM WITH HILTI ROUGHENING TOOL (HIT RT) WITH CONTINUOUSLY DEFORMED REBAR PER ICC-ES
(9) SHILTI HILTI POUR SHILTI PURCH SHILT

ED CONCRETE

TEMPERATURE 7.3 TO 104 DEGREES FAHRENHEIT

HAMMER-CPILL, HOLLOW DRILL BIT SYSTEM, AND CORE DRILLING METHODS

S REPORT WITH APPROVAL FOR DEVELOPMENT OF BAR USING ACI PROVISIONS FOR EMBEDMENT DEPTHS GREATER THAN

c)ANCHORAGE TO SOLID GROUTED MASONRY

i) ADHESIVE ANCHORS USE:
 (1) HILT HIT-HY 270 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT AND VACUUM PER ICC-ES ESR-4143
 (2) SITEL ANCHOR ELEMENT SHALL BE HILTI HAS-B, HAS-E, HAS-R, HAS-V, HIS-N, HIS-RN CONTINUOUSLY THREADED ROD OR CONTINUOUSLY DEFORMED STEEL REBAR

d)ANCHORAGE TO HOLLOW / MULTI-WYTHE MASONRY

i) ADHESIVE ANCHORS USE
(1) HILTI HIT—HY 270
(2) STEEL ANCHOR EL
(3) THE APPROPRIATE SAET SET SYSTEM WITH HILTI HOLLOW DRILL BIT AND VACUUM PER ICO—ES ISR—ALVO PETOMAD STEEL REBAR BENT SMALL BE HILTI HAS CONTINUOUSLY THEOGRED PRO DO ROUNINUOUSLY DEFORMED STEEL REBAR SIZE SCREEN TUBE SHALL BE USED PER ADHESVE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS

ZANCHOR CAPACHTY USED IN DESCIN SHALL BE BASED ON THE TECHNICAL DATA PUBLISHED BY HIIT OR OTHER SUCH METHOD AS APPROVED BY THE STRUCTURAL PLONNERS OF RECORD VEISITITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE STRUCTURAL KNOINER OF RECORD PRIOR TO USE CONTRACTOR SHALL PROVIDE CALCULATIONS THAT HAVE BEEN SEALED BY ANOTHER LICENSED BY ANOTHER DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF MESTROMANCE OF THE SPECIFIED PRODUCT, SUBSTITUTIONS WILL BE CALLUATED BY THER HAVING AN ICC-ES ESS SHOWING COMPLANCE WITH THE RELEVANT BUILDING CODE FOR SEISMIC USES, LOAD RESISTANCE, INSTALLATION VARIEDGY, AND AVAILABILITY OF COMPREHENSIVE INSTALLATION WITH THE RELEVANT BUILDING CODE FOR SEISMIC USES, LOAD RESISTANCE, INSTALLATION VARIEDGY, AND AVAILABILITY OF COMPREHENSIVE INSTALLATION WITH STRUCTIONS. ADMENSIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE, INSTALLATION TEMPERATURE, MOISTURE CONDITION OF CONCRETE, AND OBULTING METHODS:

SUSE OF DIAMOND CORE BIT WITH ROUGHENING TOOL FOR ANCHOR HOLES REQUIRES APPROVAL FROM ENGINEER OF RECORD PRIOR TO DRILLING. UNLESS OTHERWISE SHOWN IN THE DRAWINGS, ALL HOLES SHALL BE DRILLED PERPENDICULAR TO THE CONCRETE SURFACE.

4)NSTALL ANCHORS PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING

SOVERHEAD ADHESIVE ANCHORS MUST BE INSTALLED USING THE HILTI HIT-SZ PISTON PLUG SYSTEM.

6)ANCHOR INSTALLER CERTIFICATION IS REQUIRED FOR ALL INSTALLERS OF ADHESIVE ANCHORS IN HORIZONTAL OR UPWARDLY INCLINED ORBITATION, THE HILTI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROCESAM (PAACE) SHALL BE CONSIDERED AN ACCEPTABLE TRAVING FOR ORBITATION, THE HILTI ADHESIVE ANCHOR INSTALLERS CENTRALING FOR PACIFICATION OF THE STRUCTURAL TRAVING FOR PACIFICATION OF THE STRUCTURAL TRAVING FOR SHALLERS ANCHOR INSTALLERS TRAVING.

THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTANCE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL ANCHOR PRODUCTS SPECIFED THE STRUCTURAL BUSINEER OF RECORD MISTALLED RECORD DOCUMENTED CONFIRMATION THAT ALL PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF ANCHOR INSTALLATION.

)ANCHOR CAPACITY IS DEPENDENT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE, INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.

INSTAING REINFORCING BARS IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. UNLESS NOTED ON THE DAXMINGS THAT THE BARS CAN BE CUIT, THE CONTRACTOR SHALL REVIEW THE EXISTING STRUCTURAL DEAWNINGS AND SHALL UNDERTAKE TO DOCATE THE POSTION OF THE REINFORCING BARS AT THE LOCATIONS OF THE CONCRETE ANCHORS BY HILTI PS 1000 OR OTHER GPR, X-RAY, SHIPPING OR OTHER APPROVED MEANS.

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