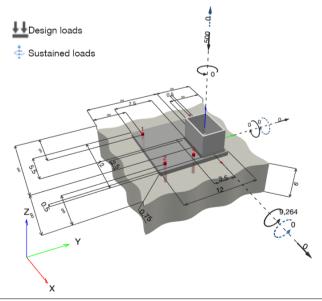


Hilti PROFIS Engineering 3.0.85

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Company:		Page:	1
Address: Phone I Fax:	1	Specifier: E-Mail:	
Design:	I Concrete - Jun 22, 2023	Date:	6/22/2023
Fastening point:	·····, -···		
Specifier's comments:			
1 Anchor Design			
1.1 Input data		4	
Anchor type and diameter:	HIT-HY 200 V3 + HIT-Z 1/2		
Item number:	2018443 HIT-Z 1/2" x 4 1/2" (200-R V3 (adhesive)	element) / 2334276 HIT-HY	Are Hold and Are good a
Effective embedment depth:	$h_{ef,opti} = 2.750$ in. ($h_{ef,limit} = 3.75$	50 in.)	
Material:	DIN EN ISO 4042		
Evaluation Service Report:	ESR-4868		
Issued I Valid:	11/1/2022 11/1/2024		
Proof:	Design Method ACI 318-19 /	Chem	
Stand-off installation:	e _b = 0.000 in. (no stand-off); t	= 0.750 in.	
Anchor plate ^{CBFEM} :	I _x x I _y x t = 12.000 in. x 12.000 in. x 0.750 in.;		
Profile:	Rectangular HSS (AISC), HS	S6X4X.250; (L x W x T) = 6.000 in. x 4.000 in. :	x 0.250 in.
Base material:	cracked concrete, 2500, f_c ' = 2	2,500 psi; h = 6.000 in., Temp. short/long: 32/3	2 °F
Installation:	hammer drilled hole, Install	ation condition: Dry	
Reinforcement:	tension: not present, shear: n	ot present; no supplemental splitting reinforcen	nent present
	edge reinforcement: none or <	< No. 4 bar	

^{CBFEM} - The anchor calculation is based on a component-based Finite Element Method (CBFEM)

Geometry [in.] & Loading [lb, in.lb]



Input data and results must be checked for conformity with the existing conditions and for plausibility! PROFIS Engineering (c) 2003-2023 Hilti AG, FL-9494 Schaan Hilti is a registered Trademark of Hilti AG, Schaan



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Company:		Page:	8
Address:		Specifier:	
Phone I Fax:		E-Mail:	0,00,0000
Design: Fastening point:	Concrete - Jun 22, 2023	Date:	6/22/2023
1.7 Installation data			
		Anchor type and diameter: HIT-HY 200 V3 + HIT-Z 1/2	
Profile: Rectangular HSS (AISC), HSS6X4X.250; (L x W x T) = 6.000 in. x		Item number: 2018443 HIT-Z 1/2" x 4 1/2" (element) /	
4.000 in. x 0.250 in.		2334276 HIT-HY 200-R V3 (adhesive)	
Hole diameter in the fixture (pre-setting) : $d_f = 0.562$ in.		Maximum installation torque: 354 in.lb	
Hole diameter in the fixture (through fastening) : $d_f = 0.625$ in.		Hole diameter in the base material: 0.562 in.	
Plate thickness (input): 0.750 in.		Hole depth in the base material: 3.750 in.	
		Minimum thickness of the base	material: 5.000 in.
Drilling method: Ham	mer drilled		

Cleaning: Compressed air cleaning of the drilled hole according to instructions for use is required

1/2 Hilti HIT-Z Carbon steel non-cleaning bonded expansion anchor with Hilti HIT-HY 200 V3 Safe Set System

1.7.1 Recommended accessories

