

INSTALLATION WITH TWO OR THREE CVGR LEVER SPIGOTS



Wood Deck Installation

We suggest using 3/8" diameter x 3.5" ASTM A307 Grade A structural bolts and flat washer. ASTM A307 Grade A structural bolts and washer should be cadmium plated or stainless steel so they do not rust.

Notice white

foam pieces

used as

wedges

White foam piece

is used as wedge to

leepSpigot Lever in

"Up"position when

installing glass panel

Lag bolts must be installed into rim joists or lam beam or properly blocked sub structure. If lag bolts are attached to deck planks only failure will occur as a result of improper installation. Improper installation and failure may result in injuries or death. Do it once and do it right!

Installation of Spigots Using Wood Planks

Installation of ClearView Glass Railings[®] Spigots to wood planks are fine as long as you use three 2" x10"s. You must tie the three plies of wood together with (4) #8 4" wood screws, located 3" from spigot screws.

More installation information including additional fastener product recommendation listed on next page. Product Specifications included as well.



2.63"

© 2023 ClearView Glass Railings, CVG and Hercules Glass are registered trademarks of ClearView Glass Railings, LLC. The window pane border image in the CVG logo is a common law trademark of ClearView Glass railings, LLC.



Fastener Recommendation (Fasteners by others)

We recommend RSS Rugged Structural Screws by GRK Fasteners (product image shown).

This product is available at Home Depot:

- Internet #203525067
- Model #112225
- Store SKU #518167

Installation Tips

• Mark spigot location on glass panels with a crayon or wax marker. This allows for fast and easier installation of panel in proper location.

VERY IMPORTANT

- Apply a bit of lubricant (petroleum jelly) to the inside of the spigot's black plastic boot where the boot meets the glass. The application of lubrication prevents the spigot's black plastic boot from grabbing the glass panel should you slide/move the glass to adjust its position while in the spigots.
- Once glass is in place, you can check for fit by pulling up on glass panel. If glass is not tight in Lever Spigot with lever closed, open lever and install the 0.2mm shim (provided) between the plastic boot and the inside of the Lever Spigot. DO NOT PLACE SHIM AGAINST GLASS PANEL.
- Do not attempt to slide the glass panel while it is in the spigot if there is no lubricant on the black plastic spigot boot as the glass panel may stick and fail.
- If no lubrication is applied to the spigot boot, you must lift the glass panel out of the spigot, adjust its position as desired and then lower the glass panel back into the spigot.

GENERAL NOTES:

1. THIS GUARDRAIL SYSTEM IS IN COMPLIANCE WITH THE 2014 AND 2017 INTERNATIONAL BUILDING CODE (IBC) SECTION 1607.8. IT IS ALSO IN AC-CORDANCE WITH 2015 IBC SECTION 2407 THAT REQUIRES ALL-GLASS HANDRAILS AND GUARDS BE "LAMINATED GLASS CONSTRUCTED OF FULLY TEMPERED OR HEAT-TREATED GLASS". 2. CONNECTION TO DECK SHOWN (4) 3/8" LAG BOLTS THROUGH DECK TO (3) 2X10 BOARDS, MEETS IBC DECK REQUIREMENTS FOR A 200 POUND POINT LOAD OR 50 POUND LINE LOAD AT ANY PLACE ON PANEL. LOADING TO BE EITHER VERTICAL OR HORI-ZONTAL BUT NOT SIMULTANEOUS. 3. WHEN THREE SPIGOTS ARE USED, THIS PRODUCT COMPLIES WITH THE REQUIREMENTS FOR HIGH VELOCITY HURRICANE ZONES (HVHZ). 4. SPIGOTS TO BE 316 STAINLESS STEEL. 5. CONNECTION TO BUILDING VARIES BY PROJECT, TO BE DESIGNED BY PROJECT ENGINEER. 6. THE ABILITY OF THE EXISTING HOST STRUCTURE TO SAFELY SUPPORT THE LOADS SHALL BE DETERMINED BY THE PROJECT ENGINEER. 7. MECHANICAL FASTENERS, AS SHOWN 8. FASTENERS BY OTHERS.

Specifications



CVGR Lever Spigot Attachment to Wood Deck (additional instructions)



GENERAL NOTES:

- CONNECTION TO DECK SHOWN (4) 3/8" LAG BOLTS THROUGH DECK TO (3) 2X10 BOARDS, MEETS IBC DECK REQUIREMENTS FOR A 200 POUND POINT LOAD OR 50 POUND LINE LOAD AT ANY PLACE ON PANEL. LOADING TO BE EITHER VERTICAL OR HORIZONTAL BUT NOT SIMULTANEOUS. FASTENERS BY OTHERS.
- WHEN THREE SPIGOTS ARE USED, THIS PRODUCT COMPLIES WITH THE REQUIREMENTS FOR HIGH VELOCITY HURRICANE ZONES (HVHZ).
- 3. SPIGOTS TO BE DUPLEX 2205 STAINLESS STEEL.
- CONNECTION TO STRUCTURE VARIES BY PROJECT. THE ABILITY OF THE EXISTING HOST STRUCTURE TO SAFELY SUPPORT THE LOADS SHALL BE DETERMINED BY THE PROJECT ENGINEER.
 - 5. MECHANICAL FASTENERS, AS SHOWN.
- 6. FASTENERS BY OTHERS.

Part Number CVGR Duplex 2205 Stainless Steel Satin Finic Product Name Round Deck Mount Spigot Size 1.9" diameter x 7.1" tall Spigot Weight 5.5 pounds Glass Thickness/ 39.37" tall/ 105 pounds One or Smight 39.37" tall/ 105 pounds Accessories Base Cover, Plastic and Accessories Metal Spigot Boot, Included One 0.2mm Metal Shim		
Product NameRound Deck MountSpigotSpigotSpigot Size1.9" diameter x 7.1" tallSpigot Weight5.5 poundsGlass Thickness/ Dimensions/Weight39.37" tall/ 105 poundsOper panel39.37" tall/ 105 poundsAccessoriesBase Cover, Plastic and Metal Spigot Boot, One 0.2mm Metal Shim	Part Number	CVGR Duplex 2205 Stainless Steel Satin Finish
Spigot Size1.9" diameter x 7.1" tallSpigot Weight5.5 poundsS.5 pounds1.3.1 mm/60" wide xDimensions/Weight39.37" tall/ 105 pounds(per panel39.37" tall/ 105 poundsAccessoriesBase Cover, Plastic andIncludedMetal Spigot Boot, One 0.2mm Metal Shim	Product Name	Round Deck Mount Spigot
Spigot Weight 5.5 pounds Glass Thickness/ Dimensions/Weight 5.3 pounds Dimensions/Weight 13.1 mm/60" wide x Jass Thickness/ Dimensions/Weight 39.37" tall/ 105 pounds Accessories Base Cover, Plastic and Metal Spigot Boot, One 0.2mm Metal Shim	Spigot Size	1.9" diameter x 7.1" tall
Glass Thickness/ Dimensions/Weight 13.1 mm/60" wide x Dimensions/Weight 39.37" tall/ 105 pounds (per panel 39.37" tall/ 105 pounds Accessories Base Cover, Plastic and Metal Spigot Boot, One 0.2mm Metal Shim	Spigot Weight	5.5 pounds
Accessories Base Cover, Plastic and Included Metal Spigot Boot, One 0.2mm Metal Shim	Glass Thickness/ Dimensions/Weight (per panel	13.1 mm/60" wide x 39.37" tall/ 105 pounds
	Accessories Included	Base Cover, Plastic and Metal Spigot Boot, One 0.2mm Metal Shim



Instructions for Shim Removal from Lever Spigot



Determine if there is a shim in the Lever Spigot insert.



Pull the shim away from the Lever Spigot insert.



Remove the shim from the Lever Spigot insert and set aside.

Recently it has come to our attention that the manufacturer of our Lever Spigot mistakenly adhered a optional shim to the inside of the Lever Spigot insert

Sometimes this shim is not needed. Please see the directions to the left to remove the shim (if not needed) and how to cover the sticky residue that remains. The exposed sticky residue makes it difficult to insert your glass panel into the Lever Spigot insert.

Thank you very much for choosing ClearView Glass Railings for your home. Enjoy the view!



Get a piece of paper.



Set piece of paper inside the Lever Spigot insert to cover the sticky residue.



Cut around the insert to remove extra paper.



Sticky residue is covered and the Lever Spigot insert is now ready for use.



Lever Spigot with shim insert. Shim the opening is approximately 12.9mm.



Lever Spigot without shim insert. Shim the opening is approximately 13.9mm.

© 2023 ClearView Glass Railings, Patent pending. CVG and Hercules Glass are registered trademarks of ClearView Glass Railings, LLC. The window pane border image in the CVG logo is a common law trademark of ClearView Glass railings, LLC.



CONCRETE INSTALLATION



A

Make a wood jig to correct location of spigot holes. Make sure holes line up with desired spigot/glass panel alignment.







B

Drill holes in concrete using wood jig. Remove jig and confirm depth of each hole.



Е

D

Confirm all spigots are in alignment and level.



C

Clean debris from every hole. Install studs per stud manufacturer instructions.



F

Confirm each panel's spigots are in alignment and properly spaced. Tighten all nuts. Install beauty ring. Install glass panel.

John,

CVGRailings spigot baseplate is about 4" diameter. With this, I have come up with the following:

I am specifying an adhesive anchor system by HILTI: 3/8" diameter HIT-Z anchor, with their HY200-R adhesive. Effective embedment = 2 3/8". HILTI has many anchors and it is important that they use this exact anchor. I have attached the HILTI report that describes this design. It is important that they closely follow the installation steps, especially the hole preparation: the most common failure mechanism is a lack of bond between the adhesive and the concrete because the installer did not remove all dust within the hole before injecting the adhesive. A lack of correct preparation will void these calculations and HILTI's support of their anchor. This is important.

This design assumes a 3.15" spacing between anchors, into a concrete slab. Anchors to be at least 6" from all embedded PT cables and from the edge of the concrete slab. The location of the cables to be determined by others.

Note that the loads shown in the report come from my computer modeling of a 200 pound/ft (plf) horizontal line load applied to the top of the 42" tall panel. As a reminder, the IBC requires guardrails be designed to resist a 50 plf horizontal line load @ the top of the panel; the code has increased this by a factor of 4 for all-glass panels such as yours, hence, the 200 plf.

You should be able to forward this directly to the installer of the PT deck. They can order the anchor and adhesive directly from HILTI through their website if they don't have a local rep (Home Depot carries HILTI products).

Best regards,

Chris



Chris Hartnett, PE*, LEED AP Principal Engineer *MN, WI <u>chartnett@amengtest.com</u> D: 651.647-2750 | C: 612.503-0048 550 Cleveland Avenue North St. Paul, MN 55114



www.hilti.com			
Company: Address:		Page: Specifier:	1
Phone I Fax:		E-Mail:	
Design: C	Concrete - Apr 5, 2021	Date:	4/5/2021
Fastening point:			
Specifier's comments:			
1 Input data		а ныт	.
Anchor type and diameter:	HIT-HY 200 + HIT-Z 3/8		
Item number:	2018440 HIT-Z 3/8" x 4 3/8" (200-R (adhesive)	element) / 2022793 HIT-HY	
Effective embedment depth:	$h_{ef,opti}$ = 2.375 in. ($h_{ef,limit}$ = 4.5	00 in.)	
Material:	DIN EN ISO 4042		
Evaluation Service Report:	ESR-3187		
Issued I Valid:	4/1/2020 3/1/2022		
Proof:	Design Method ACI 318-08 /	Chem	
Stand-off installation:	e _b = 0.000 in. (no stand-off); t	= 0.500 in.	
Anchor plate ^R :	$l_x \ge l_y \ge t = 6.000$ in. ≥ 6.000 in	. x 0.500 in.; (Recommended plate thickness: no	ot calculated)
Profile:	Round bars (AISC), 2 1/2; (L	x W x T) = 2.500 in. x 2.500 in.	
Base material:	cracked concrete, 4000, $f_c' = 4$	4,000 psi; h = 8.000 in., Temp. short/long: 32/32	°F
Installation:	hammer drilled hole, Install	ation condition: Dry	
Reinforcement:	tension: condition B, shear: co	ondition B; no supplemental splitting reinforceme	ent present
	edge reinforcement: none or	< No. 4 bar	
Seismic loads (cat. C, D, E, or F	=) no		

Seismic loads (cat. C, D, E, or F)

 $^{\rm R}$ - The anchor calculation is based on a rigid anchor plate assumption.

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) 2003-2021 Hilti AG, FL-9494 Schaan Hilti is a registered Trademark of Hilti AG, Schaan



www.hilti.com				
Company:		Page:		2
Address:		Specifier:		
Phone I Fax:		E-Mail:		
Design:	Concrete - Apr 5, 2021	Date:		4/5/2021
Fastening point:				
1.1 Design result	ts			
Case	Description	Forces [lb] / Moments [in.lb]	Seismic	Max. Util. Anchor [%]
1	Combination 1	N = 0; V _x = -460; V _y = 0;	no	51
		$M_x = 0; M_y = 7,800; M_z = 0;$		
		$N_{sus} = 0; M_{x,sus} = 0; M_{y,sus} = 0;$		

2 Load case/Resulting anchor forces

resulting tension force in (x/y)=(-1.329/0.000):

resulting compression force in (x/y)=(2.622/0.000): 1,974 [lb]

Anchor	Tension force	Shear force	Shear force x	Shear force y
1	910	115	-115	0
2	77	115	-115	0
3	910	115	-115	0
4	77	115	-115	0
max. concrete c max. concrete c	ompressive strain: ompressive stress:	0 5	0.13 [‰] i80 [psi]	



Anchor forces are calculated based on the assumption of a rigid anchor plate.

1,974 [lb]

3 Tension load

	Load N _{ua} [lb]	Capacity 🍳 N _n [lb]	Utilization $\beta_N = N_{ua} / \Phi N_n$	Status	
Steel Strength*	910	4,749	20	OK	_
Pullout Strength*	910	5,169	18	OK	
Sustained Tension Load Bond Strength*	N/A	N/A	N/A	N/A	
Concrete Breakout Failure**	1,974	3,874	51	OK	

* highest loaded anchor **anchor group (anchors in tension)



www.hilti.com

Company:		Page:	3
Address:		Specifier:	
Phone I Fax:		E-Mail:	
Design:	Concrete - Apr 5, 2021	Date:	4/5/2021
Fastening point:			

3.1 Steel Strength

N _{sa}	= ESR value	refer to ICC-ES ESR-3187
φ N _{sa}	$n \ge N_{ua}$	ACI 318-08 Eq. (D-1)

Variables

A _{se,N} [in. ²]	f _{uta} [psi]
0.08	94,200

Calculations

N_{sa} [lb] 7,306

Results

N _{sa} [lb]	φ _{steel}	φ N _{sa} [lb]	N _{ua} [lb]
7,306	0.650	4,749	910

3.2 Pullout Strength

N _{pn}	= N _p	refer to ICC-ES ESR-3187
φ Ν _{pn}	$\geq N_{ua}$	ACI 318-08 Eq. (D-1)

Variables

N_p [lb] 7,952

Calculations

-

Results

N _{pn} [lb]	∲ _{concrete}	φ N _{pn} [lb]	N _{ua} [lb]
7,952	0.650	5,169	910



www.hilti.com

Company:		Page:	4
Address:		Specifier:	
Phone I Fax:		E-Mail:	
Design:	Concrete - Apr 5, 2021	Date:	4/5/2021
Fastening point:			

3.3 Concrete Breakout Failure

N _{cbg}	$= \begin{pmatrix} A_{Nc} \\ \overline{A_{NcO}} \end{pmatrix} \Psi_{ec,N} \Psi_{ed,N} \Psi_{c,N} \Psi_{cp,N} N_{b}$	ACI 318-08 Eq. (D-5)
φ N _{cbg}	≥ N _{ua}	ACI 318-08 Eq. (D-1)
A _{Nc}	see ACI 318-08, Part D.5.2.1, Fig. RD.5.2.1(b)	
$A_{\rm Nc0}$	= 9 h _{ef} ²	ACI 318-08 Eq. (D-6)
$\psi_{\text{ec,N}}$	$= \left(\frac{1}{1 + \frac{2 e_{N}}{3 h_{ef}}}\right) \leq 1.0$	ACI 318-08 Eq. (D-9)
$\psi_{\text{ed},\text{N}}$	$= 0.7 + 0.3 \left(\frac{c_{a,min}}{1.5h_{ef}} \right) \le 1.0$	ACI 318-08 Eq. (D-11)
$\psi_{\text{ cp},\text{N}}$	$= MAX \left(\frac{c_{a,min}}{c_{ac}}, \frac{1.5h_{ef}}{c_{ac}} \right) \le 1.0$	ACI 318-08 Eq. (D-13)
N _b	$= k_c \lambda \sqrt{f_c} h_{ef}^{1.5}$	ACI 318-08 Eq. (D-7)

Variables

h _{ef} [in.]	e _{c1,N} [in.]	e _{c2,N} [in.]	c _{a,min} [in.]	$\Psi_{c,N}$
2.375	1.329	0.000	00	1.000
c _{ac} [in.]	k _c	λ	ŕ _c [psi]	
3.563	17	1	4,000	

Calculations

A _{Nc} [in. ²]	A _{Nc0} [in. ²]	$\psi_{\text{ ec1},N}$	$\psi_{ec2,N}$	$\psi_{\text{ed},\text{N}}$	$\psi_{\text{cp},\text{N}}$	N _b [lb]
105.58	50.77	0.728	1.000	1.000	1.000	3,935
Results						
N _{cbg} [lb]	ϕ_{concrete}	φ N _{cbg} [lb]	N _{ua} [lb]			
5,960	0.650	3,874	1,974	-		



www.hilti.con	n
---------------	---

		D	
Company:		Page:	5
Address:		Specifier:	
Phone I Fax:		E-Mail:	
Design: Fastening point:	Concrete - Apr 5, 2021	Date:	4/5/2021

4 Shear load

	Load V _{ua} [lb]	Capacity ¢ V _n [lb]	Utilization $\beta_{\rm V} = V_{\rm ua} / \Phi V_{\rm n}$	Status
Steel Strength*	115	1,929	6	OK
Steel failure (with lever arm)*	N/A	N/A	N/A	N/A
Pryout Strength (Concrete Breakout Strength controls)**	460	5,729	9	OK
Concrete edge failure in direction **	N/A	N/A	N/A	N/A

* highest loaded anchor **anchor group (relevant anchors)

4.1 Steel Strength

V_{sa}	= ESR value	refer to ICC-ES ESR-3187
φ V _{steel}	$\geq V_{ua}$	ACI 318-08 Eq. (D-2)

Variables

A _{se,V} [in. ²]	f _{uta} [psi]	$\alpha_{\rm V,seis}$
0.08	94,200	1.000

Calculations

V_{sa} [lb] 3,215

Results

V _{sa} [lb]	ф _{steel}	φ V _{sa} [lb]	V _{ua} [lb]
3,215	0.600	1,929	115



www.hilti.com

	Page:	6
	Specifier:	
	E-Mail:	
Concrete - Apr 5, 2021	Date:	4/5/2021
	 Concrete - Apr 5, 2021	Page: Specifier: E-Mail: Concrete - Apr 5, 2021 Date:

4.2 Pryout Strength (Concrete Breakout Strength controls)

V_{cpg}	$= k_{cp} \left[\left(\frac{A_{Nc}}{A_{Nc}} \right) \psi_{ec,N} \psi_{ed,N} \psi_{c,N} \psi_{cp,N} N_{b} \right]$	ACI 318-08 Eq. (D-31)
ϕV_{cpg}	≥ V _{ua}	ACI 318-08 Eq. (D-2)
A _{Nc}	see ACI 318-08, Part D.5.2.1, Fig. RD.5.2.1(b)	
A _{Nc0}	= 9 h _{ef} ²	ACI 318-08 Eq. (D-6)
$\psi_{\text{ec,N}}$	$= \left(\frac{1}{1 + \frac{2 e_{N}}{3 h_{ef}}}\right) \leq 1.0$	ACI 318-08 Eq. (D-9)
$\psi_{\text{ed},\text{N}}$	$= 0.7 + 0.3 \left(\frac{c_{a,min}}{1.5h_{ef}} \right) \le 1.0$	ACI 318-08 Eq. (D-11)
$\psi_{\text{ cp},\text{N}}$	$= MAX\left(\frac{c_{a,min}}{c_{ac}}, \frac{1.5h_{ef}}{c_{ac}}\right) \le 1.0$	ACI 318-08 Eq. (D-13)
N _b	$= k_c \lambda \sqrt{f_c} h_{ef}^{1.5}$	ACI 318-08 Eq. (D-7)

Variables

k _{cp}	h _{ef} [in.]	e _{c1,N} [in.]	e _{c2,N} [in.]	c _{a,min} [in.]
1	2.375	0.000	0.000	~
				ć r n
$\Psi_{c,N}$	c _{ac} [in.]	К _с	λ	f _c [psi]
1.000	3.563	17	1	4.000

Calculations

A _{Nc} [in. ²]	A _{Nc0} [in. ²]	$\Psi_{\text{ec1,N}}$	$\psi_{\text{ec2,N}}$	$\psi_{\text{ed},\text{N}}$	$\Psi_{\text{cp},\text{N}}$	N _b [lb]
105.58	50.77	1.000	1.000	1.000	1.000	3,935
Results						
V _{cpg} [lb]	ϕ_{concrete}	φ V _{cpg} [lb]	V _{ua} [lb]			
8,184	0.700	5,729	460	-		

5 Combined tension and shear loads

β _N	β_V	ζ	Utilization $\beta_{N,V}$ [%]	Status
0.510	0.080	5/3	35	OK

 $\beta_{\mathsf{NV}} = \beta_{\mathsf{N}}^{\zeta} + \beta_{\mathsf{V}}^{\zeta} <= 1$

Input data and results must be checked for conformity with the existing conditions and for plausibility! PROFIS Engineering (c) 2003-2021 Hilti AG, FL-9494 Schaan Hilti is a registered Trademark of Hilti AG, Schaan



www.hilti.com			
Company:		Page:	7
Address:		Specifier:	
Phone I Fax:		E-Mail:	
Design:	Concrete - Apr 5, 2021	Date:	4/5/2021
Fastening point:			

6 Warnings

- The anchor design methods in PROFIS Engineering require rigid anchor plates per current regulations (AS 5216:2018, ETAG 001/Annex C, EOTA TR029 etc.). This means load re-distribution on the anchors due to elastic deformations of the anchor plate are not considered - the anchor plate is assumed to be sufficiently stiff, in order not to be deformed when subjected to the design loading. PROFIS Engineering calculates the minimum required anchor plate thickness with CBFEM to limit the stress of the anchor plate based on the assumptions explained above. The proof if the rigid anchor plate assumption is valid is not carried out by PROFIS Engineering. Input data and results must be checked for agreement with the existing conditions and for plausibility!
- Condition A applies where the potential concrete failure surfaces are crossed by supplementary reinforcement proportioned to tie the potential concrete failure prism into the structural member. Condition B applies where such supplementary reinforcement is not provided, or where pullout or pryout strength governs.
- Design Strengths of adhesive anchor systems are influenced by the cleaning method. Refer to the INSTRUCTIONS FOR USE given in the Evaluation Service Report for cleaning and installation instructions.
- The present version of the software does not account for special design provisions for overhead applications. Refer to related approval (e.g. section 4.1.1 of the ICC-ESR 2322) for details.
- For additional information about ACI 318 strength design provisions, please go to https://submittals.us.hilti.com/PROFISAnchorDesignGuide/

Fastening meets the design criteria!



www.hilti.com			
Company: Address: Phone I Fax:		Page: Specifier: E-Mail:	8
Design: Fastening point:	Concrete - Apr 5, 2021	Date:	4/5/2021
7 Installation da	ata		
Profile: Round bars (AISC), 2 1/2; (L x W x T) = 2.500 in. x 2.500 in.		Anchor type and diameter: HIT-HY 200 + HIT-Z 3/8 Item number: 2018440 HIT-Z 3/8" x 4 3/8" (element) / 2022793 HIT-HY 200-R (adhesive)	
Hole diameter in the fixture (pre-setting) : d _f = 0.438 in.		Maximum installation torque: 177 in.lb	
Hole diameter in the fixture (through fastening) : d _f = 0.500 in.		Hole diameter in the base material: 0.438 in.	
Plate thickness (input): 0.500 in.		Hole depth in the base material: 2.375 in.	
Recommended plate thickness: not calculated		Minimum thickness of the base material: 4.625 in.	

Drilling method: Hammer drilled

Cleaning: Compressed air cleaning of the drilled hole according to instructions

for use is required

3/8 Hilti HIT-Z Carbon steel non-cleaning bonded expansion anchor with Hilti HIT-HY 200 Safe Set System

7.1 Recommended accessories

Drilling	Cleaning	Setting
Suitable Rotary Hammer	• -	Dispenser including cassette and mixer
 Properly sized drill bit 		Torque wrench



Coordinates Anchor [in.]

Anchor	x	У	C _{-x}	c+x	c_y	c _{+y}
1	-1.575	-1.575	-	-	-	-
2	1.575	-1.575	-	-	-	-
3	-1.575	1.575	-	-	-	-
4	1.575	1.575	-	-	-	-

Input data and results must be checked for conformity with the existing conditions and for plausibility! PROFIS Engineering (c) 2003-2021 Hilti AG, FL-9494 Schaan Hilti is a registered Trademark of Hilti AG, Schaan



www.hilti.com			
Company:		Page:	9
Address:		Specifier:	
Phone I Fax:		E-Mail:	
Design:	Concrete - Apr 5, 2021	Date:	4/5/2021
Fastening point:			

8 Remarks; Your Cooperation Duties

- Any and all information and data contained in the Software concern solely the use of Hilti products and are based on the principles, formulas and security regulations in accordance with Hilti's technical directions and operating, mounting and assembly instructions, etc., that must be strictly complied with by the user. All figures contained therein are average figures, and therefore use-specific tests are to be conducted prior to using the relevant Hilti product. The results of the calculations carried out by means of the Software are based essentially on the data you put in. Therefore, you bear the sole responsibility for the absence of errors, the completeness and the relevance of the data to be put in by you. Moreover, you bear sole responsibility for having the results of the calculation checked and cleared by an expert, particularly with regard to compliance with applicable norms and permits, prior to using them for your specific facility. The Software serves only as an aid to interpret norms and permits without any guarantee as to the absence of errors, the correctness and the relevance of the results or suitability for a specific application.
- You must take all necessary and reasonable steps to prevent or limit damage caused by the Software. In particular, you must arrange for the
 regular backup of programs and data and, if applicable, carry out the updates of the Software offered by Hilti on a regular basis. If you do not use
 the AutoUpdate function of the Software, you must ensure that you are using the current and thus up-to-date version of the Software in each
 case by carrying out manual updates via the Hilti Website. Hilti will not be liable for consequences, such as the recovery of lost or damaged data
 or programs, arising from a culpable breach of duty by you.