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Company:	Bedford Reinforced Plastics	Page:	1
Address:	One Corporate Dr. Suite 106, Bedford, PA 15522	Specifier:	
Phone Fax:		E-Mail:	
Design:	Advantic-Standard Platforms-Item 2-Stair Stringer Ba	Date:	5/31/2022
Fastening point:			

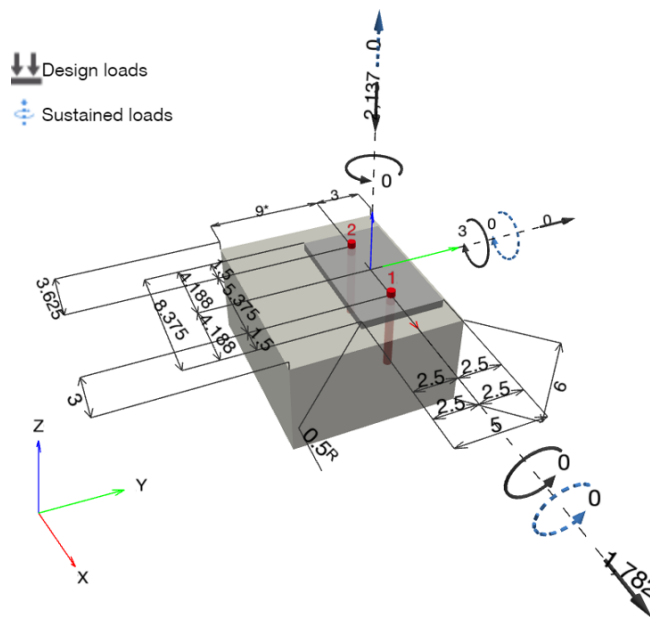
Specifier's comments:

1 Input data

Anchor type and diameter:	HIT-HY 200 V3 + HAS-R 304/316 SS 1/2	
Item number:	2045003 HAS-R 316 SS 1/2"x6 1/2" (element) / 2334276 HIT-HY 200-R V3 (adhesive)	
Effective embedment depth:	$h_{ef,act} = 4.500$ in. ($h_{ef,limit} = -$ in.)	
Material:	ASTM F 593	
Evaluation Service Report:	ESR-4868	
Issued Valid:	11/1/2021 11/1/2022	
Proof:	Design Method ACI 318-14 / Chem	
Stand-off installation:	$e_b = 0.000$ in. (no stand-off); $t = 0.500$ in.	
Anchor plate ^R :	$l_x \times l_y \times t = 8.375$ in. x 5.000 in. x 0.500 in.; (Recommended plate thickness: not calculated)	
Profile:	no profile	
Base material:	cracked concrete, 4000, $f'_c = 4,000$ psi; $h = 6.000$ in., Temp. short/long: 32/32 °F	
Installation:	hammer drilled hole, Installation condition: Dry	
Reinforcement:	tension: condition B, shear: condition B; no supplemental splitting reinforcement present edge reinforcement: none or < No. 4 bar	

^R - The anchor calculation is based on a rigid anchor plate assumption.

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





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1.1 Design results

Case	Description	Forces [lb] / Moments [in.lb]	Seismic	Max. Util. Anchor [%]
1	Combination 1	N = -2,137; V _x = 1,782; V _y = 0; M _x = 0; M _y = 3; M _z = 0; N _{sus} = 0; M _{x,sus} = 0; M _{y,sus} = 0;	no	138



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2 Proof I Utilization (Governing Cases)

Loading	Proof	Design values [lb]		Utilization	Status
		Load	Capacity	β_N / β_V [%]	
Tension	-	-	-	- / -	N/A
Shear	Concrete edge failure in direction x+	1,782	1,294	- / 138	not recommended

Loading	β_N	β_V	ζ	Utilization $\beta_{N,V}$ [%]	Status
Combined tension and shear loads	-	-	-	-	N/A

3 Warnings

- Please consider all details and hints/warnings given in the detailed report!

Fastening does not meet the design criteria!



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4 Remarks; Your Cooperation Duties

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