profisengineering.hilti.com/design/3a99eaed-864b-4bd4-98e7-30befb6eeedd

PROFIS ENGINEERING | DTT2Z HOLDDOWN ANCHOR (2023017) - United States, Steel: AISC and LRFD-based design, Anchor: ACI, No method | ASK HILTI | bim.consulting.tn@gmail.com

PROFILE

Use profile

Square HSS (AIS...

Height: 3 in | Width: 3 in

Thickness: 0.313 in

HSS3X3X.3125

Material : ASTM A500 Gr.B Rect

ECCENTRICITY

X-direction: 0 in | Y-direction: 0 in

Angle: 0 ° | Rotation

WELDS

Web weld location

Web weld throat thickness: 0.22 in

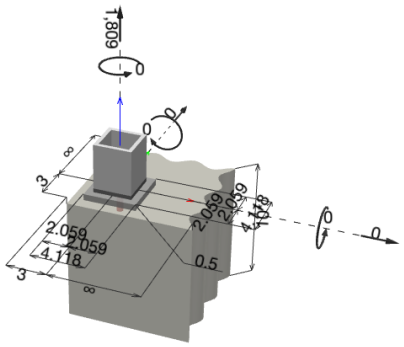
Web weld material: Web weld material : E70xx

Flange weld location

Flange weld throat thickness: 0.22 in

52% | Solid 3D | KWIK HUS-EZ (KH-EZ) 1/2 1...

Change to 2D



Create report

MESSAGES

It is not possible to calculate the example you created, due to an error in finite element analysis (analysis: Singularity).

PROFIS Engineering does not perform detailed design verifications for serviceability limit states (SLS). To verify displacements, please enter an SLS load combination, and make sure the displacements for this load combination are within the accepted limits.

Not all design results are valid. Report export is therefore not possible. Please change an input or delete a specific load combination if report export is needed.

No standard item number available. Please contact Hilti to check feasibility of supply.

This anchor can be installed with Hilti vacuum cleaner + hollow drill bit system which automatically cleans the borehole while drilling.

Use Automatic Cleaning

N°	Name	Type	Forces [lb]			Moments [in-lb]			Utilization			
			Vx	Vy	N	Mx	My	Mz	T	S	C	Max
1	Combination 1		0	0	1,809	0	0	0				

Create load combinations | Input custom factored loads | Import factored loads from a spreadsheet