

⇓ Design loads  
⋮ Sustained loads

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ANCHOR LOADS

Anchor	N [kN]	Vx [kN]	Vy [kN]
1	15.179	-0.03	-34.829
2	17.517	0.004	-35.171
3	17.514	-0.004	-35.171
4	15.177	0.03	-34.829

ANCHOR DESIGN

Tension

Concrete breakout **64%**

Shear

Steel **76%**

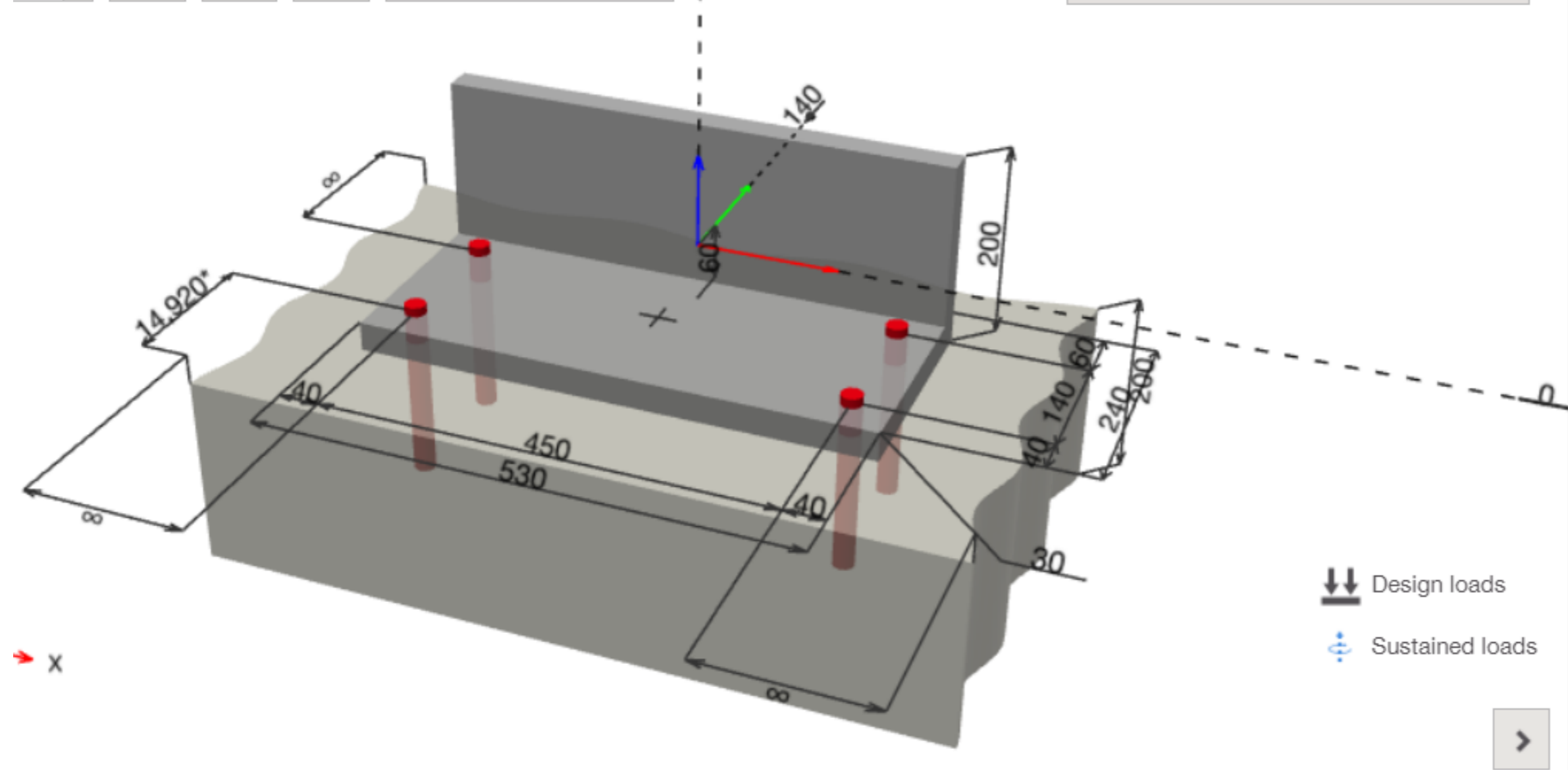
Combination **111%**

Type	Loads	Forces [kN]			Moments [kNm]			Utilization
		Vx	Vy	N	Mx	My	Mz	
tion 1	Design	0	-140	0	0	0	0	111%
	Sustained			0	0	0		

I realize the failure cone is affected by the smaller spacing on this arrangement but does it make sense that if two anchors work (as shown on page 2 below) the connection no longer works just by moving the two lower bolts (that are in the compression zone) to the top? That seems paradoxical.

I know you guys know this stuff in and out. I've used Profis off and on for many years but I never noticed this might occur.

BY THE WAY... thanks to HILTI for the good work over the last century !!! The industry would suffer greatly without your research and calculation software.



Create report →



ANCHOR LOADS ^

Anchor	N [kN]	Vx [kN]	Vy [kN]
1	-0.002	-0.844	-34.891
2	-0.002	0.844	-34.891
3	25.751	0.237	-35.109
4	25.748	-0.236	-35.109

ANCHOR DESIGN ^

Tension ▬

Concrete breakout **55%**

▾

Shear ▬

Steel **76%**

▾

Combination ▬

**100%**

	Type		Loads	Forces [kN]			Moments [kNm]			Utilization
	+	⚡		Vx	Vy	N	Mx	My	Mz	
Combination 1	+	⚡	Design	0	-140	0	0	0	0	100%
	+	⚡	Sustained			0	0	0		

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