

Obtained a reference on the Hilti website (Can anchors be installed on an angle? - Ask HILTI) [HTTP://ask.hilti.com.au/questions/can-anchors-be-installed-on-an-angle/ddd3fs](http://ask.hilti.com.au/questions/can-anchors-be-installed-on-an-angle/ddd3fs)

Would you be able to send me the design guidelines for inclined anchors. We have a light fitting frame already installed on a Grade 30 concrete slab where my light fitting is weigh approx. 1.5Metric Tons. Due to the presence of steel reinforcement in the slab, the anchors cannot be installed perpendicularly to the slab as HILTI recommends. On a plus note, we have overwhelming number of anchors(as we have multiple legs fixed to the slab) to hold the said load hence I am wondering Is there any design guideline to justify the load bearing strength/tension capacities of inclined anchors. Because, even at 10% of normal tension/compression capacity of the anchor, our light frame can withstand without any issue.

Some of my anchors are inclined at 30degrees.

Thank you very much in advance.

Refer the image below:

