

## Question 1

Does MyTiCon have a stiffness or ductility calculation for the SDD self-drilling dowels?

MyTiCon provides the bending yield strength of the dowels, allowing the designer to calculate the shear capacity following the yield equation in either CSA O86 or NDS. In both cases our design guides includes the most common connection resistances to simplify the design procedure.

We can provide the estimated stiffness of the tests that have been performed until now upon request

## Question 2

Do you have an ICC ES, CCMC or IAPMO report?

There is no ICC-ES or CCMC report for the moment, however, all listed design values are evaluated in accordance to AC233, the evaluation criteria for ICC-ES and CSA O86.

## Question 3

Is there a max steel thickness that SDD can drill through?

We suggest predrilling in any steel plate thicker than 1/8".

## Question 4

What grade of steel is acceptable?

To use the design values presented in our design guide steel plates must have a A36 steel grade.

## Question 5

Are the SDD able to self-drill into steel plate thicker than 1/8"?

It is possible to install the SDD in steel plate thicker than 1/8" without pre-drilling, however this will take much longer and will require a considerable amount of arm strength. Pre-drilling simplifies the installation and makes it much quicker.

## Question 6

What diameter hole should be used for pre-drilling the steel plates that are thicker than 1/8"?

You should predrill using a 1/4" drill bit.

## Question 7

What is the size of the predrill bit compared to the diameter of the actual MyTiCon fastener?

We recommend using a 0.25" drill bit as the dowels are 0.273" in diameter.

The SDD being slightly larger than the 1/4" drill bit, will allow the Self-Drilling Tip to complete the drilling of the steel plate to the exact diameter of the dowel. This will create an easy installation and a tight fit. Additionally, the threads are designed to bite within the steel plate creating a strong connection between the knife plate, the dowel and the wood.

## Question 8

How do you ensure when you drill through the wood it lines up with the pre-drilled holes in the steel plate?

A simple way to ensure the wood lines up with the plate is to do a single pre-drilling, through wood fiber and steel at once on site.

## Question 9

Besides the tighter thread that threads itself through steel, what is the main difference with a screw in terms of function?

It is designed to be used with internal steel plates, typical screw are designed for use with external steel plates. The threads of self-tapping screws are not designed to grip into steel plates, the threads of the SDD are designed to grip into steel.

## Question 10

You mentioned that these dowels must not be used in wet service condition. How about delayed install, where the beams might be exposed to higher ambient humidity before being sealed into a building? How about rain/dampness during erection?

Moisture content changes are not as much of a problem for the dowels if the wood dries out in service. The moisture is more of a problem when the wood shrinks and needs to release those stresses while being restrained by a steel plate.

## Question 11

Please provide some information about cost and typical lead time

**For information concerning lead time and cost, you can contact our sales team at [sales@myticon.com](mailto:sales@myticon.com).**