

SISO internal test.

Date: 25-02-2019

Test subject : 11.06.017-0 Snap Fitting "Diva" Female Part, Grey PC, ϕ 12 x 5
11.06.018-0 Snap Fitting "Diva" Male Part , Grey PC, ϕ 10 x 8

Standard : Internal

Ordered by : DTP

Done by : AS

Purpose : Testing strength of DIVA Snap fitting joint.

Conclusion:

With a build in safety factor we can safely state that a correct mounted “Snap Fitting Diva” has a strength of approx. 30 kg.

Test result show (all results are made on one setup – meaning the same Snap Fitting items)

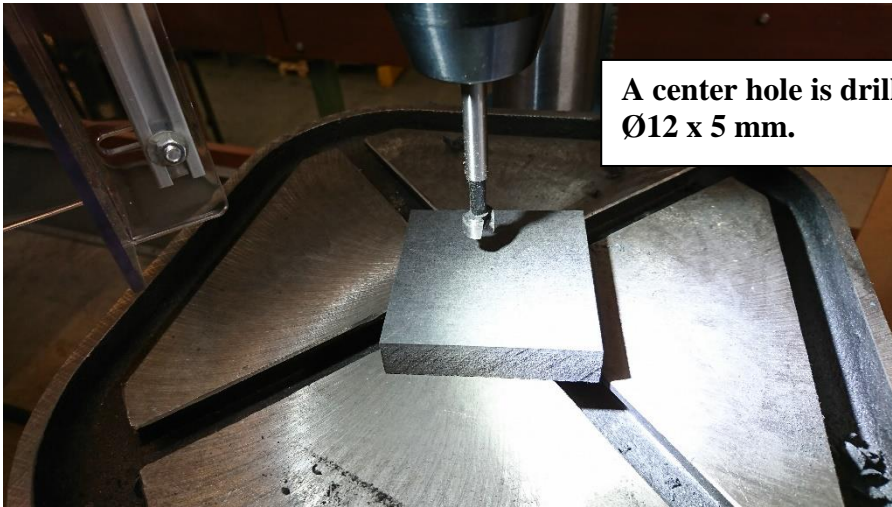
Pull no.:	Result in kg.
1	34,65
2	33,85
3	34,65
4	36,80
5	30,95

The strength of the joint will decrease by a contentious removing and joining of the parts.

Test show that the joint strength by the initial 4 times of mounting and dismounting are at the same level more or less – by the 5 dismounting we start seeing a small deviation.

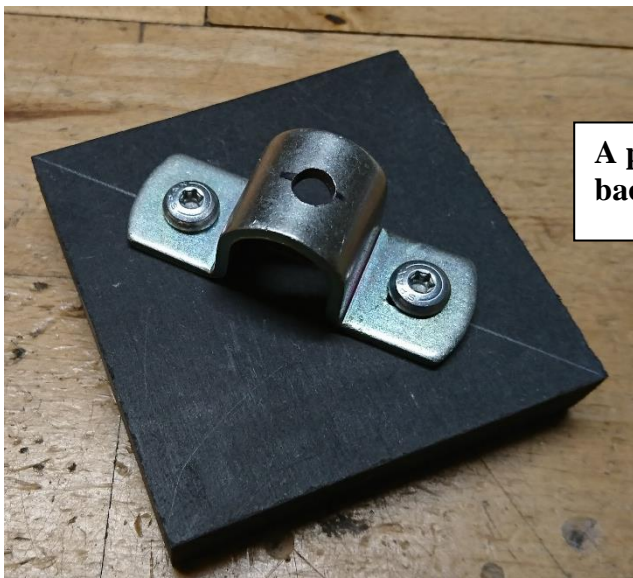
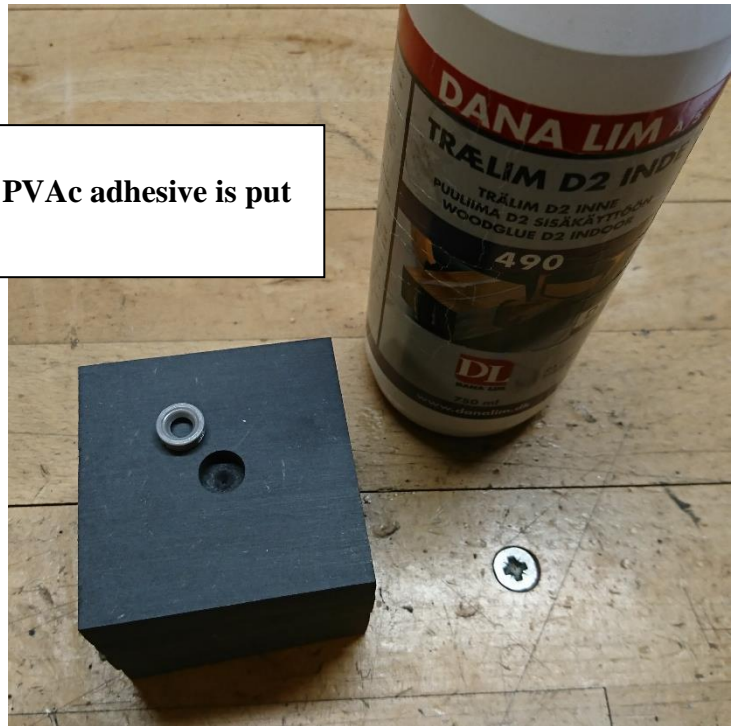


On the following pages photos show how the test was done:



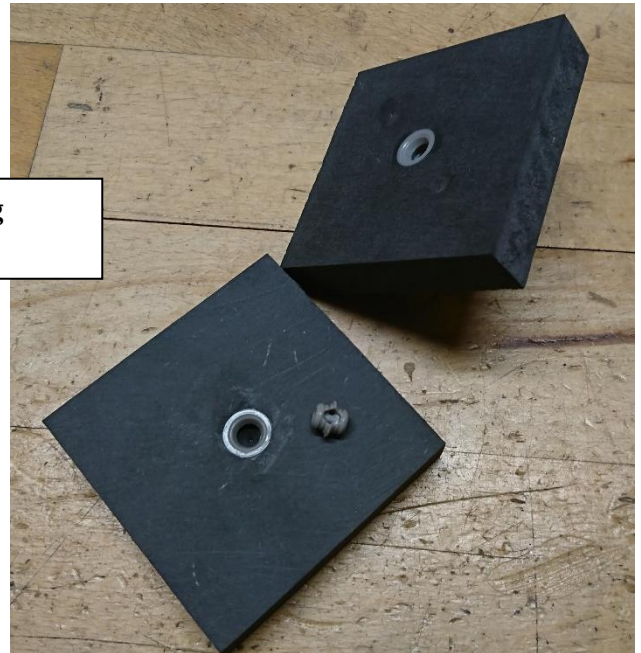
A center hole is drilled into the small MDF plate:
Ø12 x 5 mm.

Diva housing is knocked into the hole.
To ensure the housing stay in place regular PVAc adhesive is put
into the hole.



A pull handle is mounted on the
backside of one of the MDF plates.

We are ready to make the force/pull testing



The bottom MDF plate is held into place by a vice. The Diva pin is installed into the MDF plate.

The upper MDF plate is put into place.

Both the Diva pin and the upper plate is put into place by a small hammer tap.



By use of weigh cell with “Peak Hold” results we can register the max. force used when pulling the setup apart.



This test shows the results on one set of testing plates and one set of Diva Snap fittings.

1st. pull result
34,65 kg.



2nd. pull result
33,85 kg.





3rd. pull result
34,65 kg.



4th. pull result
36,80 kg.



5th. pull result
30,95 kg.