SISO internal test. Date: 23-05-2013

Test subject : 06.11.100

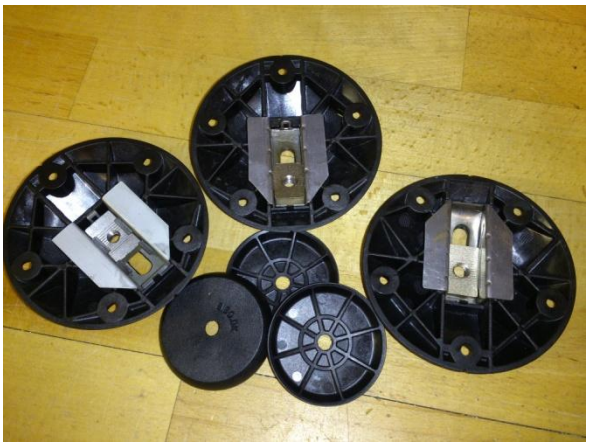
Standard : Internal

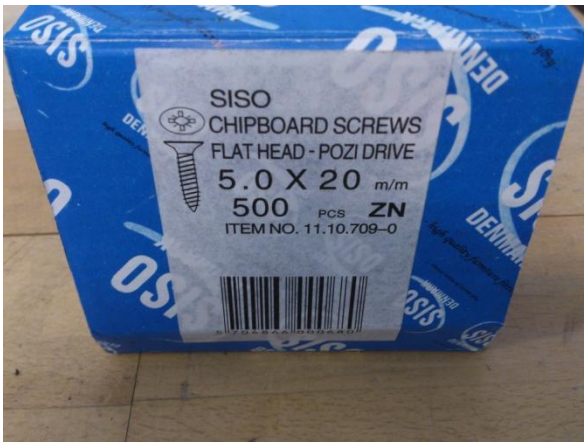
Ordered by : QC

Done by : AS

Purpose : Strength test of SISO Twister leg connector item.

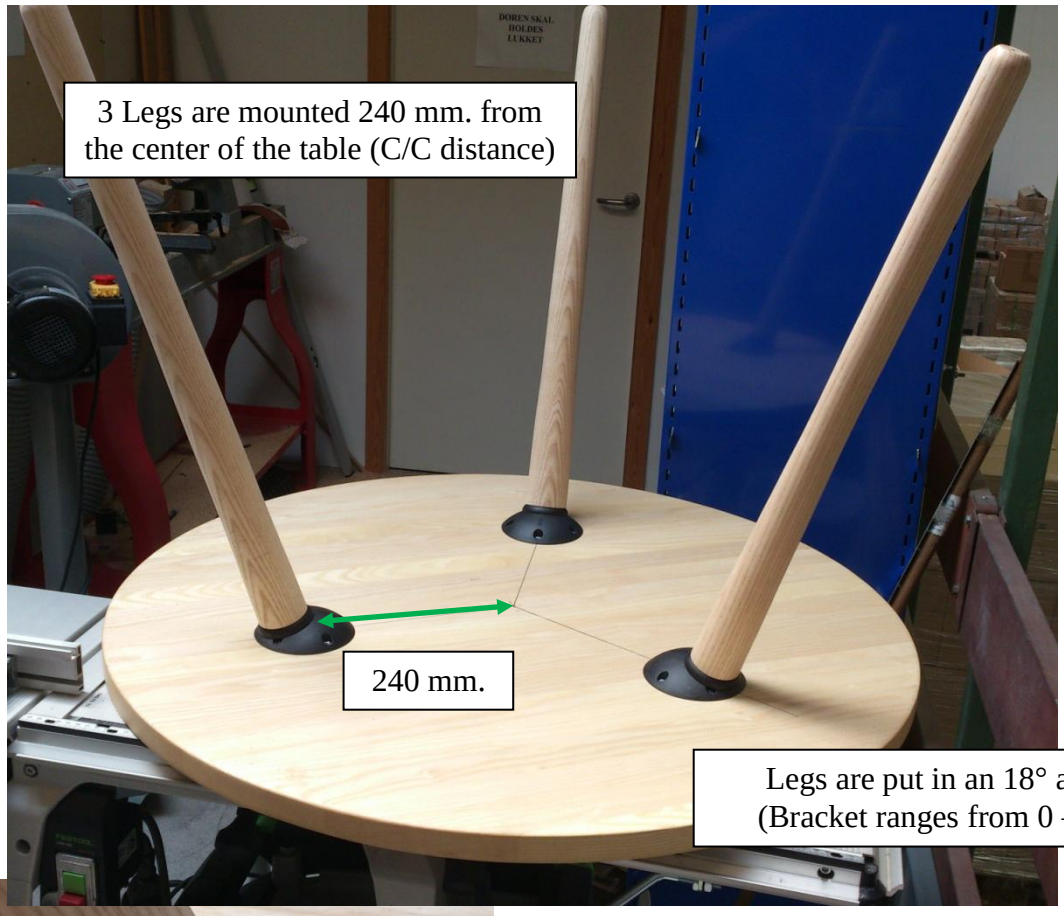
Items:





Ash wooden leg.
Ø 52 mm. – length 647 mm.
SS hangerbolt at the end

Ash solid wood tabletop.
Ø900mm. x 30 mm. thickness.
Weight 10,50 kg.



3 Legs are mounted 240 mm. from the center of the table (C/C distance)

240 mm.

Legs are put in an 18° angel.
(Bracket ranges from 0 – 20°)

Height of table – legs in an 18° angel.
670 mm.

Weight box illustrated - are used to strain the table and Twister brackets. Each box weighing just over 13 kg. (13,133 kg.)

The testing:

Weight boxes are put on the table and the legs position are checked by every layer (104 kg.) on the table.

1st. layer of weight boxes illustrated.
7 boxes of each 13 kg. = 104 kg.
Tabletop = 10,50 kg.

Total of 114,50 kg.

Distributed equally on 3 legs

114,50 kg. : 3 = 38,16 kg./leg

2. layer

3. layer

4th. layer of weight boxes illustrated.
7 boxes in each layer – 4 layers.
Tabletop = 10,50 kg.

(4 x 104kg. + 10,50 kg.) Total of 426,50 kg.

Distributed equally on 3 legs

426,50 kg. : 3 = **142,16 kg./leg**

Having the 426,50 kg still on the table it was gently pushed from side to side and back and forth for several minutes – not done in any scientific way.

The table was left with the 426,50 kg strain – after 20 hours - the leg position was checked.

The checking showed that the legs had not moved. There was no damage or movement to record.

Conclusion:

Before making the test: A satisfying result would be a weight uptake in the area of 50 to 60 kg./leg including a safety factor of 2.

The static test showed that each leg and Twister withstanded a pressure of 142 kg. at a table height of 670 mm. in a 18° angel.

(Note: If the table height is increased the weight uptake will decrease.)

Adding the safety factor of 2 we get a result showing that each bracket passed an uptake of 71 kg.

This means that the bracket performed within the expected and thereby achieved a satisfying result.