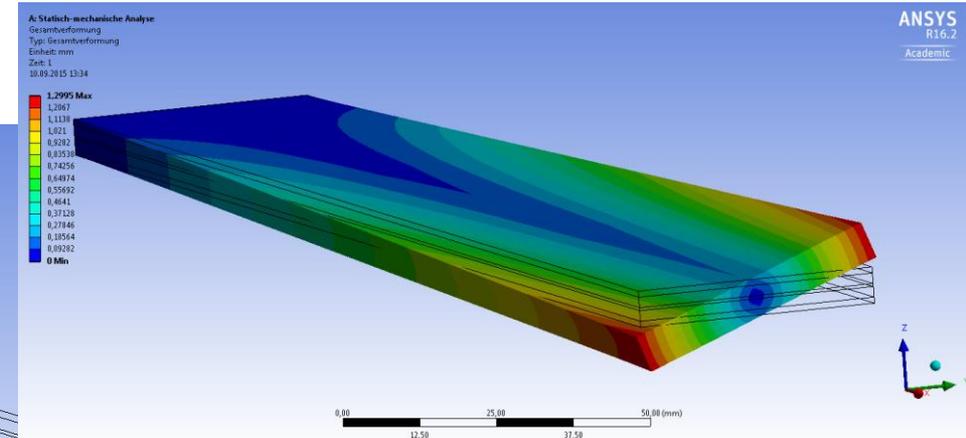
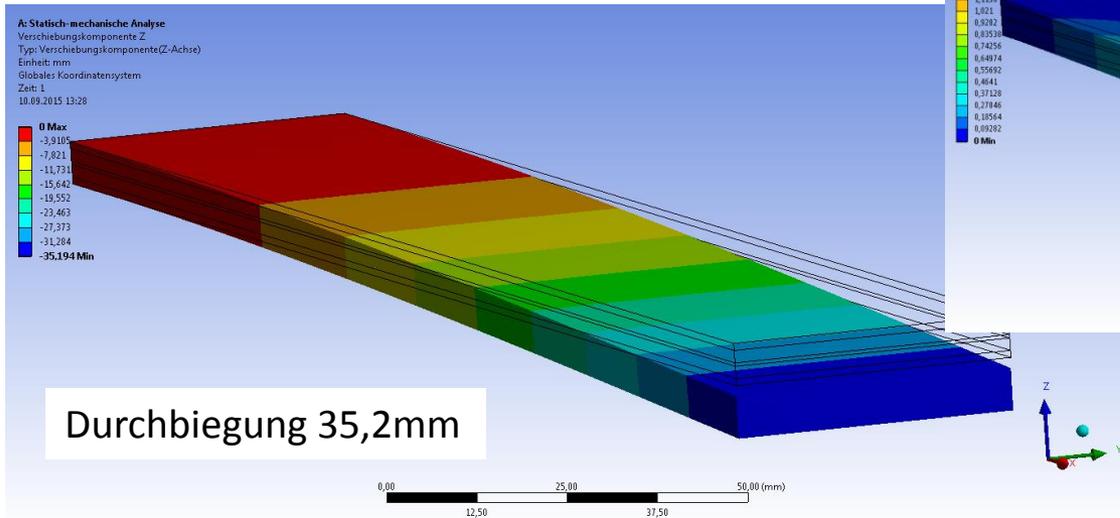
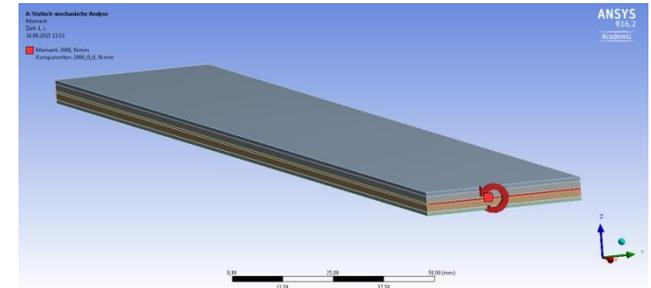
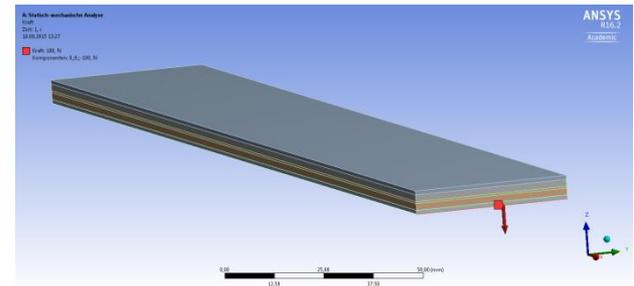
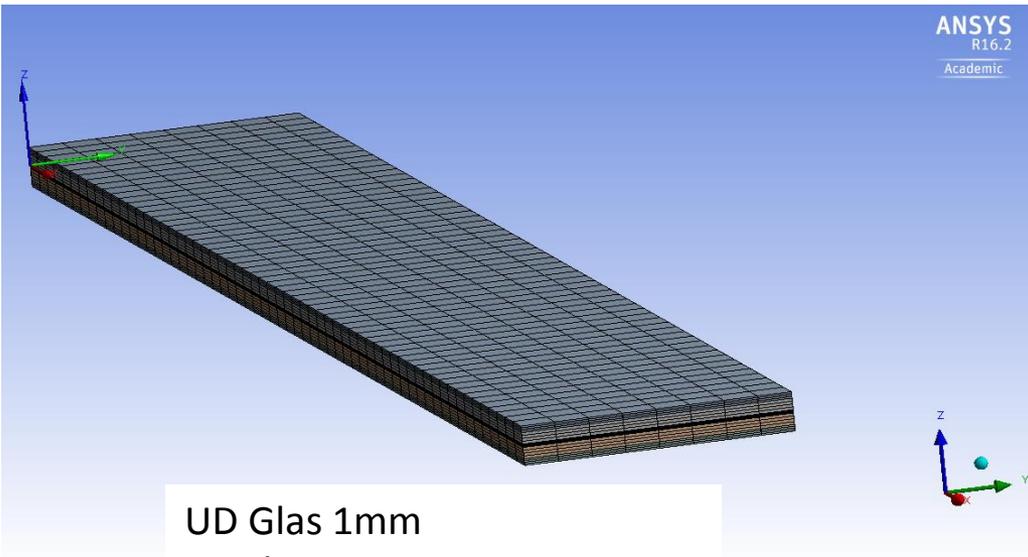


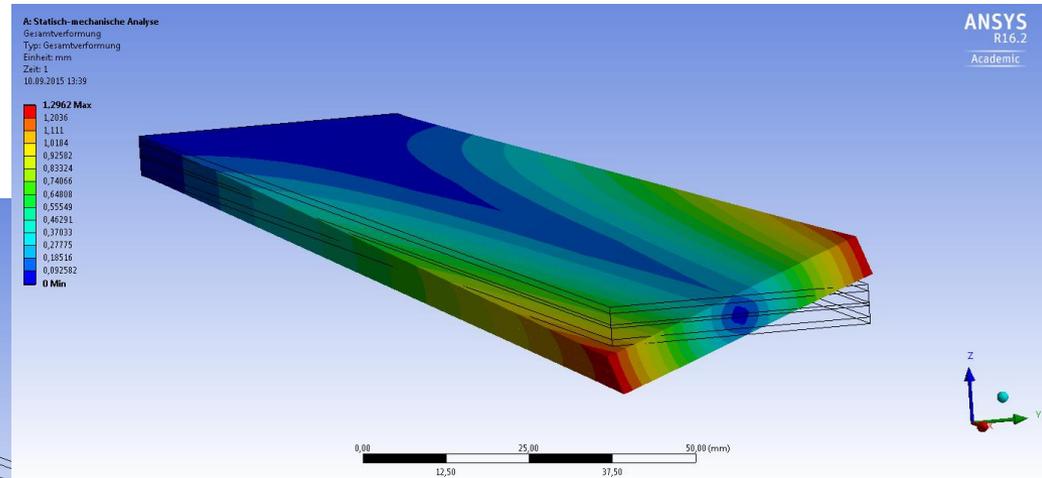
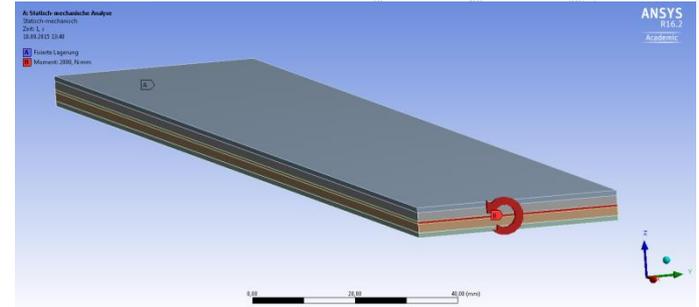
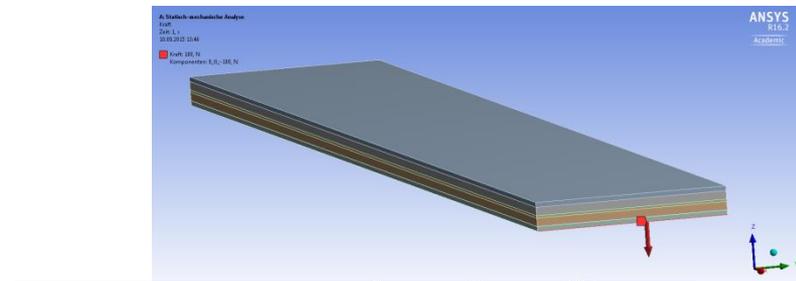
UD Glas 1mm
 Bambus 4mm
 UD Glas 1mm



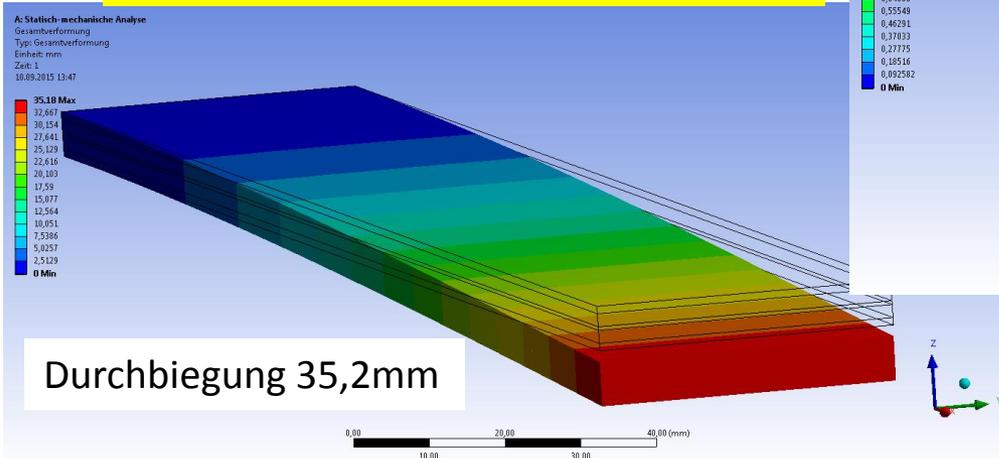


UD Glas 1mm
 Bambus 1,75mm
 0,5mm Carbon Kreuzgewebe
 Bambus 1,75mm
 UD Glas 1mm

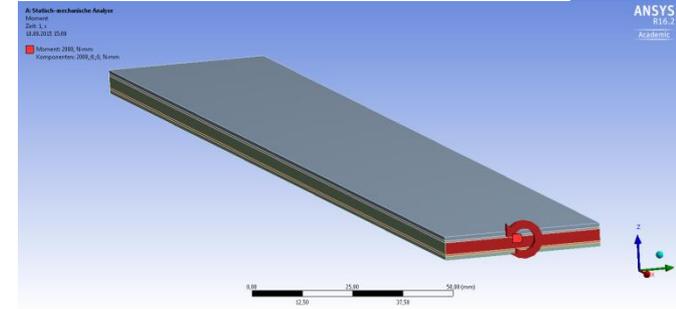
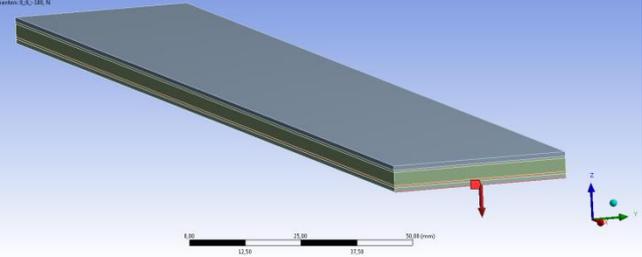
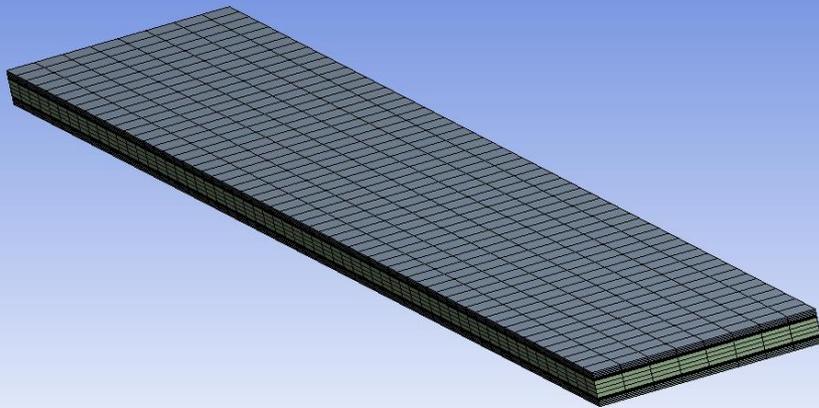
Ergebnisse praktisch gleich zu Modell ohne Verstärkungseinlage in der Mitte



Verdrehung der Ecken 1,3mm

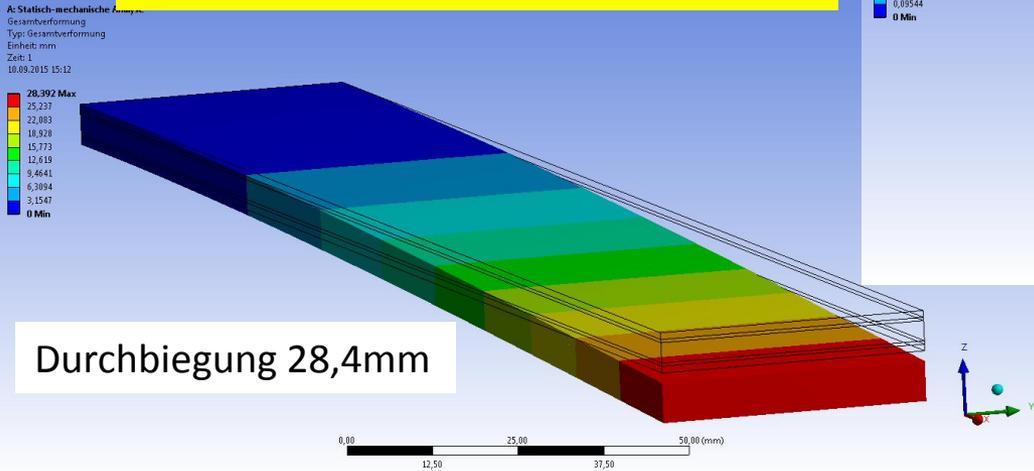


Durchbiegung 35,2mm

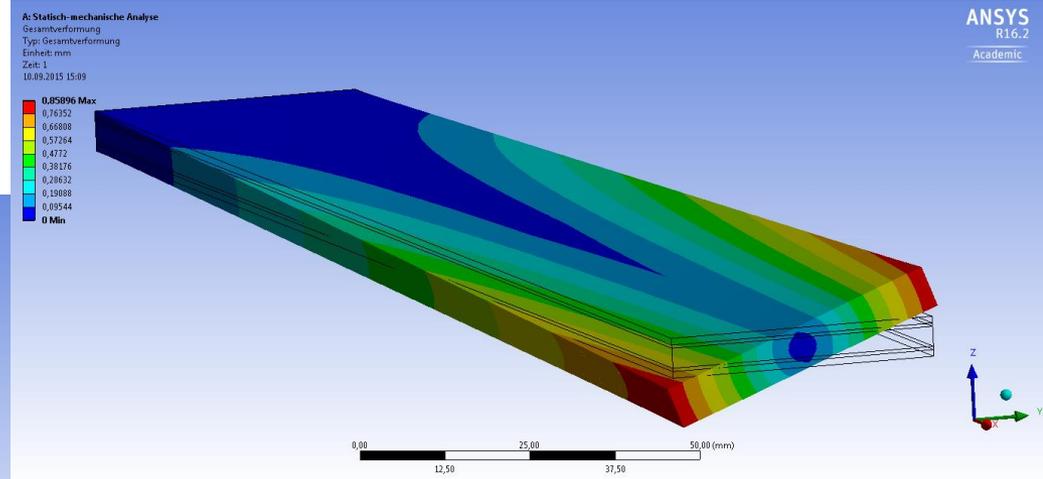


UD Glas 1mm
0,5mm Carbon Kreuzgewebe
Bambus 3mm
0,5mm Carbon Kreuzgewebe
UD Glas 1mm

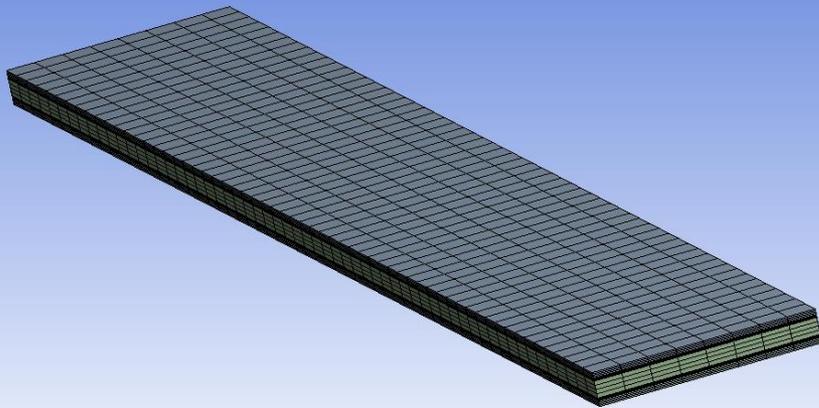
24% mehr Biegesteifigkeit
51% mehr Torsionssteifigkeit



Durchbiegung 28,4mm



Verdrehung der Ecken 0,86mm

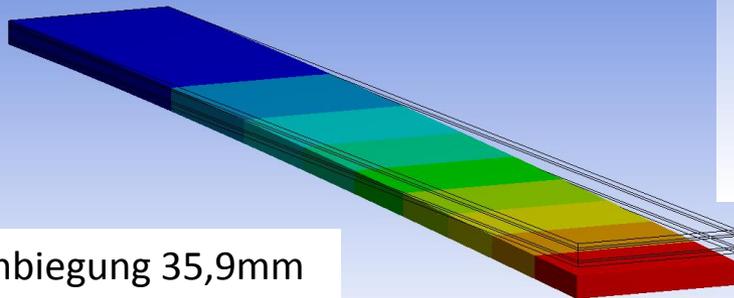


UD Glas 1mm
 0,5mm Carbon Kreuzgewebe
 Bambus 2,5mm
 0,5mm Carbon Kreuzgewebe
 UD Glas 1mm

gleiche Biegesteifigkeit
 Ca.15% mehr Torsionssteifigkeit

A: Statisch-mechanische Analyse
 Gesamtverformung
 Typ: Gesamtverformung
 Einheit: mm
 Zeit: 1
 10.09.2015 15:30

35,92 Max
 31,929
 27,938
 23,947
 19,956
 15,964
 11,973
 7,9822
 3,9911
 0 Min

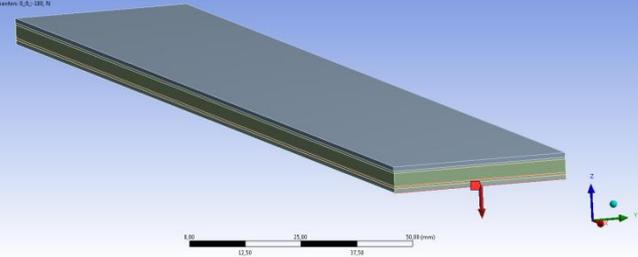


Durchbiegung 35,9mm



ANSYS
 R16.2
 Academic

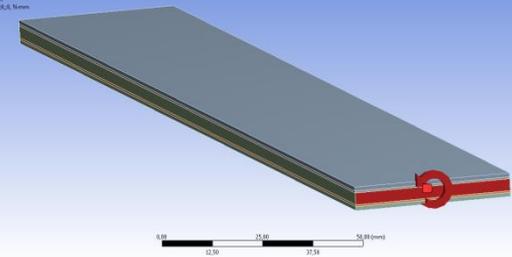
A: Statisch-mechanische Analyse
 Statik
 Zeit: 1,1
 10.09.2015 15:31
 Kraft: 100, N
 Komponenten: Fx, Fy, Fz, N



ANSYS
 R16.2
 Academic



A: Statisch-mechanische Analyse
 Moment
 Zeit: 1,1
 10.09.2015 15:30
 Moment: 200, Nmm
 Komponenten: Mxx, Myy, Mzz, N

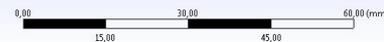
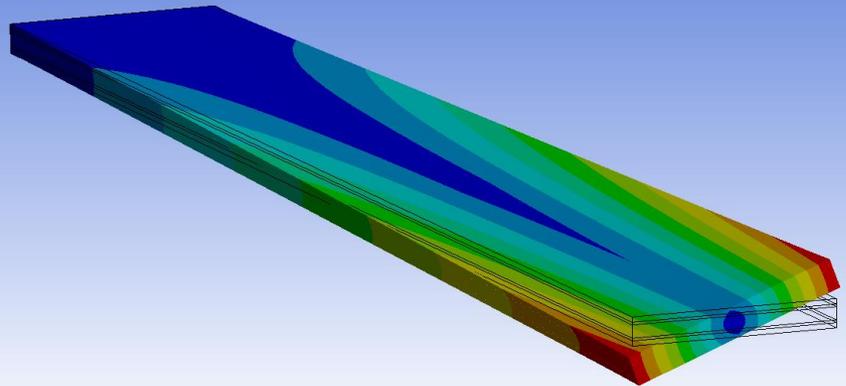


ANSYS
 R16.2
 Academic



A: Statisch-mechanische Analyse
 Gesamtverformung
 Typ: Gesamtverformung
 Einheit: mm
 Zeit: 1
 10.09.2015 15:34

1,1247 Max
 0,99976
 0,87479
 0,74982
 0,62485
 0,49988
 0,37491
 0,24994
 0,12497
 0 Min



Verdrehung der Ecken 1,12mm

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