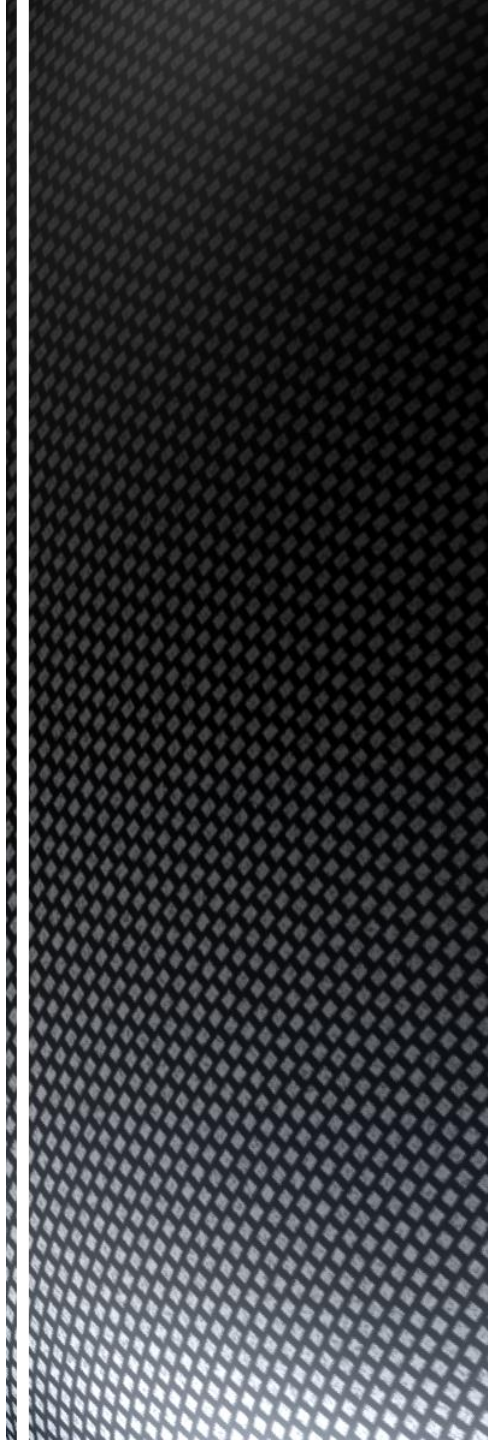


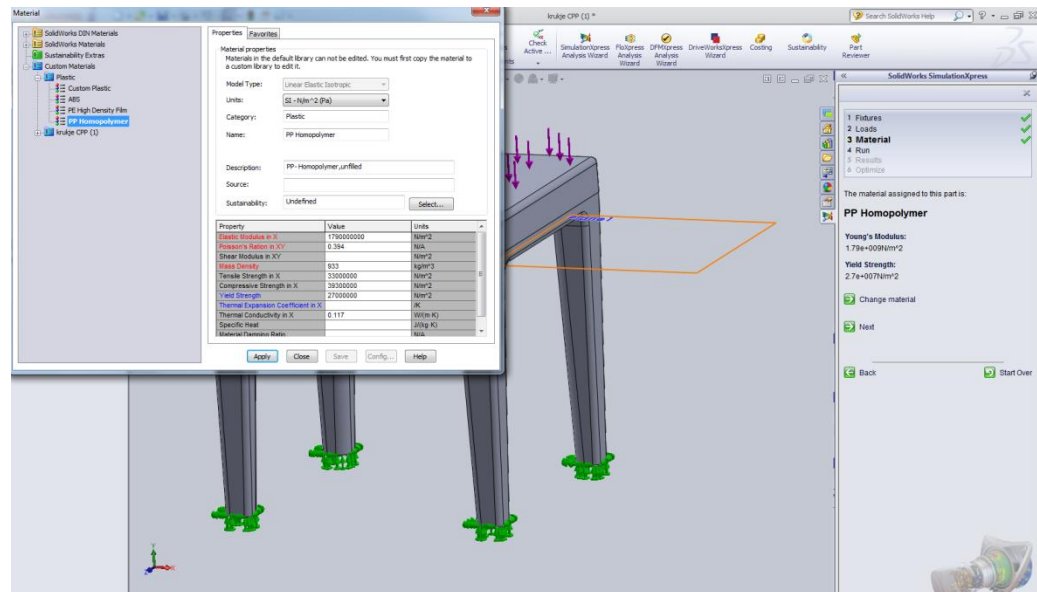
CPP

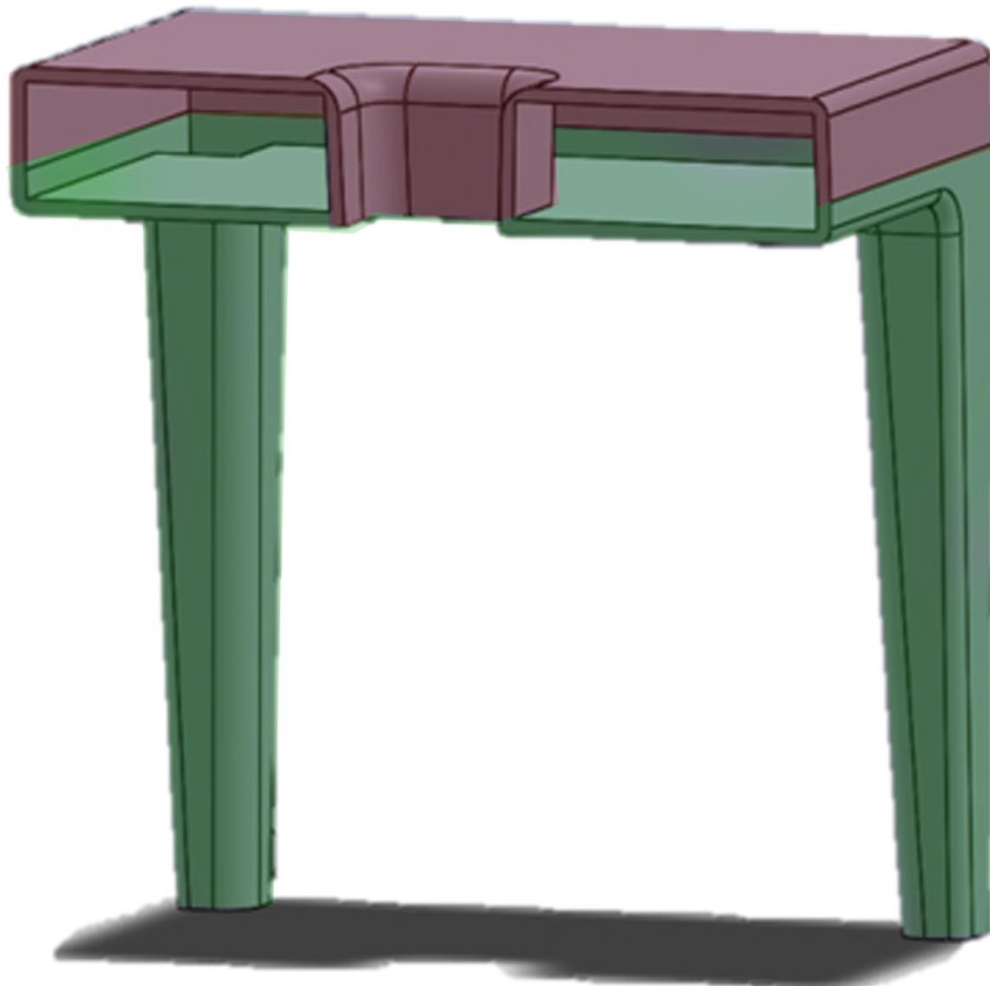
Rotatie gegoten krukje



Materiaal

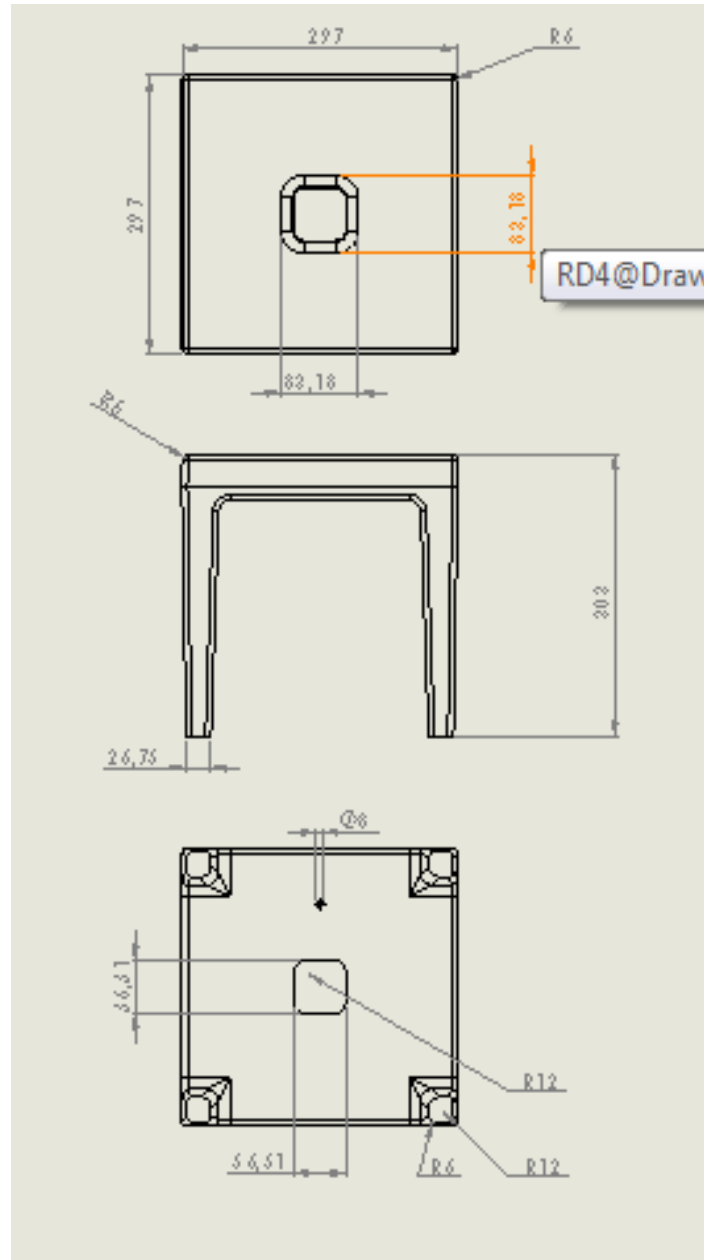
- **Het materiaal:**
- **ICO Polymers ICORENE™ 440-1312**
PP Rotational Molding Resin
- **Meerdere materialen geprobeert**
- **ABS: FOS = 3,99**
- **PP: FOS=3,17**
- **Weinig informatie over ABS**
- **Yieldstrentgh: 27 MPa**





Matrijsdeling

- **Gegeven maten:**
- 303mm hoog
- 297mm lang
- 297mm breed



Bemating

Lossingen

Buitenvlak

Gekozen = 2.0 graden

Plastic	Min (graden)	Beter (graden)
PE	1.0	2.0
PP	1.5	3.0

Binnenvlak

Gekozen = 1.5 graden lossing

Plastic	Min (graden)	Beter (graden)
PE	0.0	1.0
PP	1.0	1.5

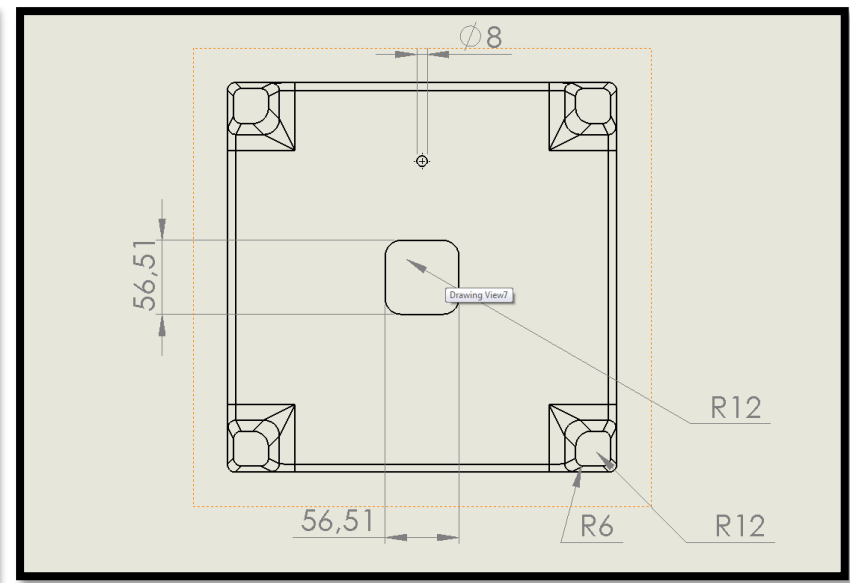
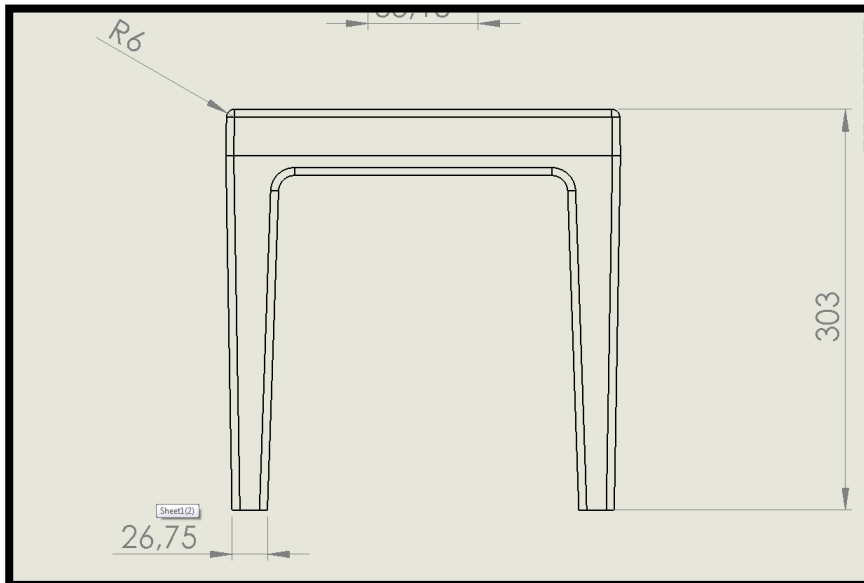
Radii

- Radii binnenhoek: 12mm

Plastic	Min (mm)	Beter (mm)
PP	6.35	19.05

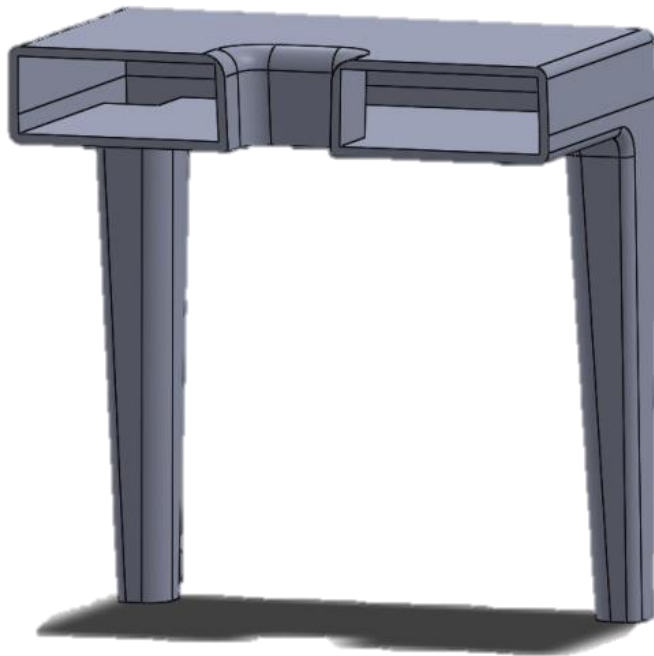
- Radii buitenhoek: 6mm

Plastic	Min (mm)	Beter (mm)
PP	6.35	12.70



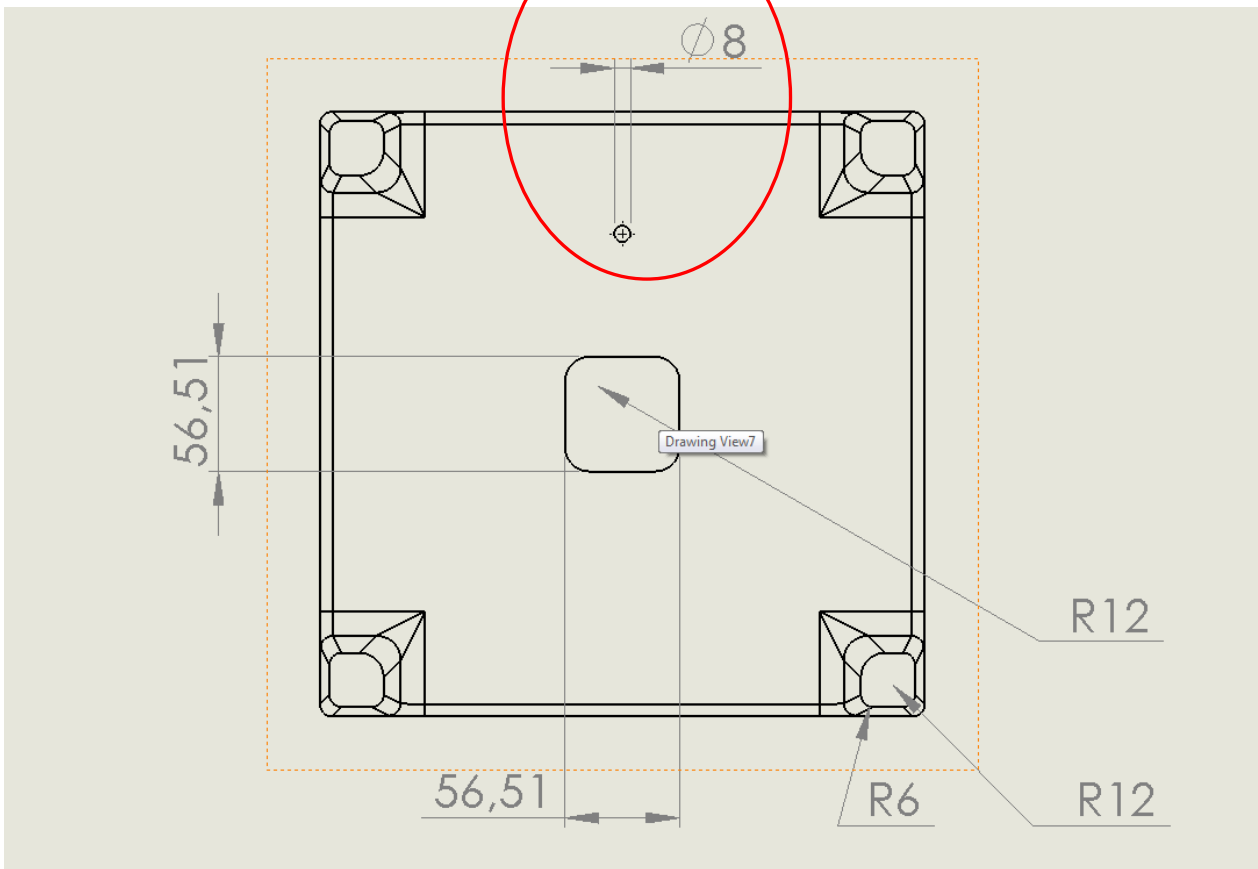
Plastic	Min (mm)	Max (mm)
PP	1.5	6.4

1. Wanddikte = 5,5mm
2. Gebaseerd op poot



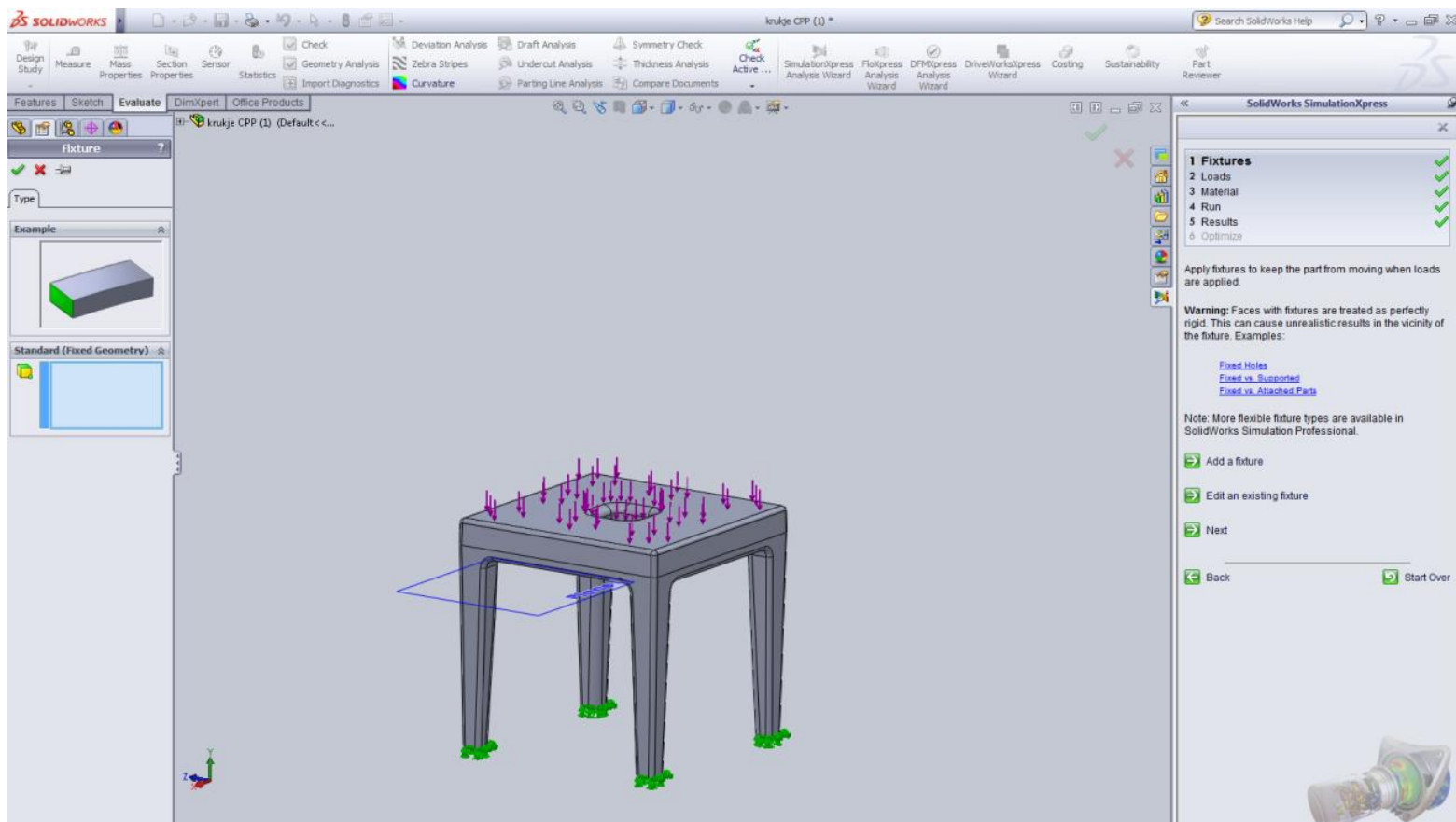
Wanddikte

Ontluchtingsgat



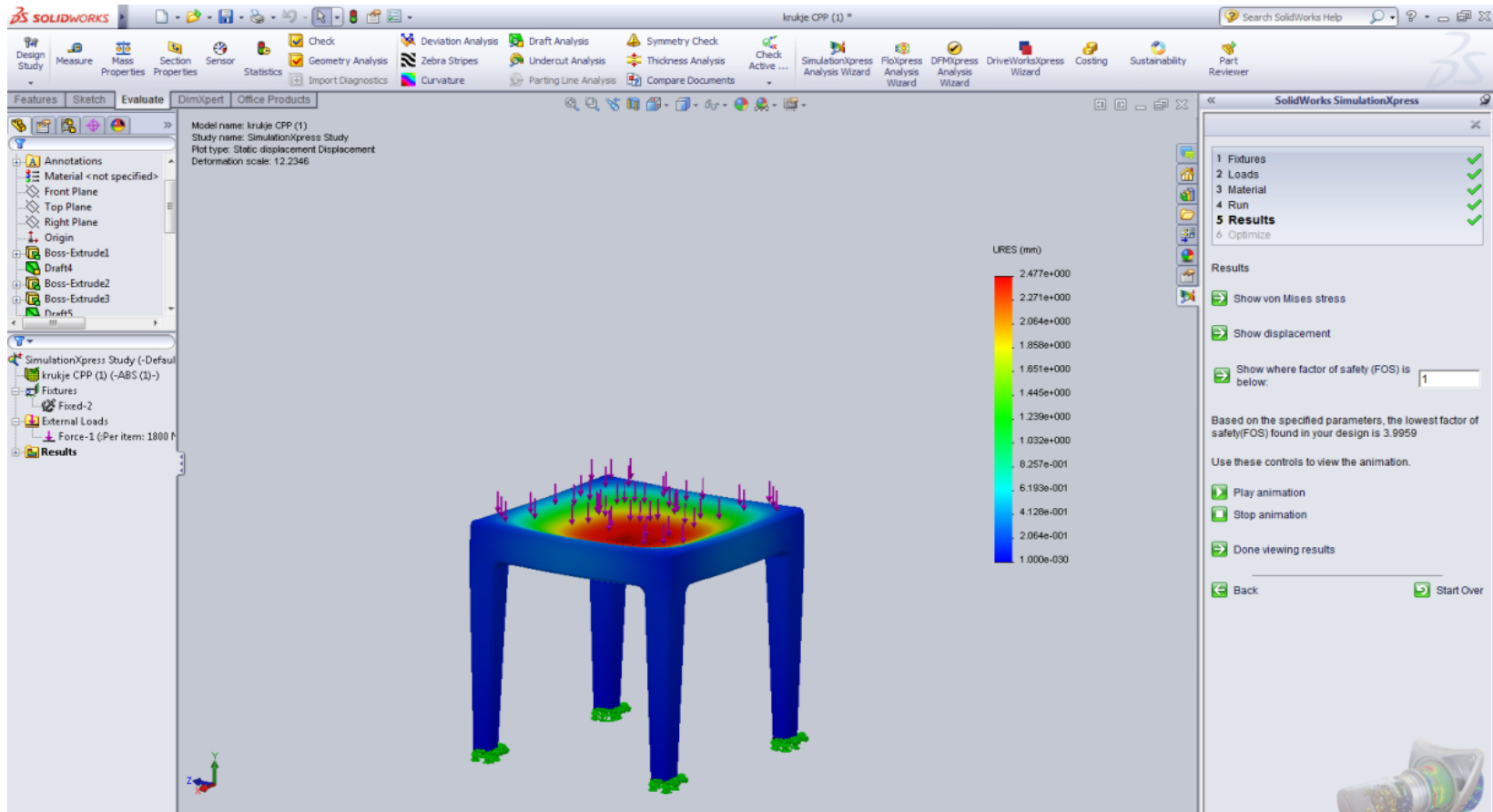
Sterkteberekening

- Fixture onder op de poten
- Force = 1800N

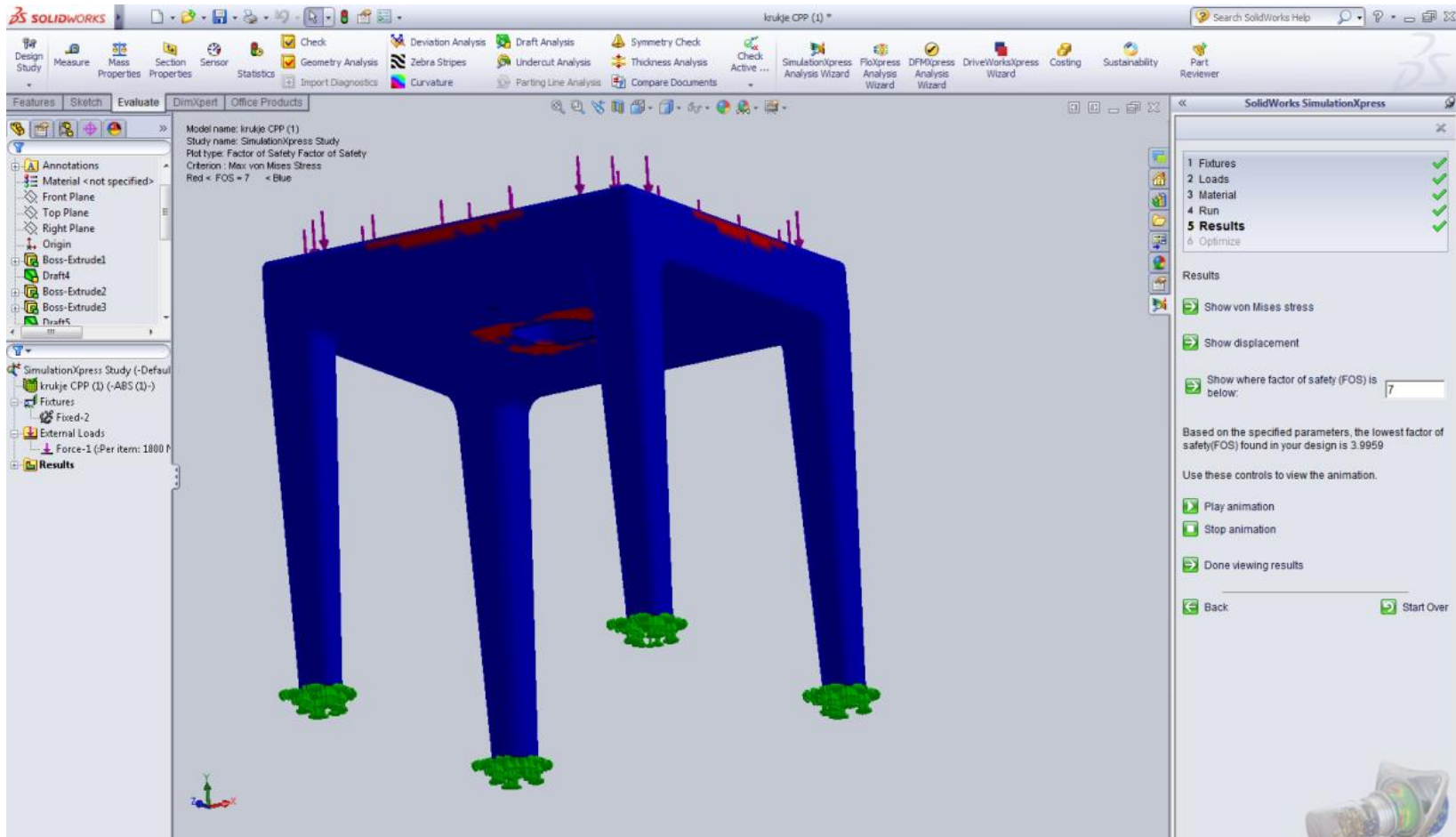


Doorbuiging

- 2,477 mm doorbuiging



Maximale stress



FOS

- Yieldstrength / Maximale belasting
= FOS
- $27.000.000/8.508.721=3,17$

