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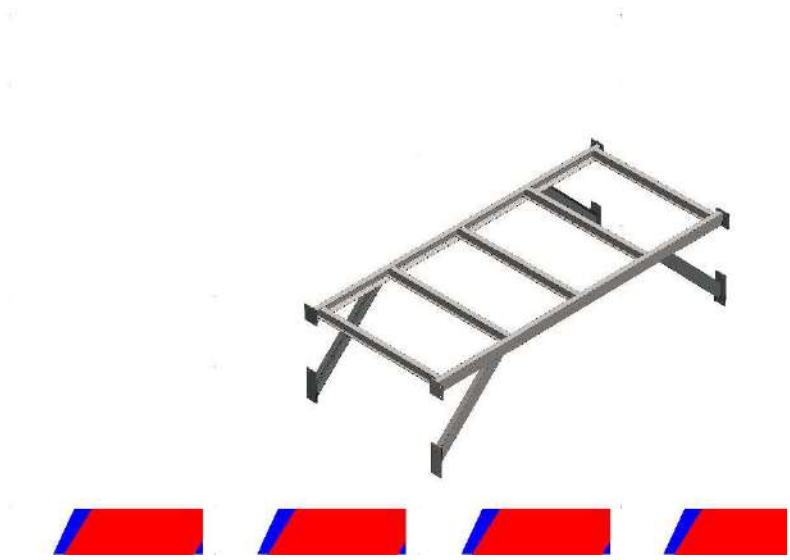


Simulation of Part2

Date: dinsdag 29 augustus 2017
Designer: Olivier
Study name: Static 3
Analysis type: Static

Table of Contents

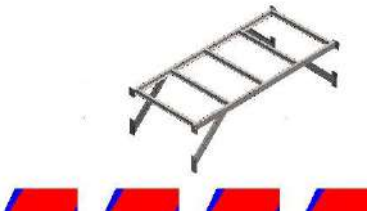
Description

No Data

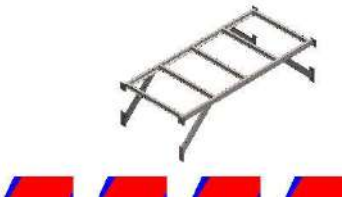
Units

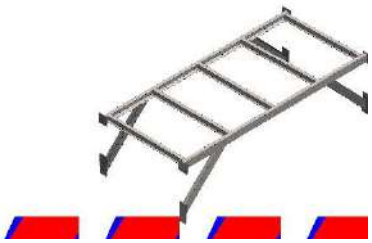
Unit system:	SI (MKS)
Length/Displacement	mm
Temperature	Kelvin
Angular velocity	Rad/sec
Pressure/Stress	N/m^2

Material Properties

Model Reference	Properties		Components
	**Name:**	Plain Carbon Steel	SolidBody 12(Mirror8[2])(Part2), SolidBody 25(Mirror7[2])(Part2), SolidBody 26(Mirror8[3])(Part2), SolidBody 30(Mirror3[1])(Part2), SolidBody 46(Mirror2)(Part2), SolidBody 48(Mirror3[2])(Part2), SolidBody 52(Trim/Extend2[1])(Part2), SolidBody 56(Ø18.0 (18) Diameter Hole2)(Part2), SolidBody 57(Trim/Extend2[3])(Part2), SolidBody 58(Trim/Extend2[5])(Part2), SolidBody 59(Cut-Extrude2[1])(Part2), SolidBody 65(Mirror8[1])(Part2), SolidBody 72(Mirror8[4])(Part2), SolidBody 80(Mirror7[1])(Part2), SolidBody 91(Trim/Extend5)(Part2), SolidBody 99(Cut-Extrude3)(Part2), SolidBody 104(Trim/Extend2[2])(Part2), SolidBody 105(Cut-Extrude2[2])(Part2), SolidBody 106(Trim/Extend2[4])(Part2)
	Model type:	Linear Elastic Isotropic	
	Default failure criterion:	Max von Mises Stress	
	Yield strength:	2.20594e+008 N/m^2	
	Tensile strength:	3.99826e+008 N/m^2	
	Elastic modulus:	2.1e+011 N/m^2	
	Poisson's ratio:	0.28	
	Mass density:	7800 kg/m^3	
	Shear modulus:	7.9e+010 N/m^2	
	Thermal expansion coefficient:	1.3e-005 /Kelvin	
Curve Data:N/A			

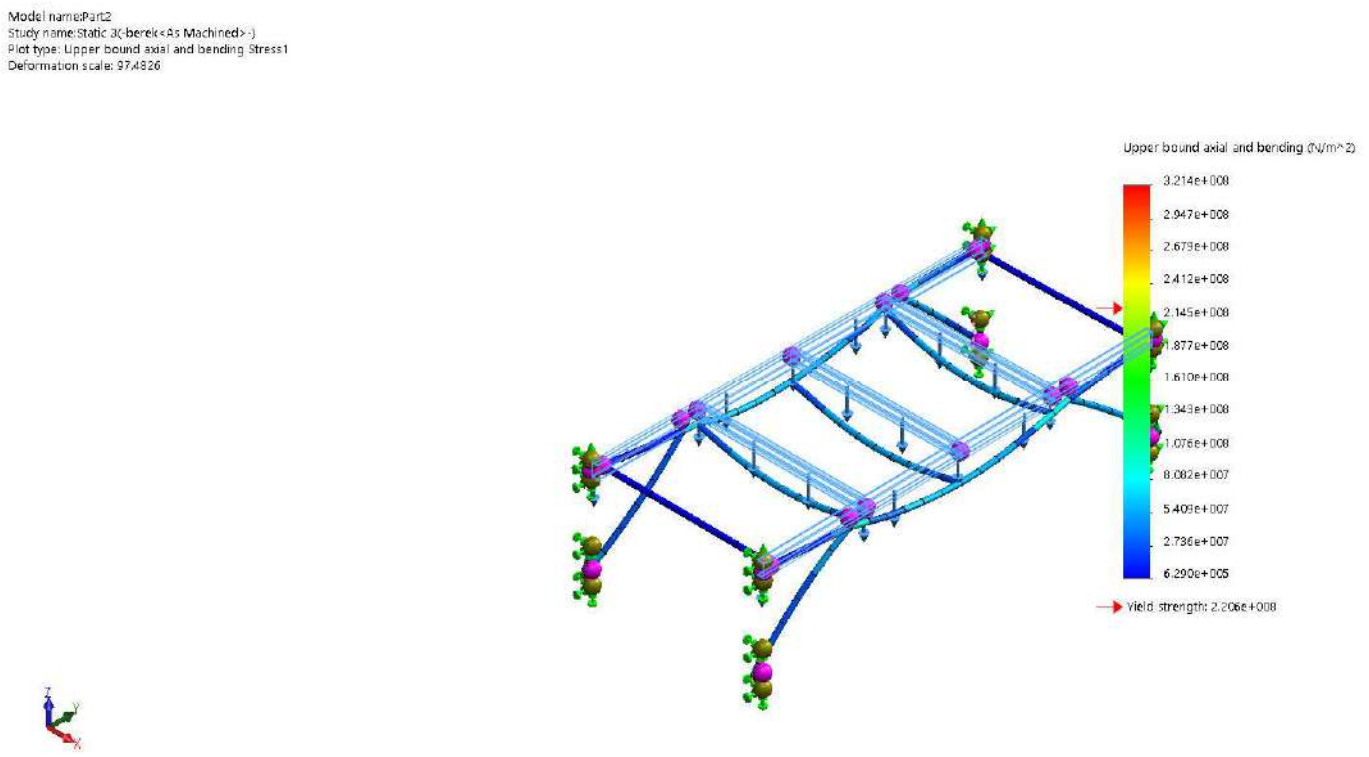
Loads and Fixtures

Fixture name	Fixture Image	Fixture Details
Fixed-1		**Entities:** 16 Joint(s) **Type:** Fixed Geometry

Load name	Load Image	Load Details
Force-1		**Entities:** 5 Beam (s) **Reference:** Edge< 1 > **Type:** Apply force **Values:** ---, ---, -10000 N **Moments:** ---, ---, --- N.m

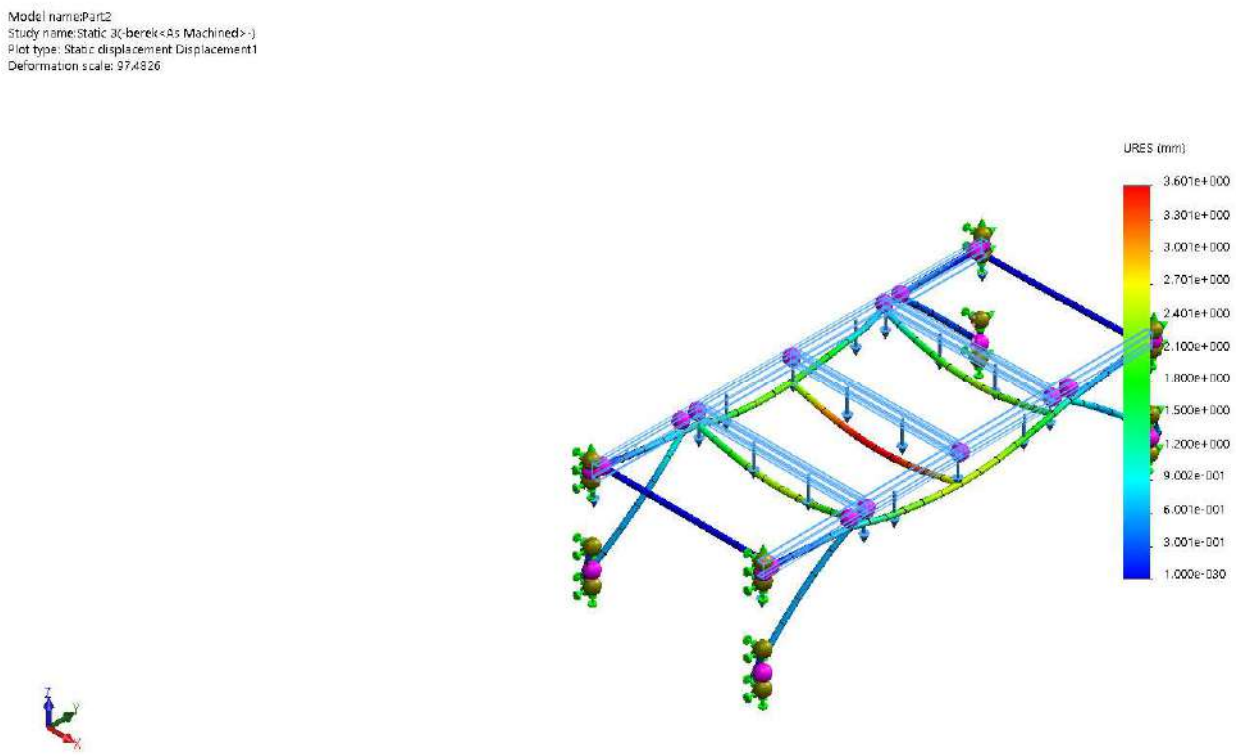
Study Results

Name	Type	Min	Max
Stress1	Upper bound axial and bending	6.290e+005N/m^2 Element: 23	3.214e+008N/m^2 Element: 4



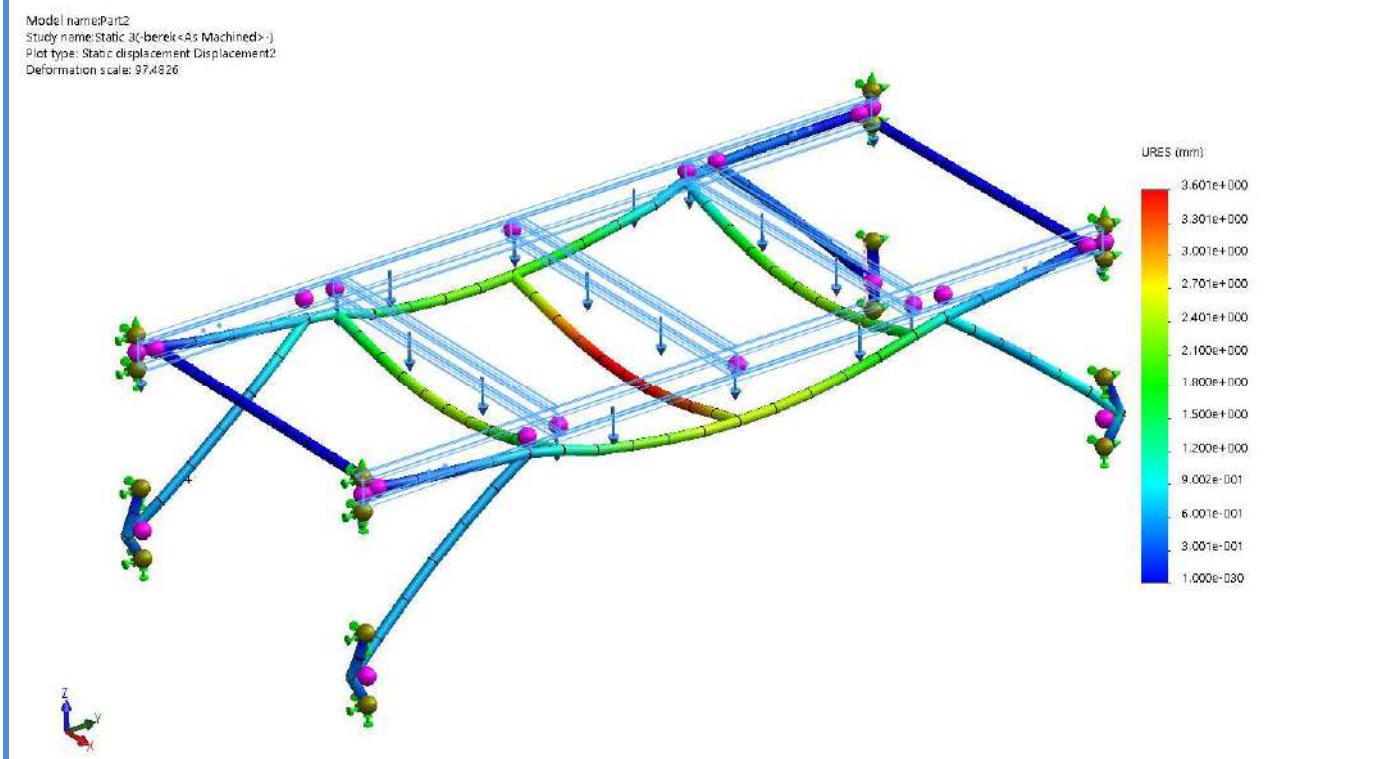
Part2-Static 3-Stress-Stress1

Name	Type	Min	Max
Displacement1	URES: Resultant Displacement	0.000e+000mm Node: 1	3.601e+000mm Node: 131



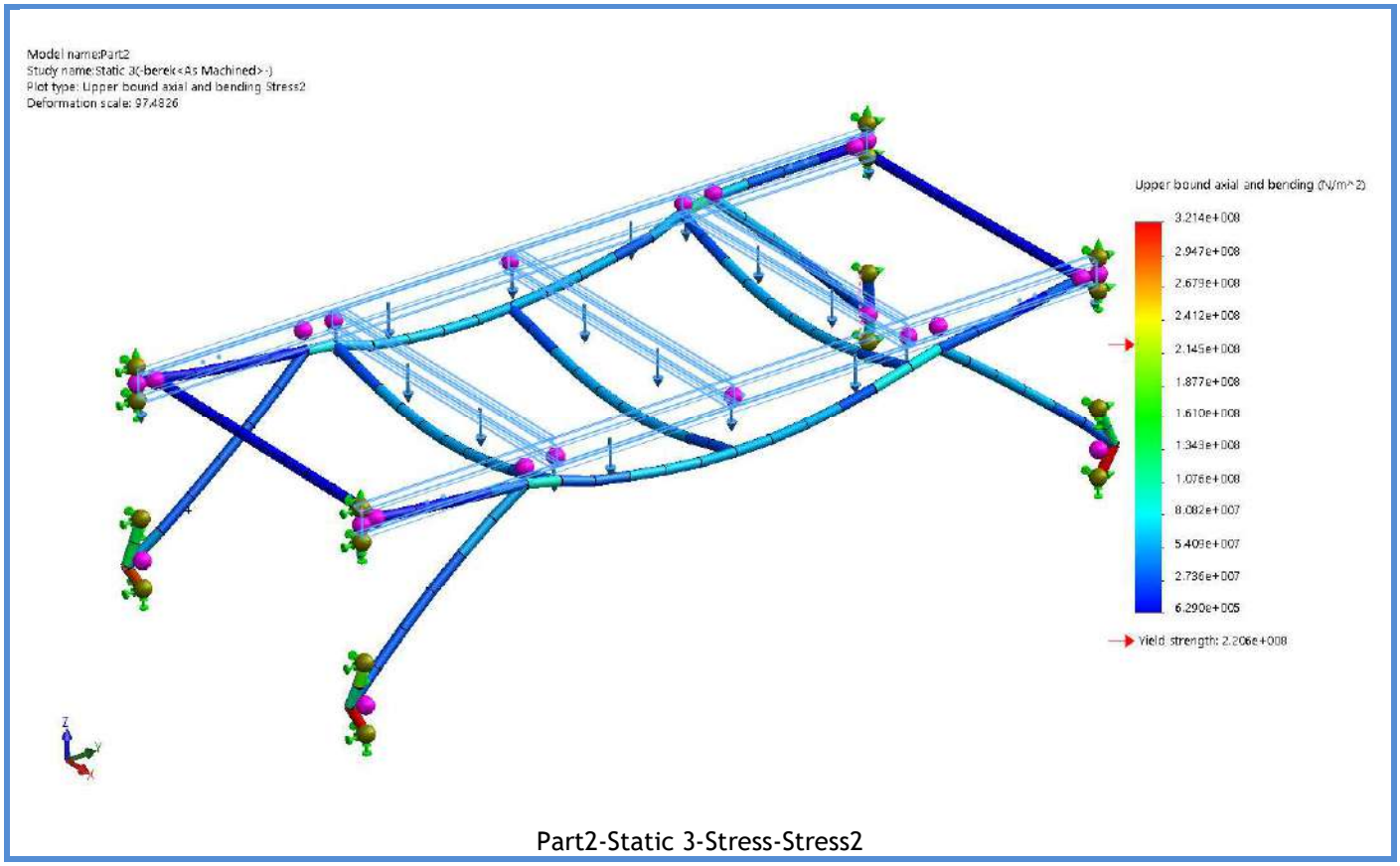
Part2-Static 3-Displacement-Displacement1

Name	Type	Min	Max
Displacement2	URES: Resultant Displacement	0.000e+000mm Node: 1	3.601e+000mm Node: 131



Part2-Static 3-Displacement-Displacement2

Name	Type	Min	Max
Stress2	Upper bound axial and bending	6.290e+005N/m^2 Element: 23	3.214e+008N/m^2 Element: 4



Part2-Static 3-Stress-Stress2

Conclusion