

□ Simulation Model 1:1

□ Study 1 - Static Stress

□ Study Properties

Study Type	Static Stress
Last Modification Date	2020-08-18, 14:34:32

□ Settings

□ General

Contact Tolerance	0.1 mm
Remove Rigid Body Modes	No

□ Damping

□ Mesh

Average Element Size (% of model size)	
Solids	5
Scale Mesh Size Per Part	No
Average Element Size (absolute value)	-
Element Order	Linear
Create Curved Mesh Elements	No
Max. Turn Angle on Curves (Deg.)	60
Max. Adjacent Mesh Size Ratio	1.5
Max. Aspect Ratio	10
Minimum Element Size (% of average size)	10

□ Adaptive Mesh Refinement

Number of Refinement Steps	0
Results Convergence Tolerance (%)	20
Portion of Elements to Refine (%)	10
Results for Baseline Accuracy	Von Mises Stress

⊕ Materials

□ Contacts

⊕ Bonded

□ Mesh

Type	Nodes	Elements
Solids	49422	147594

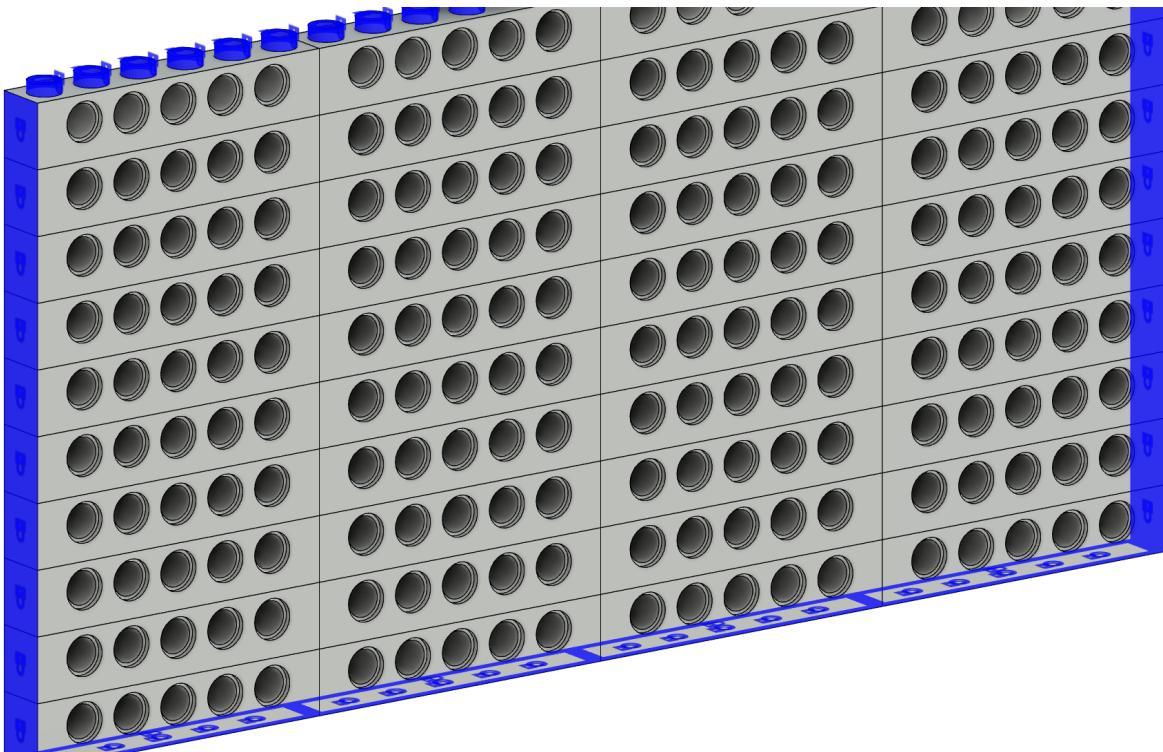
□ Load Case1

□ Constraints

□ Fixed1

Type	Fixed
Ux	Yes
Uy	Yes
Uz	Yes

Selected Entities

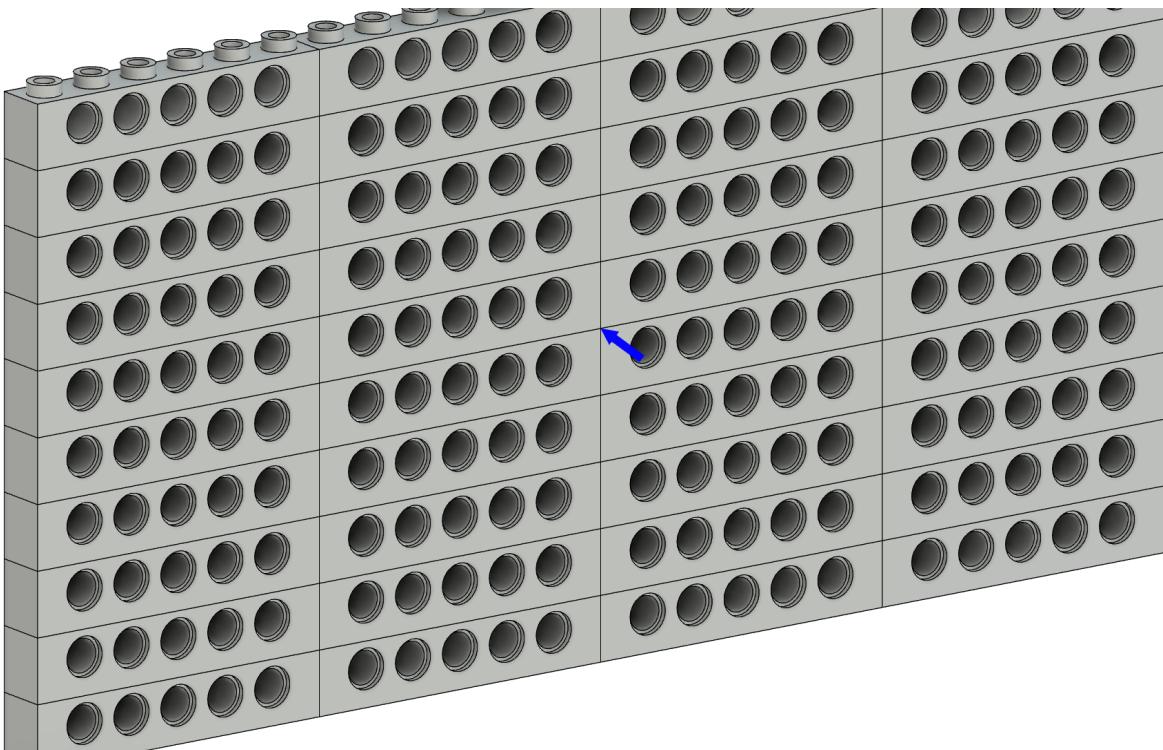


Loads

Force1

Type	Force
Magnitude	300 N
X Value	-173.2 N
Y Value	-173.2 N
Z Value	173.2 N
Force Per Entity	No

Selected Entities



Results

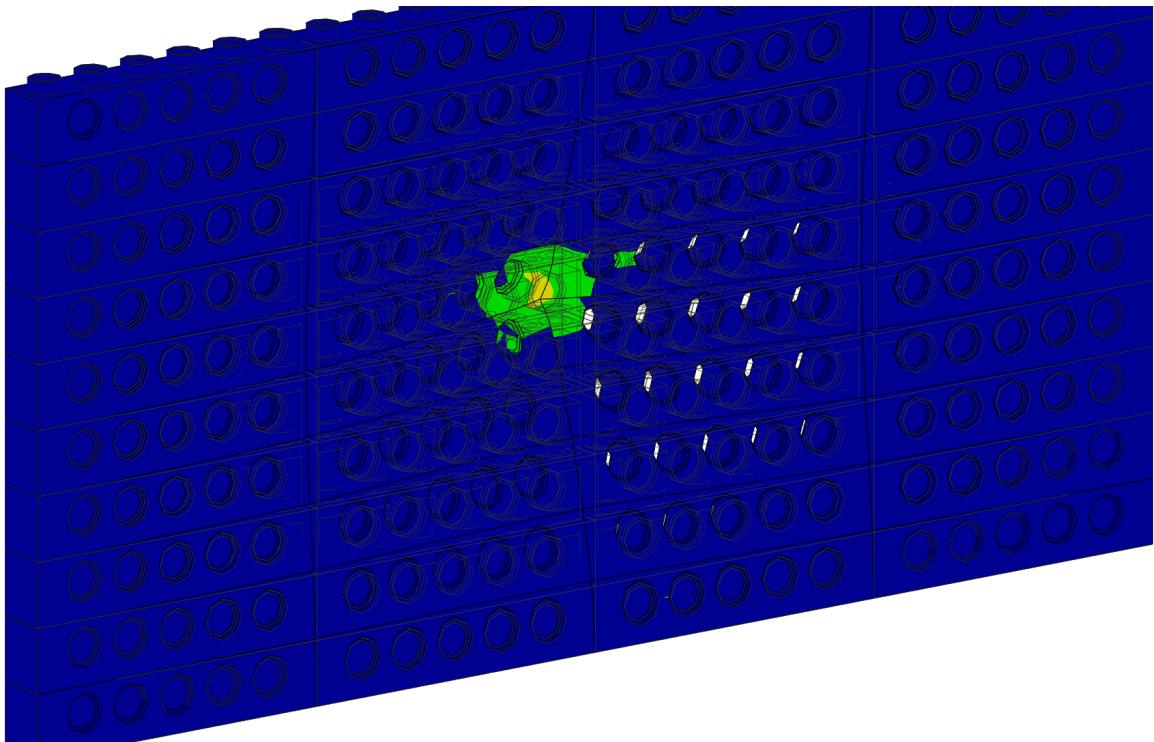
Result Summary

Name	Minimum	Maximum
Safety Factor		
Safety Factor (Per Body)	2.107	15
Stress		
Von Mises	0 MPa	9.49 MPa
1st Principal	-7.755 MPa	6.355 MPa
3rd Principal	-18.06 MPa	1.45 MPa
Normal XX	-10.6 MPa	3.123 MPa
Normal YY	-13.04 MPa	4.9 MPa
Normal ZZ	-11.85 MPa	5.315 MPa
Shear XY	-3.998 MPa	1.576 MPa
Shear YZ	-3.245 MPa	2.814 MPa
Shear ZX	-2.234 MPa	2.754 MPa
Displacement		
Total	0 mm	0.2095 mm
X	-0.2043 mm	7.795E-04 mm
Y	-0.03874 mm	0.00581 mm
Z	-0.01437 mm	0.02701 mm
Reaction Force		
Total	0 N	25.59 N
X	-20.96 N	15.55 N
Y	-8.253 N	8.395 N
Z	-24.39 N	19.65 N
Strain		
Equivalent	0	0.007857
1st Principal	0	0.004962
3rd Principal	-0.008841	0
Normal XX	-0.002085	0.002036
Normal YY	-0.002851	0.001971
Normal ZZ	-0.002619	0.001831
Shear XY	-0.004926	0.001942
Shear YZ	-0.003998	0.003468
Shear ZX	-0.002753	0.003394
Contact Pressure		
Total	0 MPa	11.2 MPa
X	-3.206 MPa	2.244 MPa
Y	-7.883 MPa	3.228 MPa
Z	-5.053 MPa	7.287 MPa

Safety Factor

Safety Factor (Per Body)

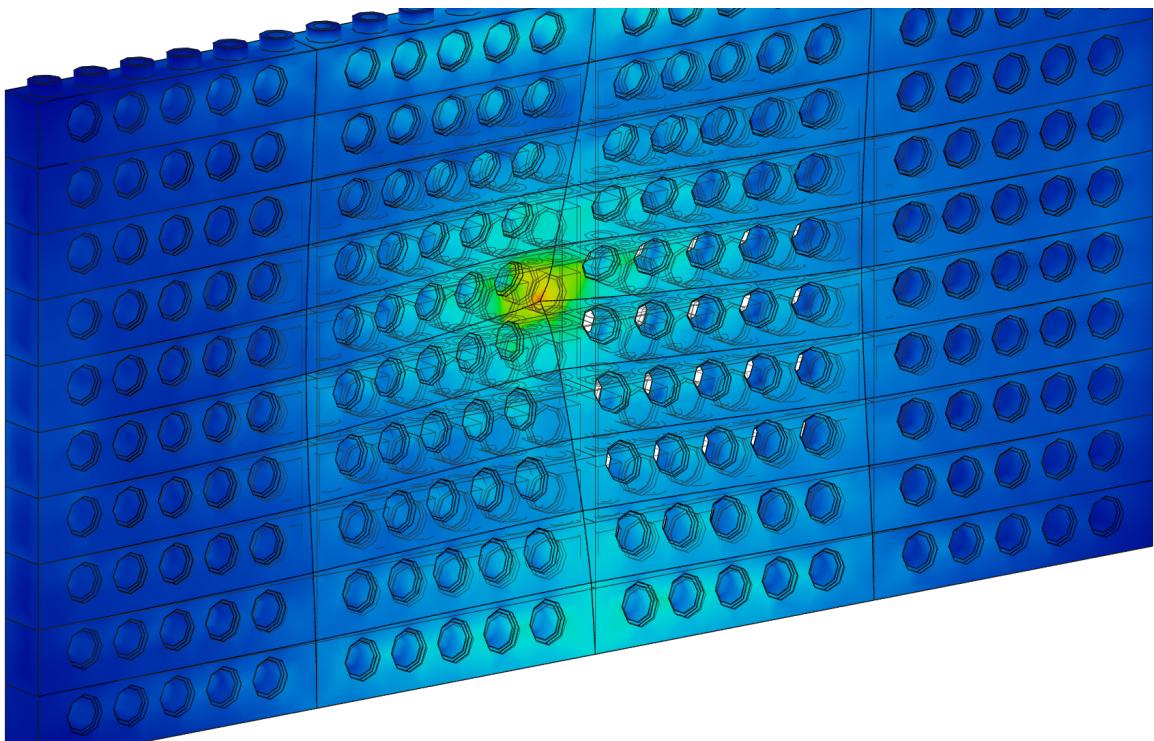
0  8



☒ Stress

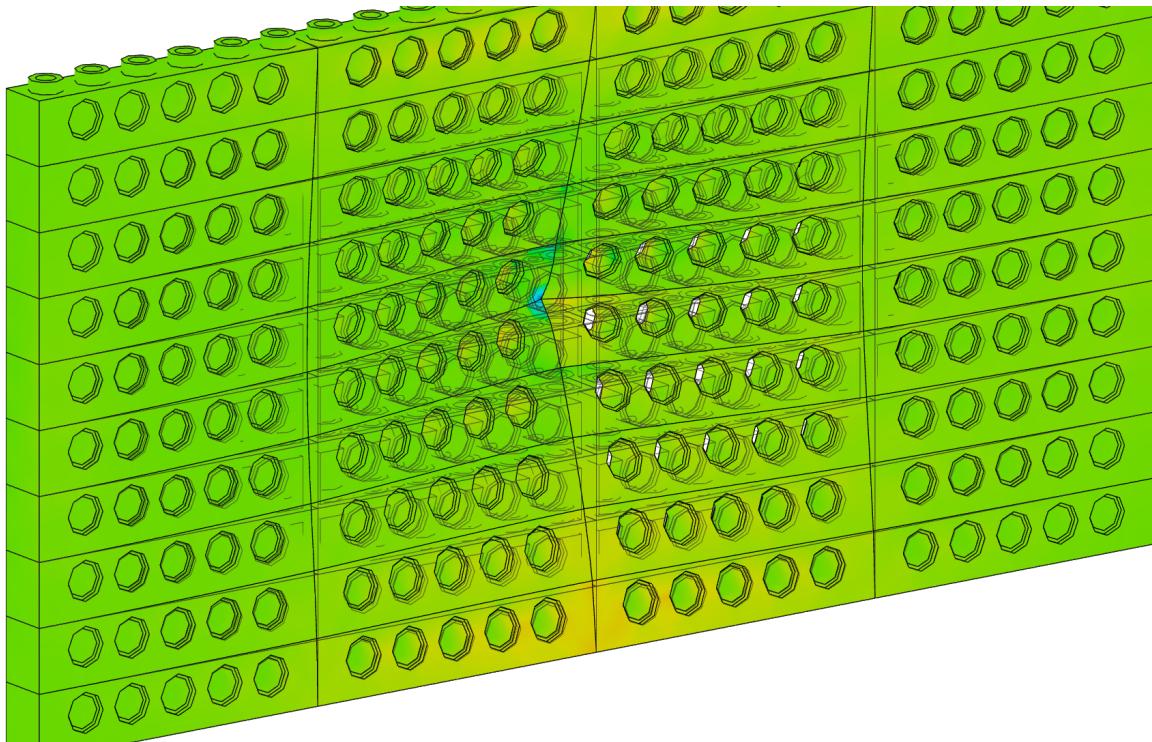
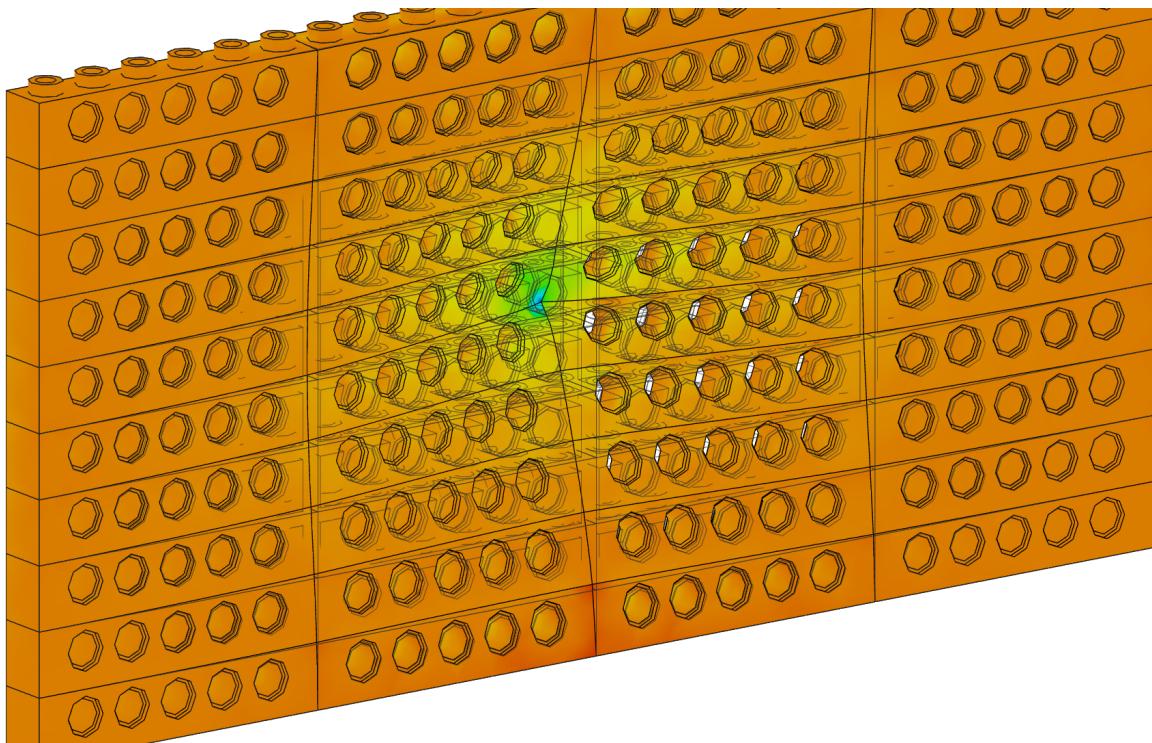
☒ Von Mises

[MPa] 0 9.49



☒ 1st Principal

[MPa] -7.755 6.355

**☒ 3rd Principal**[MPa] -18.06  1.45**☒ Displacement****☒ Total**[mm] 0  0.2095

