

SimOps Structural Report

Component: Cube

PASSED

Date: 2025-12-28 19:25

Analysis Metrics

Strategy:	Default
Load Case:	1.0G Z-Load
Max Von Mises Stress:	5.6132E-03 MPa
Max Displacement:	2.96 μ m
Safety Factor:	49170.08
Elements:	1,161
Nodes:	2,120

Physics Validation

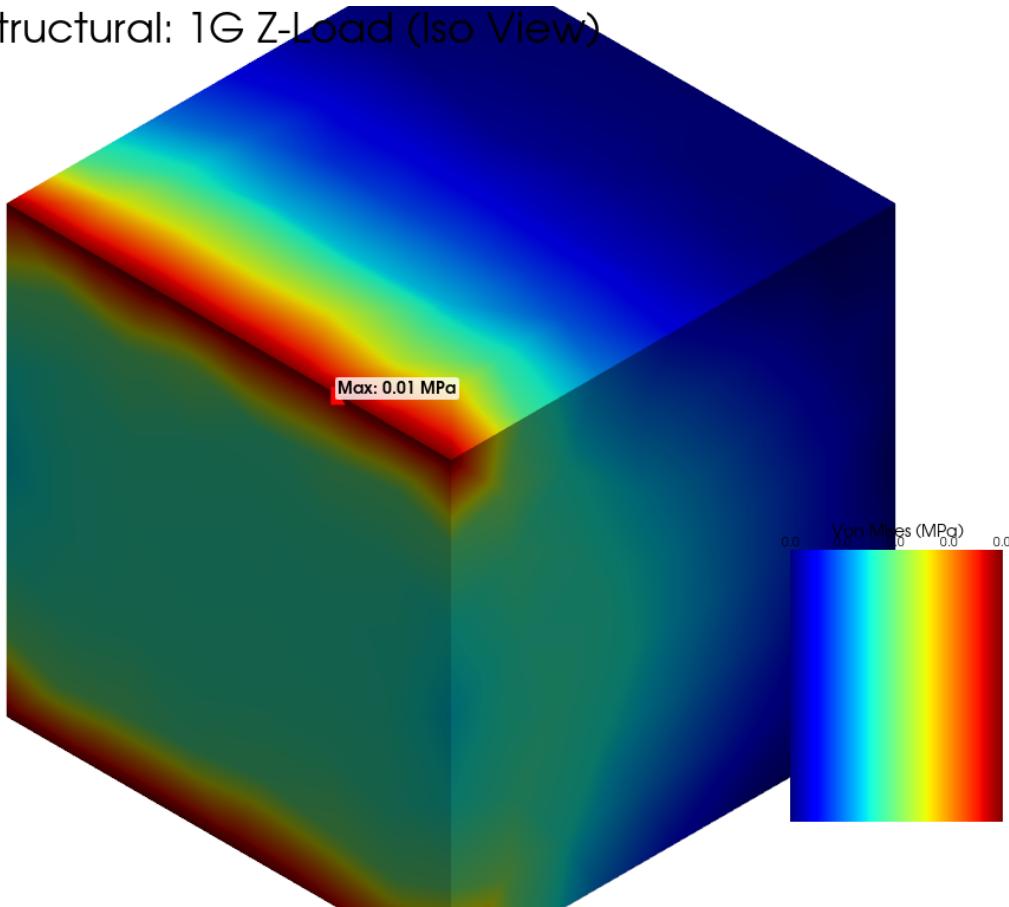
Stress Margin: ✓ PASS (0.01 < 184.0 MPa)
Displacement: ✓ PASS (2.96 μ m < 50.00 μ m)

Material: Al6061-T6

Yield Strength: 276 MPa

Static Structural: 1G Z-Load (Iso View)

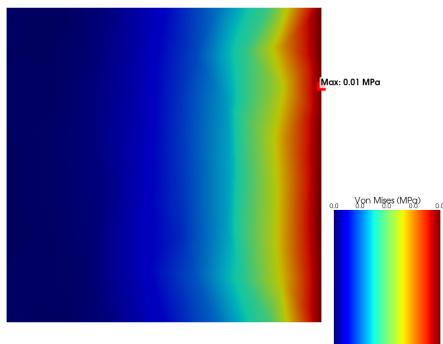
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Additional Views

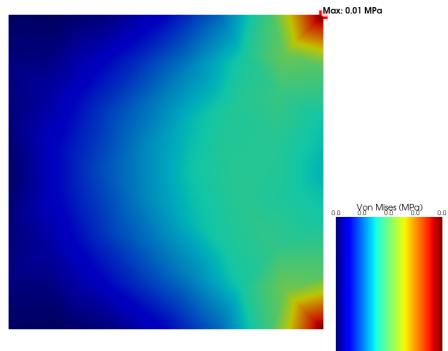
Top

Static Structural: 1G Z-Load (Top View)



Front

Static Structural: 1G Z-Load (Front View)



Side

Static Structural: 1G Z-Load (Side View)

