SimOps Structural Report

Component: L_bracket

Date: 2025-12-28 19:25

Analysis Metrics

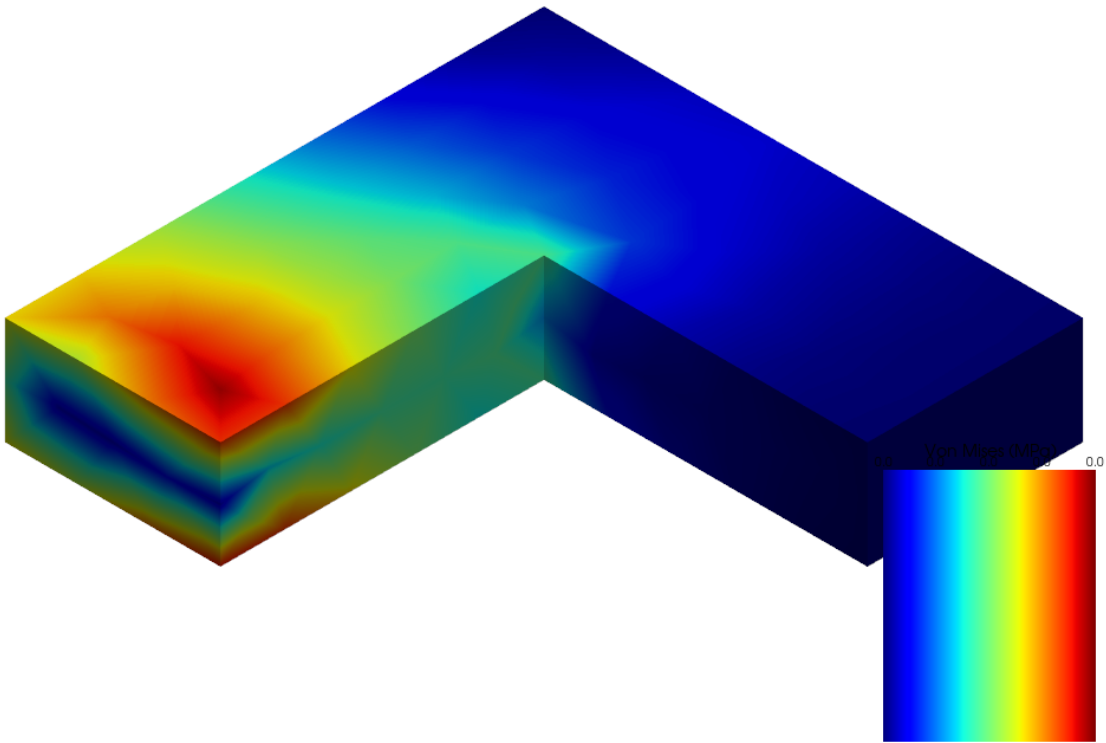|	
Strategy:	Default
Load Case:	1.0G Z-Load
Max Von Mises Stress:	3.9336E-02 MPa
Max Displacement:	127.24 µm
Safety Factor:	7016.45
Elements:	422
Nodes:	937

Physics Validation

Stress Margin:	✓ PASS (0.04 < 184.0 MPa)
Displacement:	✓ PASS (127.24 µm < 50.00 µm)

Material: Al6061-T6

Yield Strength: 276 MPa

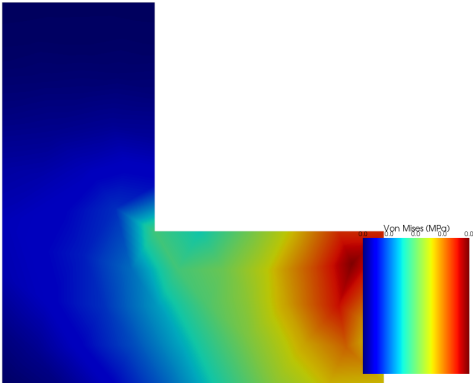Static Structural: 1G Z-Load (Iso View)

St

Additional Views

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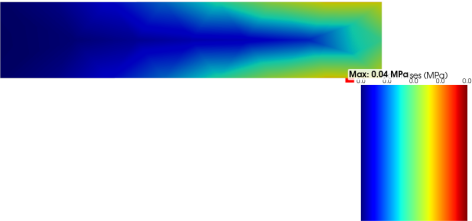Static Structural: 1G Z-Load (Top View)

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

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