SimOps Structural Report

Component: L_bracket
Date: 2025-12-28 00:03

Analysis Metrics

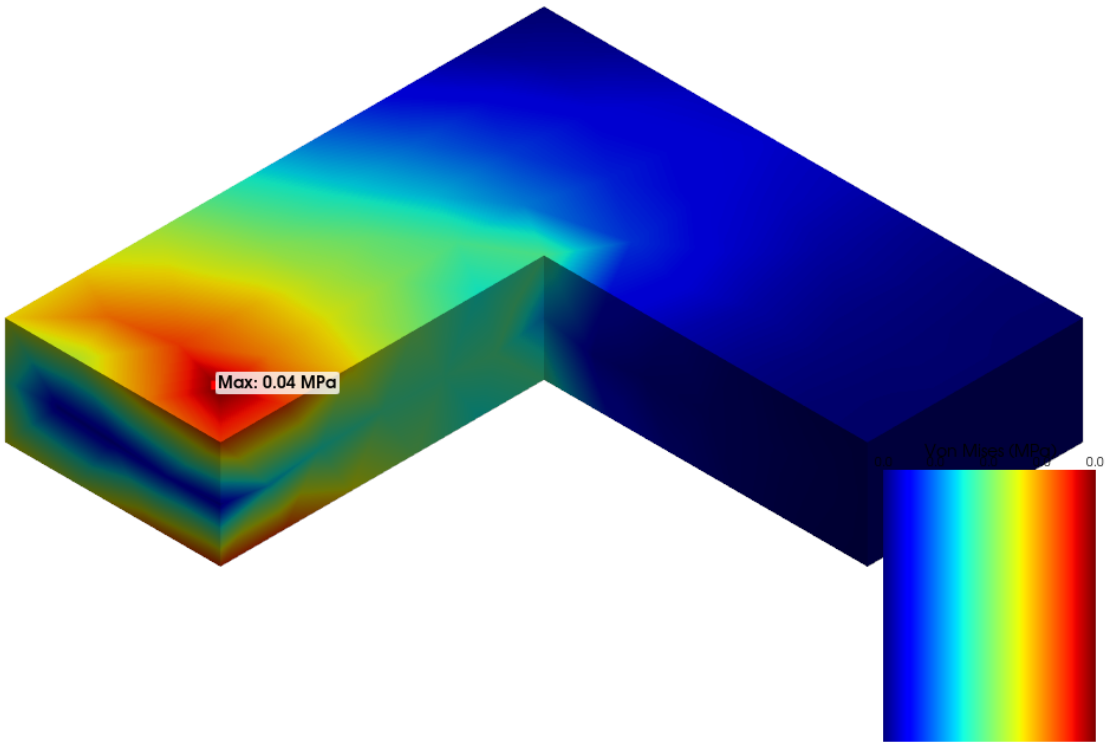|	
Strategy:	Default
Load Case:	1.0G Z-Load
Max Von Mises Stress:	3.9247E-02 MPa
Max Displacement:	127.17 μm
Safety Factor:	7032.40
Elements:	419
Nodes:	931

Physics Validation

Stress Margin: ✓ PASS (0.04 < 184.0 MPa)

Displacement: ✓ PASS (127.17 μm < 50.00 μm)

Material: Al6061-T6

Yield Strength: 276 MPa

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

St
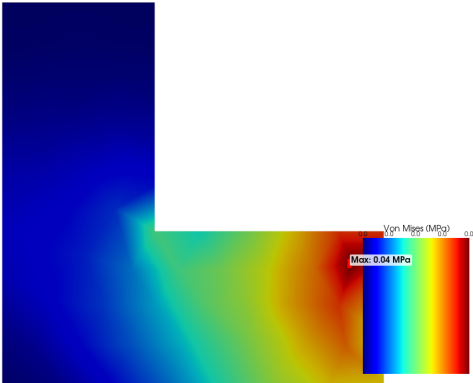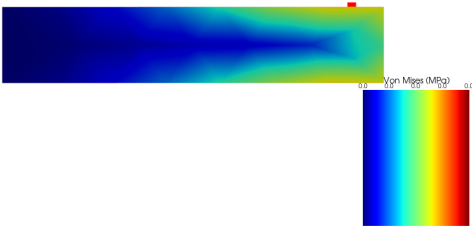

Max: 0.04 MPa

Additional Views

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

Von Mises (MPa)

Max: 0.04 MPa

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

Von Mises (MPa)

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

Von Mises (MPa)