Saddle Support Formulas...





Saddle Support Formulas

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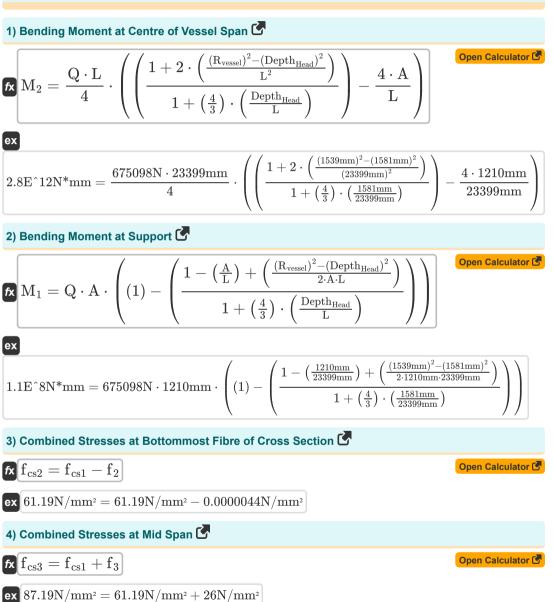




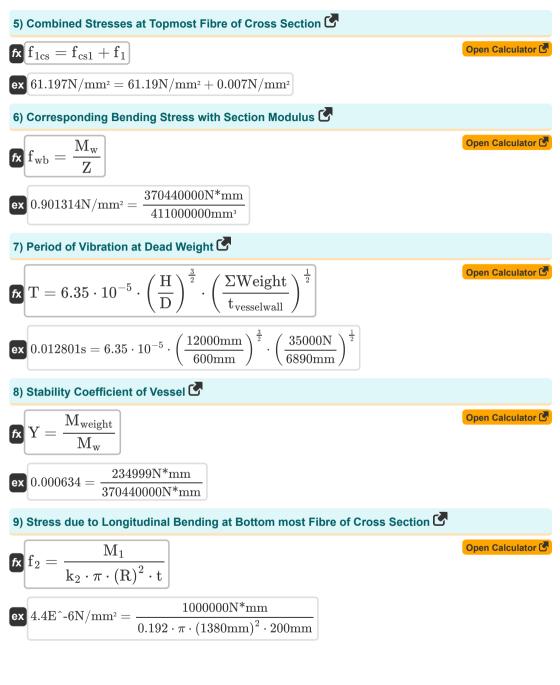
List of 12 Saddle Support Formulas

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Saddle Support 🕑



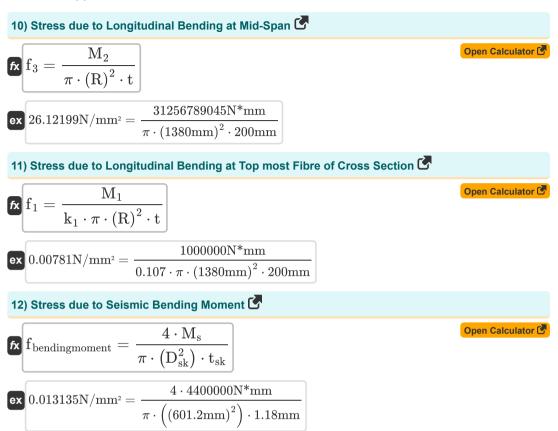








Saddle Support Formulas...





Variables Used

- A Distance from Tangent Line to Saddle Centre (Millimeter)
- D Diameter of Shell Vessel Support (Millimeter)
- D_{sk} Mean Diameter of Skirt (Millimeter)
- Depth_{Head} Depth of Head (Millimeter)
- f1 Stress Bending Moment at Topmost of Cross Section (Newton per Square Millimeter)
- f_{1cs} Combined Stresses Topmost Fibre Cross Section (Newton per Square Millimeter)
- f2 Stress at Bottom most Fibre of Cross Section (Newton per Square Millimeter)
- f3 Stress due to Longitudinal Bending at Mid-Span (Newton per Square Millimeter)
- fbendingmoment Stress due to Seismic Bending Moment (Newton per Square Millimeter)
- fcs1 Stress due to Internal Pressure (Newton per Square Millimeter)
- f_{cs2} Combined Stresses Bottommost Fibre Cross Section (Newton per Square Millimeter)
- fcs3 Combined Stresses at Mid Span (Newton per Square Millimeter)
- fwb Axial Bending Stress at Base of Vessel (Newton per Square Millimeter)
- H Overall Height of Vessel (Millimeter)
- k1 Value of k1 depending on Saddle Angle
- k2 Value of k2 depending on Saddle Angle
- L Tangent to Tangent Length of Vessel (Millimeter)
- M1 Bending Moment at Support (Newton Millimeter)
- M2 Bending Moment at Centre of Vessel Span (Newton Millimeter)
- M_s Maximum Seismic Moment (Newton Millimeter)
- **M**_w Maximum Wind Moment (Newton Millimeter)
- Mweight Bending Moment due to Minimum Weight of Vessel (Newton Millimeter)
- **Q** Total Load per Saddle (Newton)
- R Shell Radius (Millimeter)
- Rvessel Vessel Radius (Millimeter)
- t Shell Thickness (Millimeter)
- T Period of Vibration at Dead Weight (Second)
- t_{sk} Thickness of Skirt (Millimeter)
- tvesselwall Corroded Vessel Wall Thickness (Millimeter)



Saddle Support Formulas...

- Y Stability Coefficient of Vessel
- Z Section Modulus of Skirt Cross Section (Cubic Millimeter)
- **ΣWeight** Weight of Vessel with Attachments and Contents (Newton)

Constants, Functions, Measurements used

- Constant: pi, 3.14159265358979323846264338327950288 Archimedes' constant
- Measurement: Length in Millimeter (mm) Length Unit Conversion
- Measurement: Time in Second (s) Time Unit Conversion
- Measurement: Volume in Cubic Millimeter (mm³) Volume Unit Conversion
- Measurement: Force in Newton (N) Force Unit Conversion
- Measurement: Moment of Force in Newton Millimeter (N*mm) Moment of Force Unit Conversion
- Measurement: Bending Moment in Newton Millimeter (N*mm) Bending Moment Unit Conversion
- Measurement: Stress in Newton per Square Millimeter (N/mm²) Stress Unit Conversion



Check other formula lists Design of Anchor Bolt & Bolting Chair Formulas Design Thickness of Skirt Formulas Skirt Support Formulas Skirt Supports Formulas

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