SEA-CURE® Vibration Resistance

Minimum Walls for Various Condenser Candidates for Similar Support Spacing

ALLOY	MODULUS	WALL
Admiralty	16 x 10 ⁶ psi	.049"
90/10 Cu/Ni	18.0	.043"
70/30 Cu/Ni	22.0	.034"
Туре 439	29.0	.025"
Туре 304 / Туре 316	28.3	.026"
N08367	28.2	.027"
SEA-CURE®/S44660	31.5	.023"
Ti Grade 2	14.9	.053"

<u>Coit</u> L = 9.5 [(E I) / p v² D)] ¹⁄₄ I = Pi / 64 (D⁴ − ID⁴)

Where:

- L = Span Where Vibration Initiates
 - E = Modulus of Elasticity (psi)
- I = Moment of Inertia (in⁴)

- p = Turbine Exhaust Density (lb/ft³)
- v = Average Exhaust Steam Velocity at Condenser Inlet
- D = Tube Outside Diameter

ID = Tube Inside Diameter

SEA-CURE[®] – Tantamount to Titanium