

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
22	Min. thk. of pipe or tube, $t = T_{nom} - (T_{nom} * Mill \%) - A - h$ 0.2818 inch (7.2 mm)																	
23	Weight of pipe or tube per unit length, $W_p = P_{den} * A_m * (12 \text{ if Imperial, or } 0.000001 \text{ if metric units})$ $W_p = 28.2/3$ lbs / ft (42.64 kg / m)																	
24	Insulation: CaSi			Density, $T_{ins} = 11 \text{ lbs / ft}^3$ (176.2 kg / m ³)										Thickness, $T_i = 3$ inch (76.2 mm)				
25	Weight of insulation per unit length (w/ factor 1.12 for lagging), $W_i = 1.12 * A_i * T_{ins} / (12^2 \text{ if Imperial units, or } 1000^2 \text{ if metric units})$ $W_i = 9.3737$ lbs / ft (13.95 kg / m)																	
26																		
27	Liner on ID: none			Density, $L_{den} = \dots$										Thickness, $T_r = 0$ inch (0 mm)				
28	Weight of liner per unit length, $W_r = L_{den} * A_r * (12 \text{ if Imperial, or } 0.000001 \text{ if metric units})$ $W_r = 0$ lbs / ft (0 kg / m)																	
29	Ice Thickness (externally), T_{ice}			0 inch (0 mm)														
30	Weight of ice (external w/ S.G. = 0.9) per unit length, $W_{ice} = 0.9 * A_{ice} * (52.4/12^2 \text{ if Imperial units, or } 0.001 \text{ if metric units})$ $W_{ice} = 0$ lbs / ft (0 kg / m)																	
31																		
32	Weight of concentrated load assumed at center of span (valves + flanges + animal, etc.):															$W_c = 100$ lbs (45 kg)		
33	Reference Dr. Qui Trong, Houston, TX, USA:																	
34	The allowable load at support point can be given by the following:																	
35	$P_A = (S_b * t^{1.5} * b) / (1.8 * R^{0.5})$																	
36	Where:																	
37	P_A = allowable load																	
	S_b = basic allowable stress, hot																	
	t = effective thickness = pipe wall + repad																	
	b = bearing length of pipe on support																	
	R = outside radius of pipe = $D_o / 2$																	
	If the actual load at the support is greater than the allowable load given by the above formula, then a reinforcement pad will be required.																	
38	Typical Arrangement																	
39	Reinforcing Pad Thickness															$t_p = 0$ inch (0 mm)		
40	Bearing Length of Pipe (along the pipe axis, on the support structure):															$b = 4$ inch (101.6 mm)		
41	Length of support span															$L_p = 19$ feet (5.79 meters)		
42	Total weight per unit length, $W = W_p + W_r + W_i + W_{ice}$ (excluding W_c) $W = 60$ lbs / ft (89 kg / m)																	
43	TOTAL WEIGHT AT EACH SUPPORT, $W_s = (W L_p + W_c) / 2$ $W_s = 617$ lbs (280 kg)																	
44	ALLOWABLE LOAD AT EACH SUPPORT POINT, $P_A = (S_b * (t_p + t)^{1.5} * b) / (1.8 * R)$ $P_A = 584$ lbs (265 kg)																	
45	Allowable load of 584 lbs (265 kg) is exceeded.																	

Pipe Support Calculations

Richard Bailey



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