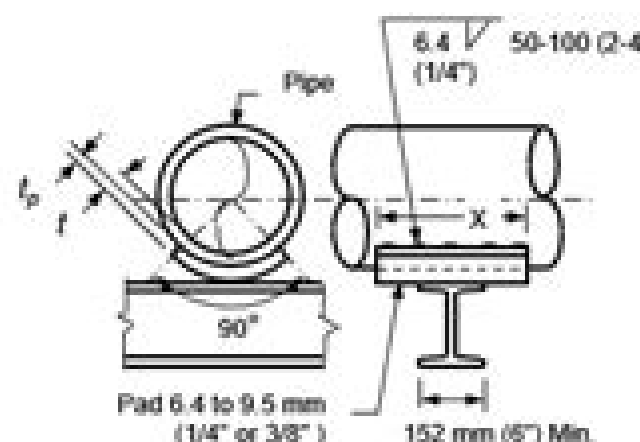


	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	
22	Min. thk. of pipe or tube, $t = T_{nom} - (T_{nom} * Mill \%) - A - h$ 0.2818 inch (7.2 mm)																		
23	Weight of pipe or tube per unit length, $W_p = P_{den} * A_m * (12 \text{ if Imperial, or } 0.000001 \text{ if metric units})$ $W_p = 28.2/3$ lbs / 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:																		
	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.																		
																			
	Typical Arrangement																		
38																			
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

Keith Escoe



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Table of Contents Pipe Support Calculations

1. Understanding the eBook Pipe Support Calculations
 - The Rise of Digital Reading Pipe Support Calculations
 - Advantages of eBooks Over Traditional Books
2. Identifying Pipe Support Calculations
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an eBook Platform
 - User-Friendly Interface
4. Exploring eBook Recommendations from Pipe Support Calculations
 - Personalized Recommendations
 - Pipe Support Calculations User Reviews and Ratings
 - Pipe Support Calculations and Bestseller Lists

5. Accessing Pipe Support Calculations Free and Paid eBooks
 - Pipe Support Calculations Public Domain eBooks
 - Pipe Support Calculations eBook Subscription Services
 - Pipe Support Calculations Budget-Friendly Options
6. Navigating Pipe Support Calculations eBook Formats
 - ePub, PDF, MOBI, and More
 - Pipe Support Calculations Compatibility with Devices
 - Pipe Support Calculations Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Pipe Support Calculations
 - Highlighting and Note-Taking Pipe Support Calculations
 - Interactive Elements Pipe Support Calculations
8. Staying Engaged with Pipe Support Calculations
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Pipe Support Calculations
9. Balancing eBooks and Physical Books Pipe Support Calculations
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Pipe Support Calculations
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Pipe Support Calculations
 - Setting Reading Goals Pipe Support Calculations
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Pipe Support Calculations
 - Fact-Checking eBook Content of Pipe Support Calculations
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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