



Municipality of Anchorage



Policy R.04

Mini-Piles for Residential Deck and Porch Roof Loads – Jim Brown Construction

This policy applies to small diameter pipe piles installed by “Jim Brown Construction” per the January 23, 2002 Wince Corthel Bryson letter or alternately in the March 30, 1998 Shannon & Wilson Inc. letter. Piles supporting exterior decks, landings or platforms without roofs, and not more than 30 inches above grade, and not rigidly connected to the house do not need to be designed per local amendment to the International Residential Code Table 23.85.R403.1 note 3. Piles not meeting these requirements are acceptable when load test records are submitted from a geotechnical engineer or when meeting the other criteria outlined in the “Wince-Corthell-Bryson” report.

LIMITATIONS:

1. Minimum penetration of 15 feet, except piles which encounter refusals more than 8 feet are acceptable.
2. Mini-piles cannot be used for lateral bracing without specific design by a geotechnical engineer.
3. 2 & 3 & 4 inch piles for decks, walkways, ramps and porches without roof loads.
4. 3 & 4 inch piles only for minor accessory roof loads such as arctic entries & porch roofs.
5. Pile loads must be shown on the building plans.
6. Installer shall provide a pile driving record to the Building Inspector showing pile size, wall thickness, length, total penetration and time in seconds for the final inch of penetration.

ALLOWABLE LOADS FOR STANDARD PIPE PILES SUPPORTING MINOR PORCH, DECK OR ARCTIC ENTRY ROOF LOADS 500 FT-LB BOBCAT HYDRAULIC BREAKER MODEL 3570

Pile Size	Pile Capacity	Terminal Driving Rate
2 inch (nominal)	2.2 kips	60 seconds/(inch - final)
3 inch	2.8 kips	60 seconds/inch
4 inch	3.1 kips	60 seconds/inch

Piles supporting roof must be designed per the Building Code. Based on the Wince-Corthel-Bryson letter dated January 23, 2002. 500 ft-lb Bobcat Hydraulic Breaker Model 3570. 15 foot minimum embedment except refusal > 8 foot OK. "Pacific Coast UBC Formula". F.S.= 4.0.

ALLOWABLE LOADS FOR STANDARD PIPE PILES SUPPORTING MINOR PORCH, DECK OR ARCTIC ENTRY ROOF LOADS 1000 FT-LB ALLIED MODEL 730 HY-RAM IMPACT HAMMER

Pile Size	Pile Capacity	Terminal Driving Rate
3 inch (nominal)	4.2 kips	60 seconds/(inch - final)
4 inch	4.8 kips	60 seconds/inch
5 inch	5.3 kips	60 seconds/inch
6 inch	5.7 kips	60 seconds/inch

Piles supporting roof must be designed per the Building Code. Based on the Wince-Corthel-Bryson letter dated January 23, 2002. 1000 ft-lb Allied Model 730 Hy-Ram Impact Hammer. 15 foot minimum embedment except refusal > 8 foot OK. "Pacific Coast UBC Formula". F.S.= 4.0.

Ron Thompson, Building Official

Date: April 7, 2006

(Rev: 02-05, 05-09)