



COMBINED PINEX® ANCHOR PILE & HOUSE PILE OFFER

PRODUCT INFORMATION

Whilst Anchor and House Piles are used extensively in New Zealand to form the foundations of many residential dwellings they perform slightly different functions. Anchor Piles have improved performance characteristics than standard House Piles.

Rather than supplying both Anchor and House Piles, Carter Holt Harvey Woodproducts offer a Pinex® combined Anchor/House Pile in lengths above 1.2m, providing consumers with product that is capable of both vertical and lateral loading when installed in accordance with New Zealand Standards. These are branded accordingly as shown below.

PINEX® ANCHOR & HOUSE PILE BRANDING

All products in the combined Anchor Pile and House Pile offer are marked with a Timber Tag. An example of this Timber Tag is below:

House Piles are branded as below, excluding the 'A' denoting Anchor Pile.

Figure 1: Pinex® Anchor Pile & House Pile Timber Tag

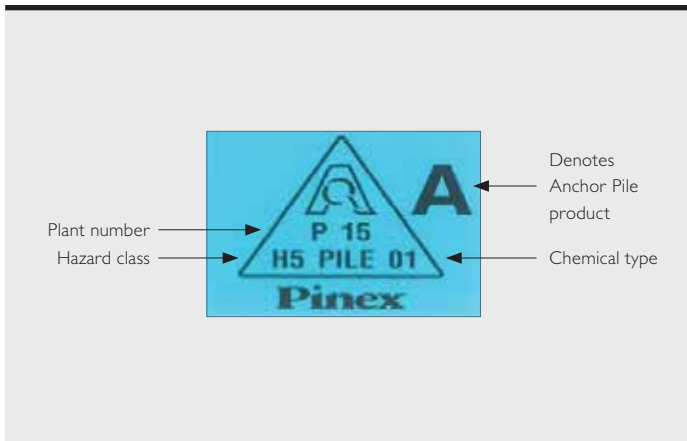


Table 1: Pinex® Anchor Pile & House Pile Product Range

Product	SKU	Product Description
Anchor Pile	2393224	Timber, R; 125 x 125, A/H Pile, W, H5, RS, 1.200
Anchor Pile	2393221	Timber, R; 125 x 125, A/H Pile, W, H5, RS, 1.500
Anchor Pile	2393223	Timber, R; 125 x 125, A/H Pile, W, H5, RS, 1.800
Anchor Pile	2393222	Timber, R; 125 x 125, A/H Pile, W, H5, RS, 2.100
Anchor Pile	2393169	Timber, R; 125 x 125, A/H Pile, W, H5, RS, 2.400
Anchor Pile	2393220	Timber, R; 125 x 125, A/H Pile, W, H5, RS, 2.700
Anchor Pile	2393168	Timber, R; 125 x 125, A/H Pile, W, H5, RS, 3.000
Anchor Pile	2393167	Timber, R; 125 x 125, A/H Pile, W, H5, RS, 3.600
House Pile	2032867	Timber, R; 125 x 125, H Pile, W, H5, RS, 0.600
House Pile	2045359	Timber, R; 125 x 125, H Pile, W, H5, RS, 0.750
House Pile	2032868	Timber, R; 125 x 125, H Pile, W, H5, RS, 0.900

All Pinex Anchor Piles 1.2m long and above are graded to the requirements of NZS 3605 Timber Piles and Poles for use in Buildings.

WHAT MAKES AN ANCHOR PILE SPECIAL?

Piles generally form the foundations of residential dwellings which are commonly designed and constructed in accordance with NZS 3604, the standard for light timber framed buildings (houses or similar buildings).

Most of the piles in these foundations are designed to take the vertical (gravity) loads of the structure.

Just like wall framing, the subfloor structure is also required to withstand horizontal loads from wind and earthquake forces. Horizontal loads are catered for in a variety of ways which are assigned Bracing Units (BU's) for both wind and earthquake.



Commonly, square pile foundations are braced with diagonal members bolted to both the subfloor framing and standard House Piles, providing lateral resistance. Where floor levels are low and the ground is relatively level, Anchor Piles are an ideal, simple method of catering for both vertical and horizontal loads all in one, without the need for the addition of diagonal bracing.

Anchor Piles make use of a cantilever action to supply resistance to horizontal loads so verified strength and stiffness is important. Consequently, Anchor Piles are visually graded first, then random samples are tested to verify that the piles meet the requirements of NZS 3605, part of the NZBC Acceptable Solution B1/AS1.

The design of Anchor Piles in a foundation should follow NZS 3604:2011 Section 6.9 and Figures 6.9 and 6.10. Anchor Piles must always be a minimum of 800mm in the ground and a maximum distance of 0.6m to the highest connection above the clear ground.

All products are treated to H5 in accordance with NZS 3640.

Note: If House Piles are specified they can be substituted with Anchor Piles. However, if Anchor Piles are specified they cannot be substituted with House Piles.