

Test Results

To:	Mark Benson	From:	Jean Margerie
Organisation:	Hautapu Pine	Subject:	House Pile Test Results
Location:	Taihape	Date:	16 th December 2025
Fax No.:	06 388 1264	No. of Pages:	5
Tel No.:	027 443 5550		

Please call +64 7 343 5763 if transmission incomplete

Mark,

With reference to the 125 x 125 square sawn, steamed Radiata pine house piles supplied for proof testing in accordance with NZS 3605-2001. The piles were tested for proof load bending strength in accordance with NZS3605:2001 over a span of 1200mm (Figure 1) to a proof load of 40kN (6kNm). To comply, the piles must hold the proof load for at least 10 seconds.

All the bending testing was undertaken in our Grade 1 Baldwin Universal test machine in the Scion Timber Engineering laboratory over the period 10th to the 12th December 2025.

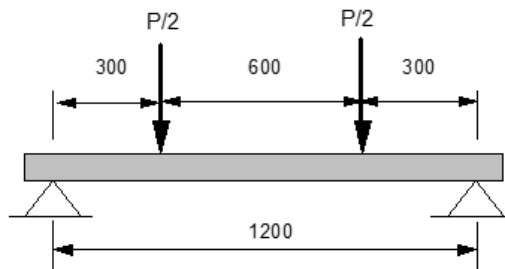


Figure 1. Bending test configuration

NZS3605:2001 Appendix A. states that the failure rate shall not be greater than 5% i.e. not more than 5 piles from a batch of 100 piles may fail the proof load test.

In this case two (2) pile failed to hold the required load for the required 10 seconds. One of the piles failed catastrophically. The other pile started to fail in compression and a bit in tension (picture 1 & 2) displaying clear sign of distress as per the standard.

Hence, after testing 100 piles, the failure rate was 2%.

Thus, the batch of piles passed the proof load test requirements of NZS3605:2001.

See Table 1 for the test results.

Please free to contact me to discuss as necessary.

Jean Margerie.

Jean Margerie

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Table 1: House piles test results

Lab No:	Client Ref:	Width (mm)	Depth (mm)	Max load (N)	MoRj (MPa)	Proof load Pass/Fail	Comments on Test
297043	1	125	125	43083	19.85	Pass	
297044	2	125	125	40256	18.55	Pass	
297045	2	125	125	41053	18.92	Pass	
297046	4	125	125	39968	18.42	Pass	
297047	5	125	125	39707	18.30	Pass	
297048	6	125	125	40176	18.51	Pass	
297049	7	125	125	41154	18.96	Pass	
297050	7	125	125	39600	18.25	Pass	
297051	9	125	125	40296	18.57	Pass	
297052	10	125	125	39667	18.28	Pass	
297053	11	125	125	40397	18.61	Pass	
297054	12	125	125	39995	18.43	Pass	
297055	13	125	125	40484	18.66	Pass	
297056	14	125	125	40886	18.84	Pass	
297057	15	125	125	40116	18.49	Pass	
297058	16	125	125	40450	18.64	Pass	
297059	17	125	125	40082	18.47	Pass	
297060	18	125	125	40765	18.78	Pass	
297061	19	125	125	40839	18.82	Pass	
297062	20	125	125	40383	18.61	Pass	
297063	21	125	125	40183	18.52	Pass	
297064	22	125	125	41643	19.19	Pass	
297065	23	125	125	40558	18.69	Pass	
297066	24	125	125	39901	18.39	Pass	
297067	25	125	125	40303	18.57	Pass	
297068	26	125	125	39667	18.28	Pass	
297069	27	125	125	39238	18.08	Pass	
297070	28	125	125	40765	18.78	Pass	
297071	29	125	125	40913	18.85	Pass	
297072	30	125	125	40256	18.55	Pass	
297073	31	125	125	40410	18.62	Pass	
297074	32	125	125	41221	18.99	Pass	
297075	33	125	125	40390	18.61	Pass	
297076	34	125	125	40022	18.44	Pass	
297077	35	125	125	40290	18.57	Pass	
297078	36	125	125	41167	18.97	Pass	
297079	37	125	125	40517	18.67	Pass	
297080	38	125	125	40685	18.75	Pass	
297081	39	125	125	40584	18.70	Pass	
297082	40	125	125	41047	18.91	Pass	
297083	41	125	125	40095	18.48	Pass	
297084	42	125	125	40913	18.85	Pass	
297085	43	125	125	40839	18.82	Pass	
297086	44	125	125	40665	18.74	Pass	
297087	45	125	125	40390	18.61	Pass	
297088	46	125	125	40698	18.75	Pass	
297089	47	125	125	40745	18.78	Pass	
297090	48	125	125	40350	18.59	Pass	
297091	49	125	125	40618	18.72	Pass	

297092	50	125	125	41006	18.90	Pass	
297093	51	125	125	40089	18.47	Pass	
297094	52	125	125	39432	18.17	Pass	
297095	53	125	125	38193	17.60	FAIL	Broke at knot whorl
297096	54	125	125	43116	19.87	Pass	
297097	55	125	125	40725	18.77	Pass	
297098	56	125	125	40397	18.61	Pass	
297099	57	125	125	40611	18.71	Pass	
297100	58	125	125	40879	18.84	Pass	
297101	59	125	125	40203	18.53	Pass	
297102	60	125	125	41027	18.91	Pass	
297103	61	125	125	41087	18.93	Pass	
297104	62	125	125	40404	18.62	Pass	
297105	63	125	125	41462	19.11	Pass	
297106	64	125	125	40933	18.86	Pass	
297107	65	125	125	39359	18.14	Pass	
297108	66	125	125	41033	18.91	Pass	
297109	67	125	125	40558	18.69	Pass	
297110	68	125	125	40785	18.79	Pass	
297111	69	125	125	40651	18.73	Pass	
297112	70	125	125	41227	19.00	Pass	
297113	71	125	125	40993	18.89	Pass	
297114	72	125	125	40270	18.56	Pass	
297115	73	125	125	40765	18.78	Pass	
297116	74	125	125	40785	18.79	Pass	
297117	75	125	125	40330	18.58	Pass	
297118	76	125	125	40631	18.72	Pass	
297119	77	125	125	40484	18.65	Pass	
297120	78	125	125	40638	18.73	Pass	
297121	79	125	125	40089	18.47	Pass	
297122	80	125	125	39734	18.31	Pass	
297123	81	125	125	40450	18.64	Pass	
297124	82	125	125	39895	18.38	Pass	
297125	83	125	125	40095	18.48	Pass	
297126	84	125	125	41596	19.17	Pass	
297127	85	125	125	43063	19.84	Pass	
297128	86	125	125	40805	18.80	Pass	
297129	87	125	125	39848	18.36	Pass	
297130	88	125	125	40250	18.55	Pass	
297131	89	125	125	39191	18.06	FAIL	Started to fail in compression
297132	90	125	125	40450	18.64	Pass	
297133	91	125	125	39178	18.05	Pass	
297134	92	125	125	40705	18.76	Pass	
297135	93	125	125	39633	18.26	Pass	
297136	94	125	125	39365	18.14	Pass	
297137	95	125	125	40149	18.50	Pass	
297138	96	125	125	39667	18.28	Pass	
297139	97	125	125	40310	18.57	Pass	
297140	98	125	125	41375	19.07	Pass	
297141	99	125	125	40370	18.60	Pass	
297142	100	125	125	39961	18.41	Pass	



Photo 1: compression and tension failure

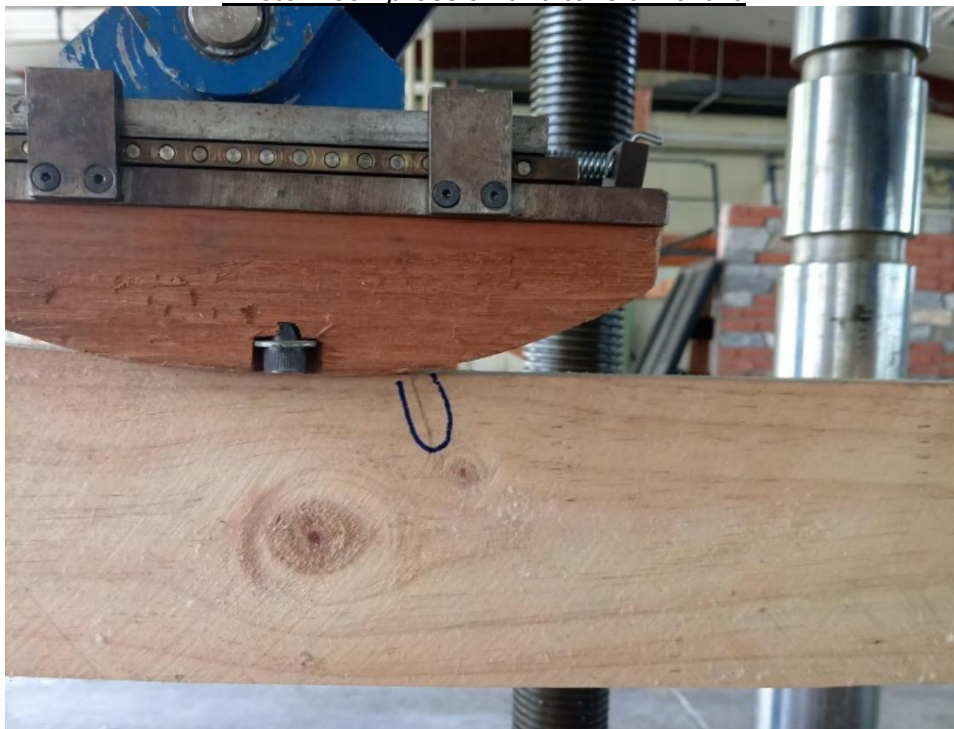
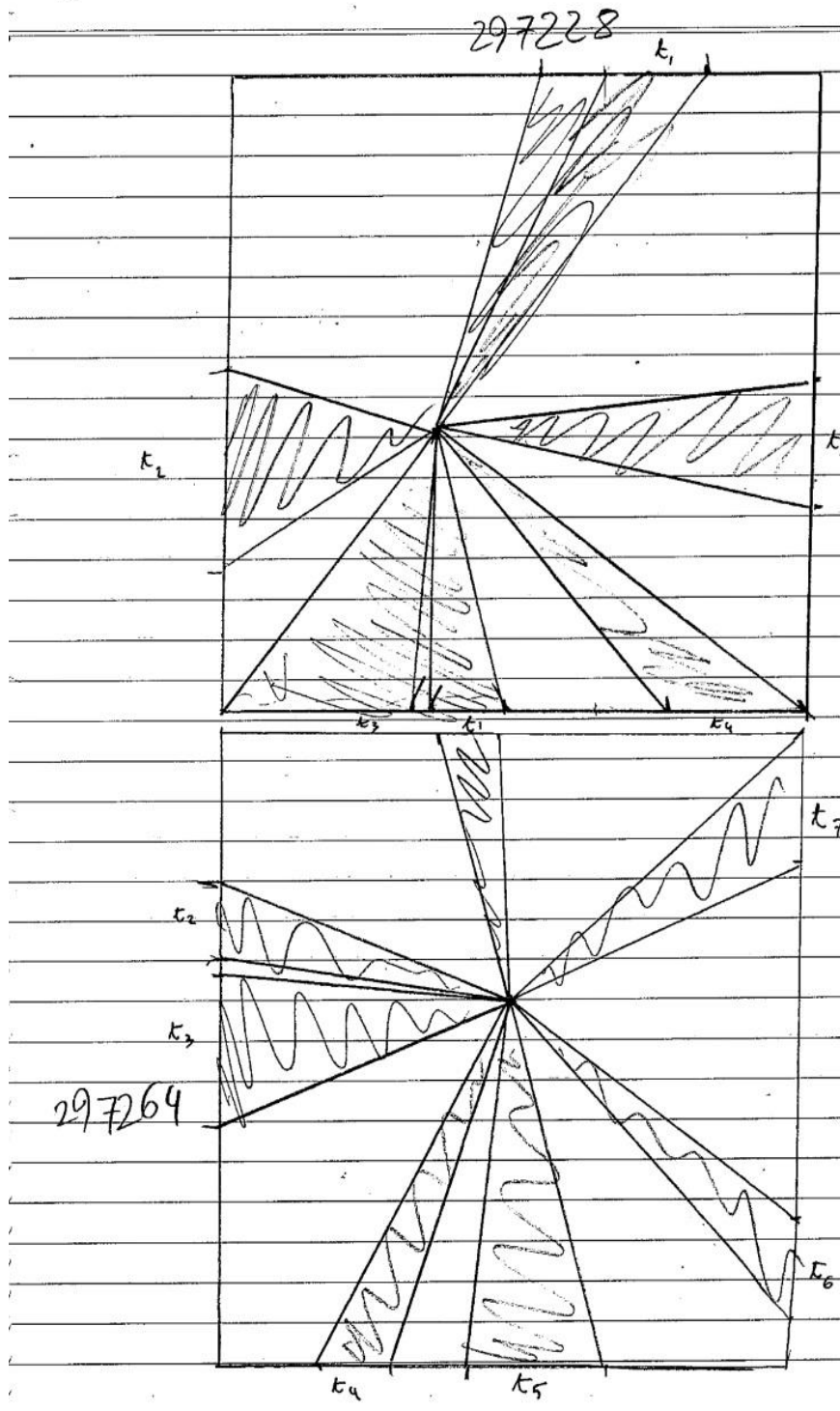


Photo 2: compression failure



Knot Area Ration 297228: 36% 297264: 30%