

# MOISTURE ISSUES? GET THE INSIDE FACTS

## Your situation

You may suspect that there's moisture or water damage in the walls of your home. You'll need to know where water is entering and the extent of the damage, if any. You also want to protect the future value of your home by having proof of weathertightness. And you don't want to damage your home in the process.

## Our solution

The **Mdu PROBE System** is unique – it is a home moisture detecting system. At the heart of the system is the **Mdu PROBE**, a patented diagnostic tool which can obtain reliable moisture readings and an accurate assessment of water damage without the need to cut through the internal wall lining or exterior cladding.

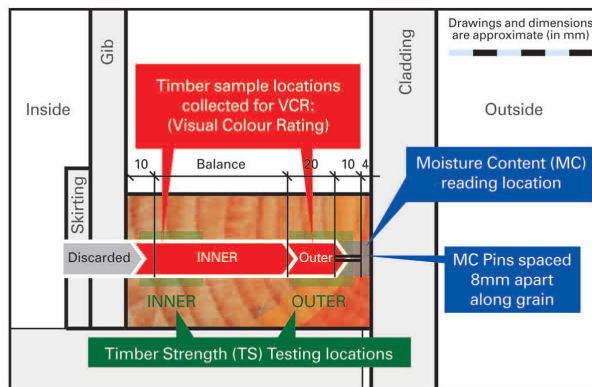


## No other system goes so far and reports so accurately

The **Mdu PROBE System** is a patented innovation from the Moisture Detection Company, a world-leading company in building assessment and monitoring technology.

The **Mdu PROBE System** goes directly to the source of the suspected or potential problem. Installed neatly inside the internal wall linings, the **Mdu PROBE** determines moisture level and timber condition. With a number of **Mdu PROBES** strategically located, you'll receive a comprehensive and accurate report on your home's overall weathertightness.

The **Mdu PROBE** is easily inserted, generally through the skirting. Once installed, each **Mdu PROBE** then remains in place, discretely and permanently, as part of our on-going **Mdu MONITOR Service**. This enables moisture levels to be tested on a regular basis and future-proof your home against possible weathertightness issues.



## Knowledge is essential

Building surveyors and other building practitioners are using the **Mdu PROBE System** to gather a detailed and robust platform of evidence regarding how the home is performing. The evidence collected by the **Mdu PROBE System** keeps inspection damage to a minimum. The system allows the

surveyor to focus on key areas of the home and gain reliable knowledge of a home's weathertightness, often in locations highlighted by **Mdu PROBE System** results.

Current **Mdu PROBE System** data is displayed on plan, elevation and evidential table formats which are colour-coded to assist interpretation. A PDF version can be accessed online via your personal, password-protected site.

Once you've had the **Mdu PROBE System** installed, ongoing monitoring is essential to maintain your peace of mind and confirm compliance with the building code. The **Mdu PROBES** remain in place and are read and analysed every six months as part of our **Mdu MONITOR Service**. The service automatically updates your online report. Your building surveyor can assist with explaining any problems should they arise.

## No unsightly damage to your home

A very small hole is drilled through the skirting board and into the bottom section of timber framing inside the wall

An Mdu PROBE is inserted into the hole and the PROBE pins are hammered directly into the timber

Moisture content levels are read and processed electronically

Timber samples are collected and analysed for moisture and condition

On-going moisture readings can be taken at regular intervals

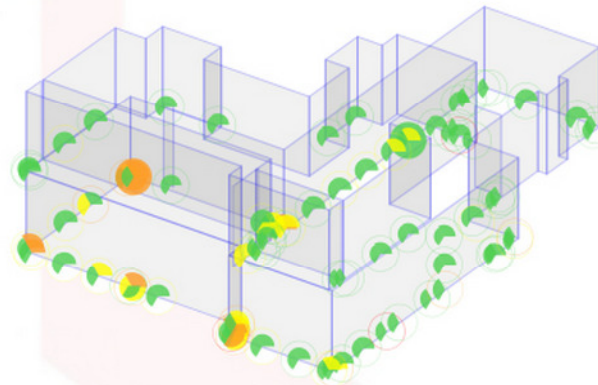
## Moisture Detection



Moisture Detection Company (MDC Services)  
Phone: 09-271 0522 info@moisturedetection.co.nz

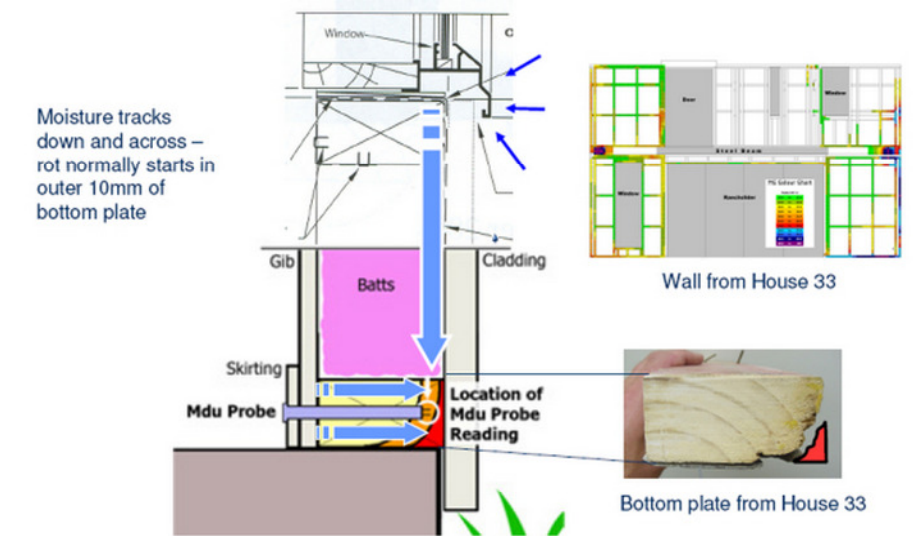


The Mdu Probe System performs a thorough and highly accurate invasive weathertightness and structural analysis **WITHOUT DAMAGE** to either internal lining or external cladding, and gives the ability to easily monitor moisture levels ongoing



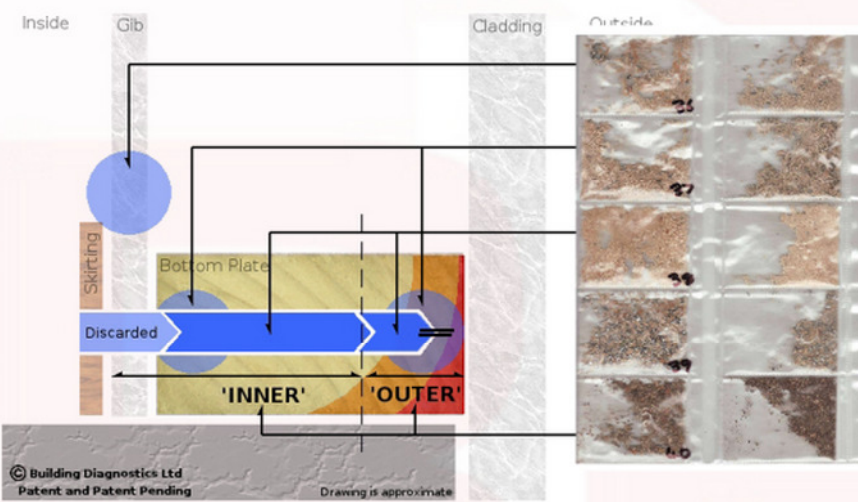
-  **Moisture levels**
-  **Timber Sampling**
-  **Timber Strength**
-  **Timber Treatment**

The important facts about the condition and performance of the property are collected from key locations around the property



During standard installations, Mdu Probes are nominally installed into the bottom plate of walls where the majority of problems are found first. Further installation locations can be ordered at any time by building experts

Using monitoring technologies derived from Project M, owners can easily find and fix leaks before damage is caused even if there are no visible signs of moisture ingress.



The Mdu Probe System is specially designed to reach, sample and test at the all-important outside face of the structural framing timber, as this is where the 'worst-case-scenario' is. This is done internally to prevent creating further external weathertightness problems



Permanent moisture probes (Mdu Probes) are installed into the bottom plate from internally to allow ongoing moisture readings

**Building Evidence Table**

Probe	Moisture Content (%)	Timber Strength (MPa)	Scan	Moisture Content (%)
1	10	10	10	10
2	15	15	15	15
3	20	20	20	20
4	25	25	25	25
5	30	30	30	30
6	35	35	35	35
7	40	40	40	40
8	45	45	45	45
9	50	50	50	50
10	55	55	55	55
11	60	60	60	60
12	65	65	65	65
13	70	70	70	70
14	75	75	75	75
15	80	80	80	80
16	85	85	85	85
17	90	90	90	90
18	95	95	95	95
19	100	100	100	100
20	105	105	105	105
21	110	110	110	110
22	115	115	115	115
23	120	120	120	120
24	125	125	125	125
25	130	130	130	130
26	135	135	135	135
27	140	140	140	140
28	145	145	145	145
29	150	150	150	150
30	155	155	155	155
31	160	160	160	160
32	165	165	165	165
33	170	170	170	170
34	175	175	175	175
35	180	180	180	180
36	185	185	185	185
37	190	190	190	190
38	195	195	195	195
39	200	200	200	200
40	205	205	205	205
41	210	210	210	210
42	215	215	215	215
43	220	220	220	220
44	225	225	225	225
45	230	230	230	230
46	235	235	235	235
47	240	240	240	240
48	245	245	245	245
49	250	250	250	250
50	255	255	255	255
51	260	260	260	260
52	265	265	265	265
53	270	270	270	270
54	275	275	275	275
55	280	280	280	280
56	285	285	285	285
57	290	290	290	290
58	295	295	295	295
59	300	300	300	300
60	305	305	305	305
61	310	310	310	310
62	315	315	315	315
63	320	320	320	320
64	325	325	325	325
65	330	330	330	330
66	335	335	335	335
67	340	340	340	340
68	345	345	345	345
69	350	350	350	350
70	355	355	355	355
71	360	360	360	360
72	365	365	365	365
73	370	370	370	370
74	375	375	375	375
75	380	380	380	380
76	385	385	385	385
77	390	390	390	390
78	395	395	395	395
79	400	400	400	400
80	405	405	405	405
81	410	410	410	410
82	415	415	415	415
83	420	420	420	420
84	425	425	425	425
85	430	430	430	430
86	435	435	435	435
87	440	440	440	440
88	445	445	445	445
89	450	450	450	450
90	455	455	455	455
91	460	460	460	460
92	465	465	465	465
93	470	470	470	470
94	475	475	475	475
95	480	480	480	480
96	485	485	485	485
97	490	490	490	490
98	495	495	495	495
99	500	500	500	500
100	505	505	505	505

**Overview**

Date	Source	#	PC	TS	Scan	VCR	BoreCS	REST
2009-06-16 Jun	HDC	100	100	100	100	100	100	100
2009-06-24 Jun	HDC	100	100	100	100	100	100	100
2009-07-24 Jul	HDC	85	100	100	100	100	100	100
2009-08-18 Aug	Person 2559	73	100	100	100	100	100	100
2009-09-17 Sep	Person 2559	73	100	100	100	100	100	100
2009-10-08 Oct	HDC	73	100	100	100	100	100	100
2009-11-26 Nov	Person 2559	73	100	100	100	100	100	100
2010-03-09 Feb	HDC	73	100	100	100	100	100	100
2010-06-10 Jun	HDC	73	100	100	100	100	100	100
2010-07-02 Jul	HDC	9	100	100	100	100	100	100
2010-07-09 Jul	HDC	7	100	100	100	100	100	100
2010-10-13 Oct	HDC	73	100	100	100	100	100	100
2010-10-29 Oct	HDC	14	100	100	100	100	100	100
2010-11-05 Nov	HDC							

West | Moisture Content | 06 Mar 2008

Results are presented using BNet which is a sophisticated online reporting platform giving complete flexibility of angles of analysis, presentation and reporting options



# MDU PROBE SYSTEM

