



Permanent Moisture System (PMS)

For early moisture detection beneath sheet membrane before hidden water becomes expensive damage.

MEASURE. DETECT. PROTECT.

The Shape of the Waterproofing Problem

Water intrusion is one of the most persistent and expensive sources of building defects.

It can begin during construction, long before the building is commissioned and handed over. It undermines performance, shortens asset life and creates disputes that cost time, money and trust.

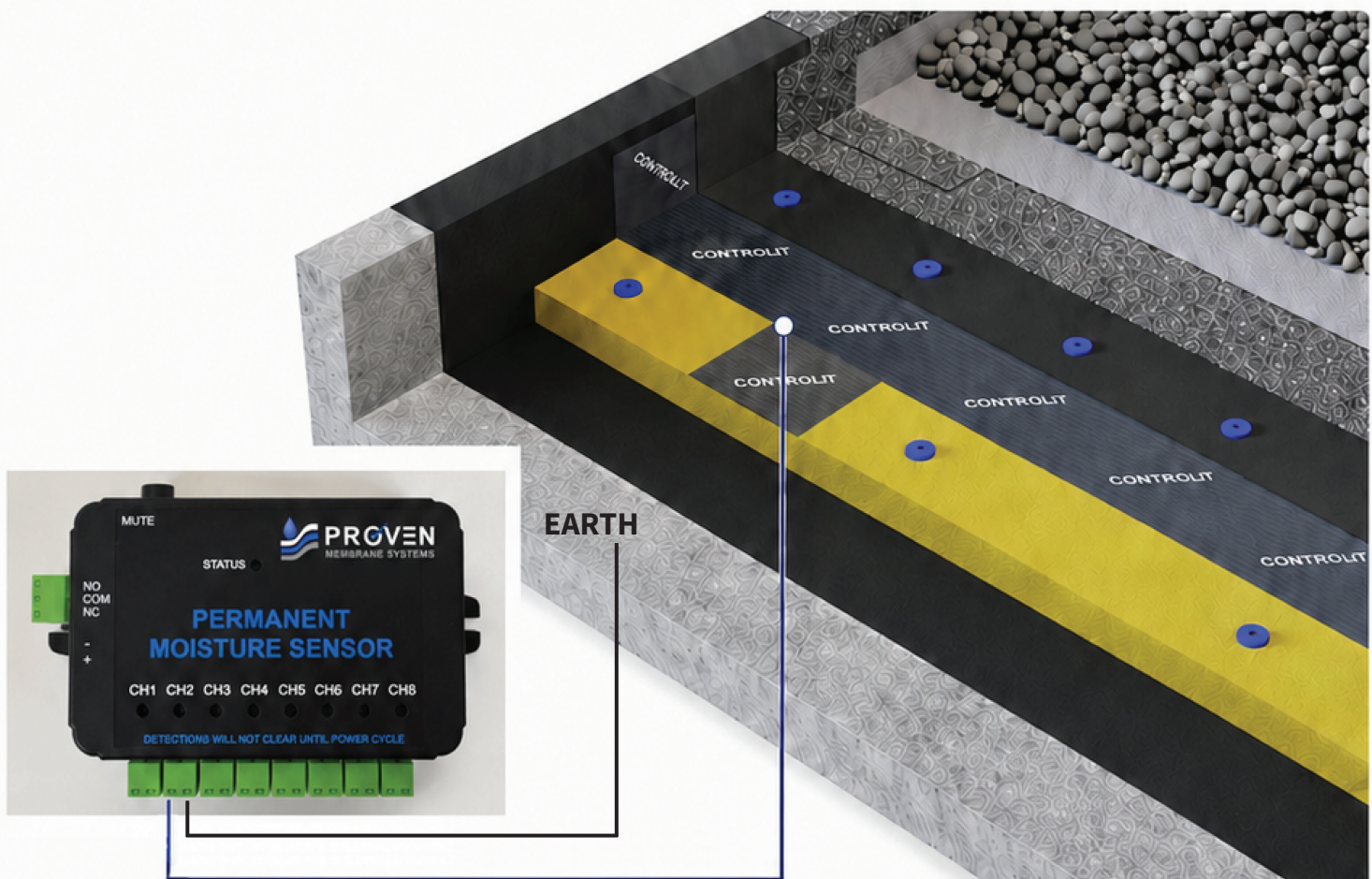
68–80%

Estimated share of Australian construction-defect disputes involving water intrusion.

- 1. Architects can design a watertight assembly**, but manufacturers can supply reliable materials. Contractors can install carefully. Yet no party can fully control workmanship variation, drainage problems, flashing failures, later trade damage, or long-term performance once the membrane is covered.
- 2. Problems often begin during construction**, long before handover.
- 3. When Moisture is not monitored, during and after construction**, it can remain hidden until visible damage appears inside the building. By then, the damage and cost are already significant.
- 4. Sites are exposed**. Weather, residual moisture, broken pipes, drainage failures and long construction periods create conditions where moisture can enter and remain undetected. Finished buildings can experience moisture ingress through settling, damage to membranes due to construction during or repair after completion and other reasons.

You can't manage what you can't see.

A Permanent Moisture System brings visibility to the risk.



Why Current Monitoring Systems Still Leave Gaps

Moisture monitoring beneath sheet membranes has improved considerably, but common approaches still fall short when it comes to early detection and clear localisation. Understanding the strengths and limitations of current methods helps explain why gaps remain.

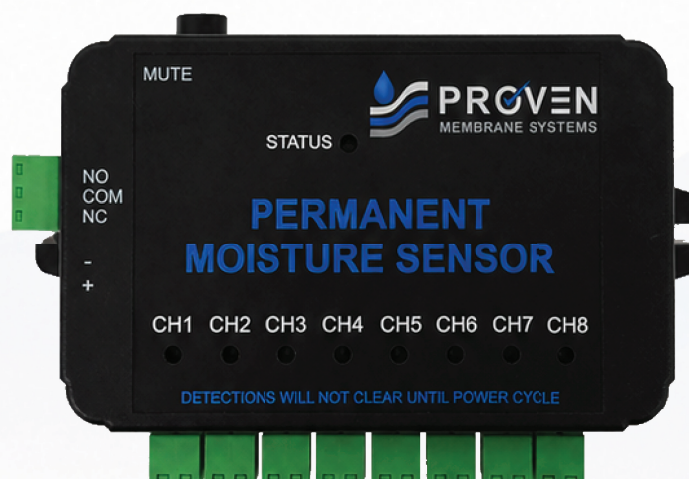
Approach	Strength	Limitation / Benefit	Key takeaway
Tape or grid detection systems	Improve the chance of detection compared with no alarm.	Moisture generally needs to reach the conductive path; pooling elsewhere may still cause damage before detection.	Better than nothing, but moisture can move outside the path and remain undetected.
General sheet alarm systems	Can indicate that moisture is present somewhere under a broad area.	The alarm may not clearly show where to begin; large areas may still need testing, lifting and replacement.	Alerts to a problem, but locating the source can be time-consuming and costly.



The Solution: Permanent Moisture System (PMS)

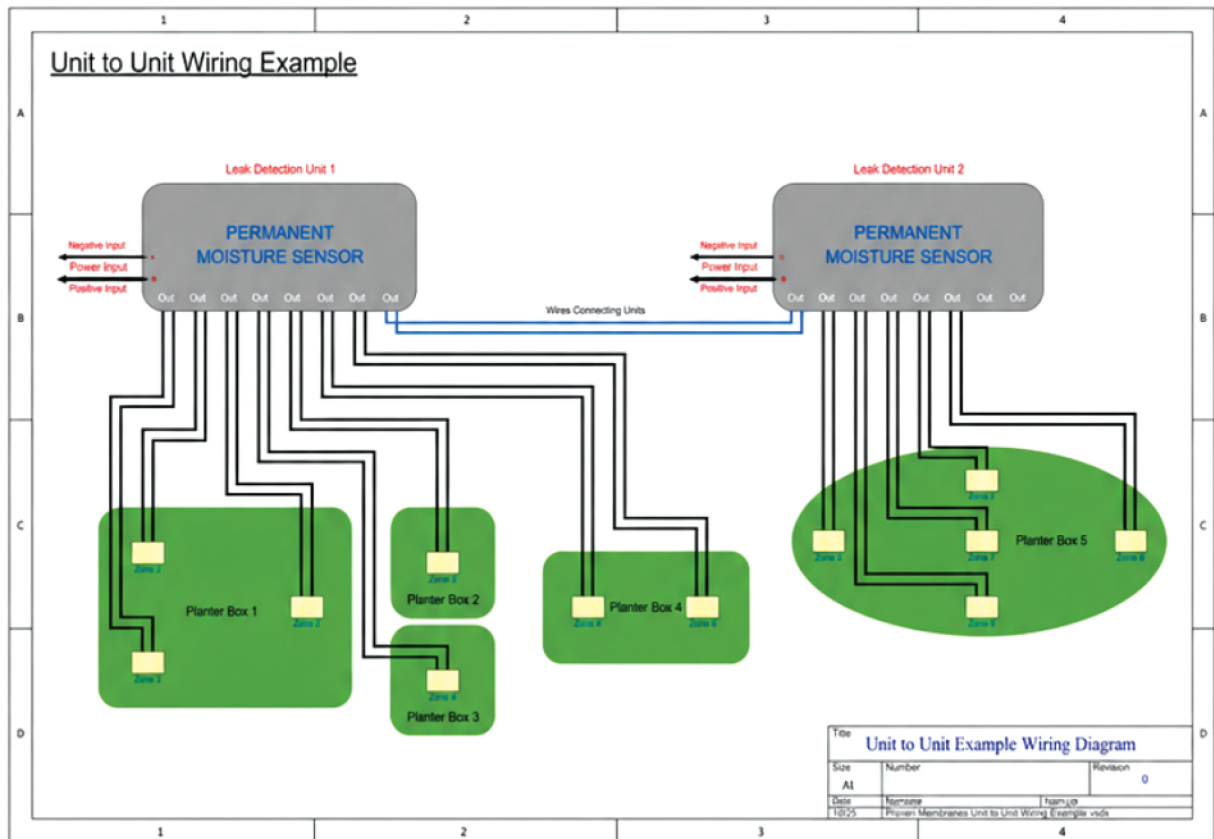
PMS combines the strengths of sheet-style detection with purpose-designed sensors and zoning to provide earlier warning and a clearer starting point, helping narrow the affected area sooner and reduce disruption and cost.

When detection is late or poorly localised, builders, owners, insurers and contractors remain exposed to avoidable cost, delay and disruption. **Permanent Moisture System (PMS)** was developed to close this gap.



How Permanent Moisture System Helps

PMS provides early warning of moisture beneath the sheet membrane, so issues are found sooner and fixed smarter.



Simplified zoning example: units monitor multiple wet areas and help identify the affected zone.

Why it matters

- Installed beneath compatible sheet membrane systems.
- Suited to planter boxes, balconies, podiums, roofs, terraces and other wet areas.
- Detects moisture earlier beneath the membrane.
- Uses zoning to narrow the affected area.
- Helps reduce unnecessary opening-up, disruption and remedial uncertainty.



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