Infravivo

YOUR PARTNER FOR EFFECTIVE HEATING SOLUTIONS

Field testing of InfraVivo IR Drying Blanket

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- We have carried out field tests with two different types of equipment (2024-2025).
- To dry out thick, cold wooden parts, we need to raise the temperature of the wood.
- This can be done with heat fans and a lot of energy (2-5 kW).
- The question is whether that is the right way; we have learned that heating mats are right for concrete.
- We have carried out tests comparing drying with different types of equipment.
- It has become clear that the differences between the methods are significant.



InfraVivo IR Drying Blanket - field test in a Bathroom

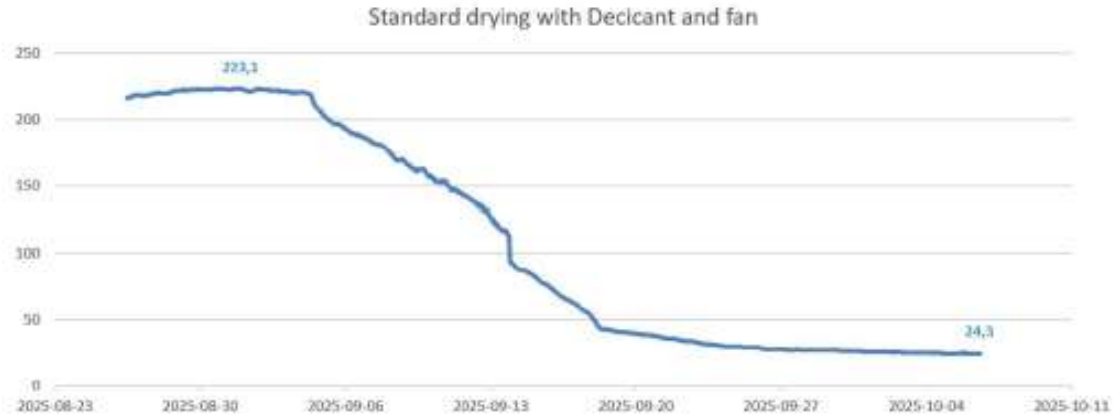


InfraVivo IR Drying Blanket - field test in a Log wall

Drying with M120 and a standard fan

Standard drying

- We use an M120 dehumidifier (1300 W) and a fan (300 W); the dehumidified air blows across the wood surface.
- Monitoring is done with PolyWise MC% using driven-in nails (approx. 50 mm deep).
- The drying time ends up around 6 weeks (thick bearing beam in a crawl space). Total 1600 W.
- Drying down to 24% MC took 42 days. Over 42 days, 1612.8 kWh was used.

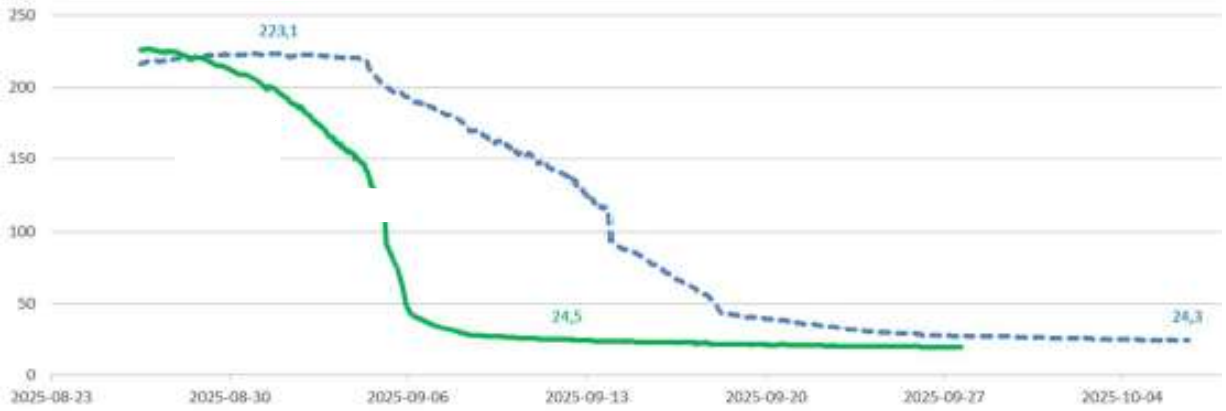


M120 and "centrifugal/turbo fan"

High air-flow speed across surfaces

- M120 (1300 W) and a centrifugal/turbo fan (700 W) blowing across the surface.
- Monitoring is done with PolyWise MC% using driven-in nails (approx. 50 mm deep)
- We achieve a higher air flow across the wood surfaces.
- We achieve higher water removal by combining dry air with high air flow.
- Total power was measured at 2000 W.
- Drying to 24% MC took 19 days.
- Over 19 days, 912 kWh was used

Comparison: Standard drying with Decicant and fan VS with the InfraVivo IR Drying Blanket

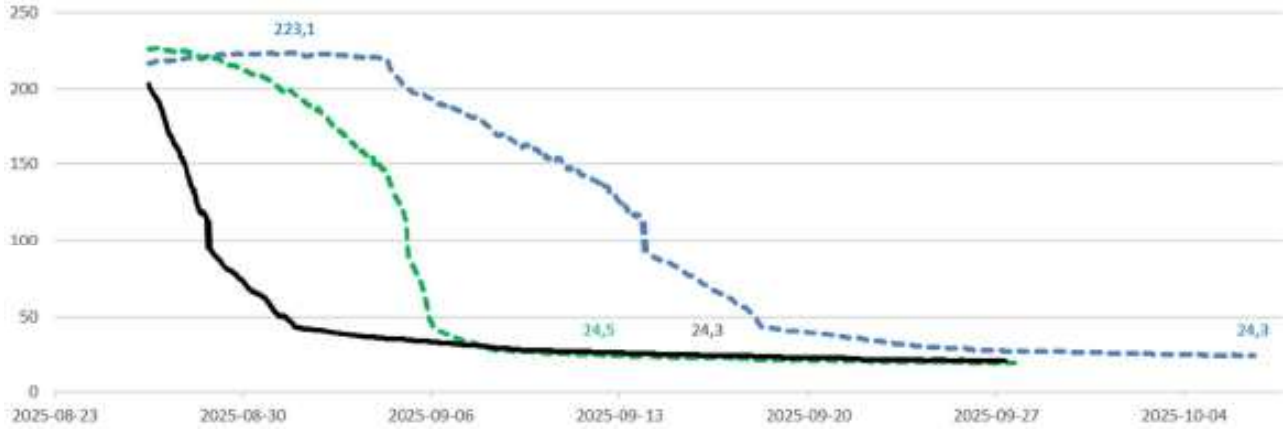


M120 and heat fan vs InfraVivo IR Drying Blanket

Heat fan "1850/2250 W"

- We used an M120 (1300 W) and a second heat fan (2250 W), blowing warm dry air across the wood surface.
- PolyWise was used for monitoring. The power was measured at 3550 W.
- It took 22 days to reach 24% MC. In total, 1874.4 kWh was used.

Comparison: Standard drying with Decicant and fan VS with the InfraVivo IR Drying Blanket

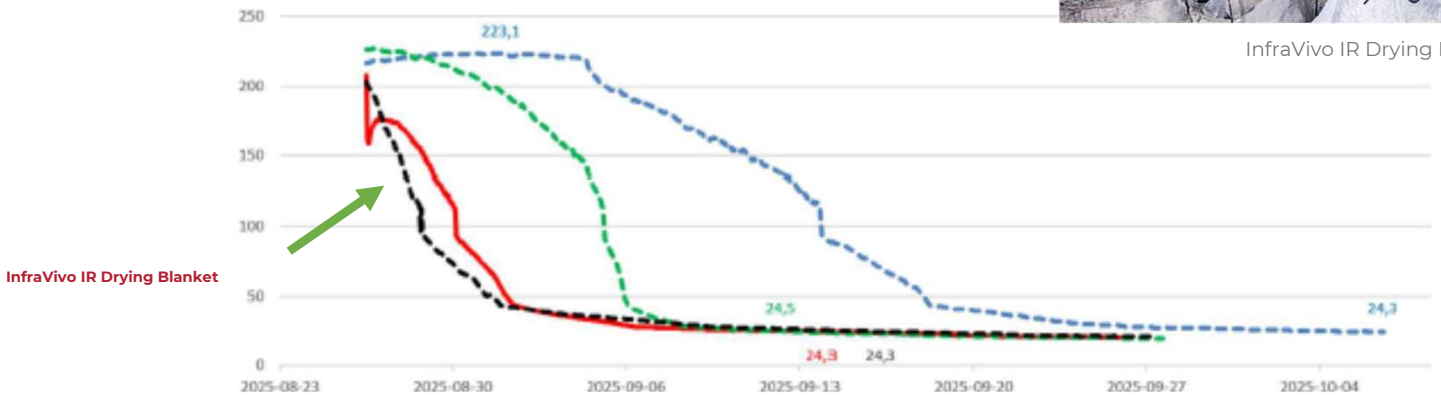


M120 and InfraVivo IR Drying Blanket

- The base for the drying has been an M120 (1300 W).
- PolyWise has tracked the drying.
- The InfraVivo IR Drying Blanket was stapled directly onto the wood surface.
- The power was measured at 1530 W.
- Drying to 24% MC took 20 days.
- In total, 734.4 kWh was used.



InfraVivo IR Drying Blanket - field test in a Log wall



Energy, Time and Power

Different equipment combinations give different outcomes

- The M120 dehumidifier is the base unit of the drying setup (in this case).
- Using the InfraVivo IR Drying Blanket instead of the heat fan reduces energy use (with almost the same drying time).
- The InfraVivo IR Drying Blanket combines shorter drying time with lower energy use.

Method	Days to 24% MC	kWh (to 24% MC)	Assessment	%
Dehumidifier & fan	42	1612,8	Norm	0
Dehumidifier and turbo fan (noisy in operation)	19	912	-700,8	-43%
Dehumidifier and heat fan	22	1874,4	261,6	+16%
Dehumidifier and **InfraVivo IR Drying Blanket**	20	734,4	-878,4	-54%

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Summary

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Tested in several projects and field tests with exceptionally good results - compared with other methods for drying logs, the product uses considerably less energy while drying is faster.

- Intended for structures facing the building envelope, made of planks, studs and logs, but can also be used on other materials such as plasterboard and internal studs.
- 54% lower energy cost - measurements indicate that energy use is more than halved.
- ~2x faster drying – roughly half the drying time.
- Safe for wood - max temperature 60-65 °C, material temperature 50-55 °C, with no risk of material damage.
- Completely silent operation – no fans, no noise.
- Flexible design - shaped around wood surfaces and works on many materials where ordinary heating mats risk giving too high temperatures.
- Plug & Play - connects to a standard 230 V wall socket and has thermostat-controlled temperature.



InfraVivo IR Drying Blanket - field test in a Crawl space

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THANK YOU FOR YOUR TIME!

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