

# **Whitepaper 4**

**Building Beyond Code: How SIPs Deliver Superior Energy Efficiency**

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## **Executive Summary**

SIPs provide continuous insulation and airtightness, exceeding IECC and ENERGY STAR requirements.

## **The Challenge: Meeting Higher Energy Standards**

IECC 2009/2012 and ENERGY STAR v3 raised requirements significantly. Traditional wood-frame struggles with thermal bridging and sealing.

## **The Solution: SIPs as a Complete Energy Package**

SIPs eliminate thermal bridging, deliver airtightness (0.5–1 ACH50), and speed construction by up to 50%.

## **Evidence**

SIPs consistently outperform prescriptive IECC requirements and achieve ENERGY STAR easily.

## **Relevant Standards (NEN/EN/ISO)**

• NEN 7120 (replaced by NTA 8800) – Energy performance • NEN 1068 – Thermal insulation • NEN-EN ISO 6946 – Thermal transmittance • NEN-EN ISO 9972 – Airtightness testing (blower door)

## **Conclusion**

SIPs are future-proof, making compliance with energy codes simple.

## **Call to Action**

Contact Quacent B.V. for SIP energy-efficient projects at [www.quacent.eu](http://www.quacent.eu) or [info@quacent.eu](mailto:info@quacent.eu).