

Whitepaper 11

Building Healthier Homes: Airtight SIPs and Indoor Air Quality

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Executive Summary

Indoor air quality directly impacts health. SIPs create airtight envelopes that allow for controlled ventilation, reducing mold, allergens, and pollutants.

The Challenge: Poor Indoor Air Quality

Traditional buildings often leak air, causing drafts, moisture, and poor air quality.

The Solution: SIPs for Healthy Homes

- Airtight construction reduces drafts and pollutants. - Controlled ventilation ensures fresh air. - Lower risk of condensation and mold.

Evidence

- SIP homes routinely achieve 0.5–1.0 ACH50. - Studies show healthier indoor environments compared to traditional builds.

Relevant Standards (NEN/EN/ISO)

• NEN-EN 15251 – Indoor environmental parameters • NEN-EN ISO 9972 – Airtightness testing • NEN-EN 13779 – Ventilation performance

Conclusion

SIPs provide a healthier indoor environment, ideal for schools, homes, and offices.

Call to Action

Contact Quacent B.V. at www.quacent.eu or info@quacent.eu to explore SIP-based healthy building solutions.