

Whitepaper 13

Quiet Strength: Acoustic Performance of SIP Walls and Roofs

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Executive Summary

Acoustic comfort is increasingly important. SIPs provide excellent sound insulation thanks to their solid, airtight structure.

The Challenge: Noise in Modern Living

Urbanization increases the need for sound-insulated housing and workplaces.

The Solution: SIP Acoustic Performance

- SIP walls reduce airborne and impact noise. - Tested performance suitable for housing, schools, and hospitality. - Airtightness enhances acoustic insulation.

Evidence

- SIP walls can achieve sound reduction of 40–50 dB. - Comparative studies show SIPs outperform light-frame walls in acoustic tests.

Relevant Standards (NEN/EN/ISO)

• NEN 5077 – Acoustic performance in buildings • NEN-EN ISO 717 – Sound insulation • NEN-EN ISO 10140 – Laboratory sound insulation tests

Conclusion

SIPs deliver acoustic comfort in addition to structural and energy performance.

Call to Action

Contact Quacent B.V. for acoustic SIP solutions at www.quacent.eu or info@quacent.eu.