

Whitepaper 2

Fire Safety in Modern Construction: SIPs as a Secure Choice

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Executive Summary

When built to code, SIPs provide fire performance equivalent to wood-frame construction. With gypsum board finishes, SIP homes meet fire safety requirements.

The Challenge: Ensuring Fire Protection

Builders ask how SIPs compare to traditional wood in fire safety. Fire codes require protective barriers and tested assemblies.

The Solution: SIPs Built to Code

SIPs are classified as Type V construction under the IBC. A 15-minute thermal barrier (gypsum board) ensures compliance. One-hour rated assemblies are available (ASTM E119).

Evidence

EPS foam cores contain HBCD flame retardants, ensuring compliance. Research confirms minimal environmental impact of retardants.

Relevant Standards (NEN/EN/ISO)

• NEN 6068 – Fire spread between buildings • NEN 6069 – Fire resistance testing • NEN-EN 13501 – Fire classification of construction products • NEN-EN 1365 – Fire resistance tests for loadbearing elements

Conclusion

SIPs meet fire safety standards with tested assemblies available for higher ratings.

Call to Action

Contact Quacent B.V. for SIP fire-rated assemblies at www.quacent.eu or info@quacent.eu.