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BARRIER



CarterHoltHarvey
Woodproducts New Zealand



BARRIER

PROJECT SPECIFICATIONS

PRODUCTS:

Ecoply® Barrier
Ecoply Barrier Sill Tape
Ecoply Barrier Sealing Tape

ARCHITECT:

Hamish Stirrat @ Fabricate

BUILDER:

Mravicich Residential Ltd

A three-storey home situated on the slopes of Titirangi's Wood Bay utilised the benefits of Ecoply Barrier for quick enclosure along with the added bracing of a rigid air barrier system.

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Information contained in this Case Study is specific to the Ecoply® Barrier range of plywood products and tapes. For technical literature or further information contact us on 0800 326 759 or visit www.chhwoodproducts.co.nz

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With lush hills providing dramatic vistas of the sea, Titirangi is the perfect balance of sanctuary from, and quick access to, Auckland city. The deep hills and valleys pose some unique challenges for architects and builders who, in this case, relied on the cost effective bracing benefits of Ecoply® Barrier for this three-storey project.

The initial property languished in disrepair for nearly 30 years after being crushed by a fallen tree. The extreme re-build posed a number of challenges for the architect and builder, especially as the client had some demanding sustainability targets. The three-storey 180 m² project was also on a steep incline which would offer a great view but leave it open to the elements.

“The structural integrity that the Ecoply Barrier system gave the whole house was excellent, we would recommend it.”

Paul Mravicich
Builder

“The initial building only represented about 10% of the finished project and it didn't have a single square joint,” said the architect Hamish Stirrat.

Because of the steep, unstable land Stirrat specified Ecoply Barrier to provide additional bracing to the superstructure above ground. Additionally, the rigid air barrier would also provide weather tightness and help reduce heat loss which matched the client's sustainable aspirations.

The installation of Ecoply Barrier meant early close-in, allowing Mravicich builders to start the internal fit-out sooner. Used in conjunction with proprietary sill

and sealing tape, Ecoply Barrier provides a weathertight exterior. “We were able to apply the Ecoply Barrier system externally and move inside to interior line at the same time”. Paul Mravicich estimates a 1-2 week time saving using Ecoply Barrier but believes “the structural integrity and bracing element is Ecoply Barrier's most impressive attribute”.

Installation on the multistorey build was made easy by the lightweight nature of Ecoply Barrier and the early addition of a bracing element had the additional benefit of improving the stability of the scaffolding, providing a better and safer working environment.

Designed to maximise the epic views and finished with cedar panelling the final building harmonises with the surrounding lush landscape yet stands out as a beautiful architectural example in its own right.

Compared to alternatives the architect believes the Ecoply Barrier system had a positive impact, not only on speed and cost but also across the complete build. Hamish was specifically impressed with the acoustic, environmental and structural performance, the builder echoed the architect's satisfaction, “The structural integrity that the Ecoply Barrier system gave the whole house was excellent, we would recommend it.”

