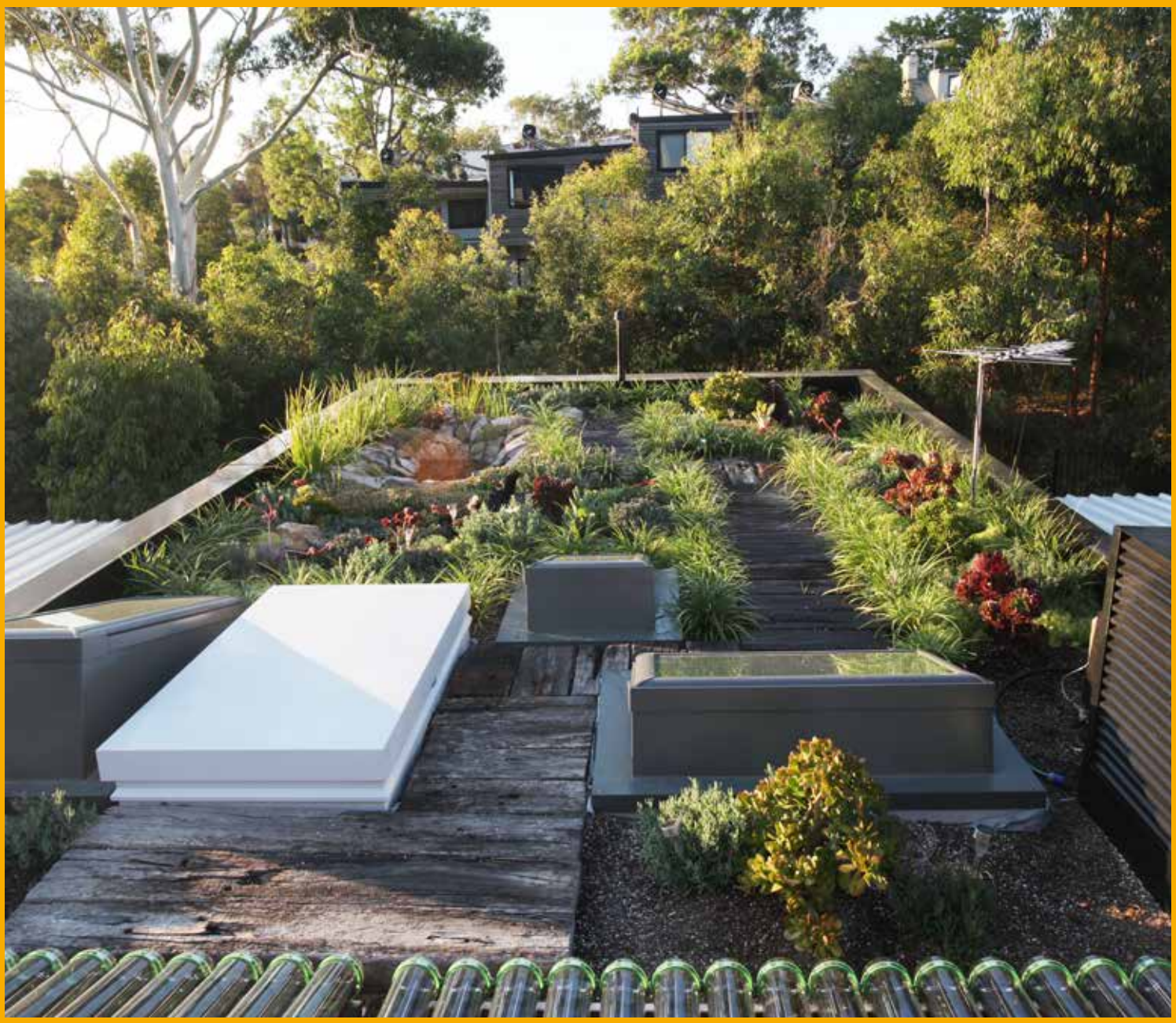

SIKA AT WORK
FOREST LODGE ECO HOME GREEN ROOF, AUSTRALIA

ROOFING: Sarnafil®, Sarnacol®

BUILDING TRUST

GREEN ROOF FOR AN ECO HOME

PROJECT DESCRIPTION
The landmark residence located in the Sydney suburb of Forest Lodge, is a 3.9-meter wide, two-story home built on the principles of sustainability with features including advanced insulation, water conservation and a unique green roof.

The sustainable home, designed and built by Sydney firm Designer Constructions Group Pty Ltd, was featured on the national television series Grand Designs Australia and to-date is Australia's most awarded house, having received 13 national and international design and construction awards with the most recent award being the HIA GreenSmart Home of the Year. This award, which recognizes the best in environmentally responsible housing across Australia, is the highest accolade at the national HIA GreenSmart Awards.

Forest Lodge Eco House features a green roof that not only improves insulation and reduces the home's carbon footprint and energy costs, but also adds aesthetic appeal and conserves water by reducing stormwater runoff. Owner Chris Knierim, who is also Managing Director of Code Green Pty Ltd, explains that the roof collects and stores stormwater, providing a reliable water supply.

PROJECT REQUIREMENTS

To protect the building structure from the damp environment of the green roof, the owners sought a reliable waterproofing membrane which is durable, root resistant and long-lasting. According to the owner Chris, due to a high risk of water ingress, it was important to avoid compromising on the waterproofing solution as it could potentially impact longterm performance and durability.

Having used Sika products for sustainable construction projects in Europe, Chris selected Sarnafil® for his project.

SIKA SOLUTION

Chris specified a 1.5 mm thick Sarnafil® G410-15L felt membrane for the project. The waterproofing membrane was fully adhered with Sarnacol® 2142S to prevent leaks and water ingress under the membrane, should the membrane be breached with punctures or damage being root resistant, Sarnafil® is ideal for green roof applications from small residential projects to large scale commercial builds. With the inability of roots to penetrate the membrane, the risk of water ingress is reduced.

PRODUCTS USED

- Sarnafil® G410-15L Felt
- Sarnacol® 2142S

FOREST LODGE ECO HOME GREEN ROOF, AUSTRALIA

PROJECT DETAILS

Date: August 2013

Location: Forest Lodge, Sydney, NSW

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