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Extensive Residential

Project: Feldman Residence, Santa Lucia Preserve, Carmel, California

Award Recipient: Rana Creek

Architect: Feldman Architecture, San Francisco, California

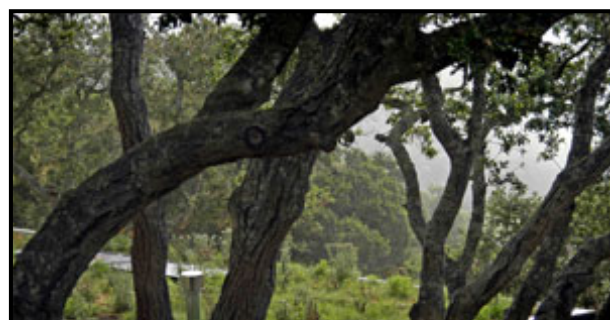
Landscape Architect: Blasen Landscape Architecture, Sausalito, California

Client: Dan & Sandy Feldman, Palo Alto, California

Built as an embodiment of Nature's gifts, the Feldman's home, in the Santa Lucia Preserve (a 20,000-acre private preserve in Carmel, California), was designed as an example of sustainable Mediterranean Modernism. The house was designed to integrate itself back into the land through sensitive design including low water use, solar power and habitat enhancement. There are actually three small buildings that are built into the hillside where the hill seamlessly continues onto the green roofs of each one. Rana Creek ensured that an ecological design approach enhanced the project with a sustainable landscape and green roofs that consist mostly of locally adapted, indigenous plant materials already found thriving onsite prior to building. Their oversight of design and implementation focused on stabilizing all disturbed soils by planting grasses and forb mixes approved for the Santa Lucia Preserve, controlling non-native species, and simply allowing natural regeneration of the local plant assemblages. Adaptive management techniques proved to be the most valuable strategy, as the roof that was being "taken care of" by weeding, pruning and irrigation was less successful than the roofs left unattended, due to lack of access.



There are 4250 square feet of green roof installed at a cost of \$21 per square foot. The 6" depth of growing medium is composed primarily of sand, lava rock and amendments which allow for both moisture retention and drainage. The growing media included mycelial inoculants and supporting mushrooms that appear in the cool wet winters. The roofs were installed with irrigation to support the initial establishment of the plants and for minimal summer maintenance. The waterproofing membrane is American Hydrotech MM6125 followed by a Hydroflex30 Protection Course and Root Stop WSF40. The Drainage system is Floradrain FD40 underneath the growing medium layer and 3/4" to 1/2" gravel with perforated pipe and surface drains at the roof's edges. The perennial plant species selected for the roof like Sand Sedge, Pt. Joe Fescue, Yarrow and Wild Strawberry are typical of the Oak Woodland understory and representative of the Monterey Peninsula region flora. A host of annual wildflowers were over seeded in the fall and by springtime tidy tips, lupine, poppies, and goldfields surprised the owners with a colorful spring bloom. These annuals continue to sprout and flower each spring.



The green roof design for the Feldman's Hill House emphasizes low water use, sustainable landscape techniques and use of native plant materials. The green roofs are designed to provide usable landscape, filter and store rainwater, attenuate sound, increase thermal insulation and provide site sensitive beauty for the Feldman's home. The Feldman's benefit by reducing their energy consumption up to 30% during the



summer months from the insulation of the green roofs. With a growing media depth of 6" the sound is reduced by approximately 43 decibels. The sounds from the humans

and their activities within the buildings are also being buffered to protect the wildlife, given the sensitive nature of the habitat in the Preserve.

The Feldman Residence is a superlative example of a green roof's potential to limit environmental disturbance and integrate architecture with ecology - the 33 species of native plants used have made for a successful recovery after the disturbance caused by building on the site. The ecology of the site will continue to become more complex and resemble the natural analogs that were emulated in the design!

To view high-resolution .jpgs of the above images, simply click on the image itself.

To view pictures and profiles of the other 2007 winners, [please return to our main awards page.](#)



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Awards

See the Award Winners for 2007!

There were seven award categories this year.

The first six apply to all types of buildings and installed green roof designs:

Extensive Residential
[Project: Feldman Residence, Santa Lucia Preserve, Carmel, California](#)
[Award Recipient: Rana Creek](#)



Extensive Industrial / Commercial
[Project: Calamos Investments, Naperville, Illinois](#)
[Award Recipient: Intrinsic Landscaping, Inc.](#)

Extensive Institutional
[Project: Sanitation District No. 1, Ft. Wright, Kentucky](#)
[Award Recipient: Sanitation District No. 1](#)





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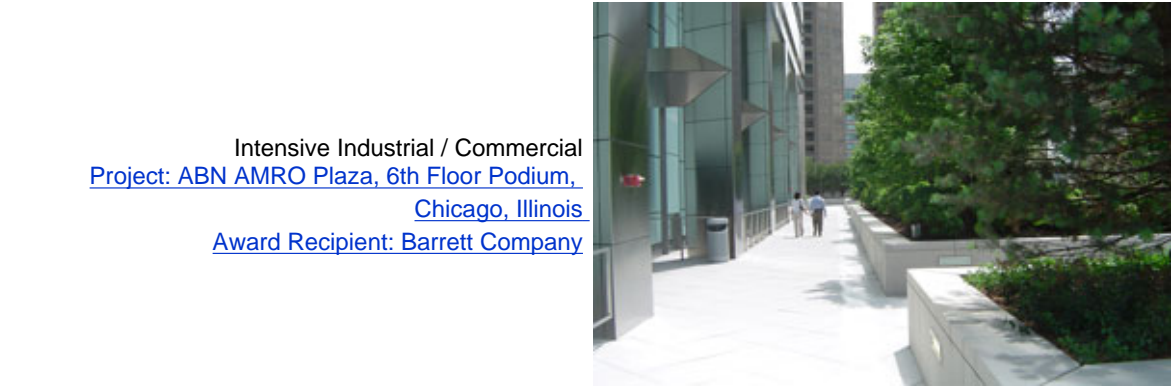
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Intensive Residential

[Project: The Louisa, Portland, Oregon](#)

[Award Recipient: Walker Macy Landscape Architects](#)



Intensive Industrial / Commercial

[Project: ABN AMRO Plaza, 6th Floor Podium, Chicago, Illinois](#)

[Award Recipient: Barrett Company](#)



Intensive Institutional

[Project: Nashville Public Square, Nashville, Tennessee](#)

[Award Recipient: Hawkins Partners, Inc.,](#)



Civic Award of Excellence

[Award Winner: Council Member Lisa Goodman, City of Minneapolis, Minnesota](#)

Awards Winners 2007



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Accompanying Peter Lowitt and Nancy Somerville are, from left to right and top to bottom: Paul Kephart, Rana Creek; Trevor Wukasch, Intrinsic Design; Krista Lainhart, Sanitation District No. 1; Tim Clemens, Walker Macy Landscape Architects; Tim Barrett, Barrett Company; Kim Hawkins, Hawkins Partners, Inc.; Council Member Lisa Goodman, City of Minneapolis, Minnesota



About The Awards

Green Roofs for Healthy Cities established the Green Roof Awards of Excellence in 2003 to recognize green roof projects which exhibit extraordinary leadership in integrated design and implementation. The awards also increase general awareness of green roof infrastructure and its associated public and private benefits, while recognizing the valuable contributions of green roof design professionals.

Eligibility

- All types of buildings and green roof designs are eligible.
- Age of project is unlimited but it must be completed, i.e., growing.
- Participants from last year that did not win are welcome to re-submit.
- North American projects only.
- Only one lead submission per project will be accepted. All project team members should be identified in the submission.
- Submission leaders may include Landscape Architects, Architects and Engineers, Roofing/Green Roof Design Consultants, Non-profit organizations, Educational & Research Institutions, Developers, and Owners.

Award Categories

There are six awards being presented, three for extensive green roofs, those with 6 inches or less of growing media throughout; and three for intensive green roofs, those with more than six inches of growing medium (this category includes semi-intensive green roofs as well, i.e., those with a mix of more and less than six inches of growing medium). Three different categories of buildings will be awarded. New and existing or retrofit projects will be treated the same way. Hence, the award categories are:

- Extensive Residential (Single family and/or multiunit)
- Extensive Industrial / Commercial
- Extensive Institutional
- Intensive Residential (Single family and/or multiunit)
- Intensive Industrial / Commercial
- Intensive Institutional

Applicants may submit more than one project for the same, or different award categories.

Evaluation Process

Projects are evaluated by a multidisciplinary team of seven professionals, which include architecture, landscape architecture, engineering and horticultural expertise. Each project is evaluated from the power point presentation and the project description. Projects are evaluated according to a broad range of weighted criteria which include Aesthetic, Economic, Functional and Ecological components.

Thank You to Our Judges

Jeffrey L. Bruce, *Jeffrey L. Bruce & Company (Awards of Excellence Winner 2006)*

Paul Farmer, *American Planning Association*
Michael Gibbons, *Architectural Systems Inc., Chair, ASTM Green Roof Task Group*
Monica Kuhn, *Architect and GRHC Board Member*
Ed Snodgrass, *Green Roof Plants*
Nancy Somerville, *American Society of Landscape Architects*
Paul Adelman, *Xcel Energy*

[Click Here To See Award Winners From Previous Years](#)

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