

# McNICHOLS APPLICATION PROFILE



## Margarido House Oakland Hills, CA

Perched in the Oakland Hills overlooking San Francisco Bay is the Margarido House. The most noticeable trait is the home's signature architectural feature, a wing-like metal sunshade that helps proclaim the home's green virtues. This metal sunshade is made of **McNICHOLS® Aluminum Bar Grating**, often associated with industrial use, which has found its way into residential design. The house is being celebrated for its environmental integrity and trendy design.

The bar grating wraps around the west and south side of the house where it helps cool the home. On the west side, it doubles as a functional deck with the addition of a handrail. On the south side, the bar grating serves as a catwalk for window and general maintenance needs. Permeable and non-corrosive, it is an integral part of the home's rain water recycling system.

## Hole Products Used

**Aluminum Rectangular Bar Grating** used for a platform/sunshade, stair treads and trench grate.

- Trendy aesthetic appearance
- Garners LEEDS' green points
- Sun-shading properties
- Strength
- Load bearing capabilities
- Lightweight
- Corrosion resistance
- Permeable
- Self draining
- Sustainability
- Recyclability

## Product Specifications:

**GAL 100** aluminum rectangular bar grating for the wing/platform

**GAL 150** aluminum rectangular bar grating for the stair treads

**GW 200** steel rectangular bar grating for the cistern cover



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## House continued

The builder/developer says the bar grating sunshade/decking serves multiple green purposes.

The material itself is “green” (manufactured partially from recycled aluminum, lightweight, recyclable, and non-corrosive). It adds a contemporary look and also supports the 5,000 square foot home’s self-contained cooling and water recycling system (water passes through the openings and is redirected and collected in the underground storage tank.)

According to the owner, Margarido House was certified as the first LEED-H Platinum custom home in Northern California, and the first home in the country to be both LEED-H certified and GreenPoint rated.



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## House continued

McNICHOLS supplied the bar grating in 20' panels weighing roughly 200 pounds each. The material was bolted to the cantilevered steel beams of the house. The deck, which extends eight feet, is strong enough to walk on; wide enough to shade the sun's intensity into the first floor living room, kitchen and entryway; durable enough to withstand fire and wind and permeable enough to aid water run off recycling. Green in its own right, it helped the house exceed environmental standards.

The home has a planted roof which can be accessed by exterior stairs also made of **McNICHOLS® Aluminum Bar Grating**. Water from the roof and lot is collected and directed to a 4,000 gallon underground concrete reservoir beneath the driveway. The reservoir is covered by a strong trench grate furnished by McNICHOLS that is sturdy enough to allow for car parking.

