

SNAP

S | THE MAGAZINE OF SWEETS



Raindance
showerhead
from Hansgrohe
PAGE 42

SHOWER POWER

WELL-DESIGNED PLUMBING FIXTURES,
FROM SHOWERHEADS TO FLUSHOMETERS



PROJECT RUNWAY

Good design prepares
for takeoff in airports
PAGE 22

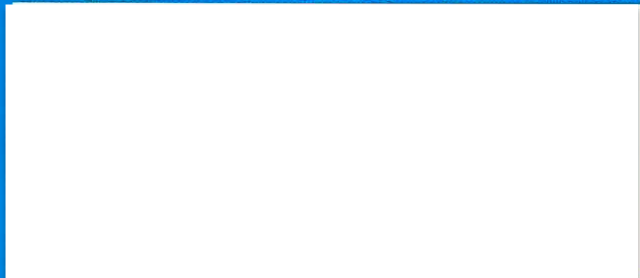
MADE IN THE USA: PACIFIC COAST

A look at manufacturing in California,
Oregon, and Washington State
PAGE 52

NORWEGIAN WOOD

Kebony, a tropical hardwood
alternative, comes to the U.S.
PAGE 9

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SNAP BACK: ROOFING & SIDING



JERRY CALDARI
Principal
Bromley Caldari
Architects
New York City

"We've been designing green roofs for a while, adding them to both new and existing buildings. In addition to its environmental benefits, a green roof will extend the life of a roof because it protects the membrane from UV degradation, freeze-thaw cycles, and damage from piercing. However, if the membrane is not sound to start with, locating and repairing leaks is extremely difficult. So close attention must be paid to membrane selection criteria and compatibility between the green roof components and the waterproofing systems."



BARRY GORALNICK
Principal
Goralnick Architecture
& Design
New York City

"Spanish tile company Apavisa has a three-dimensional indoor/outdoor ceramic tile line called Archconcept that I want to use in a decorative siding application. It comprises dramatic shapes like hexagons with a central bump, square panels with raised and folded corners, or planks with bends and curves. The tiles add depth to vertical surfaces. Available in stone-, metal-, and cement-style finishes, they can also be combined with LED technology to create beautiful lighting effects."



JOHN CLAGETT
Principal
John Clagett
Architect
Englewood,
New Jersey

"Siding, functionally indispensable and intellectually compelling, is one of the last parts of the architectural puzzle to be affixed to the building, but a first to catch the eye of the user. The choices the designer makes regarding its materiality, or nonmateriality, can unequivocally announce their attitudes toward the relationship between a man-made structure and nature."

Cultivated Cladding



A TREE may grow in Brooklyn, but in New York City's South Bronx, greening has reached a higher level: the roof. The Point Community Development Corporation, a nonprofit group that promotes cultural and economic growth in the area, recently transformed the roof of its facility into a two-part sustainable surface. A 7,350-square-foot roof covers the main building; a secondary structure is crowned with a 650-square-foot "garden" that will be used as an outdoor classroom for environmental education.

Installation of the project took three weeks, and the scope of work included repair of the existing structural roof and a new waterproof membrane. Minimizing the weight of the green roof was a top priority. "You can't just throw a heavy system on the roof, because it might fail," says Amy Falder, a partner at New York Green Roofs, which designed and installed the system. The larger expanse features vegetated fabric

mats that stack up to 2½ inches deep and weigh up to 11 pounds per square foot when fully saturated. The smaller area, with more mature plantings, has a depth of 4 to 6 inches.

The new roof not only helps alleviate occasional flooding of The Point's paved areas but also contributes to the Bronx River's cleanup by filtering out pollutants. "The area's average annual rainfall is about 45 to 50 inches, and this system can reduce stormwater runoff by more than 150,000 gallons a year," says Clayton Rugh, general manager and technical director of Xero Flor America, supplier of the green roof.

In addition to reducing thermal loading by deflecting solar radiation, the roof improves local air quality. Asthma occurrences in the Hunts Point neighborhood are an astounding eight times the national average. "Anytime you have vegetation, it takes in carbon dioxide," explains Falder, "so it's cleaning the air." —LC

RAISING THE ROOF

Topping this urban community center are two roofs of differing density. A 650-square-foot study area was intensively planted with grasses and flowering perennials, while lightweight vegetated mats stretch across the majority of the other, 7,350-square-foot surface. A graffiti mural, painted by community members, covers a part of the center that peeks up above the rooftop and houses a classroom.

SNAPSHOTS

NEW MATH

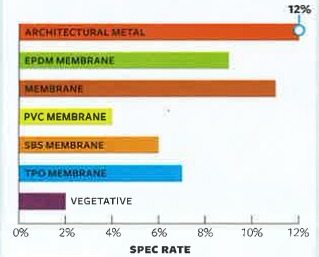
\$7.7 BILLION

By 2017, the market for green roofs and walls will reach \$7.7 billion.

SOURCE: LUX RESEARCH

ROOFING

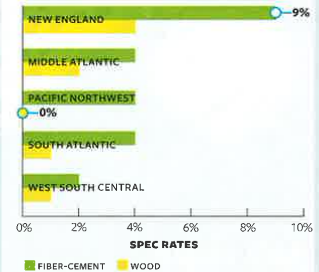
SPEC RATE BY PROJECT TYPE
(2013 Q1 THROUGH 2014 Q1)



SOURCE: MCGRAW HILL CONSTRUCTION RESEARCH + ANALYTICS

SIDING

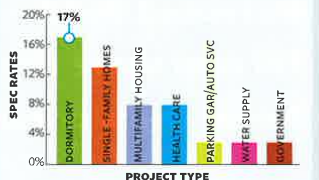
FIBER-CEMENT VS. WOOD BY REGION
(2013 Q1 THROUGH 2014 Q1)



SOURCE: MCGRAW HILL CONSTRUCTION RESEARCH + ANALYTICS

VEGETATIVE ROOFING

SPEC RATE BY PROJECT TYPE
(2013 Q1 THROUGH 2014 Q1)



SOURCE: MCGRAW HILL CONSTRUCTION RESEARCH + ANALYTICS

ROOFING AND SIDING PANEL MANUFACTURERS TO WATCH

- ALSIDE
- BERRIDGE METAL ROOF AND WALL PANELS
- CENTRIA
- METAL SALES MANUFACTURING CORPORATION
- METL-SPAN
- PETERSEN ALUMINUM CORP.

SOURCE: DOWNLOADS FROM SWEETS.COM OVER A 12-MONTH PERIOD