

Pest Prevention By Design

Caroline Cox, Dion Lerman, Allison Taisey

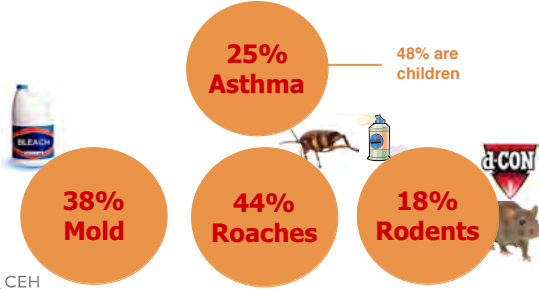


Pest Prevention By Design Project led by Chris Geiger, SFE Integrated Pest Management & Green Purchasing Program


Funding provided by the Centers for Disease Control and Prevention.



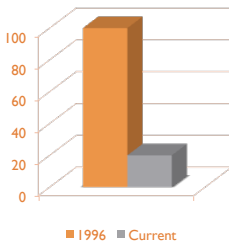
Alice Griffith Public Housing, San Francisco



- 38% Mold
- 44% Roaches
- 18% Rodents
- 25% Asthma (48% are children)




San Francisco's IPM ordinance



Municipal pesticide use decreased quickly after IPM ordinance passed in 1996. Further reductions have been slower.

■ 1996 ■ Current



PPBD Technical Advisory Committee

Name	Organization	Sector	Name	Organization	Sector
Allison Taisey, Ph.D.	Cornell Univ. Extension	Academic/ Extension	Luis Aguirto, Jr.	Pestec	Pest Control Industry
Arthur Slater	Slater Pest Control	Pest Control Industry	Lyn Garling	PA IPM Program, Penn State University	Academic/ Extension
Bobby Corrigan, Ph.D.	Corrigan Consulting	Consultant	Margaret Huribert	Univ. of Calif., Berkeley	Facility manager
Brad Guy	Material Reuse	Architect	Mark Palmer	SFE - Green Building Program	Government
Darren Van Steenwyk	Clark Pest Control	Pest Control Industry	Mary Louise Flint, Ph.D.	Univ. of Calif., Statewide IPM Program	Academic/ Extension
Dion Lerman	State University	Academic/ Extension	Megan White	WebCor Builders	Construction
Doug Henderson	Alameda Co. Lead Prevention Program	Government	Michael Merchant, Ph.D.	Texas A&M AgriLife Extension	Academic/ Extension
Greg Axten	American Geotechnical Inc.	Engineer	Nita Davidson, Ph.D.	California Dept. of Pesticide Regulation	Government
Jim Fredericks, Ph.D.	National Pest Management Association	Pest Control Industry	Paul Romano	New Jersey Institute of Technology	Architect
Jody Gangloff-Kaufmann, Ph.D.	New York State IPM Program	Academic/ Extension	Richard Estrada	ATCO Pest Control	Pest Control Industry
John Cahill	Cahill Inspection Services	Inspector	Sraddha Mehta	SFE - Environmental Justice Program	Government
Kathy Seikel	US EPA - Childrens Health	Government	Tara M. Cahn	Tara Cahn Architecture	Architect
Lee Tanner	US EPA - Office of Pesticide Programs	Government	Thomas Green, Ph.D.	IPM Institute of North America	Consultant
Leo Saylor	Cincinnati Metropolitan Housing	Public Housing Maintenance	Vernard Lewis, Ph.D.	Univ. of Calif., Berkeley	Academic/ Extension



<http://www.sfenvironment.org/download/pest-prevention-by-design-guidelines>

4.6.5 Sealing for stucco walls with offset framing and standard weep screed.

For offset framing where standard weep screed was used, install closed-cell foam backing rod between foundation and flashing. Apply suitable, vertical application and resilient caulking between foundation and flashing. Alternatively fill gap between foundation and flashing with self-adhering, expanding foam. Upon cure, trim flush with base of flashing.

Effective on: Ants, Spiders, Subterranean Termites, Dampwood Termites, Misc. Wood Destroying, and Misc. Insects

Compatibility Issues with Other Design Goals: None identified


References: Technical Advisory Committee

The diagram illustrates a cross-section of a wall foundation joint. It shows the foundation, a weep screed, and a flashing. A closed-cell foam backing rod is installed between the foundation and the flashing. The diagram is labeled "Stucco and Foundation Edge Detail".


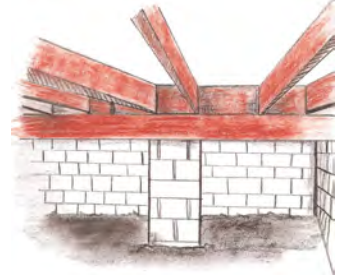
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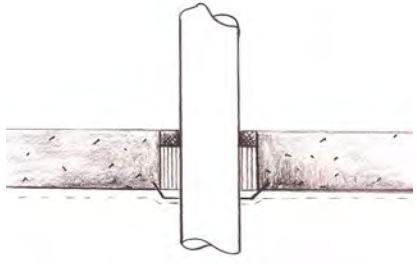
Foundations – examples




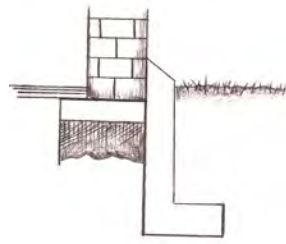
Clearance between foundation and soil




Sealing around utilities



Curtain walls




Siding- example



Caulks and sealants




Exterior Lighting-example




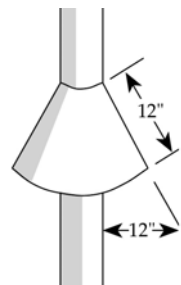
Motion Sensing Light Fixtures



Gutters and Downspouts – examples




Rodent guards



More rodent guards



Exterior Bird-proofing - examples



Sloped window sills



CEH

Bird "stops"



CEH

Landscaping - example


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Avoid ivy and honeysuckle




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Floors -example




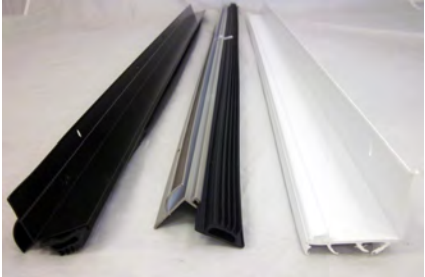
Drains with removable covers



Doors - example



Door bottoms and sweeps



Self closing doors



Windows - example



Screens and weather-stripping



Bathrooms - example



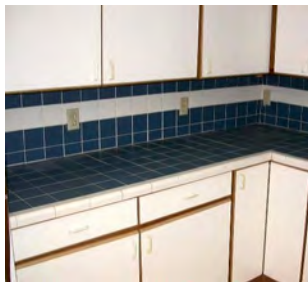
Escutcheons



Kitchens - example



Smooth cabinet doors



Refuse and Recycling - example



Design for easy cleaning



Miscellaneous - example



Design for easy inspection




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Scientific Coalition on Pest Exclusion
(SCOPE)
www.pestexclusion.org

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Discussion questions



1. What design/construction tactics have you used to successfully prevent pest problems? We'd like your ideas about what should be added to these guidelines.
2. One of our next steps is to add these guidelines to the LEED green building standards. What thoughts do you have about that approach?



More discussion questions



1. Where do you go to learn how to do home repairs?
2. Where would you go to purchase the materials you saw today?
3. Do you discuss pest management with your building/renovation contractors?
4. What do you think would drive demand for pest-proofing during the design phase of building?

