

TOTALFLASH™
CAVITY-WALL DRAINAGE SYSTEM
by Mortar Net USA, Ltd.

**If You Ever Find An
"Or Equal," Let Us Know.**

**Far More
Moisture-Control
Than Usual.***

Every modern moisture-control element has been built right into each lightweight, easy-to-use panel of pre-cut, 40-mil flashing, so everything you need arrives in one order. You just open the carton and start installing total protection!
(Available in sizes for restoration, renovation, or remediation, too.)

- 1 5 ft. Panels of PRE-CUT FLEXIBLE FLASHING†**
All main components are **factory-assembled** onto easy-to-mount flashing panels.
- 2 Built-In TERMINATION BARS** with pre-drilled holes, allow quick, one-man installation.
- 3 Built-In NO-CLOG DRAINAGE MATTE** lets water pass, unobstructed, to Weep Tabs.
- 4 Built-In NO-CLOG WEEP TABS** deliver moisture to the outside of the building.
- 5 Built-In STAINLESS STEEL DRIP EDGE** releases moisture away from building.
- 6 Clearly Specified LAP JOINTS** enforce complete secure coverage.
- 7 Built-In EDGE DAM** directs moisture out of building.



Get "Perfect Corners" with Pre-Formed Corner Boots, Stainless Steel Corners & End Dams



† Uses 40-mil polymeric, reinforced, UV stable flashing membrane, incorporating DuPont's Elvaloy® KEE polymer.

***Half (Or Less) Your Usual Time & Labor Costs.**



Watch ONE Mason Install TOTALFLASH In 1/3RD THE TIME It Takes For TWO Masons To Install Ordinary Flashing Elements!

That's right--one-third the time, meaning one-third the labor costs! See for yourself: Type www.MortarNet.com into your Web browser and watch the exciting "TOTALFLASH CHALLENGE" competition, held at 2008's World of Concrete convention.

It's TOTAL protection, installed in a FLASH!

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MASONRY

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Rehabs and Restorations

Check it out -
Great article on a
masonry restoration
project!

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TotalFlash in Action

Slashing labor costs; boosting moisture protection

BY MICHAEL TRUNKO



Left - Asbury Tower before restoration.
Below right - Asbury Tower after restoration.



Faced with time constraints and a structure subjected to severe ocean weather, LAN specified Mortar Net's TotalFlash for cavity wall drainage. The pre-assembled panels of flexible flashing and drainage components are designed specifically to control moisture in masonry construction.

"We saw an ad for TotalFlash in a trade publication and requested information for this project," says Vlad Potiyevsky, project architect with LAN. "We didn't want to use copper or lead-coated copper, which must be soldered in the field. They're expensive and time consuming, and it's hard to get precise joints, especially working high up. Soldering lead-coated copper also puts off toxic fumes."

Since the architects, engineers and masons had never used TotalFlash, LAN chose to do mock-ups before the actual installation. This enabled them to iron out several issues, such as the height of the flashing, the installation procedure, and how to attach it.

LAN brought in a testing agency to test the system on the completed mock-up wall. A four-inch water column was put on the mock-up -- a lot of water -- and it held up flawlessly. The water wept through the embedded weep tabs, and everything worked well.

Potiyevsky says it was worth every penny to do the mock-ups and evaluate each step before starting the demo. Time spent in the beginning paid off.

"The mock-up allowed the contractor to get used to the system, rather than trying it for the first time on the building," Potiyevsky says. "Preplanning on the ground is much more effective than doing it, without practice, 26 stories up."

ASBURY TOWER IS A 26-STORY, AFFORDABLE HOUSING COMMUNITY FOR SENIORS. The 35-year-old facility has 347

apartments and is located on the ocean in Asbury Park, N.J. While the building was structurally sound, sections of the brick facade had begun falling off.

LAN Associates, Engineering, Planning, Architecture, Surveying Inc., based in Midland Park, N.J., has been retained to reengineer the skin and spec out the project. The project also includes mechanical upgrades to air conditioning and sprinkler systems as well as interior upgrades, including new kitchens and bathrooms.

The principal-in-charge and architect-of-record is Kenneth Karle, AIA, PE, and president of LAN Associates. LAN services federal, state, county and municipal governments; housing authorities; boards of education; Fortune 500 companies; foreign companies and private clients.

Blade Contracting, of Staten Island, N.Y., is the masonry contractor. The company specializes in brick, block and waterproofing of new construction, high rises, and restoration work.

After scaffolding the entire building, the brick on each floor is being removed and then replaced.

"The demolition was the real challenge," says James Lerie, VP of Blade Contracting. "On new construction, we start from the bottom and work our way up. This job's different. We're going from the top down, and it's a challenge. It's harder than other projects."

The structure has 500 linear feet of relieving angle per floor. During construction, a couple of other issues arose. The corners of the building have a five-foot, 45-degree splay. To accommodate the design, Mortar Net prefabricated the drip edges for the splays to eliminate cutting in the field. They also prefabricated the inside and outside corners.

Prefabricated pieces are much faster to install. Masons simply open the box, take out a panel, and then adhere and screw it into place, rather than handling and cutting rolls of flashing. Each five-foot, pre-assembled panel has everything built-in: termination bar, drainage mat for mortar droppings, edge dams, no-clog



weep tabs, stainless steel drip edge and clearly marked lap-joints for precise coverage.

"TotalFlash is a great concept and the crew took to it in no time," says Lerie. "They're getting along with it quite well. There's a definite savings in time."

Installation can be done quickly and methodically, and can even be done by one person, resulting in significant labor savings. Plus, all components are built-in, so there's no downtime waiting for separate items to be delivered. Mortar Net reports that builders have seen labor savings of 50 percent or more, compared to conventional moisture-control detailing.

"I've been around a while, and this is a great product," Lerie says. "It's easy to work with, and it's a very good solution to the challenge we faced."

The project is ahead of schedule, and Potiyevsky attributes it to the masons and TotalFlash. "There was a slight learning curve on the first floor, but each successive floor is going smoother. The guys are really flying," he says. "This is a challenging project with demoing, relaying brick, starting from the top down, and it was a bear to scaffold. But everything's under control and figured out. We're getting the job done right, and ahead of schedule." **IMAS**

Michael Trunko is a writer specializing in construction-related topics. Since 1983, he has written more than 700 case studies and articles.

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James Lerie, VP of Blade Contracting



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Vlad Potiyevsky, Project Architect with LAN Associates

Below is a partial list of TOTALFLASH™ Projects

Adair County Judicial Facility	Columbia	KY	Minit Mart	Nicholasville	KY
Asbury Towers	Asbury Park	NJ	Minit Mart	Greenville	KY
Catholic School	Huntington	WV	PT Harmony Elementary School	Charleston	WV
Wal-Mart Supercenter Store	Cleveland	OH	Public Works Facility	Galena	IL
Condominium Restoration	Toronto	CANADA	Tyser Tower and Byrd Stadium Renovation/Expansion	College Park	MD
Cottonwood Elementary School	Casper	WY	South Central School	Union Mills	IN
Eglin Air Force Base - Dormitory	Eglin AFB	FL	St. Patrick's Church	Kansas City	MO
Federal Building	Shreveport	LA	Stafford Hospital	Stafford	VA
Fresenius Medical Center	Salem	OH	Teachers Credit Union Service Center	Warsaw	IN
Gate City Bank		ND	Trimble County Courthouse	Bedford	KY
Hampton Inn Hotel & Suites - Pool	Yonkers	NY	Warsaw Teachers Credit Union	Warsaw	IN
Hospice Medical Building/Inpatient Facility	Bowling Green	KY	Wilson High School	Reading	PA
Indian Hills Country Club/Club House	Bowling Green	KY			
Landon State Office Building	Topeka	KS			
Lincoln Memorial University	Harrogate	TN			
Louisiana State University Medical School	Shreveport	LA			
Various Custom Residences					