



# AIA Bronx Chapter

Volume 10, 2019

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Publication Committee

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Published by the Bronx Chapter AIA Publications Committee to highlight activities and information of interest to the Practicing Architect.

## Newsletter

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- Hanley Wood University – Horizontal Insulated Metal Panels - CEU
- HWU – Update – Rigid Board Insulation - CEU
- Architect Forum – Keeping Moisture Out of the Building - CEU
- HWU - Update – Designing with Light - CEU

#### III AIA Activities

- AIA Convention 2020  
May 14-16, 2020  
Los Angeles, California  
Link: <https://conferenceonarchitecture.com>
- NYC Buildings – First Annual New York City Design Professionals Day – CEU  
January 14, 2020  
NYU Center for Urban Science & Progress  
370 Jay Street, Brooklyn, N.Y. 11201  
Registration: [www.nysspe.org](http://www.nysspe.org) (Under PDH Events)

V Next Chapter Meeting is Thursday January 23, 2020 at 6:00pm.

I **Current Activities:**

**Chapter Meeting Minutes December 12, 2019**



December 12, 2019

Meeting Minutes

Meeting began at 12:10pm

Attendees

William Davis  
Sara Djazayeri  
Robert Esnard  
Antonio Freda  
Ken Koons Sr.  
Ken Koons Jr.  
Jorge Lee  
Jerin Lisha  
Giuliano Penna

Guests

Crystal Window & Door Systems Ltd.  
Vincent J. Grieco – Regional Sales  
Amanda N. Li – Marketing Coordinator

Agenda / Discussion:

1. Vincent J. Grieco – a Regional Sales/Technical Manager from Crystal Window & Door Systems Ltd. presented a seminar titled “Specifying Windows, Doors and Skylights using Performance Standards”, with slides and physical samples of windows for Continuing Education Credit. He was accompanied by Amanda N. Li, a Marketing Director and three other company representatives. Vincent reviewed the history of window manufacturing including the evolution of regulations in the United States and within the New York Region. Prior to the 1940’s, windows and doors standards were developed individually by architects based on the needs of specific projects and clients. As construction became more regulated, standards were introduced by manufactures and their industry trade organizations, as well as governmental, construction regulatory agencies. The overall goal of this industry was to create “predictability” for products with characteristics that the construction industry could utilize to systematically choose the type of windows and/or doors for specific situations in a rational way.

In 1947, the industry created the first nationwide standard to attempt to “consistently” measure the performance of windows, doors and skylights. From this first standard until 2005, the industry used five general categories to classify windows:

- R – Residential
- LC – Local Commercial
- C – Commercial
- HC – Heavy Commercial
- AW – Architectural Window

These categories evolved in 1985 to specifically cover aluminum windows and doors, in 1986 vinyl windows were also included. In 1997 all the standards nationwide changed to consistent, “performance standards” measured by an independent “third” party organization. These standards were upgraded again in 2008 to simplify classifying products taking the five categories listed above into four categories. The last two categories HC and AW combined into an enlarged new AW category. This was done using the AAMA/WDMA/CSA-101/I.S.2/A440 **North American Fenestration Standard/Specification (NAFS)** for windows, doors and skylights.

The performance characteristics are broken down into five rating categories:

- a) structure
- b) water penetration
- c) air infiltration
- d) deflection and
- e) resistance to forced entry.

Each one of these elements have specific performance levels and are rated and grouped by; pressure, water and air infiltration, durability, and the ability to resist a forced entry. Each one of these are organized by classifications i.e., R, LC, C and AW. The performance characteristics are rated by the **American Architectural Manufacture Association (AAMA)**, an independent nationally recognized third-party organization. The ratings are indicated on every manufactured product, with factory installed labels that describe the test rating for the five performance characteristics with the appropriate class and manufacturers product serial numbers. The purpose is to allow architects, contractors and owners to predict the kind of performance appropriate for specific projects, so that a project can be built with the appropriate window, door or skylight relative to the project’s actual location. This rating also will indicate to inspectors and owners that the legal requirements and the needs of the user for a finished building will meet the relevant code requirements.

Vincent illustrated how specific projects should specify windows, doors and skylights to reflect the specific project location and the user’s needs. One of the key elements after selection he recommended, is to whenever possible, require before construction, a physical “mockup” of the completed assembly. This allows a product to be inspected, tested and reviewed at the location the project is to be built at. Also, this is the best way to be sure, all the characteristics of the product and the contractor’s installation techniques are in conformity with project specifications and expectations.

Vincent Grieco also emphasized the importance of double-checking local code requirements so that a project is built legally. He illustrated examples of some products have levels of air and water infiltration characteristics, that would be nationally acceptable relative to industry standards by AAMA, but not high enough to satisfy local codes like in New York City, which has more stringent limits for many performance characteristics of windows, doors and skylights.

At the end of the presentation Vincent Grieco, with other members of the crystal team in attendance, handed around various physical samples of window and door components to illustrate many of the situations he had discussed generally and during the slide presentation. Vincent with pictures, descriptions and samples, clearly explained a very complicated subject, wonderfully. He obviously had many years of “hands on” experience, which allowed him to speak with confidence, respond to issues and all questions raised during the presentation as well in the question/answer at the end of the seminar. Vincent volunteered that he and his colleagues would be willing to assist Chapter members on their projects, to assure that the appropriate window, door or skylight will be selected with the required characteristics. His presentation was dynamic, professional and well received by the Chapter members. He can be contacted at:

Vincent J. Grieco  
Regional Sales/Technical Manager  
Crystal Window & Door Systems, Ltd.  
Tel: 718-943-2481  
Email: [Vincent@CrystalWindows.com](mailto:Vincent@CrystalWindows.com)

2. The Minutes of the November 21, 2019 were circulated. Sara Djazayeri made a motion for approval and the motion seconded by William Davis. The November minutes were then unanimously accepted.

### 3. Meeting Dates:

The meeting dates will continue to alternate luncheon and dinner meetings. The schedule for the next meeting in January 23, will be a dinner meeting and the schedule for the next few meetings are:

January 23, 2020	-	6:00pm
February 20, 2020	-	12:00pm
March 19, 2020	-	6:00pm
April 20, 2020	-	12:00pm

4. Chapter Committees:

- Budget

Treasurer Kenneth Koons Jr. presented and circulated a proposed budget for 2020 which is summarized below:

**AMERICAN INSTITUTE OF ARCHITECTS**

**BRONX CHAPTER**

**PROJECTED BUDGET FOR THE YEAR 2020**

EXPENSES.

MEETING VENUE.	\$3000	\$	3,000
INSURANCE.	2000	\$	2,000
WEB SITE.	350	\$	350
EXPENSES FOR OFFICERS TO			
ATTEND CONVENTION.	600	\$	600
AIA COMPLIANCE CONSULTANT.	1500	\$	1,500
ARCHITECTS COUNCIL.	400	\$	400
HUDSON VALLEY ASSOCIATION.	750	\$	750
AWARDS PROGRAM.	1500	\$	1,500
LEGAL.	4000	\$	4,000
MEMBERSHIP UTREACH.	400	\$	400
ACCOUNTING.	400	\$	400
<b>TOTAL PROJECTED EXPENSES.</b>	<b>14,900</b>	<b>\$</b>	<b>14,900</b>

**PROJECTED INCOME BASED ON**

<b>YEAR 2019.</b>	<b>16,000</b>	<b>\$</b>	<b>16,000</b>
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Ken indicated that the Chapter has always operated within its' budget and he and the Chapter Audit Committee expect to continue that practice through the 2020 year. The projected income is developed from membership dues and sponsorship fees which is estimated to be \$16,000, with expenses, assuming the same level of activity as 2019, at approximately \$14,900 dollars. Tony Freda made a motion to adopt the 2020 Budget and Sara Djazayeri seconded it and the 2020 Budget was passed unanimously.

- Education:

Sara Djazayeri described the Education Committee's efforts and the first proposed Chapter program, of educational outreach, to take place March 11, 2020 at P.S. 86, which is located in the Kingsbridge Heights section of the Bronx. The plan is for the committee meet a middle school class in the morning at P.S. 86, to discuss architecture and what an architect actually does. Then take a trip with the students to Byer Binder & Bell's architectural office in Manhattan. This visit will allow the children to observe architects in action and participate in a short workshop. Sara indicated that she and Ofe Clarke are scheduled to accompany the children.

- Events Committee:

Josette Matthew arranged for an informal get together of Bronx Chapter members and friends to attend the Train Show at the New York Botanical Gardens on Saturday evening December 14<sup>th</sup>. This event had been indicated in the notices previously and members. If any member would like to visit the Train Show, click the link on Garden's website to purchase tickets. For the future, Josette is hoping at the next meeting, to present some planning ideas for 2020 events. She welcomes input or member ideas for possible activities and can be contacted by cell at 347-819-2269 or by email [j.matthew061@gmail.com](mailto:j.matthew061@gmail.com).

## 5. Department of Buildings: Commissioner's Meeting

Tony Freda was invited as Chapter President to an industry meeting with DOB Commissioner Melanie La Rocca and her staff on December 9, 2019. The meeting was a chance for Design Professionals to meet the Commissioner and listen to a presentation of her hopes and her thoughts for DOB in the near future. The discussion was frank and cordial, even though there were many controversial topics and disagreements among the attendees. The Commissioner is continuing the efforts of the former Commissioner Rick Chandler to implement DOB NOW, so that all filings will be electronically filed through the new DOB NOW "Portal". There were comments about understanding "the actual" filing process as it appears to be more complicated than the previous system. The Commissioner acknowledged that the system has growing pains. Her goal is to iron those out quickly and to making filing as efficient and fast as possible. The Department will be evaluating what is submitted through the portal, on what has worked well and what was less successful. One of the important modifications of filing currently, is that Directive 14 will be not used once DOB NOW is completely operational. In addition, "Pro-Cert" will still be an option for now, but all applications will undergo a preliminary DOB examination. She expects the DOB NOW process to be completely operational and implemented sometime next year in July/August.

There were other discussions about enforcement and the solar requirement for roofs which went into law this month on November 19, 2019. All new alterations, where new roof, roof systems or decks are installed, must have solar panels or a "vegetated" roof. Tony will supply the handouts of the Commissioners meeting; including DOB's bulletin implementation memos and Local Law notices all of which will be attached as, "Amendments A to H" to be included in December's meeting minutes for members information:

- New York Chapter Meeting – Local Law Issues.

William Davis attended a subsequent meeting at the New York Chapter AIA on Wednesday, October 11, 2019 which contained many of the same issues that Tony Freda discussed. The NY Chapter has distanced itself from the Architects Council as they wanted to work as much as possible with the regulatory NYC agencies.

However, the meeting invitation was open to include other borough organizations as well as the NY Chapter. The agenda concentrated on the City Council's "punitive" legislation. The attendees made recommendations to mitigate the worst elements of the legislation. The discussion was to change the approach to not punish, inadvertent or an oversight "honest" mistakes by architects but to be sure the DOB went after life safety violators and professionals who intentionally misrepresent what is required. Proposed new language or changes will be prepared on many of the issues discussed and will be circulated to attendees for comment. The idea of eliminating "Pro-Cert" at the meeting as one of the remedies. Bill will keep the Chapter informed on issues as he is copied on these issues.

#### 6. Continuing Education

The Bronx Chapter will sponsor its' spring Tour with the Bronx County Historical Society in May/June of 2020 to satisfy the National AIA requirement that all Chapters have to originate four and CEU credits a year. Lloyd Ultan, the Bronx County Historian has suggested the Yankee Stadium area and 161<sup>st</sup> Street area as a possible spring Tour. He will prepare a proposal that Julian Misiurski of the Chapter and Bob Esnard will review to present to the Chapter for approval in a future Chapter meeting.

#### 7. New Business

As the meeting was running late, the discussion of a possible Chapter Directory and AIA National's request for a Chapter "Cloud Resource" to store Chapter of information was tabled for a future Chapter meeting.

The meeting was adjourned at 2:14pm.

Next Meeting – The next meeting will be a dinner meeting at 6:00pm at Artie's Restaurant, on **January 23, 2019.**

#### **Attachments:**

**A through H**

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## Attachment A

NYCDOB Industry Meeting with  
Commissioner Melanie La Rocca & Staff

### NYCDOB INDUSTRY MEETING WITH COMMISSIONER MELANIE LA ROCCA & STAFF

12/9/2019

#### CODE UPDATE:

Be on the lookout for a **new plumbing code** should be out this month City Council is currently voting on the law. The law is available on the City Council Website.

The **Electrical Administrative Code** will be moved from the Title 27 to Title 28 to conform to the new rules.

DOB is studying a new **Waterfront Building Code** and is currently in consultation with Federal and State agencies as well as other city agencies to see how they handle waterfront structures, ports, and terminals.

DOB is preparing to adopt a **New NYC Energy Code** and may be implemented March 2020 based on the NYS Energy Code with changes that suit NYC.

#### INTERIM CERTIFICATES OF OCCUPANCY:

DOB is launching a new type of Certificate of Occupancy called "Interim C of O" (ICO). This new certificate is a final C of O normally for a portion of the building. The ICO is not permanent since the application is not closed out with the issuance of an ICO. An example that was mentioned - the residential portion of a multistory mixed-use building may be occupied once completed and fully inspected while the remaining shell portion is being built out. Not all the details are ironed out yet but it's safe to assume that obtaining ICO is just as difficult as obtaining a final CO. The difference between an ICO and a TCO (as we have now) is that all inspections on the ICO are final for that portion of the building and do not expire. The application will only be closed out once the final C of O is issued for the entire building.

#### BUILDING BULLETIN 2018-008:

See "bb\_2018-008" attachment

Many of the professionals attending the meeting had concerns about "final sign-off" requirement for applications that do not involve a new C of O. the general consensus was that the professionals are unnecessarily putting themselves on the line to finalized an application with a "final inspection" where other special inspectors are needed to sign-off special inspections they can't do or were not hired to do. In these cases, the concern is that they will be dragged into a law suit regardless for someone else's negligence.

Among other concerns professionals are also uncomfortable with "final sign-off" because it triggers audits. Usually audits find some minor in some cases major errors that applicant have differing interpretations of the code or requirement. Cases brought to court by DOB against the applicant, according to one attendee, are almost 100%



won by DOB. This rule that final sign-offs are required for all jobs not involving a C of O and requiring professionals to provide a “final sign-off” is still a concern and should be protested against by our association.

**BUILDING BULLETIN 2018-010:**

See attachment “bb\_2019-010”.

Currently as of November 19, 2019 all new buildings, alterations that create new roofs, and new roofing decks and systems will be required to install and maintain a minimum 4Kw **solar panel system and or a vegetated roof area**, with some exceptions. See “green\_roof\_solar\_1192-n-94of2019\_sn” attachment. The required area as calculated for the 4Kw may be more than the current requirement for solar panel ready roof areas as per RB103.3 Solar-Ready Zone Area

**LOCAL LAW 97 IMPLEMENTATION:**

See attachment “1197of2019”.

New and existing buildings under “covered buildings” (defined differently under 28-321) must either comply with limited emission standards or prescriptive energy conservation measures.

**DOB NOW:**

Currently all work types except OT and NB must be filed under DOBNOW. With the exception of plumbing + standpipe + sprinkler and Sidewalk shed + supported scaffold + fence that can be filed as a group or individually all work types must be filed separately.

- **Plumbing, Sprinkler and Standpipe**
- **Antenna**
- **Curb Cut**
- **Sidewalk Shed, Supported Scaffold, Fence**
- **Sign**
- **Electrical**
- **Elevator**
- **LAA**
- **Place of Assembly and Temporary Place of Assembly**
- **Mechanical Systems**
- **Structural**
- **Boiler Equipment**

Good news is that structural does not have to be filed separately unless it falls under the defined guidelines see attachment “dobdow\_build\_structural\_work\_type\_sn”.

And

Directive 14 will go away once the DOBNOW is complete and is the only filing method. DOB asserts that all applications will undergo some sort of preliminary examination regardless if it’s Pro-Cert or not. This is made possible according to DOB because the information on each application is narrowed down to individual work types. Only confusion is the coordination of all the work types and linking them to one job.

Once DOB NOW is complete, expected to be sometime next year, three more sub-sections will be added. OT will be GC (general construction), NB, and Alt (CO). ALT1, ALT2, ALT3 will be eliminated.

**Enforcement:**

The biggest take away here is that the commissioner is intent on enforcing the rules to root out the bad actors, even if there is collateral damage along the way.

One issue that was brought up is that while design professionals are prosecuted and fined, filing representatives that represent themselves as architects and or engineers are reprimanded.

Inspectors will be going out to do random inspections checking to see if the work complies with the approved drawings. Stop work orders could be issued for simply not having the u value sticker on the windows while under construction, or not that the u value does not conform to the approved drawings.

DOB drawing audits will look for zoning errors, code errors, and intentional misrepresentation in an egregious manner.

**Estimated costs:**

DOB uses RS Means, all other references such as my brother in law gave me a great price will not work.

**Retaining Walls:**

See attachment "1\_RCNY\_103-09"

Owners of properties with retaining walls 10 feet or higher facing a public right of way shall file with the Retaining Wall Unit a structural stability report.

I believe architect need not apply since the codes clearly states structural engineers are required to file.

If your client receives this notice and believe it does not apply to them use form attached – follow directions and email back with all the backup documents requested by the form. See attached form "retaining\_walls\_unit"

**Attachment B**

**C of O**

NYC Buildings Bulletin 2018-008

Operational

See Link Below

[https://www1.nyc.gov/assets/buildings/bldgs\\_bulletins/bb\\_2018-008.pdf](https://www1.nyc.gov/assets/buildings/bldgs_bulletins/bb_2018-008.pdf)

## **Attachment C**

### **Roofs**

NYC Buildings Bulletin 2019-010

Technical

See Link Below

[https://www1.nyc.gov/assets/buildings/bldgs\\_bulletins/bb\\_2019-010.pdf](https://www1.nyc.gov/assets/buildings/bldgs_bulletins/bb_2019-010.pdf)

## **Attachment D**

### **Solar**

NYC Buildings Service Notice

Local Law 92 of 2019 and Local Law 94 of 2019:

Green Solar Roof Requirements for New Buildings

And Complete Roof Replacements

See Link Below

[https://www1.nyc.gov/assets/buildings/pdf/green\\_roof\\_solar\\_ll92-n-94of2019\\_sn.pdf](https://www1.nyc.gov/assets/buildings/pdf/green_roof_solar_ll92-n-94of2019_sn.pdf)

## **Attachment E**

### **Roofs**

Local Laws

of

The City of New York

For the Year 2019

See Link Below

[https://www1.nyc.gov/assets/buildings/local\\_laws/ll97of2019.pdf](https://www1.nyc.gov/assets/buildings/local_laws/ll97of2019.pdf)

[https://www1.nyc.gov/assets/buildings/local\\_laws/ll97of2019.pdf](https://www1.nyc.gov/assets/buildings/local_laws/ll97of2019.pdf)

## **Attachment F**

### **DOB NOW**

NYC Buildings Service Notice

Interim Guidelines for Structural Work Type Filing

in DOB Now: *Build*

See Link Below

[https://www1.nyc.gov/assets/buildings/pdf/dobdow\\_build\\_structural\\_work\\_type\\_sn.pdf](https://www1.nyc.gov/assets/buildings/pdf/dobdow_build_structural_work_type_sn.pdf)

## **Attachment G**

### **Retaining Walls**

Chapter 100

Subchapter C. Maintenance of Buildings

See Link Below

[https://www1.nyc.gov/assets/buildings/rules/1\\_RCNY\\_103-09.pdf](https://www1.nyc.gov/assets/buildings/rules/1_RCNY_103-09.pdf)



**Attachment H**  
NYC Buildings  
Retaining Wall Unit  
*Notice of Violation*



**Retaining Walls Unit**  
**NOTICE OF VIOLATION**

Submit typewritten form to [LRetainingWalls@buildings.nyc.gov](mailto:LRetainingWalls@buildings.nyc.gov)

LOCATION: \_\_\_\_\_  
BOROUGH: \_\_\_\_\_  
BLOCK: \_\_\_\_\_ LOT #: \_\_\_\_\_ BIN#: \_\_\_\_\_  
VIOLATION #: \_\_\_\_\_

Dear Sir/Madam:

You have been issued this violation because our records indicate that you have failed to file an acceptable inspection report for the above-referenced retaining wall. This report is required to be filed by the New York City Administrative Code §28-305.4 and 1RCNY §103-09.

Submit the TR16 form (Periodic Inspection of Retaining Walls) along with the report in the format described in the attachment to:

**Mail:** NYC Department of Buildings      **OR**      **Email:** [LRetainingWalls@buildings.nyc.gov](mailto:LRetainingWalls@buildings.nyc.gov)  
Attn: Retaining Walls Unit,  
280 Broadway, 4<sup>th</sup> Floor,  
New York, NY 10007.

If either of the statements listed below is applicable to you, please check the appropriate line and forward the requested documentation to the address listed above.

I have not owned the building since \_\_\_\_\_.

The new owner's name and address is:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

*In support of the above claim, please forward all deed change information electronically to the Retaining Walls Unit at [LRetainingWalls@buildings.nyc.gov](mailto:LRetainingWalls@buildings.nyc.gov).*

I am the owner; however, there is no retaining wall on my property.

*In support of the above claim, you **must** forward a property survey that is signed and sealed by a NYS licensed land surveyor with representative photographs of the property including, but not limited to: all exterior spaces (all lot line conditions) and all buildings on lot. Please send this evidence electronically to the Retaining Walls Unit at [LRetainingWalls@buildings.nyc.gov](mailto:LRetainingWalls@buildings.nyc.gov).*

\_\_\_\_\_  
Name (please print)

\_\_\_\_\_  
Owner's Signature

Address \_\_\_\_\_

Date \_\_\_\_\_

Phone No. \_\_\_\_\_

Melanie E. La Rocca, Commissioner  
build safe | live safe

[nyc.gov/buildings](http://nyc.gov/buildings)

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## II Related Articles and Education Opportunities

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### [Fire Safety In High-Rise Structures](#)

Register

*PDH Potential: 1 Hour, Canada Potential: 1 Learning Credit, AIA: 1 LU | HSW*



### [The Business Case for Building with Wood](#)

Register

*PDH Potential: 1 Hour, Canada Potential: 1.25 Learning Credit, AIA: 1.25 LU | HSW*



### [Precision and Performance with Manufactured Stone Veneer](#)

Register

*IDCEC: .1 CEU, AIA: 1 LU | Elective, Canada Potential: 1 Learning Credit*



### [New Concrete Technologies and Innovations](#)

Register

*AIA: 1 LU | Elective, Canada Potential: 1 Learning Credit*



**Commercial Roofing Products  
that Meet Thermal, Fire, Wind,  
and Impact Standards**

Register

*Canada Potential: 1 Learning Credit, AIA: 1 LU | HSW*

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**Integral Hardening Admixture  
for Wear-Resistant Concrete**

Register

*Canada Potential: 1 Learning Credit, AIA: 1 LU | HSW*

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**Residential Heat Management Solutions and the Wellness Benefits of Gas Fireplaces**

*Canada Potential: 1 Learning Credit, AIA: 1 LU | HSW*

**Register**



**Wood and Evolving Codes: The 2018 IBC and Emerging Wood Technologies**

*PDH Potential: 1 Hour, Canada Potential: 1.5 Learning Credit, AIA: 1.5 LU | HSW*

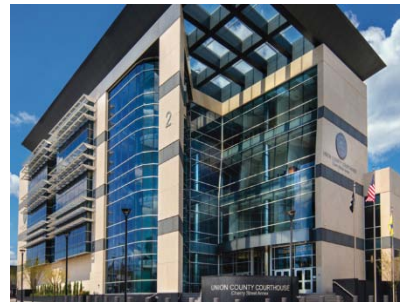
**Register**



**Porcelain Pavers Combine Beauty and High Performance**

*IDCEC: .1 CEU, AIA: 1 LU | Elective, Canada Potential: 1 Learning Credit*

**Register**



**The Value of Factory-Glazed Curtain Wall and Window Wall Systems**

*AIA: 1 LU | Elective, Canada Potential: 1 Learning Credit*

**Register**



### **Acoustics, Daylighting, and Material Selection**

*Canada Potential: 1 Learning Credit, AIA: 1 LU | HSW*

**Register**



### **Motorized Pergola Systems: Optimizing Outdoor Spaces**

*IDCEC: .1 CEU HSW, AIA: 1 LU | Elective, Canada Potential: 1 Learning Credit, LA\_CES/non-HSW: 1 PDH*

**Register**



Thanks to innovations in building envelope design, metal buildings are growing in popularity and architects are using them in residential, office, retail, and institutional projects.

**This course** covers the multi-faceted practical and aesthetic benefits of horizontal insulated metal panels, and provides case studies to illustrate the winning designs in which they have been used.

**Earn 1 AIA LU | Elective, 1 Canada Potential Learning Credit**

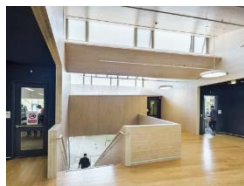
**Register**



**Rigid Board Insulation:  
Providing Real Space Value in  
Commercial Real Estate**

Register

*AIA: 1 LU | Elective, PDH Potential: 1 Hour, Canada Potential:  
1 Learning Credit*



**Exceeding Thermal  
Performance Goals by  
Choosing Wood**

Register

*Canada Potential: 1 Learning Credit, AIA: 1 LU | HSW, GBCI:  
1 CE Hour*



**Using the 7 Principles of  
Universal Design for  
Specifying Windows**

Register

*NARI: 1 Hour, Canada Potential: 1 Learning Credit, AIA: 1 LU |  
HSW, GBCI: 1 CE Hour*



**Exploring Advanced  
Technology of Modern Energy  
Efficient Gas Fireplaces**

Register

*IDCEC: .1 CEU HSW, Canada Potential: 1 Learning Credit,  
AIA: 1 LU | HSW*



**Aesthetically Designed,  
Durable Prefabricated  
Fireproof Columns**

Register



**Exploring Fenestration  
Materials: Wood, Vinyl,  
Composite, and Hybrid**

Register

*AIA: 1 LU | Elective, Canada Potential: 1 Learning Credit*

## AIA ONLINE CONTINUING EDUCATION

Health Safety & Welfare Credits Available

### MTI MASONRY TECHNOLOGY INC. Education Resources

#### **Masonry Technology, Inc. is a Registered Provider with The American Institute of Architects Continuing Education System.**

MTI is the sponsor and provider for the following courses. They are complimentary to all designers. Credits upon successful completion will be reported on behalf of all AIA members. Nonmembers please print the certificate as proof of course completion.

## Draining Your Wall, Not Your Wallet

<https://www.architect-forum.com/emails/MTI/2018/MTI-816-Course-Logo-Wide600.jpg> style="outline: none; text-decoration: none; display: block; clear: none; float: none; margin-left: auto; margin-right: auto; display: none; mso-hide: none;">

none;" align="center" width="600">

## Understanding the Temperature & Moisture Relationship #MTI 816 | 1 LU/HSW

New building code requirements focus on improving energy efficiency, but are we re-creating the EIFS disasters of the early 90s? This course explores the relationship between temperature and moisture, and uses these principles to look at energy-efficient, healthy and sustainable buildings by including drainage in the building envelope.

[REGISTER](#)

[LOGIN](#)

## Rainscreen 101 Revisited!

<https://www.architect-forum.com/emails/MTI/2018/Rainscreen-101-Revisited-logo600.jpg> style="outline: none; text-decoration: none; display: block; clear: none; float: none; margin-left: auto; margin-right: auto; display: none; mso-hide: none;" align="center" width="600">

## Moisture Management Techniques for Healthier Structures #MTI 712 | 1 LU/HSW

Moisture is the number one cause of building envelope failures. When used correctly, rainscreen moisture management systems greatly reduce that risk; however, one size doesn't fit all! From furring strips to building wraps to manufactured rainscreen drainage products, the potential rainscreen drainage choices are many, but certainly not equally effective. Learn the fundamentals of choosing the right rainscreen moisture management system for your next project and leave with resources that can simplify the process.

[REGISTER](#)

[LOGIN](#)



# From the Ground Up!

<https://www.architect-forum.com/emails/MTI/2018/From-the-Ground-Up-Course-Logo600.jpg> style="outline: none; text-decoration: none; display: block; clear: none; float: none; margin-left: auto; margin-right: auto; display: none; mso-hide: none;" align="center" width="600">

Sustainability Strategies for the Rainscreen Building Envelope  
#MTI 609 | 1.25 LU/HSW

Moisture intrusion at all levels of the building envelope is a major sustainability and health issue. This course focuses on three areas of the building envelope that have unique moisture intrusion issues: the foundation/below-grade construction, window and door rough openings and parapet walls. The course not only looks at how moisture gets into these moisture-prone areas of the rainscreen building envelope, it also presents suggestions on how to remedy the problems with effective rainscreen moisture management systems

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## Don't Get Soaked!

<https://www.architect-forum.com/emails/MTI/2018/Dont-Get-Soaked-Course-Logo-Wide600.jpg> style="outline: none; text-decoration: none; display: block; clear: none; float: none; margin-left: auto; margin-right: auto; display: none; mso-hide: none;" align="center" width="600">

Drainage Solutions for the Rainscreen Building Envelope  
#MTI 131 | 1 LU/HSW

The health & sustainability costs of moisture in the rainscreen building envelope can be dire! The evidence is clear that moisture related building envelope failures, and their health related consequences, are still commonplace. This course examines some well-known failure incidents as well as health issues related to moisture intrusion; it examines moisture-prone areas of the rainscreen building envelope; and it presents specific suggestions on how to remedy the problems in those areas with effective rainscreen moisture

management systems.

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## Weep Now or Weep Later!

<https://www.architect-forum.com/emails/MTI/2018/Weep-Now-or-Weep-Later-logo600.jpg> style="outline: none; text-decoration: none; display: block; clear: none; float: none; margin-left: auto; margin-right: auto; display: none; mso-hide: none;" align="center" width="600">

The Importance of Getting Bottom of Wall Drainage Right!  
#MTI 141 | 1 LU/HSW

Effective moisture management systems are critical to HSW, sustainable design and energy efficiency. Cavity walls of 1" or greater must provide adequate drainage at the bottom of the wall to allow moisture to exit efficiently from the building envelope.

This course looks at studies that support the need for adequate weep systems, states the criteria of those systems, and covers the risk zones where those systems are needed. This course is designed to help you meet the AIA's HSW requirements.

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### Moisture Management Solutions

MTI offers many free educational resources at MTIdry.com. Our Hyperspecs section features more than 150 drawings and animations illustrating best-practice solutions to building moisture problems. Product Performance

Predictable drainage and drying is a key element to high performance building design. Learn more about how rainscreens work and partner with the experts at MTI today.



**Designing with Light: Best Practices and New Technology**

*IDCEC: .1 CEU HSW, AIA: 1 LU | Elective, Canada Potential: 1 Learning Credit*

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**Understanding Advancing Wall System Design around Continuous Insulation**

*PDH Potential: 1 Hour, Canada Potential: 1 Learning Credit, AIA: 1 LU | HSW*

**Register**



**Composite Stone and the Evolving Exterior Stone Category**

*AIA: 1 LU | Elective, Canada  
Potential: 1 Learning Credit*

**Register**



**Create Beautiful Outdoor Spaces with Polymer and Composite Deck Material**

*AIA: 1 LU | Elective, Canada  
Potential: 1 Learning Credit,  
LA\_CES/non-HSW: 1 PDH*

**Register**



**Integrative Analysis of Building Materials**

*PDH Potential: 1 Hour, Canada  
Potential: 1 Learning Credit, AIA: 1  
LU | HSW, GBCI: 1 CE Hour*

**Register**



**Making the Right Choice: Storefront, Window Wall, or Curtain Wall**

*AIA: 1 LU | Elective, Canada  
Potential: 1 Learning Credit*

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**THE END**