11 - 2016





Presented By: Erin Gill, Director of the City of Knoxville's Office of Sustainability





ORGANIZED SEPTEMBER 1958 - CHARTERED MAY 1959

THE KNOXVILLE CHAPTER MEETS ON THE SECOND TUESDAY OF EVERY MONTH. GUESTS ARE WELCOME!



CONSTRUCTION SPECIFICATIONS INSTITUTE



MEMBER OF THE CSI **GULF STATES REGION** THESPECKEditor

Stacy Flick Colbaugh - Editor scolbaugh@lewisgroup.net

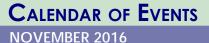
THESPECK is published monthly by the Knoxville Chapter of the Construction Specifications Institute. Readers are encouraged to submit articles and images of the construction industry interest for our membership. All submittals should be sent via e-mail, in the following formats: PDF, RTF, TIFF, JPEG, DWG, BMP, EPS, & DOC. Deadlines are the 25th of each month.



KNOXVILLE CHAPTER: NOVEMBER 2016

Knoxville Chapter

- 52 PROFESSIONAL
 - **1** Emerging Professional
 - **6** STUDENT
 - **2** EMERITUS
- 2 Retired
- 63 TOTAL



- 01 CSI Board Meeting - Tuesday, November 1st, 5:30 pm at Odle & Young's Office
- CSI Chapter Meeting Tuesday, November 8th, 08 11:30 am at Calhoun's on the River. "City of Knoxville Sustainability initiatives" Presented by Erin Gill (No AIA LU)

CSI LUNCH & LEARN Friday, November 18th, 11:45 am - 1:00 pm

Tapered Insulation

Presented by Mike Ford The Garland Company, Inc.

1 HR Learning Unit (1LU)

East Tennessee Community Design Center WATE 6 Carriage House 1300 N. Broadway, Knoxville, TN 37917 RSVP to Jeremy Shipp at shipp.arc@gmail.com

DECEMBER 2016

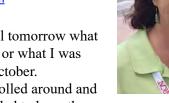
- 06 CSI Board Meeting - Tuesday, December 6th, 5:30 pm at Odle & Young's Office
- 13 CSI Chapter Christmas Party Tuesday, December 13th, TBD (No AIA LU)
- 19 CSI Lunch & Learn - Monday, December 19th, 11:45 am at East Tennessee Community Design Center WATE 6 Carriage House "Grease Interceptors" Presented By Vince Scriboni from Zurn Green Turtle (AIA 1LU)

JANUARY 2017

- 03 CSI Board Meeting - Tuesday, January 3rd, 5:30 pm at Odle & Young's Office
- 10 CSI Chapter Meeting - Tuesday, January 10th, 11:30 am at Calhoun's on the River. "Brian Dolin **D&L Safety Services (No AIA LU)**
- 26 CSI Lunch & Learn - Thursday, January 19th, 11:45 am at East Tennessee Community Design Center WATE 6 Carriage House "Safe Room Design" (AIA 1LU)

The President's Message It's Football Time in Tennessee!

Ms Suzan Jordan, CSI Dupont Tyvek CSI Knoxville Chapter President <u>iamswj@yahoo.com</u>



Don't put off until tomorrow what you can do today or what I was reminded of in October. September 30th rolled around and I knew that I needed to have the

President's message in to our wonderful editor, Stacy so that she could do her job. I planned to finish it on the weekend, after all, my schedule was open with no obligations. That evening, my mom was admitted to the hospital and was there until Monday. I still didn't have my message done. I thought I would knock it out Monday evening. Nope. Monday evening she was readmitted to the hospital for 2 more days. By that time I had missed the deadline for the publication of the Spec.Don't put off until tomorrow.....

Then that following week I was reminded once again not to procrastinate. We received word that Jerry Jordan had passed away. I had meant to make time to go visit with him and Betty, I just didn't get around to it. It's not that I didn't have time, I did. But I didn't. Jerry is not the first that I have meant to visit, but didn't and was too late. Don't put off until tomorrow......

October was a month of sticky notes, reminders that time is short and when I need to get something done, I need to JUST DO IT! What do you need to do today? Don't put it off.

On other notes:

We just had a great Golf Tournament put together by Wes Crow & Josh Brock. We had 72 players & beautiful weather! The 15th hole was especially fun with the Knox County Sherriff's Deputy, Les & his AR15! That sure made the par 5 hole much easier. Again, thank you Wes & Josh.

The Invitations to the 2017 Product Show went out last week. If you are a manufacturer's rep and want to get a big bang for your dollars, reserve your booth today! There is no other place that you can see a room full of professionals in the Knoxville area for such a small cost. If you are an architect, engineer, or interior designer, invite the manufacturer's reps that call on you, or products you specify to reserve their booth. Invite your fellow construction professionals to join us.

Our Christmas party is coming up! Invitations will be sent soon. Hope you will join us. See you next meeting.

PRESENTATION SUMMARY

Building a Sustainable Community: The Important Role of the Built Environment

Erin Gill, Director of the City of Knoxville's Office of Sustainability, will highlight past, current, and planned efforts to strengthen Knoxville's ecosystems, economy,



and quality of life through the built environment. The presentation will discuss city initiatives related to energy, infrastructure, and land use that are helping to make our community more vibrant, resilient, and sustainable.

Erin Gill serves as director of the City of Knoxville's Office of Sustainability and oversees efforts to improve the environmental, economic, and social health of the Knoxville community. Her professional experience focuses on improving the efficiency and resilience of urban systems and includes roles at ICF International and EPA's Office of the Chief Financial Officer. A native of Oak Ridge, TN, she received a Master of Environmental Management degree from the Yale School of Forestry & Environmental Studies and a B.A. in History from the University of Notre Dame.

egill@knoxvilletn.gov (865) 215-4430 400 Main St., Room 503 Knoxville, TN 37902



CSI BOARD HIGHLIGHTS

By GARY BERGERON, CSI CSI Knoxville Chapter Past President CSI GSR Technical & Education chair

Edited by THE SPECK Editor, Stacy Colbaugh, CSI, CDT

October 4, 2016

In Attendance: Suzan Jordan, President-Elect Whitney Kaul, Treasurer Gary Bergeron, Past President Will Dunklin, Director (2015-2017) Samer Shatara, Director (2015-2017)

These meeting minutes were recorded by Gary Bergeron and are outlined as follows:

The meeting was held at Odle & Young's Office and was called to order at 5:30 p.m. by Suzan Jordan. Meeting generally followed a meeting agenda prepared by Suzan.

1. Previous meeting minutes

The September, 2016 meeting minutes had been emailed to board members by Susan Davis. The minutes were reviewed and approved.

2. Treasurer's report

The treasurer's report had been emailed to board members by Leslie Fawaz. There was discussion about the upcoming golf tournament

3. President report

Suzan encouraged everyone to turn out for the upcoming golf tournament and thanked everyone for their concern about her mother.

4. President-Elect Report

No report.

5. Vice President report

Aaron and Kathy looking at venues for 2018 GSR conference in Knoxville.

6. Board members/committee group reports

6.1 Member Services (membership, fun, and house) – Daniel Smith, Director: No report.

6.2 Education (education, programs, and special programs) – Will Dunklin, Director: Confirmed lunch and learn programs are as follows: October 17^{th:} Yancey Quiett for Ben O'Neal Company (1LU)

November 18th: Mike Ford for Garland Corporation (1LU)

December 19th: Vince Scriboni for Green Turtle Grease Interceptors (1LU)

The chapter meeting programs are as follows: October 11th: Chris McCarty speak about employment and/or social media issues (no LU). November 8^{th:} Erin Gill speaking about City of Knoxville sustainability initiatives (no LU) It was discussed that Will should be creating CEU credits for many of these chapter meetings.

6.3 Recognition (technical, certification, and awards) – Susan Davis, Director: No report.

6.4 Communications (website, publication, and liaison) – Daniel Smith, Director: No report.

6.5 Fundraising (product show and golf tournament)

Kathy Proctor, Director: Wes Crow reported a good number of sign ups for golf tournament.
Product show will be on 1st Tuesday March 7th 2017
6.6 Chapter Administration (planning, historian, bylaws, and operating guide) – Suzan Jordan, Director:

7. Calendar

No changes to calendar.

8. Old business: Gary Bergeron made motion to postpone scavenger hunt to the spring, Jim Odle seconded and the motion carried

9. New business: Christmas Party date TBD 2018 GSR regional conference tentative 1st Friday in June

Next board meeting will be November 1, 2016.



MEMBERSHIP NEWS

By Mr. Geoffrey Cavalier, CSI-S, AIA, NCARB

Edited by THE SPECK Editor, Stacy Colbaugh, CSI, CDT

CSI Knoxville Members:

November's meeting we are asking everyone to wear your CSI membership pin. We also will be giving a membership pin to those who have never received one."

CSI GOLF TOURNAMENT

Photos From The CSI Golf Tournament

Photos Submitted By Suzan Jordan & Kathy Proctor













NOVEMBER2016



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NOVEMBER 2016

CSI EDUCATION

WHAT I LEARNED FROM CSI... LAVATORIES

MR GARY T. BERGERON, CSI Kelso-Regen Associates, Inc. CSI Knoxville Chapter President gary@kelso-regen.com



We all use a lavatory (commonly called bathroom sinks) several

times each day to wash our hands, but how many of us think about the "details"?? Most owners think about wall hung, pedestal, or counter mounted lavatories, but to an architect, interior designer and the plumbing engineer, there are many more options.



Wall Hung lavatory without backsplash and 4" holes on center faucet

A wall hung lavatory is one of the least expensive fixture, but there are several varieties. The size of the lavatory can be a very small corner lavatory to a commercial 20" x 18" ADA compatible unit. Most owners prefer a wall hung fixture with a backsplash to prevent wall water damage. The method of lavatory wall hanging includes an inexpensive simple cast iron wall bracket, or a lavatory carrier that has "concealed arms" under the lavatory and concealed posts that carry the weight of the fixture to the floor. The faucet can be equipped fit a lavatory with 4" on center holes or an 8" on center holes. The faucet and lavatory holes must be coordinated to ensure compatibility. Commercial faucets do not usually include a pop up drain since they can be a maintenance headache and are usually equipped with a grid drain. The faucet can be equipped with separate handles for hot and cold water or a single mixing lever. The handles can be the old fashioned



Wall hung lavatory with backsplash, 8" on center holes, gooseneck faucet, wrist blade handles

cross, or a short 2" long handle, or the long wrist blade "paddles". The single lever can be a long handle or a "ball". The faucet can also be equipped with a short horizontal spout like your home lavatory, or a gooseneck "candy cane" spout that allows someone to wash their hands and arms up to their elbows.



Pedestal lavatory with 8" on center faucet and short lever handles

(LAVATORIES... Continued on Page 8)



Corner lavatory with single lever faucet

The counter mounted lavatory is often more expensive than the wall mounted lavatory. It can be "integral" to the counter top, a drop in type with a self-rimming lip on top of the counter, a flush mount fixture with a trim ring, or an under counter mount lavatory with the bowl flush with the countertop, a vessel bowl, or some other variation. Vessel lavatories do NOT include an overflow hole and passage to the drain and will appear to be slow draining since the overflow doesn't provide an additional air vent. Please see the photos below for several different lavatory and faucet combinations mentioned above.

Lavatories and many other different construction industry topics are discussed at CSI meetings. Please come to our meeting on November 8th to hear Erin Gill discuss Knoxville's sustainability issues.



Under counter lavatory with flush rim & 8" on center hole faucet and cross handles



Under counter lavatory with projecting rim, 8" on center hole faucet and short lever handles





"Vessel" lavatories with "modern" faucets

CSI EDUCATION

WHAT I LEARNED FROM THE CSI LUNCH AND LEARN - Bottle Filling Stations

MR GARY T. BERGERON, CSI Kelso-Regen Associates, Inc. CSI Knoxville Chapter President gary@kelso-regen.com



Yancey,

On behalf of the CSI Knoxville chapter, thanks for bringing an informative AIA accredited lunch program to a select group of people. Thanks also to Leslie Fawaz and the East Tennessee Community Design Center for the use of their conference room and to Jeremy Shipp of Johnson & Galyon for coordinating the CSI programs and speakers.

"The Art of Water: Solving Water Delivery Challenges with Bottle Filling Stations" gave many of us a new understanding of the waste associated with bottled water industry.

Water bottle fillers are a more sanitary option to the traditional water coolers and should be an integral feature in all new and renovated buildings. There are over 50 different models of bottle filling stations available that also incorporate vandal resistant features . They can be installed free standing in municipal parks and incorporate dog watering station options.







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NOVEMBER2016

Protect what's important.

Darson Buckner, CSI, CDT LEED Green Associate Dealers Warehouse Corporation **DuPont Tyvek Senior Certified** Weatherization Specialist 865-556-3140 darsonbuckner@hotmail.com

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CSI LUNCH & LEARN: "TAPERED INSULATION"

PRESENTED BY MIKE FORD THE GARLAND COMPANY, INC.

FRIDAY, NOVEMBER 18TH

LUNCH & NETWORKING: 11:45 A.M. – 12:00 P.M. PRESENTATION: 12:00 P.M. – 1:00 P.M.





CSI Knoxville Chapter continues to offer you another learning opportunity "*Tapered Insulation*" presented by Mike Ford from The Garland Company, Inc.

Learning Objectives:

•Building code requirements and the use of tapered insulation systems.

•Understand that the proper design and

installation of tapered insulation systems is directly tied to its performance.

•Learn the differences between the two most commonly used designs are the two-way and fourway tapered systems.

•Learn when designing a cricket, two items need to be designed – slope and configuration of the cricket.

•Understand R-value and that there are various ways design professionals can specify the required thermal resistance of the roof.

•Recognize the signs of value engineering a tapered insulation system and how it could violate building code and void the roofing manufacturer's warranty.

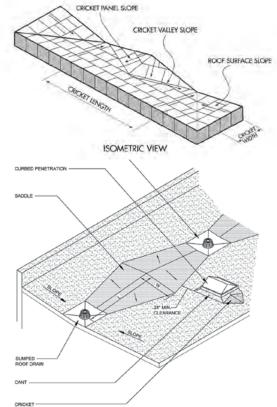
WHERE: East Tennessee Community Design Center WATE 6 Carriage House 1300 N. Broadway, Knoxville, TN 37917

PARKING: You should be able to find a parking space in the WATE parking lot. There also may be parking spaces available along Luttrell St.

AIA CEU: 1 HR Learning Unit

RSVP: Seating is limited, if you wish to participate, please send to Jeremy Shipp at <u>shipp.arc@gmail.com</u> with your name, email, and phone by 3:00 pm on Thursday, November 17th.

Mike Ford The Garland Company, Inc. 3800 East 91st Street Cleveland, OH 44105 865-414-0737 <u>mford@garlandind.com</u> http://garlandind.com





CSI Corner

Tegularity

By Sheldon Wolfe, RA, FCSI, CCS, CCCA Greater Minneapolis-St. Paul Area

As part of an update of approved abbreviations, my office changed its long-standing ACB (acoustic ceiling board) to ACT (acoustic ceiling tile). Before coming to this office I had always seen ACT, and it took a bit of time to get accustomed to ACB. No one knows where this unusual abbreviation came from, but it is the more logical of the two, as it includes both acoustic ceiling tile and acoustic ceiling panels. Still, it was decided to change from ACB to ACT because ACB is unusual. I doubt many contractors will ask an architect, "What's ACT?" but it has not been uncommon for contractors, subs, or suppliers to ask us what is ACB.

The change reminded me of a discussion at a CSI technical committee meeting many years ago when we discussed correct terminology for *SpecText*. It also brought to mind a similar discussion on *LinkedIn*, which opened with the question, "Ceiling TILE" or Ceiling "PANEL" -- What's the correct usage?' At the time of the former discussion I thought, as many do, that ceiling tile is 12 inches square, while ceiling panels are 24 by 24, or 24 by 48 inches. That belief lingers on, and appeared in the *LinkedIn* discussion.

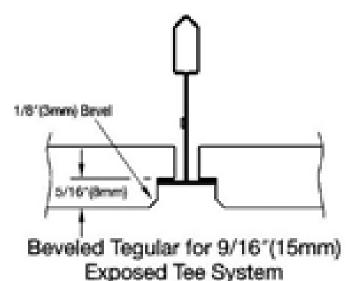
One of the difficult things about specifying ceiling panels or tiles is the inconsistency of manufacturers' literature. It appears that the only commonly used standard is ASTM E1264 - Standard Classification for Acoustical Ceiling Products, which defines both acoustical panel and acoustical tile.

3.2.1 acoustical panel—a form of a prefabricated sound absorbing ceiling element used with exposed suspension systems.

3.2.2 acoustical tile—a form of a prefabricated sound absorbing ceiling element used with concealed or semi-exposed suspension systems, stapling, or adhesive bonding.

Although E1264 defines panels and tiles, those terms often are used interchangeably. Note that neither definition refers to size or shape, the distinction being based entirely on how the acoustic boards are suspended. In fact, dimensions are not referred to in the standard, nor is configuration; the panels or tiles can be any size, and they don't have to be square. Even though the meanings of the terms panel and tile are clarified, E1264 is a surprisingly complicated standard. In addition to the two definitions above, it specifies fifteen Types (I through XIV, plus Type XX), some of which have three or four Forms, thirteen patterns (A through L, plus Z), flame spread classifications, and several edge designs: butt, reveal, kerfed and rabbeted, square, and beveled. Despite the inclusion of so many characteristics, the standard remains vague, using imprecise terms such as "large holes," "small holes," "lightly textured," and "heavily textured."

In practice, the complexity of E1264 is rarely, if ever, invoked. Drawings typically show ceiling panel and tile dimensions, and finish schedules and specifications typically define other characteristics by specifying specific manufacturers and model numbers, so there is no need to understand all the details of E1264.



We use standards to improve consistency and to minimize confusion. While I don't think anyone is going to have a problem with this specific item, applying the same logic to an entire project is bound to cause problems. For example, and this is an all too common problem, the same material may be identified by different terms in the same set of documents. Why can't the design intent be expressed using accepted definitions and standards?

On a related topic, what's a tegular edge? Going back to the CSI committee meeting I mentioned before, we found that it's a term perhaps first used by Armstrong for a specific edge detail. Armstrong defines tegular as "A functional edge detail that allows a suspended ceiling panel to extend below the grid, making the grid less noticeable." I don't believe Certainteed, National

(TEGULARITY... Continued on Page 13)

Construction Documents Technologist (CDT) Series

Questions:

According to the AIA-A201, § Article 15 CLAIMS AND DISPUTES:

1. For the contractor to make a claim for additional contract time resulting from adverse weather conditions, he must show to the IDM weather conditions:

a. Had an adverse effect on his construction schedule.

- b. Data for the affected period.
- c. a and b.

d. a and b, only if weather could not have been reasonably anticipated to have had an adverse effect on the contractor's construction schedule.

2. The architect is the initial decision maker (IDM), unless otherwise identified in the agreement for construction.

True or False

Answers below...

Steve C. Tubré, CSI, CCCA steve.tubre@cox.net

Answers:

1. d. a and b, only if weather could not have been reasonably anticipated to have had an adverse effect on the contractor's construction schedule.

2. True

Architects...seriously...where are your legal representatives? You could at least consider rejecting this responsibility and the very liability your client owner often is not willing to compensate.

Please refer to the CSI's <u>Project Delivery Practice</u> <u>Guide</u>, <u>Construction Specifications Practice Guide</u> and <u>Construction</u> <u>Contract Administration Practice Guide</u> for industry standard knowledge, understanding and guidance for the production, use and administration of construction documents... and resources for this weekly program.

Now, available are two other guides from CSI: <u>Sustainable Design</u> and <u>Construction Practice Guide</u> and <u>Construction Product</u> <u>Representation Practice Guide</u>. (TEGULARITY... Continued from Page 12) Gypsum, or USG use that term, though Rockfon does. And yet, I often see "tegular edge" used as if it applies to all acoustic ceiling manufacturers, probably because it sounds cooler than reveal edge. Those who use the term don't always know what it means; if I say, "Do you mean a reveal edge?" the response is often, "No, tegular." By the way, tegular is a real word, meaning "pertaining to or resembling a tile." According to **A.Word.A.Day** (highly recommended!), the etymology of tegular is:

> "From Latin tegula (tile), from tegere (to cover). Ultimately from the Indo-European root (s)teg- (to cover), which is also the source of thatch, deck, detect, stegosaur, tog, and protege. Earliest documented use: 1828."

That makes the way it's used a bit odd, as it doesn't describe the panel itself, which resembles a tile. Instead, it is used to describe only the edge, which does not resemble a tile. To say it pertains to a tile means nothing, as all edges of a panel or tile obviously are related to the tile.

The first definition of tile is usually something like "a thin slab of hard material such as baked clay laid in rows to cover walls, floors, and roofs." A couple of ceramic tile reps insist that the stuff they sell is the tile, and that what goes on ceilings is something else, but not tile. Finally, tegular comes from tegula, which, in construction, means roof tile. (See "Imbrex and tegula" in Wikipedia.) Apparently, some ceiling tile looks like roof tile.

Using a defined term is always the way to go, assuming the term is defined in an accepted standard. ASTM E1264 shows a detail of a reveal edge, and most manufacturers use that term. They often modify it with beveled, angled, square, wide, and narrow, but it remains a reveal edge. In this case, ignoring the standard definitions has resulted in a bit of potential confusion, but widespread use of tegular has essentially created a new standard term. If the suppliers know the specifiers are using terms interchangeably they won't assume that either is used correctly, and if it appears to specifiers that suppliers don't care, well... I guess it all works out.

© 2016, Sheldon Wolfe, RA, FCSI, CCS, CCCA, CSC Agree? Disagree? Leave your comments at http:// swspecificthoughts.blogspot.com/

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