THE ADVANTAGES OF DRYWALL GRID

Why Care About Drywall Grid on Your Project?

Credit(s) earned on completion of this course will be reported to AIA CES for AIA members. Certificates of Completion for both AIA members and non-AIA members are available upon request.

This course is registered with AIA CES for continuing professional education. As such, it does not include content that may be deemed or construed to be an approval or endorsement by the AIA of any material of construction or any method or manner of handling, using, distributing, or dealing in any material or product.

Questions related to specific materials, methods, and services will be addressed at the conclusion of this presentation.

AIA Continuing Education Provider

Copyright

Course/Learning Objectives

After taking this course, you will be able to:

- Explain the design, sustainability, and construction benefits of pre-engineered drywall grid versus traditional ceiling design and construction practices.
- Describe the integration opportunities for pre-engineered drywall grid with other design elements that lead to more sustainable and affordable projects.
- Discuss how collaborating early with partners better ensures best practices that lead to sustainable and affordable projects.
- List the benefits a hotel experienced in the case study involving pre-engineered drywall grid.

Course Agenda

5

In this Continuing Education Unit, we will discuss traditional drywall framing methods compared to pre-engineered methods. We will review why this Drywall Grid method will have a bigger impact than you think on your overall project or design.

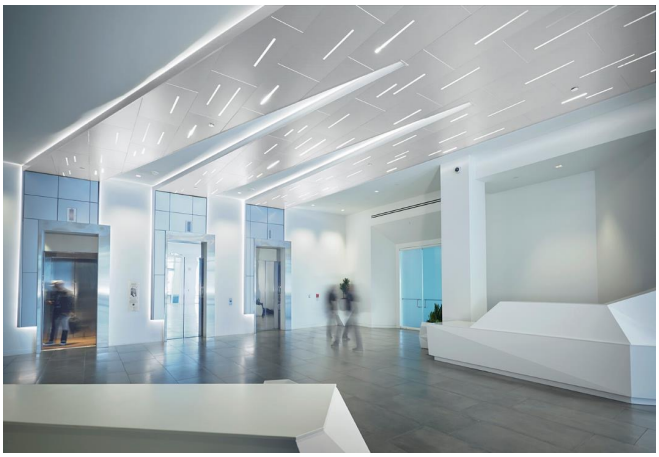
- How to Find Savings in a Design to Keep That Signature Space (VEs)
- Drywall Grid Benefits & Capabilities
- Current Sustainability Landscape & Embodied Carbons
- Embodied Carbons & Drywall Grid Products
- Traditional vs. Pre-engineered Installation & Cost Comparisons
- Case Studies
- Solutions to Common Conditions & Problems Faced on Projects
  - MEP, Ceiling Height, Fixture Integration, Ceiling Transitions, and Complex or Curved Framing
- Finished Project Examples

Advantages of Drywall Grid

These are the key capabilities that will be highlighted. You will have an appreciation for the value possibilities across these areas.

Who Loves Designing that Signature Space on a Project?

6

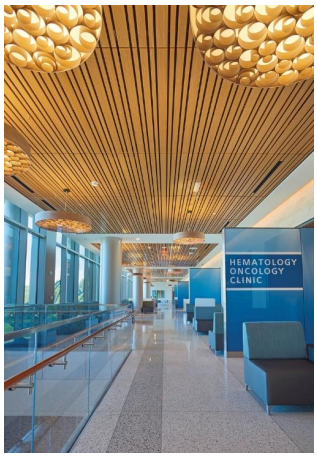


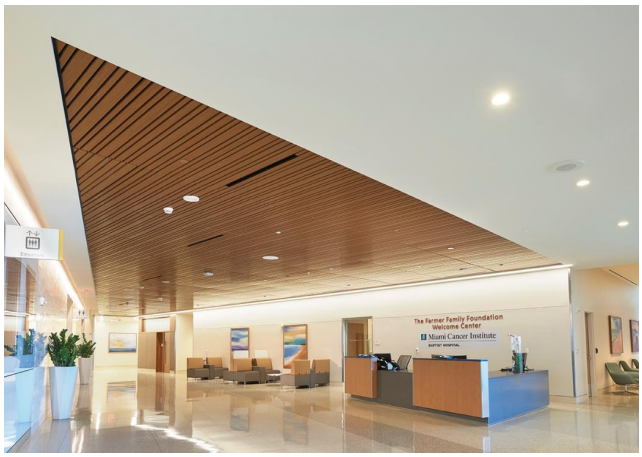
Put your mark on the design!

We love signature spaces. Everyone loves signature spaces. We're disappointed when they are met with Value Engineering because of compression in budget and time after designs are set.

What Happens When YOU Have to VE a Design Due to Cost?

7





Why Important?
Every Building Has Drywall & Drywall Details Can Make or Break an Overall Project.

Get more out of your project by having the solution!

When you have to value engineer a design because of cost and time-savings, get more out of your project by the one who has the solution.

Ask Yourself… How Do I Get More Out of a Project?

8

PROBLEM

SOLUTION

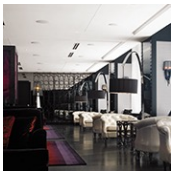
Save or get that signature space with drywall grid!

Find the savings YOU need!

What are strategies that you have taken to minimize this impact on your project? Address tight budget and schedule, RFIs, integration and take into account the architectural vision. Drywall grid can achieve a signature space even with tight budgets and schedules.

Drywall Grid Capabilities

9

Flat & Exterior	Curved	Corridors	Soffits	Clouds	Transitions
					
▪ General Framing ▪ Stucco/Plaster ▪ EIFS	▪ Barrel/Groin Vaults ▪ Valleys ▪ Domes ▪ 3D ▪ Waves	▪ 8'-6" to 17' ▪ Hotels ▪ Restrooms ▪ Dorms ▪ Small Rooms	▪ 90° ▪ Step (2,3,etc.) ▪ Drywall Pocket ▪ Bulkhead/Box ▪ Light Cove	▪ Squares ▪ Rectangles ▪ Circles	▪ Drywall-to-ACT ▪ ACT-to-Drywall ▪ Drywall-to-Drywall ▪ Elevation Change ▪ Flush ▪ Upturn ▪ Lighting Transitions

Maintain your original design intent

When it comes to drywall, there are 6 key advantages that add value to your project. We will review each of these areas.

Why Drywall Grid vs. Traditional Framing?

10

DRYWALL GRID

Architect Value

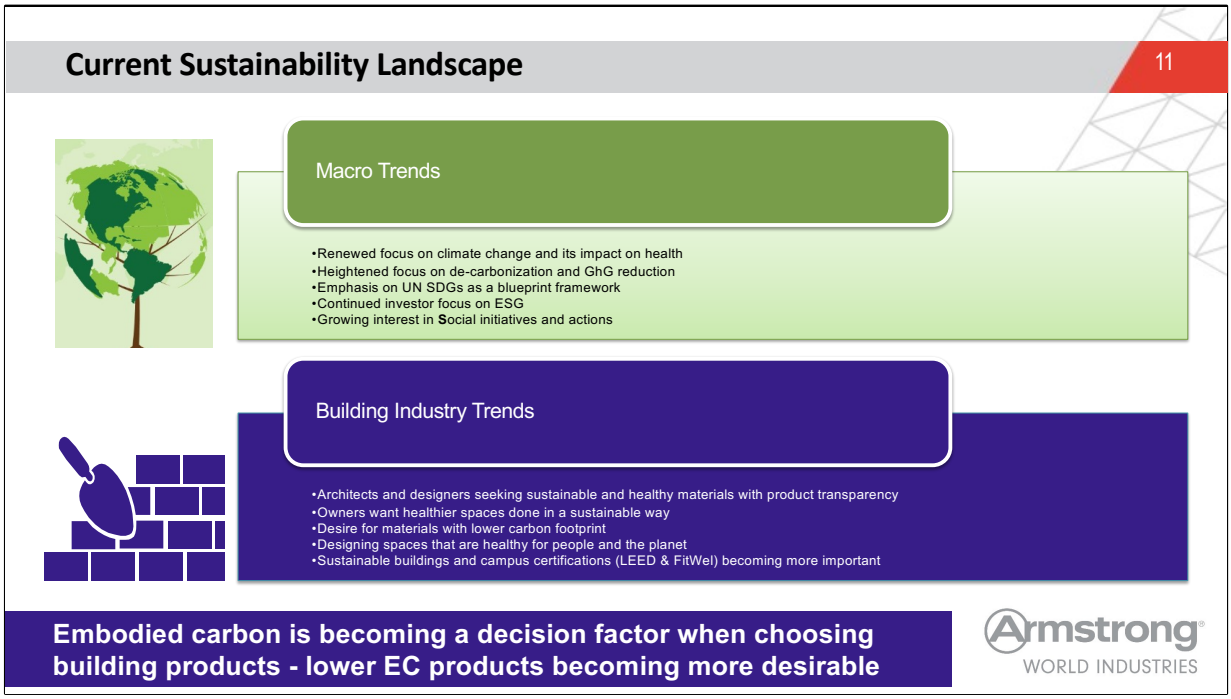
- Product:
  - Reduce Steel up to 2/3 (Greener Solution)
  - Improve Finished Consistency
  - Eliminate Guesswork – Pre-engineered and seismic tested
  - Meet Local Code Requirements
- Construction Process:
  - Reduce Construction Schedule
  - Reduce Cost
  - Mitigate Labor Shortages
  - Support with Hanger Wire
- Coordination:
  - LED Lighting Integration
  - Reduce RFI's due to MEP Conflicts
  - Allow for Tighter Clearances: 2" vs. 4" to 9"

Contractor Value

- Improve Job-Site Production *(avg. 30-50% savings)*
  - More done with Smaller Crew Sizes
  - Fast, modular system that is engineered to carry finished surface loads.
- Time, Material & Labor Savings *(up to 3x)*
  - Modular (pre-fab)
  - Reduce Job-Site Material Handling
- Safety:
  - No Need to Access Deck from Lift
  - Wires Can be Shot to Deck from Ground Level
- Coordination:
  - Easily Relocate Wires When MEP Conflicts Arise
  - Reduce Fire Proofing Patching

Get the look you want with the savings

Drywall Grid has many advantages over traditional construction. Its architectural value is seen in the product because it is a green, pre-engineered and seismic-tested solution that meets local code. For construction, it reduces timelines and costs and mitigates labor shortages. In terms of coordination, it can integrate with LED lighting, reduce RFIs and allows for together clearances. For contractors, Drywall Grid improves jobsite products and provides time, material and labor savings. It is safer for installation and improves coordination.

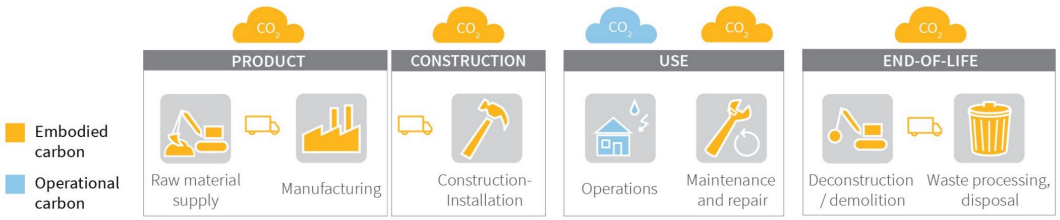


Due to macro trends and building industry trends, embodied carbon has become a decision factor when specifying building products. Macro trends include renewed focus on climate change and GHG reduction, UN Sustainable Development Goals, Environmental and Social Governance focus from investors and growing interest in social action. Building industry trends include architects and designers seeking sustainable materials, owners seeking healthier, sustainable spaces, desire for low carbon footprint and seeking sustainable and campus certifications like LEED and Fitwel.

What is embodied carbon?

12

- Greenhouse gas (GHG) emissions associated with the manufacturing, transportation, installation, maintenance, and disposal of building materials
- Result of life-cycle assessment over the full life cycle of a product represented as global warming potential (GWP)
- Embodied carbon is reported in units of kilograms of CO_2 equivalent per product unit (kg, metric ton, sq ft, etc.)



Building material/product selection accounts for the majority of a buildings embodied carbon

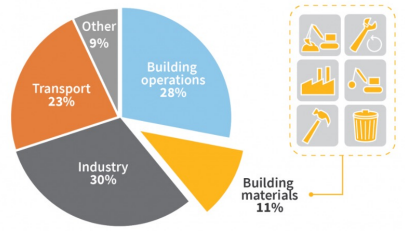
Armstrong WORLD INDUSTRIES

Embodied carbon refers to the greenhouse gas emissions arising from the manufacturing, transportation, installation, maintenance, and disposal of building materials. It can be calculated through a lifecycle assessment over the full life cycle of a product and is reported in units of kilograms of C02 equivalent per product unit.

Why is embodied carbon important?

13

- Embodied carbon accounts for significant percentage of global emissions
  - Approx. 40% of all global emissions are from the building sector
  - Approx. 11% of all global emissions are from building materials alone
- Building material/product selection is key to lowering a buildings embodied carbon
  - Majority of a building's carbon footprint is tied to materials/products used in construction
  - There is no decreasing embodied carbon with updates in efficiency post construction
- Reducing the embodied carbon of the built environment is urgent aspect to achieve climate change targets
  - Paris Agreement
  - UN SGDs
  - Build Back Better
  - City initiatives (NYC, Chicago, SFO Bay Area)
- Gensler's Climate Action By Design Report specifically says: "*We are taking a close look at our design process to make it easier for designers to identify and implement low-impact materials. We are also currently editing our master specifications to set requirements on embodied carbon*".



Global energy-related CO_2 emissions.
Adapted from the UNEP 2019 Global Status Report

Embodied carbon reduction plays an important role in limiting the impacts of climate change

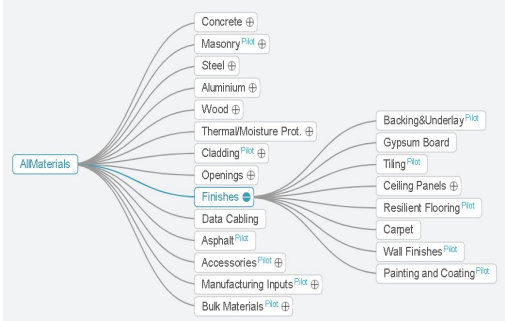
Armstrong WORLD INDUSTRIES

Embodied carbon accounts for a significant percentage of global emissions: About 40% of emissions from the building sector with 11% from building materials alone. For that reason, building material and product selection is key to lowering embodied carbon, especially because embodied carbon cannot be reduced post construction. Reducing embodied carbon in the build environment is urgent to achieve climate change targets, including for the Paris Agreement.

Embodied carbon and drywall grid products

14

- Embodied carbon is communicated through a product-specific or industry standard Environmental Product Declaration (EPD)
  - EPD is a standard format for reporting LCA results
- Collection of building material/products EPDs can be accessed through EC3 Tool
  - Allows users to view, benchmark, and compare the embodied carbon of building materials



When it comes to drywall grid products, embodied carbon is communicated through Environmental Product Declaration (EPD), which is the standard format for LCA results. Material and product EPDs can be accessed through the EC3 tool, which allows user to view, benchmark and compare embodied carbon of building materials.

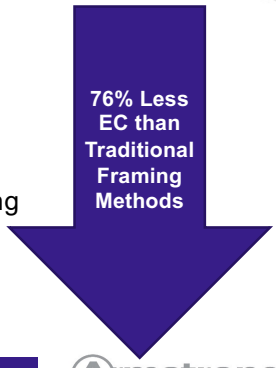
Embodied carbon and drywall grid products

15

Product aspects that greatly impact embodied carbon

- Material selection – different material vary in associated emissions
- Recycled content – increased recycled content reduces emissions associated with raw materials
- Weight/complexity – lighter products/less material use lowers embodied carbon
- Recyclability – recycling options at end-of-use reduce emissions associated with disposal

By reducing the on-center frequency, as well as unnecessary framing to structure, suspended drywall grid framing systems provide up to 76% less embodied carbon than traditional framing methods.



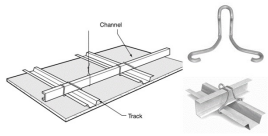
Armstrong WORLD INDUSTRIES

Product aspects that impact embodied carbon include material selection, recycled content, weight and complexity and recyclability. Materials associated with less emissions, products made recycled content, lighter products that use less materials and products that can be recycled at the end of their use are all associated with lower embodied carbon. Suspended drywall grid framing systems provide up to 76% less embodied carbon than traditional framing methods.

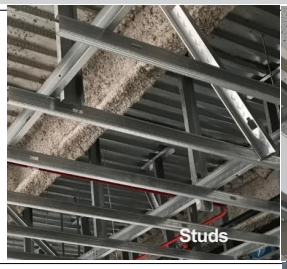
Flat Framing Details

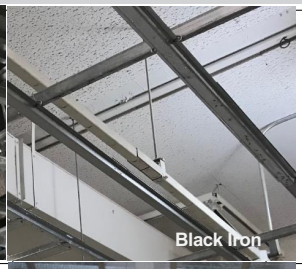
16

TRADITIONAL



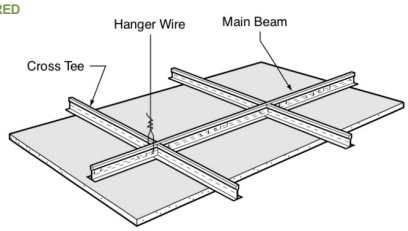
Black Iron or Studs





- Black iron with hat channel 16″ O.C. or stud framing 16″ O.C. to deck
- Measure, mark, screw, or wire all components
- Very labor intensive
- More material needed

PRE-ENGINEERED



- Replace studs (or Black Iron & channel) with DGS main beams and tees
- Engineered system with rout & alignment holes
- 2/3 less material
- Using 6′ tees reduces hanger wires by 1/3

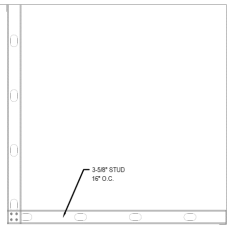
Metal Stud Framing vs. Pre-engineered Drywall Grid

For years flat ceiling construction was completed with black iron and track. Many areas across the country are still holding onto this construction practice due to the delay in adoption through union construction. Drywall Grid is 3 times faster than hat track and channel in flat open spaces.

Soffits: 90°

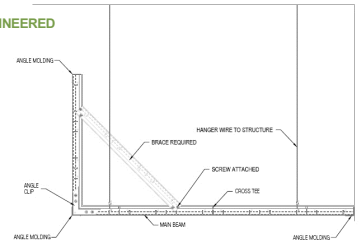
17

TRADITIONAL



- Must frame studs 16″ O.C. to deck
- Higher potential for inconsistent visuals/results
- Increased time to build framing

PRE-ENGINEERED



- Reduce risk with on-site solutions (controlled fit & finish)
- Forms perfect 30, 45, 60, 75, and 90° angles
- Minimize the construction schedule – 3x faster
- Reduced/eliminate the amount of framing to structure

Engineered to give you design control

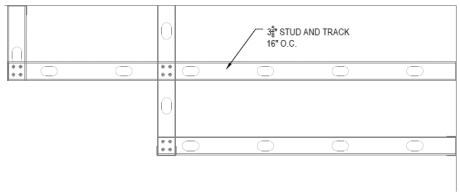
Soffits: This is 1 of 6 soffit solutions that we will be showing you. This is by far the most common condition on a job. Stud framing is 1/3 slower, must be screwed together, and studs go all the way to the deck .

Drywall Grid snaps together with a standard end detail that you have on standard acoustical grid for a very fast connection. Soffits connect to the structure with wire eliminating a significant amount of steel and decreasing installation time.

Soffits: Step

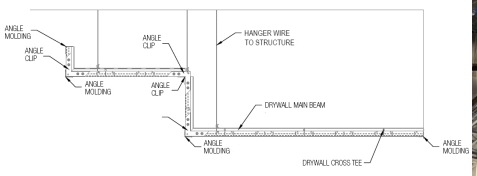
18

TRADITIONAL



- Stick framing is typically every 16″ O.C.
- Harder to install and must have multiple screws at every studs connection
- Increased time to build framing

PRE-ENGINEERED



- Supported by wires not studs saving space and time
- Spacing is every 4′ O.C. vs 16″ O.C.
- Very easy to prefabricate off site
- Minimize the construction schedule – 3x faster
- Reduced/eliminate the amount of framing to structure

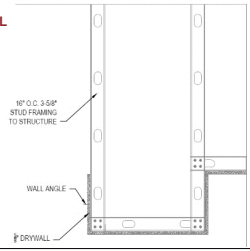
Engineered to give you design control

Drywall Grid can come in many sizes and shapes. Drywall grid can handle all of these applications, even steps. It is easy to install, easy to prefabricate offsite, minimizes construction schedule and reduces or eliminates the amount of framing. Overall, it is engineered to give you design control.

Soffits: Drywall Pocket

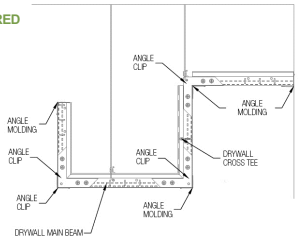
19

TRADITIONAL



- Stick framing is typically every 16″ O.C. and stick built
- Studs going all the way to structure take up space and take time
- Increased trade coordination, material usage, and time to build framing

PRE-ENGINEERED



- Supported by wires not studs saving space and time
- Spacing is every 4′ O.C. vs 16″ O.C.
- Minimize the construction schedule – 3x faster
- Reduced/eliminate the amount of framing to structure

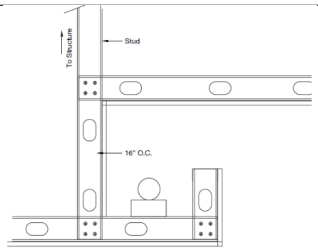
Engineered to give you design control

Drywall Grid can be used in small pockets for window treatments and shade solutions. It can also be integrated with pre-formed drywall for small pockets as well.

Soffits: Light Cove

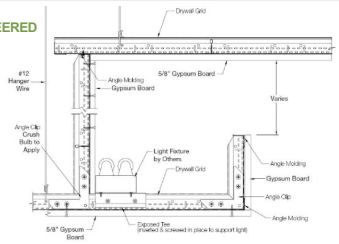
20

TRADITIONAL



- Light coves are a point of focus in the space. Stick framing using studs will yield inconsistent visuals and results
- More time is needed in coordination to make sure the cove is built to the lighting parameters.

PRE-ENGINEERED



- Spacing the framing using a 4' cross tee makes this build significantly faster to install.
- Very easy to prefabricate off site
- Drywall Grid give more room inside the cove for a variety of light sizes.

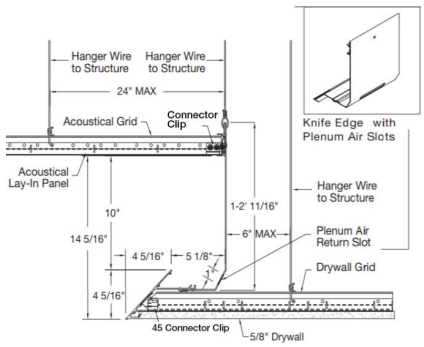
Engineered to give you design control

Light Coves are another way that drywall grid can add value. Light Cove construction is gaining in popularity due to the attention that LED lights are getting. Controlling the finished look and improving the speed of construction is key.

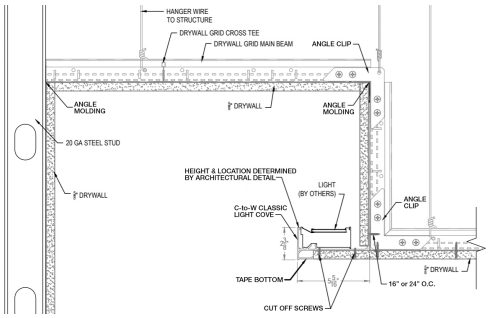
Light Cove with Integrated Drywall Grid

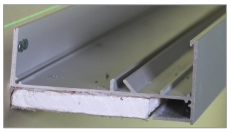
21

PRE-ENGINEERED C-to-C KNIFE EDGE LIGHT COVE



PRE-ENGINEERED C-to-W CLASSIC LIGHT COVE





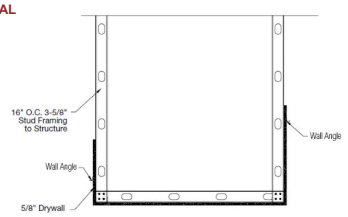
Engineered to give you design control

Integrated Drywall Grid can be pre-engineered for C-to-C Knife Edge Light Cove and C-to-W Classic Light Cove.

Soffits: Bulkhead/U-Box

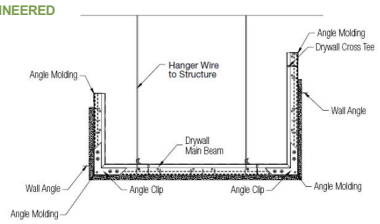
22

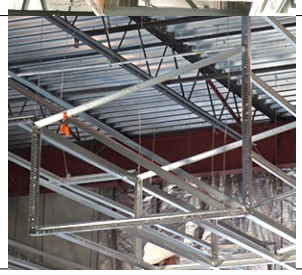
TRADITIONAL



- Frame studs 16″ O.C. to deck
- This stick framing process yields inconsistent visuals and results
- Increased trade coordination with MEPs, material usage, and increased time to build the framing
- Stud framing goes all the way to structure

PRE-ENGINEERED





- Supported by wires not studs, saving space and time
- Spacing is every 4′ O.C. vs 16 O.C.
- Very easy to prefabricate off site
- Minimize the construction schedule – 3x faster
- Reduced/eliminate the amount of framing to structure
- Strong enough to support large soffits.

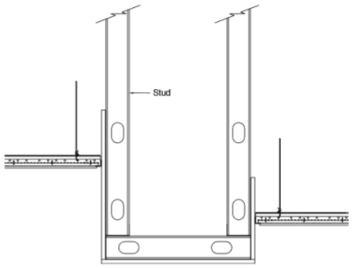
Engineered to give you design control

Bulkhead or Box soffit condition is a very common detail. Using Drywall Grid saves space and speeds up installation.

How much savings are we talking about?

23

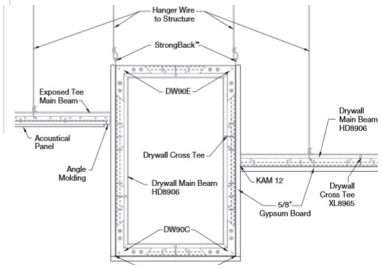
Traditional Soffit



Studs 16" O.C. 5' studs to structure

Vs.

Armstrong Ceiling Solutions Soffit



DGS 4' O.C. 5' wires structure

Est Material:	11.5' per ft of run	Est Material:	9.5' per ft of run
Est Material Cost	$5.25/LFT of soffit	Est Material Cost	$5.02/LFT of soffit
Est Total Cost at $55/LFT labor rate:	**$16.26/ ft of soffit**	Est Total Cost $55/LFT labor rate	**$8.69/ft of soffit**

DGS Box savings of 47%

3x faster

Estimated material and costs are both reduced with Integrated Drywall Grid, and result in 3x faster installation and a DGS Box savings of 47%.

Off-site Modularization

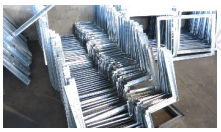
24

Reduce

- Time spent on the job by up to 50%
- Traditional soffit studs to structure
- Installation time – Soffits/Light Coves/Jigs
- Installers needed on site
- Material (steel) used

Increase

- Safety
- Coordination between M.E.P. trades with less plenum congestion
- Speed to connect soffits together using a simple "click" cross tee connection



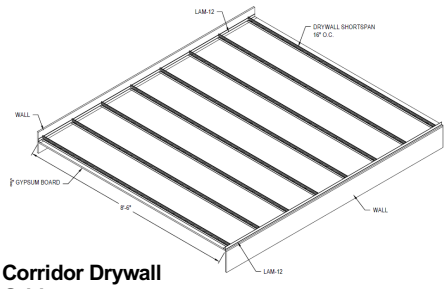
Pre-fabrication

All of the Drywall Grid Soffit solutions can be built off-site for an increased opportunity to modularize the construction process. Modularization can save significant amount of time on the job. It can increase safety and coordination.

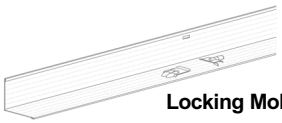
Corridors

25

PRE-ENGINEERED



Corridor Drywall Grid



Locking Molding

- Each connection must have at least 1 screw
- Screws/pop rivets needed to attach cross tees to molding
- Framing or plenum modifications– extensive modification of framing for MEP integration

- Locking Angle provides the fastest connection without screws for quick installation of the framing
- Minimize your framing height to maximize the room finished ceiling height
- Span 8'-6" with no support to structure
- Span up to 17' with one support down the middle

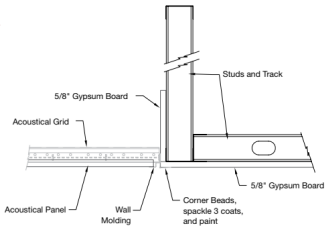
Span the gap

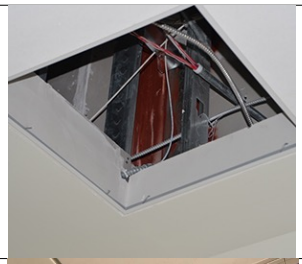
Drywall Grid can be used to span corridors, eliminating wires and framing in areas that are 8'-6" or smaller. It can span up to 17' with just one support down the middle. The Locking Molding eliminates the need for screws and results in quick installation.

Transitions: Flush

26

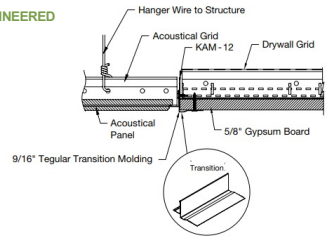
TRADITIONAL

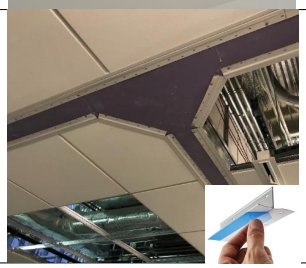




- Framing to structure at the transition necessary using traditional framing
- More Taping, mud, sand, drywall required
- This stick framing process yields inconsistent visuals and results
- Increased trade coordination with MEPs, material usage, and increased time to build the framing

PRE-ENGINEERED





- No waiting needed to start the acoustical ceilings.
- Cut weeks off the construction cycle
- Reduce the trade coordination
- Eliminate ½ of the taping, drywall, mudding and sanding needed.
- Crisp edges every time

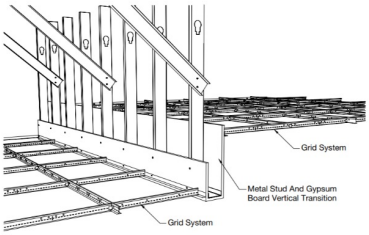
Regain aesthetic control

Transition Moldings offer a great value when you are transitioning between Drywall and Acoustical ceilings. You can start the acoustical ceilings without waiting. You can cut weeks off the construction cycle, reduce the trade coordination and get crisp edges every time.

Transitions: Greater Than 10″ Upturn

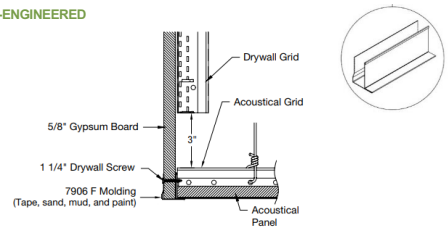
27

TRADITIONAL



- Framing to structure at the transition necessary using traditional framing
- More drywall, taping, mud, and sanding required
- This stick-framing process yields inconsistent visuals and results
- Increased trade coordination with MEPs, material usage, and increased time to build the framing

PRE-ENGINEERED



- No waiting needed to start the acoustical ceilings
- Cut weeks off the construction cycle
- Reduce the trade coordination
- Eliminate over ½ of the taping, drywall, mudding, and sanding needed
- Crisp edges every time
- Improved visual and consistent with the suspension ceiling

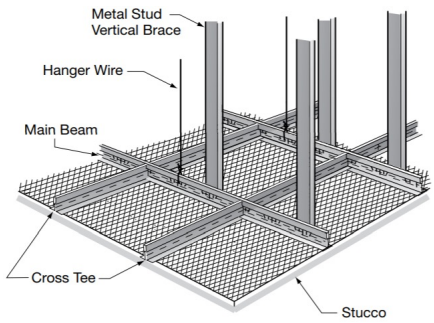
Regain aesthetic control

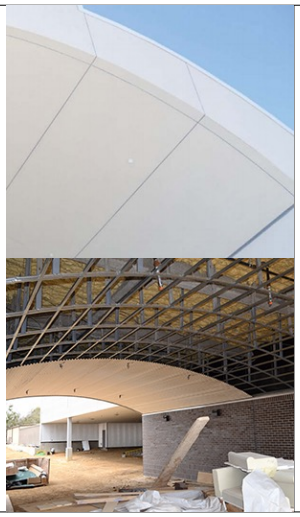
There are a series of vertical transitions that eliminate unnecessary framing mud, taping, and sanding work. All of this allows you to regain aesthetic control.

Exterior

28

PRE-ENGINEERED





- Wind load/impact tested and documented
- Save time over traditional framing
- Heavy-duty load rating
- Less material – green solution

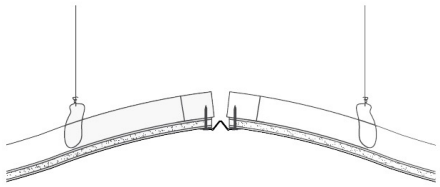
Reduce construction schedules

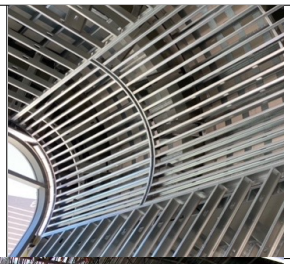
Exterior Drywall Grid presents a significant value over traditional studs as it brings the same value for exterior systems as interior solutions. It is wind load- and impact-tested, saves time and reduces materials, which makes it a green solution.

Curved Framing Details

29

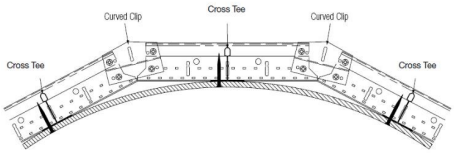
TRADITIONAL

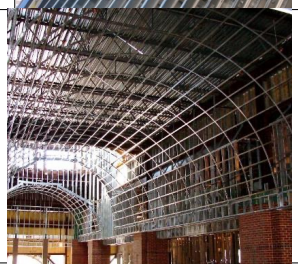




- Very labor-intensive installation
- Requires skilled, experienced installer
- Could lead to inconsistent curves and finishes due to method

PRE-ENGINEERED





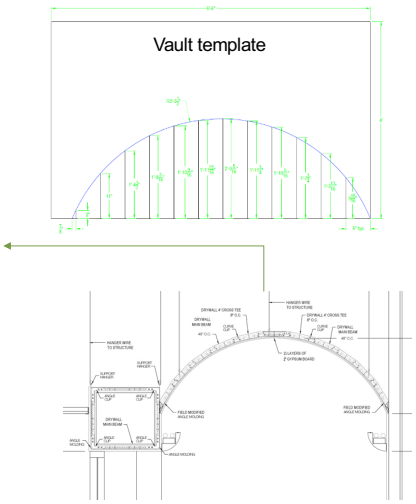
- Create custom radii to suit any design
- Easily Incorporate hills, valleys, undulating waves, vaults, and domes into your design
- 3x faster installation with half the manpower

Ultimate control of the curve

Curved framing is still installed with studs however contractors are learning the new faster way: drywall grid. Curved ceilings can be quickly created using a template and cross tees easily and simply connect them together.

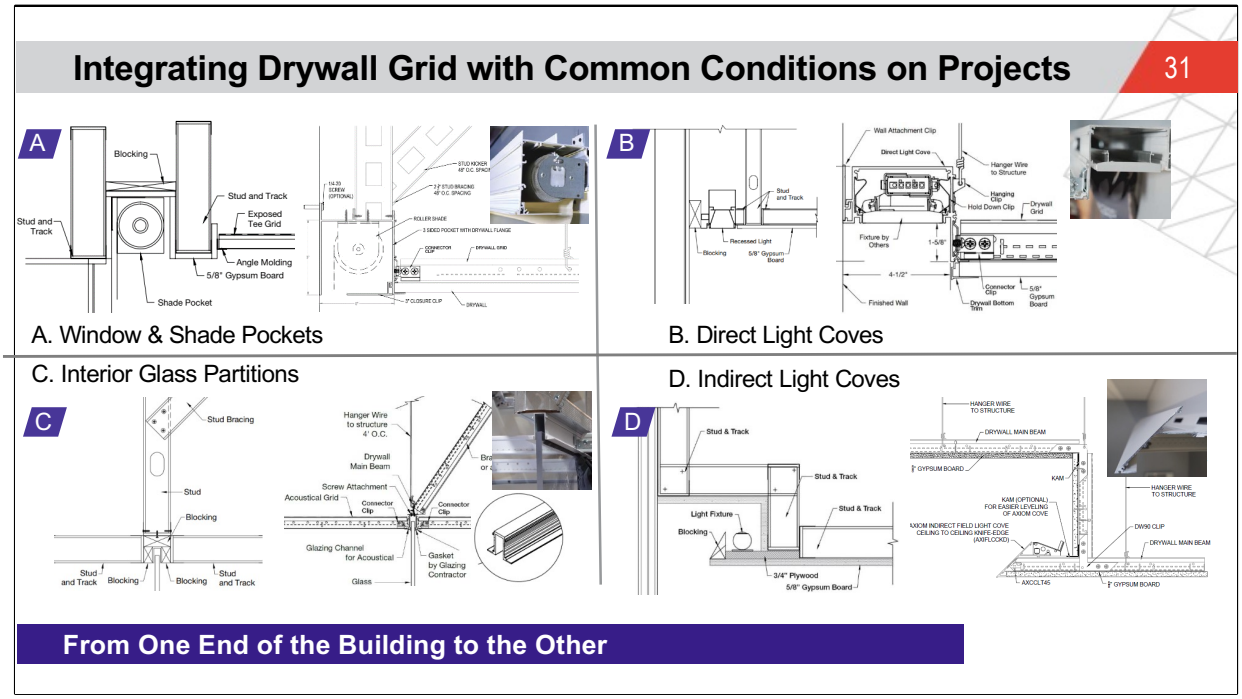
Concept-to-Completion

30



Shop drawing with drywall grid
(Box soffit to curved ceiling)

Here is an example of a curve installation.



Drywall Grid is designed to integrate with all other areas of building construction. Examples are pockets, lighting, glazing, and building soffit solutions.

Drywall Grid Savings on Integrated Design

32

Specialty wood ceiling maintained

Here are some project examples. In this image, the specialty wood ceiling is maintained with drywall grid and light cove, shade pocket with diffuser and transition molding.

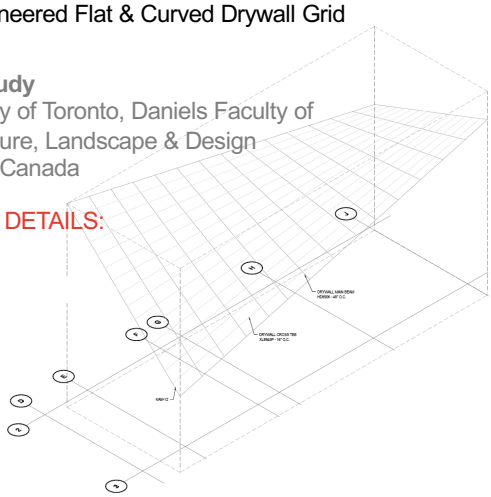
Drywall Grid – Case Study

33

Pre-engineered Flat & Curved Drywall Grid

Case Study
University of Toronto, Daniels Faculty of Architecture, Landscape & Design
Toronto, Canada

DESIGN DETAILS:



Creating the Complex Framing

Here is an example from the University of Toronto in which pre-engineered flat and curved drywall is used to create complex framing.

Drywall Grid – Case Study

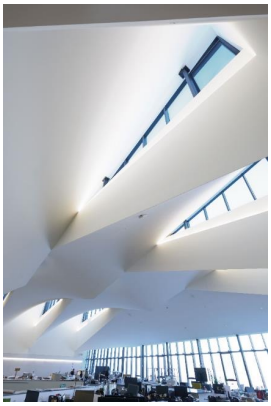
34

Pre-engineered flat & curved drywall grid

Case Study
University of Toronto, Daniels Faculty of Architecture, Landscape & Design
Toronto, Canada

RESULTS:

- Created a full-scale mockup
- Held on-site training sessions
- Installed in ½ the time vs. studs
- Maintained original design intent
- Reduced material & labor on project



Alternative to Metal Studs to Achieve Design Intent

The project was able to create a full-scale mockup of the drywall grid design and hold onsite training sessions. It installed in half the time versus using studs. They were able to maintain the intent of the original design and reduce materials and labor in the process.

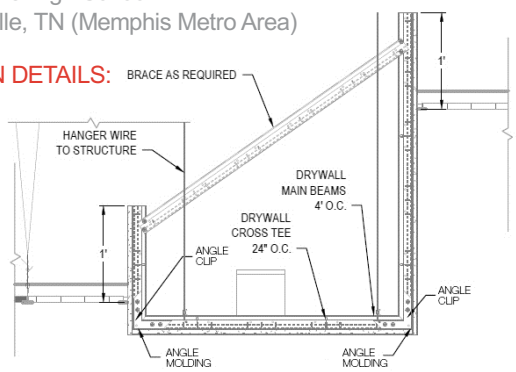
Drywall Grid – Case Study

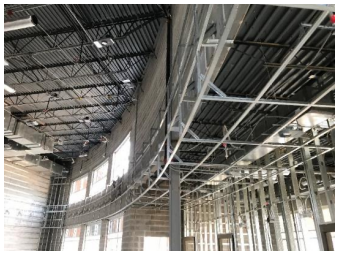
35

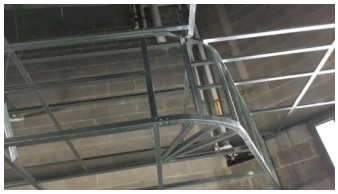
Pre-engineered drywall grid for soffits

Case Study
Collierville High School
Collierville, TN (Memphis Metro Area)

DESIGN DETAILS:







Converted Stud Details to Drywall Grid

https://www.youtube.com/watch?v=oKMmp5LIvIU

This case study looks at Collierville High School in Tennessee in which pre-engineered drywall grid for soffits was used to cover stud details.

Drywall Grid – Case Study

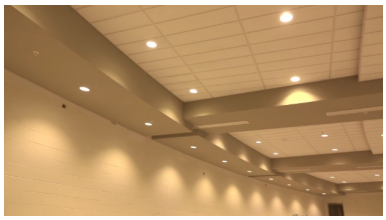
36

Pre-engineered drywall grid for soffits

Case Study
Collierville High School
Collierville, TN (Memphis Metro Area)

RESULTS:

- Beat budget and schedule on project
- No MEP conflicts or RFIs – did not need to remove framing
- Improved safety – less material and time on scaffolds
- Pre-fab and smaller crew sizes to do same work
- Higher quality finishes with pre-engineered solution



Converted Stud Details to Drywall Grid

The project was able to beat budget and schedule goals. There were no MEP or RFIs and did not need to remove framing. The Drywall Grid installation was safe because there was less material and less time on scaffolds. The pre-fab construction required smaller crew sizes to so the same amount of work. The pre-engineered solution featured higher quality finishes.

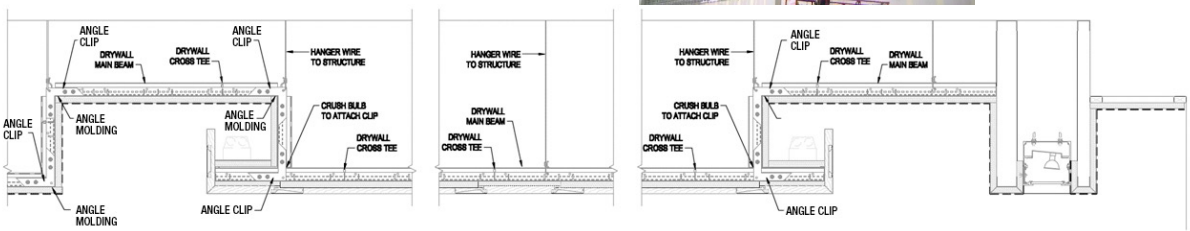
Drywall Grid – Case Study

37

Pre-engineered drywall grid for hotel renovation

Case Study
JW Marriott Hotel
Chicago, IL

DESIGN DETAILS:



Extensive Soffit Framing with Hanger Wire

In this case study for the JW Marriott Hotel, pre-engineered Drywall Grid was used for an extensive hotel renovation. It involved soffit framing with hanger wire.

Drywall Grid – Case Study

38

Pre-engineered drywall grid for hotel renovation

Case Study
JW Marriott Hotel
Chicago, IL

RESULTS:

- Reduced framing to structure with hanger wires & drywall grid
- Reduced material on the overall project – green solution
- Eliminated risk with pre-engineered soffits and corridors to reduce the construction schedule

Drywall Grid curved ceiling, step soffit & light cove

The result of the project was that Drywall Grid reduced framing to structure with hanger wires and reduced material on overall project. It eliminated risk with pre-engineered soffits and corridors to reduce the construction schedule.

Alleviate Common Framing Pain Points in Your Design

39

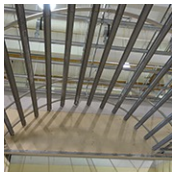
MEP Conflicts

Ceiling Height

Fixture Integration

Ceiling Transitions

Complex/Curved



We will go into more detail on each pain point in the following slides.

NOTE: all images in this section are traditional framing.

Finished Aesthetics

Reduce RFIs and Construction Schedules

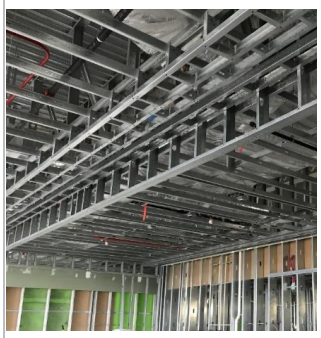
Drywall Grid can help you alleviate common framing issues. That includes MEP conflicts, ceiling height, ceiling transitions, complex/curved framing and fixture integration.

MEP Conflicts

40

PROBLEM

Traditional framing creates crowed plenums making it difficult to coordinate installation timing and installation of MEP systems.



- A lot more framing is required to frame soffits using traditional materials
- This makes running MEP much more difficult and time-consuming
- Many times when there is no plenum space, the studs must be cut and modified to allow for the MEPs

SOLUTION

Reduce or eliminate space conflicts with MEP services in the plenum with the use of drywall grid and hanger wires.

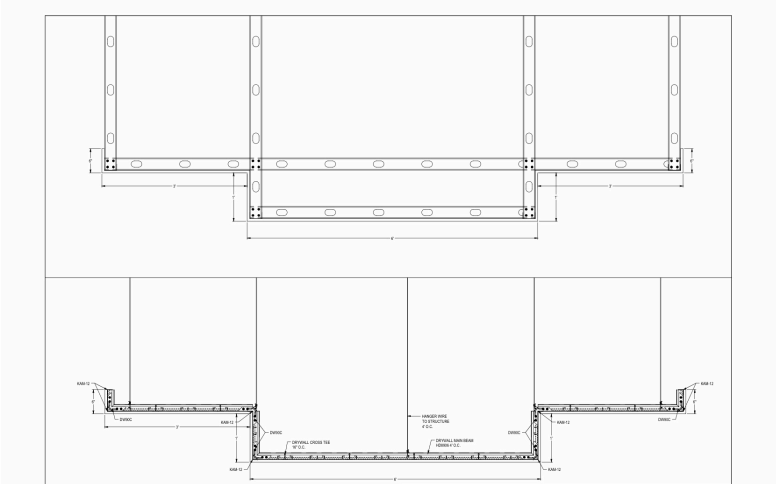
- Eliminating the framing to deck allows for an open plenum for additional space for MEP's
- Take notice of the cable tray on top of this drywall grid soffit.

Conflicts between architectural drawings & MEP

Drywall Grid has a lower profile than most studs, allowing room for congested spaces. It also allows for more room in the plenum for mechanicals.

MEP/Ceiling Height Challenge Example

41



- Studs fill the plenum and make that space almost un-usable.
- Wires to structure can free the plenum space for cable trays, HVAC and more

Where does the MEP go?

Where does the MEP go? It is more difficult to figure out with studs. Wires to structure can free the plenum space for cable trays, HVAC and more.

Ceiling Height Challenges

42

PROBLEM

Plenum space can be a premium in certain spaces. Traditional framing takes up more room and can dictate your finish ceiling height.

- Extra framing to structure in congested plenums = added risk and cost to project
- Makes it very difficult for sprayed fire proofing

SOLUTION

The Drywall Grid system is a smaller engineered profile allowing more room in the plenum and can help achieve the desired finished ceiling height.

- Reduce risk & eliminate guesswork
- Improve safety – less material/deck access
- No support to structure at 8′-6″
- Wire is easier to thread through congested plenums

More steel used on traditional framing methods.

Plenum space is premium in certain spaces. The Drywall Grid system is a smaller engineered profile that allows for more room in the plenum. That can help with desired finished ceiling height. It also reduces risk and eliminates guesswork. Wire is easier to thread through congested plenums.

Fixture Integration

43

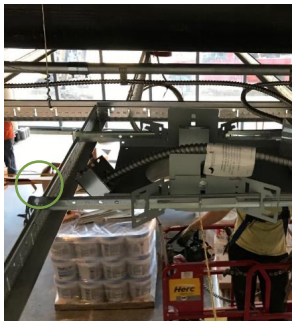
PROBLEM

Lighting is a key consideration in every design and stud framing needs to be cut or modified to fit lighting.

- Difficult to maintain and set fixture height
- Screw required through the side of the studs
- More height to ceiling framing - requiring deeper plenum
- Notching/removing stud weakens framing and may require additional framing

SOLUTION

Plug-and-play kitted solutions that allow the light to be installed after the drywall is complete – maintaining the look you envisioned without RFIs.



- Easy fixture integration
- Hangers snap over the bulb of the grid
- Predictable performance
- Eliminate sagging and bent framing

Framing modifications to fit intent

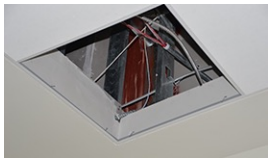
Drywall Grid has an extra rout hole to allow for special size fixtures, (i.e. Type F style light fixtures). Plug-and-play kitted solutions allow the light to be installed after the drywall is complete. Hangers snap over the bulb of the grid. Sagging or bent framing is eliminated.

Ceiling Transitions

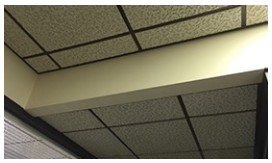
44

PROBLEM

Creating a consistent detail across transitions in the space using traditional framing to structure creates crowded plenums and extra effort on the job.



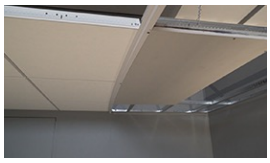
- Return framing to structure – more time, material & labor



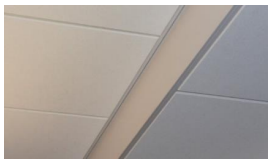
- Bulkhead needed to achieve certain transitional elements in a design

SOLUTION

Reduce risk with on-site solutions because fit and finish is controlled and reliable with drywall grid and integration.



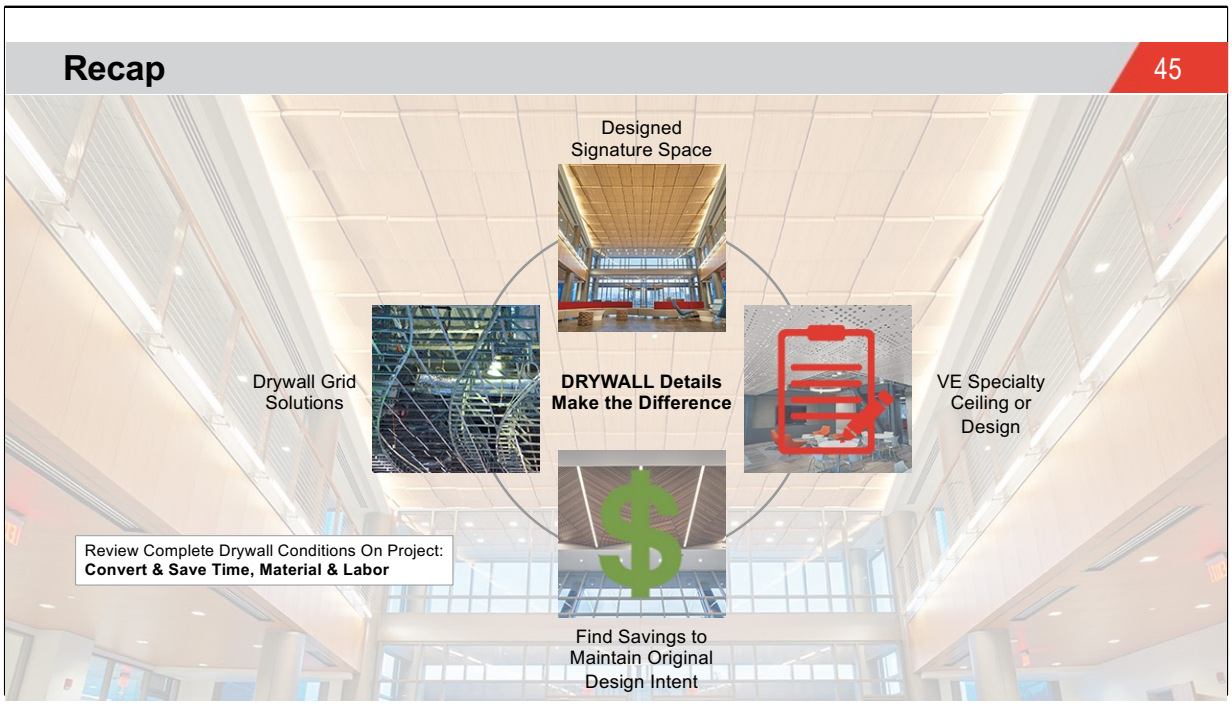
- Reduce upturn of framing, drywall, corner bead & finishing



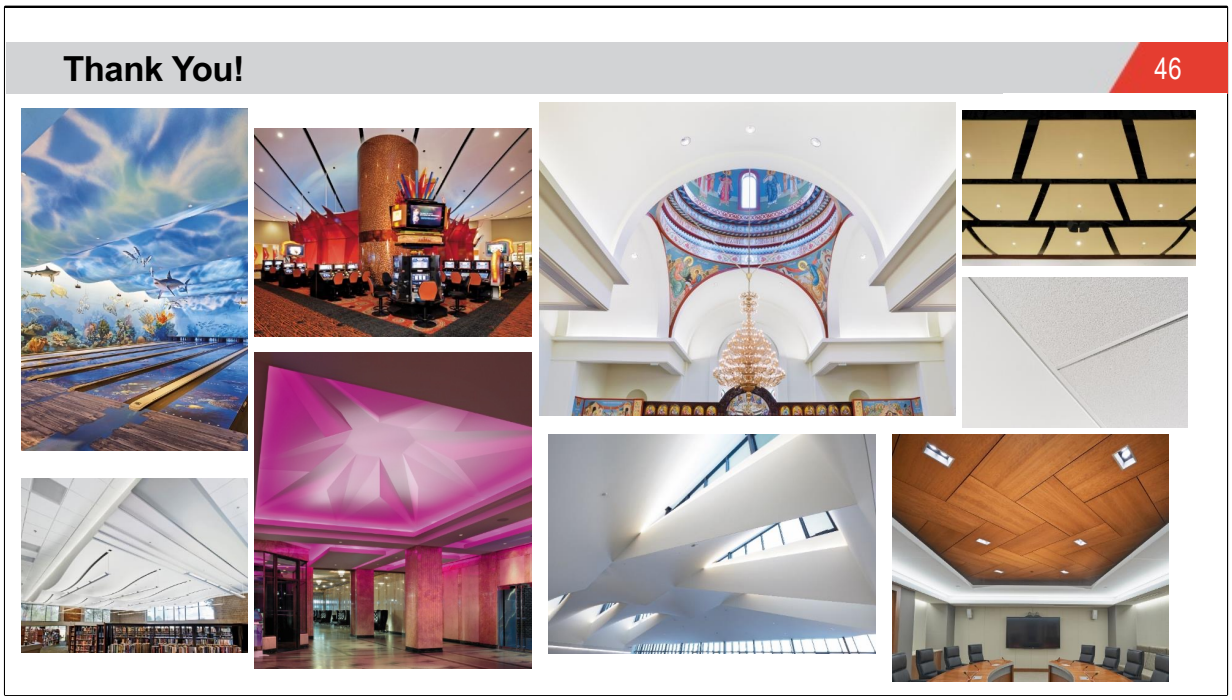
- Regain quality control with pre-engineered modular system

Engineered to give you design control

This page highlights the ceiling transition issues. You can reduce risk with on-site solutions because the fit and finish is controlled and reliable with Drywall Grid and integration.



This CEU highlighted 6 key capabilities of Drywall Grid and how these capabilities enable huge opportunities to save money and time across the construction process.



Here are a few examples of some Drywall Grid projects.

This concludes our AIA/CES course.

Thank you for your time.

This concludes The American Institute of Architects Continuing Education Systems Course.

Continuing Education:
ceu@bnpmedia.com

BNP Media Webinars:
webinars@bnpmedia.com

AIA Continuing Education Provider