

## The American Institute of Architects Continuing Education System

AIA/CES Registered Provider Program Summary Handout

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**Provider # 404109236**

**Lamitech, SAS  
Bogota, CO**

**Credit: 1 LU Hour**

**HSW: yes**

**Program: Compact Grade HPL,**

**AIACompact01**

**Length: 1 hour**

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### **Description:**

The goal of this class is to illustrate the unique qualities, characteristics and applications of Compact Grade High Pressure Laminate. To evaluate common uses and engineering requirements required for long term success of Compact HPL for both Interior and Exterior applications.

### **Learning Objectives:**

1. Review trade accepted definitions, history and composition of Compact Grade Laminate.
2. Walk through manufacturing steps to fully understand Compact Grade Laminate.
3. View design, new technologies and technical benefits of Compact Grade Laminate.
4. Learn industry tips to successfully and safely specify and use Compact Grade Laminate.
5. How a ventilated facade or rain screen cladding supports Passive House architecture.
6. Illustrate sustainability of Compact HPL as a material, its use and Cradle to Grave life cycle.
7. Describe how producers and suppliers can offset their carbon footprint.

### **How Taught:**

The CES facilitator utilizes a PowerPoint presentation to provide the learning objectives listed above.

### **A/V Needed:**

An electrical outlet and a screen for the Power Point Presentation are needed. The CES facilitator will provide a laptop and projector.

### **Target Audience:**

Architects, building owners, interior designers and other design professionals who would like to learn the how to specify Natural Veneer.

### **Facilitator Qualifications:**

All Lamitech CEU facilitators have been trained on the CES guidelines and have had in-depth study on the materials covered in the presentation. In addition, on-going training is provided to keep the facilitator current on any new information that arises on this topic.

### **Contact Information:**

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1. The common applications of compact HPL
  - Tables and work surfaces, indoor and outdoor
  - Exterior claddings, bowling lanes, laboratory tops, restroom cubicles and more.
2. Define Compact HPL per AWI & ISO: A panel composed of melamine-impregnated decorative surface papers superimposed over a varying number of Kraft phenolic core sheets to achieve a desired thickness.... Architectural Woodworking Institute Per ISO: High-pressure decorative laminates (HPL, HPDL) — Sheets based on thermosetting resins (usually called laminates) — Part 4: Classification and specifications for compact laminates of thickness 2 mm and greater.
3. (HSW 1- Project development and documentation) Interior & Exterior - A material for extreme environments such as medical and transport and has a high strength in minimal thickness. Highly structural in 8, 10 & 12 mm (5/16", 3/8" & 1/2"), greater thickness are unnecessary.
4. Proper Nomenclature- Compact HPL is often called "Solid Phenolic" in the industry, however technically is not. Compact is highly antistatic, durable and formable. Compact HPL is 70% Paper + 30% Resin. Phenolics History as Bakelite and use in the electrical and consumer appliance and tooling industries.
5. (HSW 2- Project development and documentation) Phenol and Melamine Resin Review- 30% content. Resins make fast renewable Kraft paper and some recycled content, which is stored carbon, have 50+ year life expectancy as a high use commercial material.
6. (HSW 3- Project development and documentation) No measurable off-gassing - Greenguard Gold rating.
7. (HSW 4- Project development and documentation) Impregnation of the resins into the paper, process adding paper to create thickness. Steel Finish plates create texture and into a press for heat and pressure. Resulting in extreme structural, impact resistant and humid resistant characteristics. No mold growth or effect from insects are possible.
8. (HSW 5- Project development and documentation) As horizontal table and counter top trends move toward thin structural surfaces, such as metals and porcelain, compact lends itself to be an ideal structural material that has a lower cost and far simpler fabrication by the most any carpentry skilled person with basic wood tooling. Illustrate endless fabrication possibilities utilizing a CNC router.

9. (HSW 6- Project development and documentation) Compact has superior screw holding strength, using machine screws or inserts vs. wood screws. Improving safety of falling wall panels when secured via rear mount mechanical fastening.
10. (HSW 7- Programming and analysis) Compact for Interior Wall Panels are an ideal solution when controlling humidity levels is not possible. It is the common choice for wall panels in airports, medical and educational projects where durability, longevity, chemical resistivity, fire resistivity and ease of replacement are requirements.
11. (HSW 8- Project development and documentation) Accelerated weather testing equipment allows the industry to evaluate the technical success of a material in both its visual and structural integrity prior to its launch to the market.
12. (HSW 9- Project development and documentation) Rain Screen is proven to be the most successful cladding option improving on maintenance, insulation, longevity and moisture intrusion. Ventilated facades inevitably make for longer lasting and healthier buildings.
13. (HSW 10- Project development and documentation) Compact exterior panels are ideal for ventilated facades where insulation and protection of the building is superior and ideal for aggressive Passive House Construction. Important to treat Compact as such and allow for ventilations which will maintain flatness of the panel.
14. (HSW 11- Project development and documentation) Glossy Compact, emulating glass walls at a reduced cost with increased durability.
15. (HSW 12- Programming and analysis) LEED, FSC, Greenguard and Life Cycle Analysis of materials are important, however factories can always do more, such as offsetting their carbon footprint to deal with vital future issues such as ocean acidification and climate change