



Building Enclosure Institute, Inc  
501(c) (3) Nonprofit Florida Corporation Est. 2018

## Critique of Architectural Details

**Summary:** We were asked for help with these architectural details publicly.

**Process.** The set of details presented below was only subjected to the first step of a process. The process involves analysis and critique or clarification of what was shown on the drawings, typically leading to research of associated conditions, review of available alternatives, and choice of solution, resulting in a new, better set of details.

### **General Comments:**

**Good:** These details are drawn by hand with by a very skillful drafter, so they are very pleasant for reader's eyes and easy to read. The sides of an assembly "out" and "in" are clearly marked. Sections through different materials are very well differentiated.

**Bad:** There are also some aspects commonly overlooked by architects, e.g. differential movements are not addressed, water drainage and ventilation paths are not marked (and an inward drainage is pictured), thermal insulation thickness do not appear to meet the stated resistance, and slope appears to be uncoordinated with either perimeter details and typical structural deflections.

Less important is that some dimensions don't match proportions, so the intentions are sometimes hard to decipher: where e.g. thicknesses of layers need to match the declared slope time distance, but it may be the necessary cost of the artisanal character of these sketches.

**Next Step:** We never heard back, which is typical. Typically, designers would either pretend they didn't get them or protest such comments, and therefore we would have to explain them, showing slideshows explaining basic principles of building physics, elementary behavior of common construction materials, photographs of associated deficiencies taken on buildings that we investigated in the past, etc. In most of these cases, it would be revealed that architects did not understand these comments. That's how the educational seminars were born: they were intended to address deficiencies in the typical architectural curriculum.



Building Enclosure Institute, Inc  
501(c) (3) Nonprofit Florida Corporation Est. 2018







