**Ch. 13 “Finishing the Exterior Walls” homework questions**

Instructions

Create space in the Word document below, and type your answers using complete sentences. When you are finished, submit your work as an email attachment.

(10 questions, 100 points possible)

1. Basic ideas (p. 330)
2. List several functions of the exterior walls of a building. Be complete and use your own words.
3. Why do the houses in Fig. 13.1 and Fig. 13.2 have large roof overhangs? What purpose(s) did the architects have in mind?
4. What is the logical sequence for constructing exterior walls:
5. Windows & doors, sheathing, paint, siding & trim, membrane weather barrier.
6. Sheathing, windows & doors, paint, siding & trim, membrane weather barrier.
7. Sheathing, paint, siding & trim, windows & doors, membrane weather barrier.
8. Sheathing, membrane weather barrier, windows & doors, siding & trim, paint.
9. Weather barrier membrane (p. 331-333)
10. What are the two primary functions of the weather barrier membrane?
11. Prior to the 1980’s, what type of membrane material was frequently used?
12. Referring to the above material, what did it look like and how was it attached to the walls?
13. More-modern weather barrier is known as “house wrap” or “Tyvek”. Write a few sentences explaining what house wrap looks like, and how it’s installed on a structure.
14. Fig. 13.5 shows a beautiful “Craftsman” style house with square porch columns and bases. What type of siding material is on this house? What type of roofing material? (you may need to refer back to chapter 11, the roofing chapter).
15. Exterior Trim (p. 334)
16. Examine the house in Fig. 13.6 from an architect’s perspective. Take a few sentences and describe the exterior trim on this structure. What is the trim trying to do visually? Do you think it is effective? Would you have done it any differently?
17. Siding (p. 334)
18. List at least eight (8) different materials which can be used for exterior cladding (siding).
19. Underline the correct word: “The exterior cladding (siding material) is installed (AFTER or BEFORE) the weather barrier membrane”.
20. Board siding (p. 335-337)
21. True or False: “Board sidings (Fig. 13.7) are attached to the wall with nails that penetrate all the way through the sheathing into the wood studs behind, giving a very secure attachment.”
22. Siding nails should be selected from what three (3) materials to prevent corrosion?
23. Examine the house in Fig. 13.10 from an architect’s perspective. What two (2) types of siding are used on this house? Take a few sentences and give your critical review (good or bad) of this house. Would you do the siding any differently?
24. Metal sidings (p. 338)
25. What is the chief advantage of using aluminum or vinyl (plastic) siding?
26. In Fig. 13.12, the aluminum siding is installed over what type of insulation?
27. What is a chief problem with aluminum siding?
28. What is a chief problem with vinyl siding?
29. Plywood siding (p. 339)
30. What makes plywood siding popular? What is its main advantage?
31. What is the largest problem in using plywood siding?
32. Examine the apartment complex in Fig. 13.14 from an architect’s perspective. Write a few phrases and give your critical review (good or bad) of the building exterior. Would you have done it any differently?
33. Shingle siding (p. 340-341)
34. Wood shingles are installed over sheathing material. List three (3) common types of sheathing used.
35. Most shingles are made from which two (2) types of wood?
36. The book states that installing shingles is “labor intensive”. What exactly does that mean? Why might shingles be labor intensive? (study the pictures)
37. Why do you think 3 types of shingles were used on the house in Fig. 13.22? What do you think the architect was trying to achieve?
38. Stucco siding (p. 342)
39. Stucco is the most common siding used in Southern California. Give at least four (4) advantages of using stucco siding on a house.
40. What is one weakness of stucco? How can this weakness be overcome?
41. Masonry and manufactured stone (p. 344-345)
42. Examine the residential buildings in Fig. 13.27. What “visual effect” is accomplished by the stone going half way up the walls? Do you think this is good application of stone?
43. Refer to Fig. 13.28. Explain in your own words how the stone facing is installed on this building. Think this out and take a few sentences.