

How It Feels To Be A Structure

Application of Architectural Concepts

"Probably many of you have roofs on your houses that look like a triangle. They are gable roofs. It is a good shape to let the rain run off, but it is also strong. If your roof isn't very wide, it may have just one brace up near the ridge. If your house is wider and needs a bigger roof, there may be more braces, and they most likely will be placed so they form triangles or a truss. If it is possible, try to take a look up in your attic.

"There is one more structural form we are going to talk about. Of course, there are many more, but this will be enough for now!

"If you have a very high wall, or one that has a heavy load on it, it may need some help to keep it standing up."

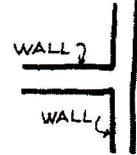
17. "Stand up straight against a wall in the room with the side of your body touching the wall as closely as you can from your feet to your shoulder. This would be the way another wall at right angles to the one you're leaning against would help to reinforce or buttress a wall.

"You might also be a pilaster - that is, an extra square or rectangle added to a wall to make it stronger. Stand with your back to a wall and press against it. That is how it feels to be a pilaster.

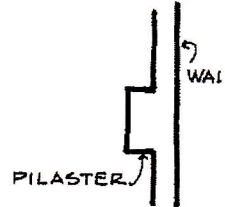
"If the wall needs a lot of help, a flying buttress might be added. Face the wall and stand out from it a little ways. Put your hands over your head and press the palms against the wall. Lean your whole body into the wall. Now you know how it feels to be a flying buttress!



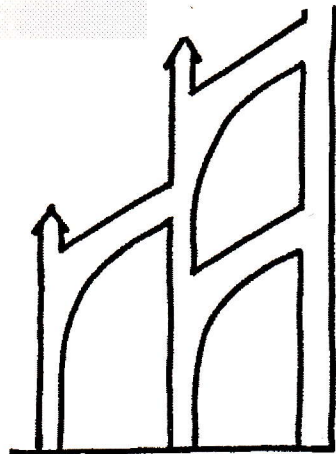
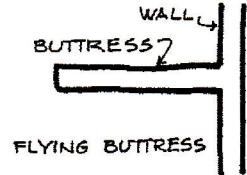
WALL



PILASTER



FLYING BUTTRESS



FLYING BUTTRESS